

Universal Enclosures

More than 50 years protecting your equipment

Catalogue
2012



Schneider Electric

More than 50 years protecting your equipment

> History

Universal Enclosures, the enclosure range of Schneider Electric, is based on two historical companies and brands created in 1958, Himel with origins in Spain, and Sarel with origins in France. These two companies have developed more than 50 years experience as leading specialists in the design, manufacturing and marketing of enclosure systems that manage installation and protection of automation and electrical devices while ensuring protection and safety in all types of environmental conditions.

Sarel & Himel are the roots of Universal Enclosures.

55000 m²
Industrial sites

1300 employees
Dedicated to developing, manufacturing and delivering products for your needs.



3 Material Solutions

Steel

Stainless-steel

Plastic & Polyester

> A permanent customer focus

From users and purchasing advisers, to distributors and those involved in implementation, Schneider Electric integrates their expectations into its global business approach through:

Products >

Equipment and materials adapted to all circumstances, whatever the configurations or applications, with all the guarantees of quality, reliability, speed and ease of use.

Services >

Customise products to your requirements and respond to specific needs with the greatest flexibility, efficiency and the highest levels of quality.

With this approach, Schneider Electric contributes to its customers competitiveness.



Helping you make the most of your energy



The choice of a worldwide leader

Command of five industrial lines of work

To efficiently meet the needs of professionals in the field of electricity, automation, electronics, VDI and telecom networks, Schneider Electric guarantees through its Quality Assurance processes, control of the industrial lines of work required for manufacturing our products.

Distributed over four sites, covering a total surface of 55000 m² the industrial activities take place in different workshops. Each workshop houses specialised production lines, with functions and equipment for specific production, dedicated to:

- Sheet-steel metalwork.
- Stainless-steel metalwork.
- Injection and extrusion of plastics.
- Hot press-moulding of SMC polyester.
- Logistics.

> Quality Assurance to meet customer needs

Our Total Quality approach covers all the stages of product design, manufacturing, ordering and delivery. We take our customers' needs as the focus point of our entire process, from new product development to product delivery from our logistics centres.

This quality is reflected in the ISO 9001 certifications for design, manufacturing and distribution of products and by the ISO 14001 certification for environmental protection.



PB500003



ISO 9001 &
ISO 14001
Certified



PB500004



PB500017

Schneider Electric

Our Universal Enclosures ranges, solutions for each application

> Spacial

Metal enclosures and boxes

From our small boxes to large suitable floor-standing enclosures, with the Spacial range you can find the perfect fit for your applications. Our extensive range of easy-to-use accessories helps you save time during your projects.

Select between steel or stainless steel to better suit the installation environment. In our stainless-steel offer you can find the optimal solution where cleanliness is required, or for highly corrosive environments.

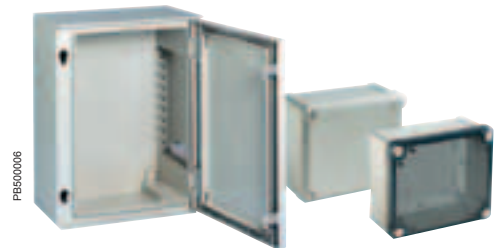


> Thalassa

Insulating enclosures

Working in difficult environments can, without the right protection, expose your installation to chemical or aggressive substances. Developed to efficiently protect it; our Thalassa offer, from boxes to floor-standing enclosures, made in fibreglass-reinforced polyester, resists in hard conditions and outdoor applications.

Our Thalassa industrial boxes in ABS or polycarbonate are strong, easy to install and designed to be used in highly demanding environments.



> ClimaSys

Thermal management

Preserving and keeping the right temperature inside your enclosure is vital for maximising the lifetime of your installed devices. With our Climasys offer you can find the right solution, be it Ventilation, Cooling or Heating, including control units for temperature, humidity and much more.



Industry and Infrastructure Offer

A material for every environment

> Steel

Indoor non-clean industrial environment

The industrial environment in mechanical plants is especially demanding as regards the protection of electric and electronic components against dust, splashing with oil and impacts. This environment therefore requires a range that is suited to the applications and easy to implement.

- **Universal range**, for industry.
- **E.M.C. range**, against electromagnetic disturbances (treated with Aluzinc).
- **Range of ATEX enclosures**, for potentially explosive atmospheres.



PB500013

> Solution:

The Spacial range in steel (wall-mounting, monobloc and suitable floor-standing enclosures).

> 304L - 316L stainless steel.

Demanding industrial environment

Food and beverage, pharmaceutical, petrochemical and infrastructure industries are particularly demanding in terms of hygiene and resistance to corrosion. With two grades of stainless steel:

- **304L stainless steel:**
Resistance to corrosion and cleanability (often used in food production environments).
- **316L stainless steel, also known as "marine stainless steel":**
Very high resistance to corrosion (saline or chlorinated environment).
- **Range of ATEX enclosures**, for potentially explosive atmospheres.



PB500014

> Solution:

The Spacial range in stainless steel (wall-mounting, monobloc and suitable floor-standing enclosures).

> Insulating polyester and plastic materials (ABS, polycarbonate)

Severe infrastructures and industrial environments

Outdoor infrastructures and electrical installations are exposed to direct sunlight, rain, saline mist, extreme temperatures, oil splashes, chemical and corrosive agents, and are in contact with the public.

- **Universal range**, for industry and infrastructures.
- **Range of ATEX enclosures**, for potentially explosive atmospheres.



PB500015



PB500016

> Solution:

The Thalassa range (boxes, wall-mounting and floor-standing enclosures).

How to select your enclosures & accessories?

Environment

In what type of environment will you be installing your products?	<ul style="list-style-type: none"> Indoor industrial environments, use steel. Indoor corrosive environments or with specific hygienic demands, use stainless-steel. Severe corrosive environments, indoor or outdoor, use polyester enclosures. Always think about the thermal issue. We have the right solution.
Is a canopy required?	A canopy is mandatory when liquid can fall on an enclosure. Our polyester enclosures (PLM and PLAT) are pre-equipped.

Technical requirements

Are tightness and resistance to external mechanical impact needed in your case?	Each enclosure specifies its: <ul style="list-style-type: none"> Tightness: IP. Resistance to external mechanical impact: IK.
Have you any size-related installation constraints?	Check the dimensions of the enclosure: Height (H) x Width (W) x Depth (D) in mm.
What colours are available?	RAL 7035 is our standard on steel enclosures. RAL 7032 is used for polyester. Other colours are available on demand.
How do you install your enclosures?	<p>Installation possible:</p> <ul style="list-style-type: none"> On a wall. On the floor. On a post. <p>Available accessories:</p> <ul style="list-style-type: none"> Fixing lugs. Plinths. Post fixing devices. Reinforcement for heavy load.

Door

Need to see inside the enclosure?	Choice of: <ul style="list-style-type: none"> Glazed doors. Acrylic windows. Control protection frames.
What type of lock do you want?	The type of lock is to be specified: <ul style="list-style-type: none"> Inserts. Keys. Padlocks.
Do you need an earth connection?	Electrical continuity by earthing braids or leads available as accessories.
How will you mount your raceways to the door? On the uprights? On the rails?	They can be fixed thanks to: <ul style="list-style-type: none"> Cable-duct supports. Door cross-rails. Cable ties.
Are doors opened for maintenance?	You may need: <ul style="list-style-type: none"> Door stops. Door switches.

Body or frame

Where do the cables enter the enclosure from?	A large variety of cable entries available.
What functions should this cable-entry provide?	Our cable glands or membranes provide: <ul style="list-style-type: none"> Tightness. Cable supports.

Mounting accessories

How will the equipment be installed inside your enclosure?	Several mounting plates according to your application: <ul style="list-style-type: none"> Plain. Micro-perforated (Telequick System). Perforated (Telequick System). Modular. 19".
Do you require cable accessories?	<ul style="list-style-type: none"> Cable ducts. Cable cross rails. Cable supports... ... are available, see our catalogue for more details.

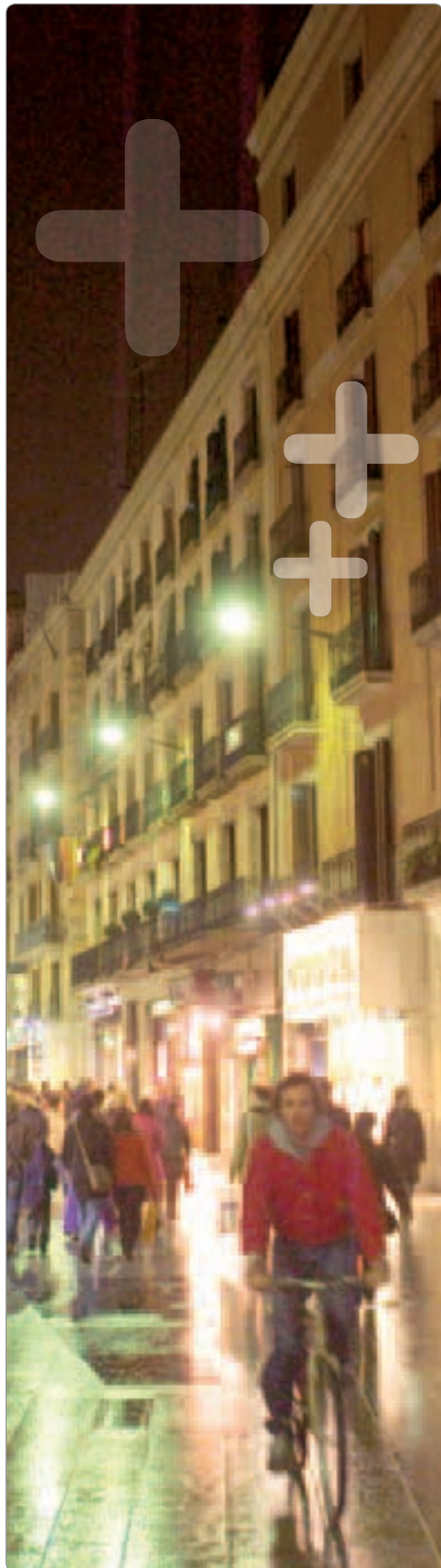
Thermal

Do you need to cool? Heat? Dry?	<ul style="list-style-type: none"> Ventilation louvers. Ventilation grilles. Forced ventilations. Resistance heaters. Thermostats. Calculations with ClimaSys software. Refer to our Thermal Control section.
---------------------------------------	--

Logistics and handling

How do you handle the enclosures?	Thanks to eyebolts and lifting brackets.
-----------------------------------	---

Selection tools



> www.schneider-electric.com

Our international site allows you to access all the Schneider Electric products in just two clicks with direct links to:

- A complete library of technical documents, catalogues, FAQs brochures, etc.
- Certificates.
- 2D & 3D drawings.
- Selection Guides from the e-catalogue.
- Product discovery sites.

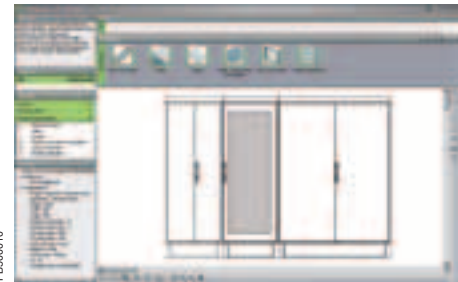


You may also find illustrated overviews, news to which you can subscribe, a list of country contacts and more useful information.

Our software suite

> [Spacial.pro](#)

Spacial.pro allows you to make switchboard proposals based on the standard offer. A full project with several sets of switchboards is quoted in minutes, with automatic creation of the Bill of Material and 2D drawings for front/side views.



PBE500010

> [ProClima](#)

Calculate the right choice for your thermal management requirements, according to the environment and the electrical/electronic devices installed inside the enclosure.



PBE500011

> [Spacial.ref](#) [Thalassa.ref](#)

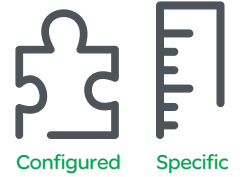
These digital rules allow you to select the best components from the current extensive product range without the risk of any mistakes, since product and accessory selection take place automatically, saving you time and money.



PBE500012

The customised offer

Two customised services to cover all your needs:



Building the right enclosures for a wide variety of applications is what we do best.

At **Schneider Electric – Universal Enclosures** we have developed two customised services based on more than 50 years of experience in the market: a Configured offer (standard modified), and a Specific solution (custom-built enclosures) for a diverse range of industries.



Time saving

We perform machining, mounting of accessories and painting.



Improved quality

We manufacture customised solutions with our industrial tools. Example: cut-outs made before painting, gasket applied after painting.

PBE000518

The configured offer

If needed, our standard products can also be assembled to order and adapted to your requests, ensuring that you don't have to sacrifice lead-time for a customised solution that's ready to use right out of the box.



The standard offer enhanced with two levels of service:

Mounted "assembled to order" offer:

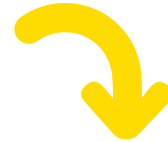
- > Configurations with the most common claddings and accessories in RAL 7035.



PB500038

For a quick quote

Choose the enclosures and accessories from the catalogue, consult our planning sheet or contact your local representative.



Quick proposal from us



PB500039

Painting and machining

Machining operations are performed before painting to protect against corrosion. Gaskets are applied after painting to keep the standard IP level.



DB300002

Manufacturing

Save time by making your cut-outs and assemblies based on our DXF diagrams, downloaded from our webpage.



Adapted service:

- > Cut-outs (from a list).
- > Painting (from our stock colour list).
- > Assemblies (for Spacial SF suitable enclosures).
- > Standard dimensions.
- > Standard claddings (from a list).
- > Mounted standard accessories (from a list).

The specific offer

If you decide that a more customised product is right for you, you can choose to modify any of our standard products or start from scratch with a newly designed, comprehensive solution.



Specific

A co-development service

We create the enclosure in response to your application based on our industrial expertise.

When standard enclosures don't meet your needs...

... a dedicated organisation will work with you to deliver an enclosure solution that meets your exact specifications.



Specific offer

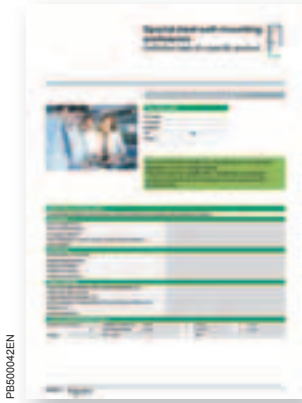
The co-development solution tailor-made for you:

Agreed delivery time



- > Cut-outs according to your specific requests
- > Painting
- > Assemblies

- > Special dimensions
- > Special claddings
- > Mounted standard and special accessories



PB500042EN



PB500043

Save time

Use our definition help sheets to streamline your design process and help you choose the best enclosure for your application.

To receive a quote

Contact your representative and explain your needs. A professional team is at your service to develop your specific solution.



PB500044



PB500045



Manufacturing

DXF diagram will be sent for your approval.

For studies

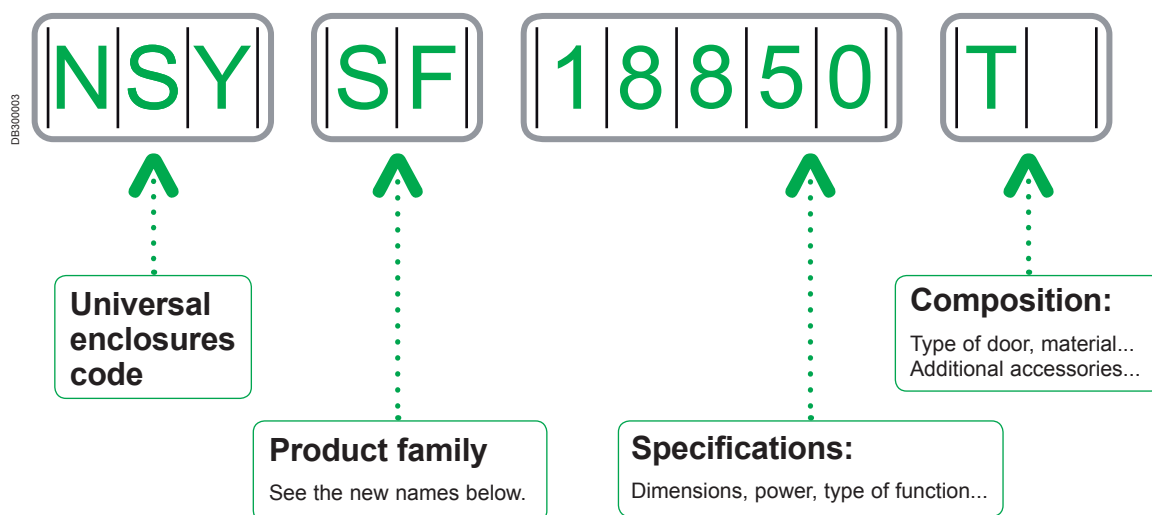
A dedicated technical office will help you define your product.



Our objective:

Quality and cost by sharing our expertise to help you determine which enclosure would best fit your needs

Understand our references



New product family names:

> ClimaSys:

- ClimaSys CV Ventilation system
- ClimaSys CA Natural Airing
- ClimaSys CU Cooling Units
- ClimaSys CE Exchangers
- ClimaSys CR Resistance Heaters
- ClimaSys CC Thermal Control

> Thalassa insulating enclosures:

- Thalassa TBP Industrial boxes PC (UL)
- Thalassa TBS Industrial boxes in ABS
- Thalassa PLS Insulating modular boxes
- Thalassa PLM Wall-mounting in polyester
- Thalassa PLA Floor-standing in polyester
- Thalassa PLD Floor-standing DIN in polyester

> Spacial metal enclosures:

- Spacial S44 - S57 - S24 - SDB Steel industrial boxes
- Spacial S3D Steel Wall-mounting
- Spacial SF Steel floor-standing suitable
- Spacial SM Steel floor-standing compact
- Spacial SD Steel Control desk
- Spacial S3X Stainless-steel wall-mounting
- Spacial SMX Stainless-steel floor-standing monobloc
- Spacial SFX Stainless-steel floor-standing suitable
- Spacial SDX Stainless-steel control desk

Schneider Electric: brings you a brighter future

The colour RAL 7035 is now standard
across our range of industrial enclosures.



Why change?

This colour change is in direct response to customer requests and market trends.

What products will be affected?

All our **Spacial** range of metal industrial products:

- Boxes.
- Wall-mounting enclosures.
- Floor-standing enclosures.
- Climasys thermal products.
- Many accessories associated with these products will also be available in RAL 7035.

How can I obtain RAL 7032 enclosures?

Through our customisation service: the configured and specific offers allow you to quickly obtain RAL 7032 enclosures with industrial quality.

Will the new RAL 7035 colour offer the same properties as RAL 7032?

Yes, our paint will continue to meet all recognised standards.

Spacial Steel

Boxes

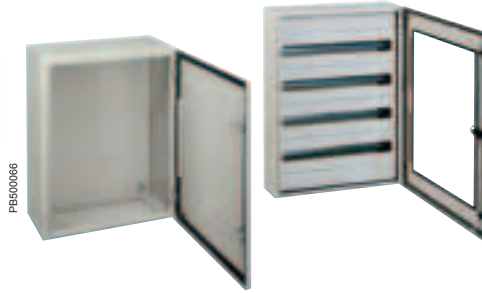
From 74 x 74 mm
To 720 x 540 mm



- SDB Derivation boxes
- S44 Industrial boxes IP 66
- S57 Screw fixed cover boxes IP 66
- S24 Safety boxes IP 55

Wall-mounting enclosures

From 300 x 200 mm
To 1200 x 1000 mm



S3D Wall-mounting steel

- S3DB Terminal enclosures
- S3DBFL Terminal enclosures with FL21 cut-out
- S3DM Distribution modular enclosures
- VDM 19" enclosures
- S3DEX Potentially explosive atmospheres
- S3HF Electromagnetic compatibility

Floor-standing enclosures

From 500 x 500 mm
To 2200 x 1600 mm

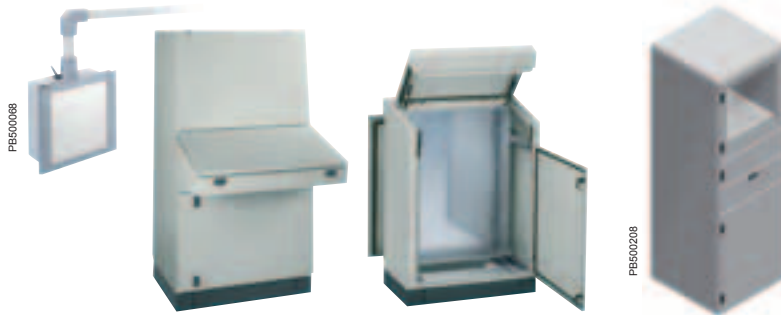


SM Floor-standing compact

SF Floor-standing suitable

- Compartmentalised application
- Electronic application
- Prisma Plus application
- Automobile application

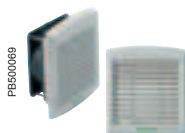
Human-Machine Interface enclosures



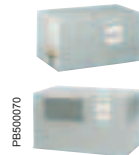
- S3CM Control enclosures with suspension system
- SD Compact control desks
- SDF Control desks with console
- SF PC rack

ClimaSys

Thermal management



CV-CA
Ventilation/Airing



CE Exchangers

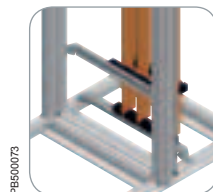


CU Cooling
Units

Accessories



Mounting



Power
distribution



Cable
management

Customised offer available, please contact us.

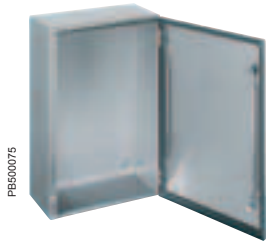
Spacial Stainless-steel

Thalassa Insulating materials

- PLS** Insulating modular boxes
- TBP** Polycarbonate industrial boxes
- TBS** ABS industrial boxes



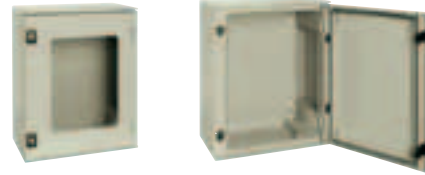
PB500074



PB500075

S3X Wall-mounting
S3XEX Potentially explosive atmospheres

PLM Wall-mounting polyester
PLMEX Potentially explosive atmospheres



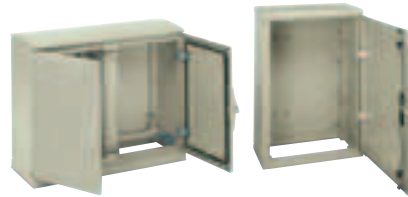
PB500076



PB500077

SMX Floor-standing monobloc
SFX Floor-standing suitable

PLA Floor-standing polyester enclosures
PLD Floor-standing DIN polyester enclosures



PB500078



PB500079

PB501223

SDX Control desk
SMX PC rack



PB500080

CR Resistance Heaters



PB500081

CC Thermal Control



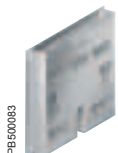
PB500011

ProClima 5.0
 Thermal software



PB507706

Lighting & sockets



PB500083

Door accessories



PB500084

Earthing

Customised offer available, please contact us.



Standard offer	20
Selection guide	20
Steel	
Steel industrial boxes	39
Steel wall-mounting enclosures	57
Steel floor-standing enclosures	105
<hr/>	
Stainless-steel	
Stainless-steel wall-mounting enclosures	197
Stainless-steel floor-standing enclosures	213
<hr/>	
Insulating materials	
Insulating boxes	231
Insulating wall-mounting enclosures	269
Insulating floor-standing enclosures	291
<hr/>	
Accessories	335
<hr/>	
Applicative offer	499
<hr/>	
Thermal management system	671
<hr/>	
Annexes and spare parts	791
<hr/>	
Index of references	819

Metallic junction boxes SDB IP 55 (IEC 60529)

	External dimensions (mm)			Models without knock-outs	Models with knock-outs, n° of drill holes, knock-outs and group			Dimensions (mm)			Plain mounting plate	Weight (kg)
	Height (A)	Width (B)	Depth (C)	Reference	Reference	Height (A)	Width (B)	D	E	F		
Low cover models	85	85	49	NSYDBN88	NSYDB88M	1 n° 1	1 n° 1	58	58	-	-	0.18
	105	105	49	NSYDBN1010	NSYDB1010M	2 n° 1	1 n° 1	76	76	-	-	0.25
	155	105	61	NSYDBN1510	NSYDB1510M	3 n° 1	1 n° 2	124	74	56	NSYPMD1510	0.38
	206	156	83	NSYDBN2015	NSYDB2015M	3 n° 3	2 n° 3	172	122	78	NSYPMD2015	1
	256	206	93	NSYDBN2520	NSYDB2520M	3 n° 4	2 n° 4	220	170	88	NSYPMD2520	1.5
	307	257	116	NSYDBN3025	NSYDB3025M	2 n° 3, 2 n° 4	3 n° 4	268	218	110	NSYPMD3025	3.3
High cover models	357	307	136	NSYDBN3530	NSYDB3530M	2 n° 3, 3 n° 4	2 n° 3, 2 n° 4	318	268	130	NSYPMD3530	4.8
	155	105	88	NSYDAN1510	NSYDA1510M	3 n° 2	1 n° 2	124	74	83	NSYPMD1510	0.45
	206	156	122	NSYDAN2015	NSYDA2015M	3 n° 3	2 n° 3	172	122	121	NSYPMD2015	1.2
	256	206	140	NSYDAN2520	NSYDA2520M	3 n° 4	2 n° 4	220	170	131	NSYPMD2520	1.9

Small metallic enclosures SDB IP 55 (IEC 60529)

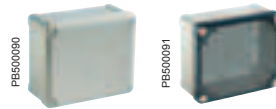
	External dimensions (mm)			Models without knock-outs	Dimensions (mm)				Plain mounting plate	Weight (kg)
	Height (A)	Width (B)	Depth (C)	Reference	D	E	F	G		
Low cover models	206	156	83	NSYDBN2015D	172	122	78	55	NSYPMD2015	1
	256	206	93	NSYDBN2520D	220	170	88	55	NSYPMD2520	1.5
	307	257	116	NSYDBN3025D	268	218	110	55	NSYPMD3025	3.3
	357	307	136	NSYDBN3530D	318	268	130	55	NSYPMD3530	4.8
High cover models	206	156	122	NSYDAN2015D	172	122	121	45	NSYPMD2015	1.2
	256	206	140	NSYDAN2520D	220	170	131	45	NSYPMD2520	1.9
	307	257	174	NSYDAN3025D	268	218	168	45	NSYPMD3025	4
	357	307	210	NSYDAN3530D	318	268	204	45	NSYPMD3530	5.8



External dimensions (mm)			S24 range Opaque door + screws	Steel industrial box references S44			S57 range IK 10
Height	Width	Depth		IK 08			
				Empty	Plate	Uprights (1)	
80	80	45	-	NSYSBS884	-	-	-
100	100	55	-	NSYSBS10105	-	-	-
130	130	60	-	NSYSBS13136	-	-	-
160	160	65	-	NSYSBS16166	-	-	-
165	120	65	-	NSYSBS16126	NSYSBS16126S	-	-
180	130	96	NSYSBS18139F	-	-	-	-
180	165	96	NSYSBS18169F	-	-	-	-
200	200	90	-	NSYSBS20209	NSYSBS20209S	-	-
230	210	126	NSYSBS232112F	-	-	-	-
250	250	100	-	NSYSBS252510	NSYSBS252510S	-	-
300	200	110	-	-	-	NSYSBS302011R	-
300	200	150	-	-	-	-	NSYSBS302015
300	300	100	-	NSYSBS303010	NSYSBS303010S	-	-
300	300	150	-	-	-	-	NSYSBS303015
400	200	110	-	-	-	NSYSBS402011R	-
400	300	150	-	-	-	-	NSYSBS403015
400	400	110	-	NSYSBS404011	NSYSBS404011S	-	-
500	200	110	-	-	-	NSYSBS502011R	-
500	300	110	-	-	-	NSYSBS503011R	-
500	300	200	-	-	-	-	NSYSBS503020
600	200	110	-	-	-	NSYSBS602011R	-
600	300	110	-	-	-	NSYSBS603011R	-

(1) Uprights along small sides (Width)

Universal boxes with IP 66



Page 238

Overall external dimensions (mm)			Overall internal dimensions (mm)			Body (mm)	Cover (mm)	Material			
Height	Width	Depth	Height	Width	Depth			ABS IP 66 IK 07		PC-UL IP 66 IK 08	
								Opaque cover	Transparent cover	Opaque cover	Transparent cover
74	74	54	65	65	47	37	10	NSYTBS775	-	NSYTBP775	-
89	89	54	80	80	47	37	10	NSYTBS885	-	NSYTBP885	-
116	74	62	105	65	55	45	10	NSYTBS1176	-	NSYTBP1176	-
116	74	94	105	65	85	45	40	NSYTBS1179H	-	-	-
116	116	62	105	105	55	45	10	NSYTBS11116	-	NSYTBP11116	-
116	116	133	105	105	125	45	80	NSYTBS111133H	-	-	-
138	93	72	125	80	65	45	20	NSYTBS1397	NSYTBS1397T	NSYTBP1397	NSYTBP1397T
164	121	87	150	105	80	60	20	NSYTBS16128	NSYTBS16128T	NSYTBP16128	NSYTBP16128T
192	121	87	175	105	80	60	20	NSYTBS19128	NSYTBS19128T	NSYTBP19128	NSYTBP19128T
192	121	105	175	105	100	60	40	NSYTBS191210H	NSYTBS191210HT	NSYTBP191210H	NSYTBP191210HT
192	164	87	175	150	80	60	20	NSYTBS19168	NSYTBS19168T	NSYTBP19168	NSYTBP19168T
192	164	105	175	150	100	60	40	NSYTBS191610H	NSYTBS191610HT	NSYTBP191610H	NSYTBP191610HT
241	194	87	225	175	80	60	20	NSYTBS24198	NSYTBS24198T	NSYTBP24198	NSYTBP24198T
241	194	107	225	175	100	80	20	NSYTBS241910	NSYTBS241910T	NSYTBP241910	NSYTBP241910T
241	194	107	225	175	100	60	40	NSYTBS241910H	NSYTBS241910HT	NSYTBP241910H	NSYTBP241910HT
241	194	127	225	175	120	80	40	NSYTBS241912H	NSYTBS241912HT	NSYTBP241912H	NSYTBP241912HT
291	241	88	275	225	80	60	20	NSYTBS29248	NSYTBS29248T	NSYTBP29248	NSYTBP29248T
291	241	128	275	225	120	100	20	NSYTBS292412	NSYTBS292412T	NSYTBP292412	NSYTBP292412T
291	241	128	275	225	120	60	60	NSYTBS292412H	NSYTBS292412HT	NSYTBP292412H	NSYTBP292412HT
291	241	168	275	225	160	100	60	NSYTBS292416H	NSYTBS292416HT	NSYTBP292416H	NSYTBP292416HT
341	291	128	325	275	120	100	20	NSYTBS342912	NSYTBS342912T	NSYTBP342912	NSYTBP342912T
341	291	168	325	275	160	100	60	NSYTBS342916H	NSYTBS342916HT	NSYTBP342916H	NSYTBP342916HT

Modular boxes



Dimensions (mm)			Complete box			Complete boxes in batches	
Height	Width	Depth	Transparent cover	Opaque cover	Polyester cover	Transparent cover	Amount per batch
180	270	180	NSYPLS1827	NSYPLSC1827	NSYPLSP1827	NSYPLS1827L	56
270	270	180	NSYPLS2727	NSYPLSC2727	NSYPLSP2727	NSYPLS2727L	56
270	270	230	NSYPLS2727A	NSYPLSC2727A	-	NSYPLS2727AL	56
270	360	180	NSYPLS2736	NSYPLSC2736	NSYPLSP2736	NSYPLS2736L	56
270	360	230	NSYPLS2736A	NSYPLSC2736A	-	NSYPLS2736AL	56
270	540	180	NSYPLS2754	NSYPLSC2754	NSYPLSP2754	NSYPLS2754L	28
270	540	230	NSYPLS2754A	NSYPLSC2754A	-	NSYPLS2754AL	28
360	360	180	NSYPLS3636	NSYPLSC3636	NSYPLSP3636	NSYPLS3636L	28
360	540	180	NSYPLS3654	NSYPLSC3654	NSYPLSP3654	NSYPLS3654L	28
360	540	230	NSYPLS3654A	NSYPLSC3654A	-	NSYPLS3654AL	28
360	720	230	NSYPLS3672A	NSYPLSC3672A	-	NSYPLS3672AL	27
540	540	180	NSYPLS5454	NSYPLSC5454	NSYPLSP5454	NSYPLS5454L	14
540	540	230	NSYPLS5454A	NSYPLSC5454A	-	NSYPLS5454AL	14
540	720	230	NSYPLS5472A	NSYPLSC5472A	-	NSYPLS5472AL	14



Specifications						Spacial S3D		
Dimensions (1)			N° of doors	IP	Weight (kg)*	Plain door		Glazed door
						With mounting plate	Without mounting plate	Without mounting plate
H	W	D				Page 72		
300	200	150	1	66	3.02	NSYS3D3215P	NSYS3D3215	-
300	250	150	1	66	3.48	NSYS3D32515P	NSYS3D32515	NSYS3D32515T
300	300	150	1	66	3.90	NSYS3D3315P	NSYS3D3315	NSYS3D3315T
300	300	200	1	66	4.50	NSYS3D3320P	NSYS3D3320	NSYS3D3320T
300	400	150	1	66	4.82	NSYS3D3415P	NSYS3D3415	NSYS3D3415T
300	400	200	1	66	5.60	NSYS3D3420P	NSYS3D3420	NSYS3D3420T
400	300	150	1	66	4.90	NSYS3D4315P	NSYS3D4315	NSYS3D4315T
400	300	200	1	66	5.00	NSYS3D4320P	NSYS3D4320	NSYS3D4320T
400	400	200	1	66	6.50	NSYS3D4420P	NSYS3D4420	NSYS3D4420T
400	600	200	1	66	10.50	NSYS3D4620P	NSYS3D4620	NSYS3D4620T
400	600	250	1	66	12.00	NSYS3D4625P	NSYS3D4625	NSYS3D4625T
500	300	200	1	66	7.50	NSYS3D5320P	NSYS3D5320	NSYS3D5320T
500	400	200	1	66	9.30	NSYS3D5420P	NSYS3D5420	NSYS3D5420T
500	400	250	1	66	10.20	NSYS3D5425P	NSYS3D5425	NSYS3D5425T
500	500	200	1	66	11.18	NSYS3D5520P	NSYS3D5520	NSYS3D5520T
500	500	250	1	66	12.06	NSYS3D5525P	NSYS3D5525	NSYS3D5525T
600	400	200	1	66	11.00	NSYS3D6420P	NSYS3D6420	NSYS3D6420T
600	400	250	1	66	12.00	NSYS3D6425P	NSYS3D6425	NSYS3D6425T
600	500	250	1	66	16.20	NSYS3D6525P	NSYS3D6525	NSYS3D6525T
600	600	200	1	66	14.00	NSYS3D6620P	NSYS3D6620	NSYS3D6620T
600	600	250	1	66	15.00	NSYS3D6625P	NSYS3D6625	NSYS3D6625T
600	600	300	1	66	17.00	NSYS3D6630P	NSYS3D6630	NSYS3D6630T
600	600	400	1	66	19.00	NSYS3D6640P	NSYS3D6640	NSYS3D6640T
600	800	300	1	66	25.50	NSYS3D6830P	NSYS3D6830	NSYS3D6830T
700	500	250	1	66	15.00	NSYS3D7525P	NSYS3D7525	NSYS3D7525T
800	600	200	1	66	21.00	NSYS3D8620P	NSYS3D8620	NSYS3D8620T
800	600	250	1	66	23.00	NSYS3D8625P	NSYS3D8625	NSYS3D8625T
800	600	300	1	66	25.00	NSYS3D8630P	NSYS3D8630	NSYS3D8630T
800	600	400	1	66	29.00	NSYS3D8640P	NSYS3D8640	NSYS3D8640T
800	800	250	1	66	30.00	NSYS3D8825P	NSYS3D8825	NSYS3D8825T
800	800	300	1	66	32.00	NSYS3D8830P	NSYS3D8830	NSYS3D8830T
800	1000	300	1	66	38.00	NSYS3D81030P	NSYS3D81030	-
800	1000	300	2	55	43.50	NSYS3D81030DP	NSYS3D81030D	-
800	1200	300	2	55	46.00	NSYS3D81230DP	NSYS3D81230D	-
1000	600	250	1	66	28.00	NSYS3D10625P	NSYS3D10625	NSYS3D10625T
1000	600	300	1	66	30.60	NSYS3D10630P	NSYS3D10630	NSYS3D10630T
1000	600	400	1	66	33.00	NSYS3D10640P	NSYS3D10640	NSYS3D10640T
1000	800	250	1	66	35.00	NSYS3D10825P	NSYS3D10825	NSYS3D10825T
1000	800	300	1	66	38.00	NSYS3D10830P	NSYS3D10830	NSYS3D10830T
1000	800	400	1	66	42.00	NSYS3D10840P	NSYS3D10840	NSYS3D10840T
1000	1000	300	1	66	46.00	NSYS3D101030P	NSYS3D101030	NSYS3D101030T
1000	1000	300	2	55	46.00	NSYS3D101030DP	NSYS3D101030D	NSYCRNG101030DT
1000	1200	300	2	55	53.00	NSYS3D101230DP	NSYS3D101230D	-
1000	1200	400	2	55	60.00	NSYS3D101240DP	NSYS3D101240D	-
1200	600	300	1	66	37.00	NSYS3D12630P	NSYS3D12630	NSYS3D12630T
1200	600	400	1	66	42.00	NSYS3D12640P	NSYS3D12640	NSYS3D12640T
1200	800	300	1	66	45.00	NSYS3D12830P	NSYS3D12830	NSYS3D12830T
1200	800	400	1	66	49.00	NSYS3D12840P	NSYS3D12840	NSYS3D12840T
1200	1000	300	1	66	53.00	NSYS3D121030P	NSYS3D121030	NSYS3D121030T
1200	1000	300	2	55	54.00	NSYS3D121030DP	NSYS3D121030D	NSYS3D121030DT
1200	1000	400	2	55	61.00	NSYS3D121040DP	NSYS3D121040D	-
1200	1200	300	2	55	64.00	NSYS3D121230DP	NSYS3D121230D	-
1200	1200	400	2	55	90.00	NSYS3D121240DP	NSYS3D121240D	-
1400	1000	300	2	55	80.00	NSYS3D141030DP	NSYS3D141030D	-

(1) For other dimensions, see our application offer.

*Enclosure without mounting plate.

Wall-fixing lugs
 Steel: NSYAEFPFSC
 Stainless steel: NSYAEFPFXSC
 Page 80

Reinforcement for heavy loads
 NSYAEFAHLBSC
 Page 80

Locking accessories
 Page 90



Mounting plate							
Plain mounting plate	Silkscreened mounting plate (2)	Micro-perforated mounting plate	Telequick mounting plate	Bakelite mounting plate	DIN rail chassis	Type	Aluminium vertical rails (3)
Page 338		Page 339	Page 340	Page 342	Page 343		Page 345
NSYMM32	-	NSYMF32	NSYMR32	NSYMB32	-	-	NSYMDVR3
NSYMM3025	-	-	NSYMR3025	NSYMB3025	-	-	NSYMDVR3
NSYMM33	-	NSYMF33	NSYMR33	NSYMB33	NSYMD33	B	NSYMDVR3
NSYMM33	-	NSYMF33	NSYMR33	NSYMB33	NSYMD33	B	NSYMDVR3
NSYMM43	NSYMS43	NSYMF43	NSYMR34	NSYMB43	-	-	NSYMDVR3
NSYMM43	NSYMS43	NSYMF43	NSYMR34	NSYMB43	-	-	NSYMDVR3
NSYMM43	NSYMS43	NSYMF43	NSYMR43	NSYMB43	NSYMD43	B	NSYMDVR4
NSYMM43	NSYMS43	NSYMF43	NSYMR43	NSYMB43	NSYMD43	B	NSYMDVR4
NSYMM44	NSYMS44	NSYMF44	NSYMR44	-	-	-	NSYMDVR4
NSYMM64	NSYMS64	NSYMF64	NSYMR46	NSYMB64	-	-	NSYMDVR4
NSYMM64	NSYMS64	NSYMF64	NSYMR46	NSYMB64	-	-	NSYMDVR4
NSYMM53	NSYMS53	NSYMF53	NSYMR53	-	-	-	NSYMDVR5
NSYMM54	NSYMS54	NSYMF54	NSYMR54	NSYMB54	NSYMD54	B	NSYMDVR5
NSYMM54	NSYMS54	NSYMF54	NSYMR54	NSYMB54	NSYMD54	B	NSYMDVR5
NSYMM55	NSYMS55	NSYMF55	NSYMR55	-	-	-	NSYMDVR5
NSYMM55	NSYMS55	NSYMF55	NSYMR55	-	-	-	NSYMDVR5
NSYMM64	NSYMS64	NSYMF64	NSYMR64	NSYMB64	NSYMD64	B	NSYMDVR6
NSYMM64	NSYMS64	NSYMF64	NSYMR64	NSYMB64	NSYMD64	B	NSYMDVR6
NSYMM65	-	NSYMF65	NSYMR65	NSYMB65	-	-	NSYMDVR6
NSYMM66	NSYMS66	NSYMF66	NSYMR66	-	NSYMD66	A	NSYMDVR6
NSYMM66	NSYMS66	NSYMF66	NSYMR66	-	NSYMD66	A	NSYMDVR6
NSYMM66	NSYMS66	NSYMF66	NSYMR66	-	NSYMD66	A	NSYMDVR6
NSYMM66	NSYMS66	NSYMF66	NSYMR66	-	NSYMD66	A	NSYMDVR6
NSYMM86	NSYMS86	NSYMF86	NSYMR68	NSYMB86	NSYMD86	A	NSYMDVR6
NSYMM75	NSYMS75	NSYMF75	NSYMR75	NSYMB75	NSYMD75	B	NSYMDVR7
NSYMM86	NSYMS86	NSYMF86	NSYMR86	NSYMB86	NSYMD86	A	NSYMDVR8
NSYMM86	NSYMS86	NSYMF86	NSYMR86	NSYMB86	NSYMD86	A	NSYMDVR8
NSYMM86	NSYMS86	NSYMF86	NSYMR86	NSYMB86	NSYMD86	A	NSYMDVR8
NSYMM86	NSYMS86	NSYMF86	NSYMR86	NSYMB86	NSYMD86	A	NSYMDVR8
NSYMM88	-	NSYMF88	NSYMR88	-	-	-	NSYMDVR8
NSYMM88	-	NSYMF88	NSYMR88	-	-	-	NSYMDVR8
NSYMM108	-	NSYMF108	NSYMR810	NSYMB108	-	-	NSYMDVR8
NSYMM108	-	NSYMF108	NSYMR810	NSYMB108	-	-	NSYMDVR8
NSYMM128	-	NSYMF128	2 x NSYMR86+	2 x NSYMB86+	2 x NSYMD86+	A	NSYMDVR8
NSYMM106	-	NSYMF106	NSYMR106	NSYMB106	-	-	NSYMDVR10
NSYMM106	-	NSYMF106	NSYMR106	NSYMB106	-	-	NSYMDVR10
NSYMM106	-	NSYMF106	NSYMR106	NSYMB106	-	-	NSYMDVR10
NSYMM108	-	NSYMF108	NSYMR108	NSYMB108	NSYMD108	A	NSYMDVR10
NSYMM108	-	NSYMF108	NSYMR108	NSYMB108	NSYMD108	A	NSYMDVR10
NSYMM108	-	NSYMF108	NSYMR108	NSYMB108	NSYMD108	A	NSYMDVR10
NSYMM1010	-	NSYMF1010	NSYMR1010 (4)	-	-	-	NSYMDVR10
NSYMM1010	-	NSYMF1010	NSYMR1010 (4)	-	-	-	NSYMDVR10
NSYMM1210	-	NSYMF1210	NSYMR1012 (4)	NSYMB1210	-	-	NSYMDVR10
NSYMM1210	-	NSYMF1210	NSYMR1012 (4)	NSYMB1210	-	-	NSYMDVR10
NSYMM126	-	NSYMF126	-	-	-	-	NSYMDVR12
NSYMM126	-	NSYMF126	-	-	-	-	NSYMDVR12
NSYMM128	-	NSYMF128	NSYMR128	-	NSYMD128	A	NSYMDVR12
NSYMM128	-	NSYMF128	NSYMR128	-	NSYMD128	A	NSYMDVR12
NSYMM1210	-	NSYMF1210	NSYMR1210 (4)	NSYMB1210	-	-	NSYMDVR12
NSYMM1210	-	NSYMF1210	NSYMR1210 (4)	NSYMB1210	-	-	NSYMDVR12
NSYMM1210	-	NSYMF1210	NSYMR1210 (4)	NSYMB1210	-	-	NSYMDVR12
NSYMM1212	-	2 x NSYMF126+	2 x NSYMR126+	-	-	-	NSYMDVR12
NSYMM1212	-	2 x NSYMF126+	2 x NSYMR126+	-	-	-	NSYMDVR12
NSYMM1410	-	-	NSYMR1410 (4)	-	-	-	-


- (2) In inverted use, the marking is inverted.
- (3) Order nuts ref. **NSYAMCSF**. Steel siderail ref. **NSYMDVR12**.
- (4) When width ≥ 1000 ref. **NSYEMR** is mandatory (see on page 77).

+ Order **NSYCRNGSDR** for double mounting of the mounting plates.



Door accessories

Pages 486 and 482



Clip-on nuts

Page 391

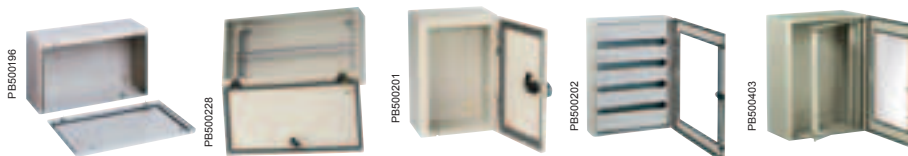


Self-tapping screw

ref. **NSYS13M5HS**

Page 391

Selection guide for applicative offer wall-mounting enclosures



Specifications					Basic enclosures					
Dimensions			N° of doors	IP	Empty application enclosures				VDM steel enclosures with 19" swing rack	
H	W	D			Steel industrial boxes, IP 66 Spacial S57	S3DB terminal enclosures (1)	FL terminal enclosures (1)	S3DM modular enclosures with glazed door (1)		
					Page 53	Page 614	Page 616	Page 594	Page 628	
200	300	150	1	66	NSYSBS302015					
250	300	150	1	66		NSYS3DB25315				
250	400	150	1	66		NSYS3DB25415				
250	500	150	1	66		NSYS3DB25515				
300	300	150	1	66	NSYSBS303015	NSYS3DB3315				
300	300	170	1	66			NSYS3DBFL3317			
300	400	150	1	66	NSYSBS403015	NSYS3DB3415				
300	400	170	1	66			NSYS3DBFL3417			
300	500	150	1	66		NSYS3DB3515				
300	500	200	1	66	NSYSBS503020					
300	600	150	1	66		NSYS3DB3615				
300	600	400	1	66					NSYVDM4U4P	
300	600	500	1	66						
400	300	150	1	66		NSYS3DB4315		NSYS3DM4315T		
400	300	170	1	66			NSYS3DBFL4317			
400	600	400	1	66					NSYVDM7U4P	
400	600	500	1	66						
400	800	150	1	66		NSYS3DB4815				
500	400	150	1	66		NSYS3DB5415		NSYS3DM5415T		
500	600	400	1	66					NSYVDM9U4P	
500	600	500	1	66						
600	400	150	1	66		NSYS3DB6415		NSYS3DM6415T		
600	600	150	1	66				NSYS3DM6615T		
700	500	150	1	66						
700	500	150	1	66				NSYS3DM7515T		
700	600	400	1	66					NSYVDM13U4P	
700	600	500	1	66						
800	600	150	1	66						
800	600	150	1	66				NSYS3DM8615T		
800	600	400	1	66					NSYVDM16U4P	
800	600	500	1	66						
1000	600	150	1	66				NSYS3DM10615T		
1000	800	150	1	66				NSYS3DM10815T		

(1) Empty enclosure.

Wall-fixing brackets

Steel: NSYAEFPFSC
Stainless steel: NSYAEFPFXSC

Reinforcement for heavy loads

NSYAEFAHLBSC

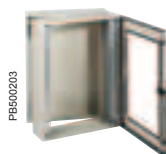
Cable gland

Page 450



Specific

Do you need other dimensions?
Do you require a special colour
or cut-outs? All these enclosures
can be customised. See our
specific offer, page 9.



PB500203



PB500408



PB500404



PB500072



PB500102



PB500105

19" enclosure with glazed door (2)						Accessories					
Number of U	1-body 19" fixed rack	Number of U	2 parts with 19" fixed rack	Number of U	Electricity distribution		Automatism				
					Modular mounting chassis (metallic)	N° of modules	DIN rail support and DIN rail	Plain mounting plate	Telequick mounting plate	Aluminium vertical rails	
	Page 628		Page 628		Page 396				Page 338	Page 340	Page 345
								NSYAMRD2030	NSYMM32		
								NSYAMRD2530	NSYMM3025		
								NSYAMRD2540	NSYMM2540		
								NSYAMRD2550	NSYMM2550		
								NSYAMRD3030	NSYMM33	NSYMR33	NSYMDVR3
								NSYAMRD3030	NSYMM33	NSYMR33	
								NSYAMRD3040	NSYMM43	NSYMR34	NSYMDVR3
								NSYAMRD3040	NSYMM43	NSYMR34	
								NSYAMRD3050	NSYMM53		NSYMDVR3
								NSYAMRD3050	NSYMM53		NSYMDVR3
								NSYAMRD36	NSYMM36		NSYMDVR3
4	NSYVDM5U4F	5	NSYVD2M5U4	5				NSYAMRD36	NSYMM36		NSYMDVR3
			NSYVD2M5U5	5				NSYAMRD36	NSYMM36		NSYMDVR3
						NSYDLM24	24	NSYAMRD43	NSYMM43	NSYMR43	NSYMDVR4
								NSYAMRD43	NSYMM43	NSYMR43	
7	NSYVDM8U4F	8	NSYVD2M8U4	8				NSYAMRD48	NSYMM64	NSYMR46	NSYMDVR4
			NSYVD2M8U5	8				NSYAMRD48	NSYMM64	NSYMR46	NSYMDVR4
								NSYAMRD54	NSYMM48		NSYMDVR4
						NSYDLM48	48		NSYMM54	NSYMR54	NSYMDVR5
9	NSYVDM10U4F	10	NSYVD2M10U4	10					NSYMM65		NSYMDVR5
			NSYVD2M10U5	10					NSYMM65		NSYMDVR5
						NSYDLM48P	48	NSYAMRD64	NSYMM64	NSYMR64	NSYMDVR6
						NSYDLM84P	84		NSYMM66	NSYMR66	NSYMDVR6
						NSYDLM66	66		NSYMM75	NSYMR75	NSYMDVR7
						NSYDLM88	88		NSYMM75	NSYMR75	NSYMDVR7
13	NSYVDM14U4F	14	NSYVD2M14U4	14							NSYMDVR7
			NSYVD2M14U5	14							NSYMDVR7
						NSYDLM84/ NSYDLM112			NSYMM86	NSYMR86	NSYMDVR8
						NSYDLM84/ NSYDLM112			NSYMM86	NSYMR86	NSYMDVR8
16	NSYVDM17U4F	17	NSYVD2M17U4	17					NSYMM86	NSYMR86	NSYMDVR8
			NSYVD2M17U5	17					NSYMM86	NSYMR86	NSYMDVR8
						NSYDLM168/ NSYDLM240			NSYMM106	NSYMR106	NSYMDVR10
						NSYDLM168/ NSYDLM240			NSYMM108	NSYMR108	NSYMDVR10

(2) Plain door, please consult us.

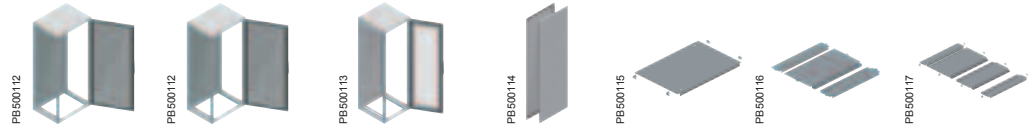
Other cable entries
Page 444

Clip-on nuts
Page 391

Self-tapping screw
ref. NSYS13M5HS
Page 391

Steel floor-standing enclosures

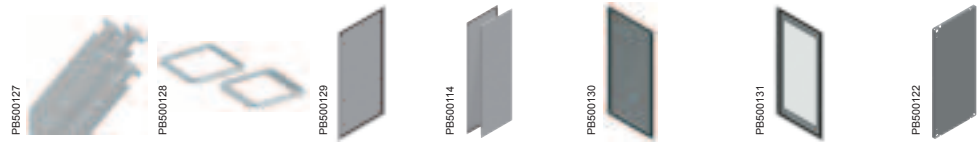
Selection guide



Nominal dimensions (mm)			No. of doors	Spacial SF						
Height	Width	Depth		Plain door		Transparent door	Side panels (fixing from the outside)	Cable-gland plate		
				With mounting plate	Without mounting plate	Without mounting plate		Plain	1 entry	2 entries
1200	600	400	1	NSYSF12640P	NSYSF12640	-	NSY2SP124	NSYEC64	NSYEC641	-
1200	600	600	1	NSYSF12660P	NSYSF12660	-	NSY2SP126	NSYEC66	NSYEC661	NSYEC662
1200	800	300	1	-	-	-	-	-	-	-
1200	800	400	1	NSYSF12840P	NSYSF12840	-	NSY2SP124	NSYEC84	NSYEC841	-
1200	800	600	1	NSYSF12860P	NSYSF12860	-	NSY2SP126	NSYEC86	NSYEC861	NSYEC862
1200	1000	300	2	-	-	-	-	-	-	-
1200	1200	400	2	-	-	-	-	-	-	-
1400	600	300	1	-	-	-	-	-	-	-
1400	600	400	1	NSYSF14640P	NSYSF14640	-	NSY2SP144	NSYEC64	NSYEC641	-
1400	800	300	1	-	-	-	-	-	-	-
1400	800	400	1	NSYSF14840P	NSYSF14840	-	NSY2SP144	NSYEC84	NSYEC841	-
1400	1000	400	2	-	-	-	-	-	-	-
1400	1200	400	2	-	-	-	-	-	-	-
1600	600	300	1	-	-	-	-	-	-	-
1600	600	400	1	-	-	-	-	-	-	-
1600	600	600	1	NSYSF16660P	NSYSF16660	-	NSY2SP166	NSYEC66	NSYEC661	NSYEC662
1600	600	800	1	NSYSF16680P	NSYSF16680	-	NSY2SP168	NSYEC68	NSYEC681	NSYEC682
1600	800	300	1	-	-	-	-	-	-	-
1600	800	400	1	-	-	-	-	-	-	-
1600	800	600	1	NSYSF16860P	NSYSF16860	-	NSY2SP166	NSYEC86	NSYEC861	NSYEC862
1600	800	800	1	NSYSF16880P	NSYSF16880	-	NSY2SP168	NSYEC88	NSYEC881	NSYEC882
1600	1000	300	2	-	-	-	-	-	-	-
1600	1000	400	2	-	-	-	-	-	-	-
1600	1200	300	2	-	-	-	-	-	-	-
1600	1200	400	2	-	-	-	-	-	-	-
1800	400	400	1	-	NSYSF18440	-	NSY2SP184	NSYEC44	NSYEC441	-
1800	400	500	1	-	NSYSF18450	-	NSY2SP185	NSYEC45	NSYEC451	-
1800	400	600	1	-	NSYSF18460	-	NSY2SP186	-	NSYEC461	NSYEC462
1800	600	300	1	-	-	-	-	-	-	-
1800	600	400	1	NSYSF18640P	NSYSF18640	NSYSF18640T	NSY2SP184	NSYEC64	NSYEC641	-
1800	600	500	1	NSYSF18650P	NSYSF18650	NSYSF18650T	NSY2SP185	NSYEC65	NSYEC651	-
1800	600	600	1	NSYSF18660P	NSYSF18660	-	NSY2SP186	NSYEC66	NSYEC661	NSYEC662
1800	600	800	1	-	-	NSYSF18680T	NSY2SP188	NSYEC68	NSYEC681	NSYEC682
1800	800	300	1	-	-	-	-	-	-	-
1800	800	400	1	NSYSF18840P	NSYSF18840	NSYSF18840T	NSY2SP184	NSYEC84	NSYEC841	-
1800	800	500	1	NSYSF18850P	NSYSF18850	NSYSF18850T	NSY2SP185	NSYEC85	NSYEC851	-
1800	800	600	1	NSYSF18860P	NSYSF18860	NSYSF18860T	NSY2SP186	NSYEC86	NSYEC861	NSYEC862
1800	800	600	2	NSYSF188602DP	NSYSF188602D	-	NSY2SP186	NSYEC86	NSYEC861	NSYEC862
1800	1000	400	1	NSYSF181040P	NSYSF181040	-	NSY2SP184	NSYEC104	NSYEC1041	-
1800	1000	400	2	NSYSF1810402DP	NSYSF1810402D	-	NSY2SP184	NSYEC104	NSYEC1041	-
1800	1000	500	1	NSYSF181050P	NSYSF181050	-	NSY2SP185	NSYEC105	NSYEC1051	-
1800	1000	500	2	-	-	-	-	-	-	-
1800	1000	600	1	NSYSF181060P	NSYSF181060	-	NSY2SP186	NSYEC106	NSYEC1061	NSYEC1062
1800	1000	600	2	NSYSF1810602DP	NSYSF1810602D	-	NSY2SP186	NSYEC106	NSYEC1061	NSYEC1062
1800	1200	400	2	NSYSF1812402DP	NSYSF1812402D	-	NSY2SP184	NSYEC124	NSYEC1241	-
1800	1200	500	2	NSYSF1812502DP	NSYSF1812502D	-	NSY2SP185	NSYEC125	NSYEC1251	-
1800	1200	600	2	NSYSF1812602DP	NSYSF1812602D	-	NSY2SP186	NSYEC126	NSYEC1261	NSYEC1262
1800	1600	400	2	-	-	-	-	-	-	-
1800	1600	500	2	-	-	-	-	-	-	-
2000	300	500	1	-	NSYSF20350	-	NSY2SP205	NSYEC35	NSYEC351	-
2000	300	600	1	-	NSYSF20360	-	NSY2SP206	NSYEC36	NSYEC361	-
2000	400	400	1	-	NSYSF20440	-	NSY2SP204	NSYEC44	NSYEC441	-
2000	400	500	1	-	NSYSF20450	-	NSY2SP205	NSYEC45	NSYEC451	-
2000	400	600	1	-	NSYSF20460	-	NSY2SP206	-	NSYEC461	NSYEC462
2000	400	800	1	-	NSYSF20480	-	NSY2SP208	-	NSYEC481	NSYEC482
2000	600	300	1	-	-	-	-	-	-	-
2000	600	400	1	NSYSF20640P	NSYSF20640	NSYSF20640T	NSY2SP204	NSYEC64	NSYEC641	-
2000	600	500	1	NSYSF20650P	NSYSF20650	NSYSF20650T	NSY2SP205	NSYEC65	NSYEC651	-
2000	600	600	1	NSYSF20660P	NSYSF20660	-	NSY2SP206	NSYEC66	NSYEC661	NSYEC662
2000	600	800	1	NSYSF20680P	NSYSF20680	-	NSY2SP208	NSYEC68	NSYEC681	NSYEC682
2000	800	300	1	-	-	-	-	-	-	-
2000	800	400	1	NSYSF20840P	NSYSF20840	NSYSF20840T	NSY2SP204	NSYEC84	NSYEC841	-
2000	800	500	1	NSYSF20850P	NSYSF20850	NSYSF20850T	NSY2SP205	NSYEC85	NSYEC851	-
2000	800	600	1	NSYSF20860P	NSYSF20860	NSYSF20860T	NSY2SP206	NSYEC86	NSYEC861	NSYEC862
2000	800	600	2	NSYSF208602DP	NSYSF208602D	-	NSY2SP206	NSYEC86	NSYEC861	NSYEC862
2000	800	800	1	NSYSF20880P	NSYSF20880	NSYSF20880T	NSY2SP208	NSYEC88	NSYEC881	NSYEC882
2000	1000	400	1	NSYSF201040P	NSYSF201040	NSYSF201040T	NSY2SP204	NSYEC104	NSYEC1041	-
2000	1000	400	2	NSYSF2010402DP	NSYSF2010402D	-	NSY2SP204	NSYEC104	NSYEC1041	-
2000	1000	500	1	NSYSF201050P	NSYSF201050	NSYSF201050T	NSY2SP205	NSYEC105	NSYEC1051	-
2000	1000	500	2	NSYSF2010502DP	NSYSF2010502D	-	NSY2SP205	NSYEC105	NSYEC1051	-
2000	1000	600	1	NSYSF201060P	NSYSF201060	NSYSF201060T	NSY2SP206	NSYEC106	NSYEC1061	NSYEC1062
2000	1000	600	2	NSYSF2010602DP	NSYSF2010602D	-	NSY2SP206	NSYEC106	NSYEC1061	NSYEC1062
2000	1000	800	1	NSYSF201080P	NSYSF201080	-	NSY2SP208	NSYEC108	NSYEC1081	NSYEC1082
2000	1200	400	2	NSYSF2012402DP	NSYSF2012402D	-	NSY2SP204	NSYEC124	NSYEC1241	-
2000	1200	500	2	NSYSF2012502DP	NSYSF2012502D	-	NSY2SP205	NSYEC125	NSYEC1251	-
2000	1200	600	2	NSYSF2012602DP	NSYSF2012602D	-	NSY2SP206	NSYEC126	NSYEC1261	NSYEC1262
2000	1200	800	2	NSYSF2012802DP	NSYSF2012802D	-	NSY2SP208	NSYEC128	NSYEC1281	NSYEC1282
2000	1600	400	2	NSYSF2016402DP	NSYSF2016402D	-	NSY2SP204	NSYEC164	NSYEC1641	-
2000	1600	500	2	NSYSF2016502DP	NSYSF2016502D	-	NSY2SP205	NSYEC165	NSYEC1651	-
2000	1600	600	2	NSYSF2016602DP	NSYSF2016602D	-	NSY2SP206	NSYEC166	NSYEC1661	NSYEC1662
2200	400	600	1	-	NSYSF22460	-	NSY2SP226	-	NSYEC461	NSYEC462
2200	600	600	1	NSYSF22660P	NSYSF22660	-	NSY2SP226	NSYEC66	NSYEC661	NSYEC662
2200	600	800	1	NSYSF22680P	NSYSF22680	-	NSY2SP228	NSYEC68	NSYEC681	NSYEC682
2200	800	600	1	NSYSF22860P	NSYSF22860	-	NSY2SP226	NSYEC86	NSYEC861	NSYEC862
2200	800	800	1	NSYSF22880P	NSYSF22880	NSYSF22880T	NSY2SP228	NSYEC88	NSYEC881	NSYEC882
2200	1000	600	1	NSYSF221060P	NSYSF221060	-	NSY2SP226	NSYEC106	NSYEC1061	NSYEC1062
2200	1200	600	2	NSYSF2212602DP	NSYSF2212602D	-	NSY2SP226	NSYEC126	NSYEC1261	NSYEC1262
2200	1200	800	2	NSYSF2212802DP	NSYSF2212802D	-	NSY2SP228	NSYEC128	NSYEC1281	NSYEC1282

Steel floor-standing enclosures

Selection guide



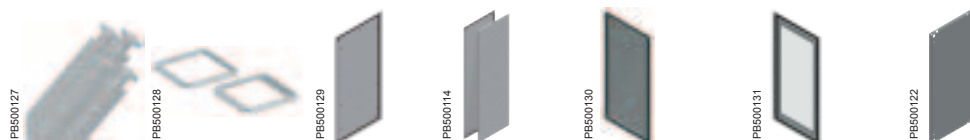
Nominal dimensions (mm)			No. of doors	Vertical uprights	Bottom frame and top frame with roof	Rear panel	Side panels	Plain door (1)	Transparent door (Securit® glass) (1)	Mounting plate
Height (A)	Width (B)	Depth (C)								
Painted with epoxy-polyester resin, textured RAL-7035										
1200	600	400	1	NSYSFV12	NSYSFC64	NSYBP126	NSY2SP124	NSYSFD126	NSYSFD126T	NSYMP126
1200	600	500	1	NSYSFV12	NSYSFC65	NSYBP126	NSY2SP125	NSYSFD126	NSYSFD126T	NSYMP126
1200	600	600	1	NSYSFV12	NSYSFC66	NSYBP126	NSY2SP126	NSYSFD126	NSYSFD126T	NSYMP126
1200	600	800	1	NSYSFV12	NSYSFC68	NSYBP126	NSY2SP128	NSYSFD126	NSYSFD126T	NSYMP126
1200	800	400	1	NSYSFV12	NSYSFC84	NSYBP128	NSY2SP124	NSYSFD128	NSYSFD128T	NSYMP128
1200	800	500	1	NSYSFV12	NSYSFC85	NSYBP128	NSY2SP125	NSYSFD128	NSYSFD128T	NSYMP128
1200	800	600	1	NSYSFV12	NSYSFC86	NSYBP128	NSY2SP126	NSYSFD128	NSYSFD128T	NSYMP128
1200	800	800	1	NSYSFV12	NSYSFC88	NSYBP128	NSY2SP128	NSYSFD128	NSYSFD128T	NSYMP128
1400	600	400	1	NSYSFV14	NSYSFC64	NSYBP146	NSY2SP144	NSYSFD146	NSYSFD146T	NSYMP146
1400	600	500	1	NSYSFV14	NSYSFC65	NSYBP146	NSY2SP145	NSYSFD146	NSYSFD146T	NSYMP146
1400	600	600	1	NSYSFV14	NSYSFC66	NSYBP146	NSY2SP146	NSYSFD146	NSYSFD146T	NSYMP146
1400	600	800	1	NSYSFV14	NSYSFC68	NSYBP146	NSY2SP148	NSYSFD146	NSYSFD146T	NSYMP146
1400	800	400	1	NSYSFV14	NSYSFC84	NSYBP148	NSY2SP144	NSYSFD148	NSYSFD148T	NSYMP148
1400	800	500	1	NSYSFV14	NSYSFC85	NSYBP148	NSY2SP145	NSYSFD148	NSYSFD148T	NSYMP148
1400	800	600	1	NSYSFV14	NSYSFC86	NSYBP148	NSY2SP146	NSYSFD148	NSYSFD148T	NSYMP148
1400	800	800	1	NSYSFV14	NSYSFC88	NSYBP148	NSY2SP148	NSYSFD148	NSYSFD148T	NSYMP148
1600	600	400	1	NSYSFV16	NSYSFC64	NSYBP166	NSY2SP164	NSYSFD166	NSYSFD166T	NSYMP166
1600	600	500	1	NSYSFV16	NSYSFC65	NSYBP166	NSY2SP165	NSYSFD166	NSYSFD166T	NSYMP166
1600	600	600	1	NSYSFV16	NSYSFC66	NSYBP166	NSY2SP166	NSYSFD166	NSYSFD166T	NSYMP166
1600	600	800	1	NSYSFV16	NSYSFC68	NSYBP166	NSY2SP168	NSYSFD166	NSYSFD166T	NSYMP166
1600	800	400	1	NSYSFV16	NSYSFC84	NSYBP168	NSY2SP164	NSYSFD168	NSYSFD168T	NSYMP168
1600	800	500	1	NSYSFV16	NSYSFC85	NSYBP168	NSY2SP165	NSYSFD168	NSYSFD168T	NSYMP168
1600	800	600	1	NSYSFV16	NSYSFC86	NSYBP168	NSY2SP166	NSYSFD168	NSYSFD168T	NSYMP168
1600	800	800	1	NSYSFV16	NSYSFC88	NSYBP168	NSY2SP168	NSYSFD168	NSYSFD168T	NSYMP168
1800	400	400	1	NSYSFV18	NSYSFC44	NSYBP184	NSY2SP184	NSYSFD184	-	-
1800	400	500	1	NSYSFV18	NSYSFC45	NSYBP184	NSY2SP185	NSYSFD184	-	-
1800	400	600	1	NSYSFV18	NSYSFC46	NSYBP184	NSY2SP186	NSYSFD184	-	-
1800	400	800	1	NSYSFV18	NSYSFC48	NSYBP184	NSY2SP188	NSYSFD184	-	-
1800	600	400	1	NSYSFV18	NSYSFC64	NSYBP186	NSY2SP184	NSYSFD186	NSYSFD186T	NSYMP186
1800	600	500	1	NSYSFV18	NSYSFC65	NSYBP186	NSY2SP185	NSYSFD186	NSYSFD186T	NSYMP186
1800	600	600	1	NSYSFV18	NSYSFC66	NSYBP186	NSY2SP186	NSYSFD186	NSYSFD186T	NSYMP186
1800	600	800	1	NSYSFV18	NSYSFC68	NSYBP186	NSY2SP188	NSYSFD186	NSYSFD186T	NSYMP186
1800	800	400	1	NSYSFV18	NSYSFC84	NSYBP188	NSY2SP184	NSYSFD188	NSYSFD188T	NSYMP188
1800	800	500	1	NSYSFV18	NSYSFC85	NSYBP188	NSY2SP185	NSYSFD188	NSYSFD188T	NSYMP188
1800	800	600	1	NSYSFV18	NSYSFC86	NSYBP188	NSY2SP186	NSYSFD188	NSYSFD188T	NSYMP188
1800	800	600	2	NSYSFV18	NSYSFC86	NSYBP188	NSY2SP186	NSYSFD1882D	-	NSYMP188
1800	800	800	1	NSYSFV18	NSYSFC88	NSYBP188	NSY2SP188	NSYSFD188	NSYSFD188T	NSYMP188
1800	800	800	2	NSYSFV18	NSYSFC88	NSYBP188	NSY2SP188	NSYSFD1882D	-	NSYMP188
1800	1000	400	1	NSYSFV18	NSYSFC104	NSYBP1810	NSY2SP184	NSYSFD1810	NSYSFD1810T	NSYMP1810
1800	1000	400	2	NSYSFV18	NSYSFC104	NSYBP1810	NSY2SP184	NSYSFD18102D	-	NSYMP1810
1800	1000	500	1	NSYSFV18	NSYSFC105	NSYBP1810	NSY2SP185	NSYSFD1810	NSYSFD1810T	NSYMP1810
1800	1000	600	1	NSYSFV18	NSYSFC106	NSYBP1810	NSY2SP186	NSYSFD1810	NSYSFD1810T	NSYMP1810
1800	1000	600	2	NSYSFV18	NSYSFC106	NSYBP1810	NSY2SP186	NSYSFD18102D	-	NSYMP1810
1800	1000	800	1	NSYSFV18	NSYSFC108	NSYBP1810	NSY2SP188	NSYSFD1810	NSYSFD1810T	NSYMP1810
1800	1000	800	2	NSYSFV18	NSYSFC108	NSYBP1810	NSY2SP188	NSYSFD18102D	-	NSYMP1810
1800	1200	400	2	NSYSFV18	NSYSFC124	NSYBP1812	NSY2SP184	NSYSFD18122D	NSYSFD18122DT	NSYMP1812
1800	1200	500	2	NSYSFV18	NSYSFC125	NSYBP1812	NSY2SP185	NSYSFD18122D	NSYSFD18122DT	NSYMP1812
1800	1200	600	2	NSYSFV18	NSYSFC126	NSYBP1812	NSY2SP186	NSYSFD18122D	NSYSFD18122DT	NSYMP1812
1800	1200	800	2	NSYSFV18	NSYSFC128	NSYBP1812	NSY2SP188	NSYSFD18122D	NSYSFD18122DT	NSYMP1812

(1) Hinges, locking bar catches and handle with 5-mm double-bar insert included.



More than **600**
possible configurations
with Spacial SF kit!

Steel floor-standing enclosures



Nominal dimensions (mm)			No. of doors	Vertical uprights	Bottom frame and top frame with roof	Rear panel	Side panels	Plain door (1)	Transparent door (Securit® glass) (1)	Mounting plate
Height (A)	Width (B)	Depth (C)								
Painted with epoxy-polyester resin, textured RAL-7035										
2000	300	500	1	NSYSFV20	NSYSFC35	NSYBP203	NSY2SP205	NSYSFD203	-	-
2000	300	600	1	NSYSFV20	NSYSFC36	NSYBP203	NSY2SP206	NSYSFD203	-	-
2000	400	400	1	NSYSFV20	NSYSFC44	NSYBP204	NSY2SP204	NSYSFD204	-	-
2000	400	500	1	NSYSFV20	NSYSFC45	NSYBP204	NSY2SP205	NSYSFD204	-	-
2000	400	600	1	NSYSFV20	NSYSFC46	NSYBP204	NSY2SP206	NSYSFD204	-	-
2000	400	800	1	NSYSFV20	NSYSFC48	NSYBP204	NSY2SP208	NSYSFD204	-	-
2000	600	400	1	NSYSFV20	NSYSFC64	NSYBP206	NSY2SP204	NSYSFD206	NSYSFD206T	NSYMP206
2000	600	500	1	NSYSFV20	NSYSFC65	NSYBP206	NSY2SP205	NSYSFD206	NSYSFD206T	NSYMP206
2000	600	600	1	NSYSFV20	NSYSFC66	NSYBP206	NSY2SP206	NSYSFD206	NSYSFD206T	NSYMP206
2000	600	800	1	NSYSFV20	NSYSFC68	NSYBP206	NSY2SP208	NSYSFD206	NSYSFD206T	NSYMP206
2000	800	400	1	NSYSFV20	NSYSFC84	NSYBP208	NSY2SP204	NSYSFD208	NSYSFD208T	NSYMP208
2000	800	500	1	NSYSFV20	NSYSFC85	NSYBP208	NSY2SP205	NSYSFD208	NSYSFD208T	NSYMP208
2000	800	600	1	NSYSFV20	NSYSFC86	NSYBP208	NSY2SP206	NSYSFD208	NSYSFD208T	NSYMP208
2000	800	600	2	NSYSFV20	NSYSFC86	NSYBP208	NSY2SP206	NSYSFD2082D	-	NSYMP208
2000	800	800	1	NSYSFV20	NSYSFC88	NSYBP208	NSY2SP208	NSYSFD208	NSYSFD208T	NSYMP208
2000	800	800	2	NSYSFV20	NSYSFC88	NSYBP208	NSY2SP208	NSYSFD2082D	-	NSYMP208
2000	1000	400	1	NSYSFV20	NSYSFC104	NSYBP2010	NSY2SP204	NSYSFD2010	NSYSFD2010T	NSYMP2010
2000	1000	400	2	NSYSFV20	NSYSFC104	NSYBP2010	NSY2SP204	NSYSFD20102D	-	NSYMP2010
2000	1000	500	1	NSYSFV20	NSYSFC105	NSYBP2010	NSY2SP205	NSYSFD2010	NSYSFD2010T	NSYMP2010
2000	1000	500	2	NSYSFV20	NSYSFC105	NSYBP2010	NSY2SP205	NSYSFD20102D	-	NSYMP2010
2000	1000	600	1	NSYSFV20	NSYSFC106	NSYBP2010	NSY2SP206	NSYSFD2010	NSYSFD2010T	NSYMP2010
2000	1000	600	2	NSYSFV20	NSYSFC106	NSYBP2010	NSY2SP206	NSYSFD20102D	-	NSYMP2010
2000	1000	800	1	NSYSFV20	NSYSFC108	NSYBP2010	NSY2SP208	NSYSFD2010	NSYSFD2010T	NSYMP2010
2000	1000	800	2	NSYSFV20	NSYSFC108	NSYBP2010	NSY2SP208	NSYSFD20102D	-	NSYMP2010
2000	1200	400	2	NSYSFV20	NSYSFC124	NSYBP2012	NSY2SP204	NSYSFD20122D	NSYSFD20122DT	NSYMP2012
2000	1200	500	2	NSYSFV20	NSYSFC125	NSYBP2012	NSY2SP205	NSYSFD20122D	NSYSFD20122DT	NSYMP2012
2000	1200	600	2	NSYSFV20	NSYSFC126	NSYBP2012	NSY2SP206	NSYSFD20122D	NSYSFD20122DT	NSYMP2012
2000	1200	800	2	NSYSFV20	NSYSFC128	NSYBP2012	NSY2SP208	NSYSFD20122D	NSYSFD20122DT	NSYMP2012
2000	1600	400	2	NSYSFV20	NSYSFC164	NSYBP2016	NSY2SP204	NSYSFD20162D	-	NSYMP2016
2000	1600	500	2	NSYSFV20	NSYSFC165	NSYBP2016	NSY2SP205	NSYSFD20162D	-	NSYMP2016
2000	1600	600	2	NSYSFV20	NSYSFC166	NSYBP2016	NSY2SP206	NSYSFD20162D	-	NSYMP2016
2200	400	400	1	NSYSFV22	NSYSFC44	NSYBP224	NSY2SP224	NSYSFD224	-	-
2200	400	500	1	NSYSFV22	NSYSFC45	NSYBP224	NSY2SP225	NSYSFD224	-	-
2200	400	600	1	NSYSFV22	NSYSFC46	NSYBP224	NSY2SP226	NSYSFD224	-	-
2200	400	800	1	NSYSFV22	NSYSFC48	NSYBP224	NSY2SP228	NSYSFD224	-	-
2200	600	400	1	NSYSFV22	NSYSFC64	NSYBP226	NSY2SP224	NSYSFD226	NSYSFD226T	NSYMP226
2200	600	500	1	NSYSFV22	NSYSFC65	NSYBP226	NSY2SP225	NSYSFD226	NSYSFD226T	NSYMP226
2200	600	600	1	NSYSFV22	NSYSFC66	NSYBP226	NSY2SP226	NSYSFD226	NSYSFD226T	NSYMP226
2200	600	800	1	NSYSFV22	NSYSFC68	NSYBP226	NSY2SP228	NSYSFD226	NSYSFD226T	NSYMP226
2200	800	400	1	NSYSFV22	NSYSFC84	NSYBP228	NSY2SP224	NSYSFD228	NSYSFD228T	NSYMP228
2200	800	500	1	NSYSFV22	NSYSFC85	NSYBP228	NSY2SP225	NSYSFD228	NSYSFD228T	NSYMP228
2200	800	600	1	NSYSFV22	NSYSFC86	NSYBP228	NSY2SP226	NSYSFD228	NSYSFD228T	NSYMP228
2200	800	800	1	NSYSFV22	NSYSFC88	NSYBP228	NSY2SP228	NSYSFD228	NSYSFD228T	NSYMP228
2200	1000	400	1	NSYSFV22	NSYSFC104	NSYBP2210	NSY2SP224	NSYSFD2210	NSYSFD2210T	NSYMP2210
2200	1000	500	1	NSYSFV22	NSYSFC105	NSYBP2210	NSY2SP225	NSYSFD2210	NSYSFD2210T	NSYMP2210
2200	1000	600	1	NSYSFV22	NSYSFC106	NSYBP2210	NSY2SP226	NSYSFD2210	NSYSFD2210T	NSYMP2210
2200	1000	800	1	NSYSFV22	NSYSFC108	NSYBP2210	NSY2SP228	NSYSFD2210	NSYSFD2210T	NSYMP2210
2200	1200	400	2	NSYSFV22	NSYSFC124	NSYBP2212	NSY2SP224	NSYSFD22122D	NSYSFD22122DT	NSYMP2212
2200	1200	500	2	NSYSFV22	NSYSFC125	NSYBP2212	NSY2SP225	NSYSFD22122D	NSYSFD22122DT	NSYMP2212
2200	1200	600	2	NSYSFV22	NSYSFC126	NSYBP2212	NSY2SP226	NSYSFD22122D	NSYSFD22122DT	NSYMP2212
2200	1200	800	2	NSYSFV22	NSYSFC128	NSYBP2212	NSY2SP228	NSYSFD22122D	NSYSFD22122DT	NSYMP2212

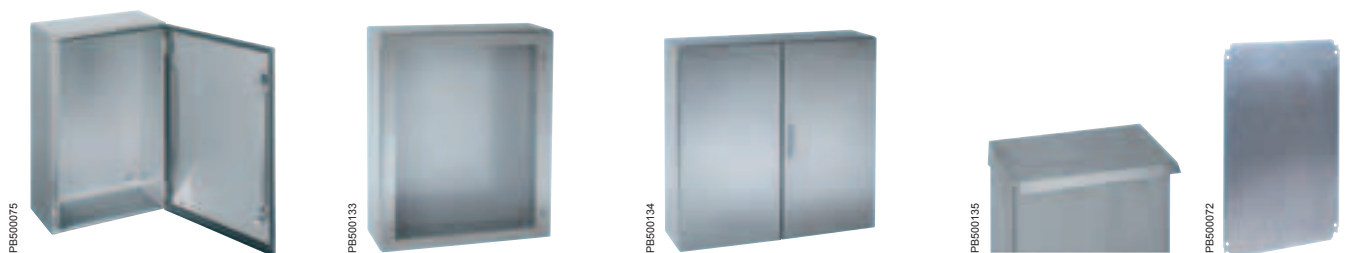
(1) Hinges, locking bar catches and handle with 5-mm double-bar insert included.

Do it yourself, by using the kit version!



Stainless-steel wall-mounting enclosures

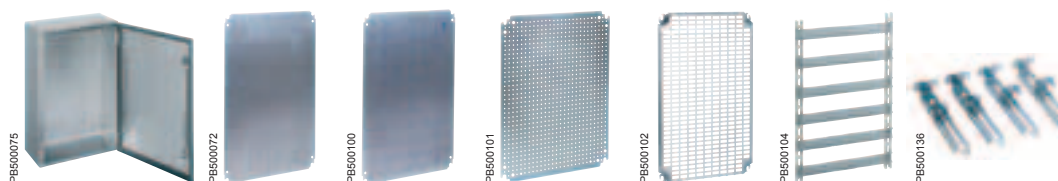
Selection guide



External dimensions (mm)			No. of locks	No. of doors	304L stainless steel		316L stainless steel	304L stainless-steel canopy	Plain mounting plate***
Height	Width	Depth			Plain door	Glazed door**	Plain door		
300	200	150	1	1	NSYS3X3215	-	NSYS3X3215H	NSYTX2015	NSYMM32
300	250	150	1	1	NSYS3X302515	-	NSYS3X302515H	NSYTX2515	NSYMM3025
300	300	150	1	1	NSYS3X3315	-	NSYS3X3315H	NSYTX3015	NSYMM33
400	300	150	1	1	NSYS3X4315	-	NSYS3X4315H	NSYTX3015	NSYMM43
400	300	200	1	1	NSYS3X4320	NSYS3X4320T	NSYS3X4320H	NSYTX3020	NSYMM43
400	400	200	1	1	NSYS3X4420	-	NSYS3X4420H	NSYTX4020	NSYMM44
400	600	200	1	1	NSYS3X4620	-	NSYS3X4620H	NSYTX6020	NSYMM64
500	400	200	2	1	NSYS3X5420	NSYS3X5420T	NSYS3X5420H	NSYTX4020	NSYMM54
600	400	200	2	1	NSYS3X6420	NSYS3X6420T	NSYS3X6420H	NSYTX4020	NSYMM64
600	600	250	2	1	NSYS3X6625	-	NSYS3X6625H	NSYTX6025	NSYMM66
700	500	250	2	1	NSYS3X7525	NSYS3X7525T	NSYS3X7525H	NSYTX5025	NSYMM75
800	600	250	2	1	NSYS3X8625	NSYS3X8625T	NSYS3X8625H	NSYTX6025	NSYMM86
800	800	300	2	1	NSYS3X8830	-	NSYS3X8830H	NSYTX8030	NSYMM88
1000	800	300	2	1	NSYS3X10830	NSYS3X10830T	NSYS3X10830H	NSYTX8030	NSYMM108
1000	1000	300	*	2	NSYS3X101030	-	NSYS3X101030H	NSYTX10030	NSYMM1010
1200	800	300	2	1	NSYS3X12830	-	NSYS3X12830H	NSYTX8030	NSYMM128
1200	1000	300	*	2	NSYS3X121030	-	NSYS3X121030H	NSYTX10030	NSYMM1210

* Three-point closure system.
 ** The glazed door has no reinforcement.
 *** See other mounting plates in common accessoires.

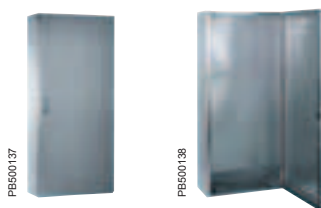
Selection guide for wall-mounting enclosures and main accessories



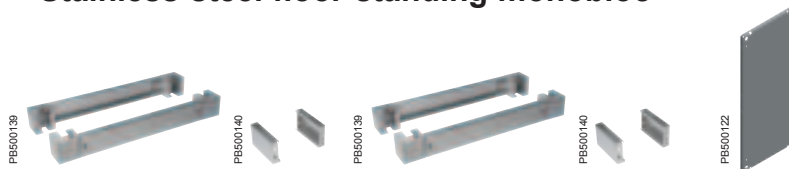
External dimensions (mm)			Enclosure reference	Mounting plate reference				DIN rail chassis	Step slides
Height	Width	Depth		Plain	Silkscreened	Microperforated	Telequick		
300	200	150	NSYS3XEX3215	NSYMM32	-	NSYMF32	NSYMR32	-	-
400	300	200	NSYS3XEX4320	NSYMM43	NSYMS43	NSYMF43	NSYMR43	NSYMD43	NSYSDCR200
500	400	200	NSYS3XEX5420	NSYMM54	NSYMS54	NSYMF54	NSYMR54	NSYMD54	NSYSDCR200
600	400	200	NSYS3XEX6420	NSYMM64	NSYMS64	NSYMF64	NSYMR64	NSYMD64	NSYSDCR200
700	500	250	NSYS3XEX7525	NSYMM75	NSYMS75	NSYMF75	NSYMR75	NSYMD75	NSYSDCR250
800	600	250	NSYS3XEX8625	NSYMM86	NSYMS86	NSYMF86	NSYMR86	NSYMD86	NSYSDCR250
1000	800	300	NSYS3XEX10830	NSYMM108	-	NSYMF108	NSYMR108	NSYMD108	NSYSDCR300

Stainless-steel floor-standing enclosures

Selection guide



Stainless-steel floor-standing monobloc



External dimensions (mm)			Number of front doors	Stainless-steel floor-standing enclosure 304L / 316L*	Brushed 316L stainless-steel plinth height 100 mm**		Brushed 316L stainless-steel plinth height 200 mm**		Plain mounting plate***
Height	Width	Depth			Front + corner	Side	Front + corner	Side	
1400	1000	300	2	NSYSMX141030	NSYSPXF10100H	NSYSPXS3100H	NSYSPXF10200H	2 x NSYSPXS3100H	NSYMP1410
1600	800	400	1	NSYSMX16840	NSYSPXF8100H	NSYSPXS4100H	NSYSPXF8200H	2 x NSYSPXS4100H	NSYMP168
1800	600	400	1	NSYSMX18640	NSYSPXF6100H	NSYSPXS4100H	NSYSPXF6200H	2 x NSYSPXS4100H	NSYMP186
1800	800	400	1	NSYSMX18840*	NSYSPXF8100H	NSYSPXS4100H	NSYSPXF8200H	2 x NSYSPXS4100H	NSYMP188
1800	1200	400	2	NSYSMX181240*	NSYSPXF12100H	NSYSPXS4100H	NSYSPXF12200H	2 x NSYSPXS4100H	NSYMP1812
1800	1600	400	2	NSYSMX181640*	NSYSPXF16100H	NSYSPXS4100H	NSYSPXF16200H	2 x NSYSPXS4100H	NSYMP1816
2000	800	500	1	NSYSMX20850	NSYSPXF8100H	NSYSPXS5100H	NSYSPXF8200H	2 x NSYSPXS5100H	NSYMP208
2000	1000	400	2	NSYSMX201040*	NSYSPXF10100H	NSYSPXS4100H	NSYSPXF10200H	2 x NSYSPXS4100H	NSYMP2010
2000	1200	500	2	NSYSMX201250*	NSYSPXF12100H	NSYSPXS5100H	NSYSPXF12200H	2 x NSYSPXS5100H	NSYMP2012
2000	1600	600	2	NSYSMX201660*	NSYSPXF16100H	NSYSPXS6100H	NSYSPXF16200H	2 x NSYSPXS6100H	NSYMP2016

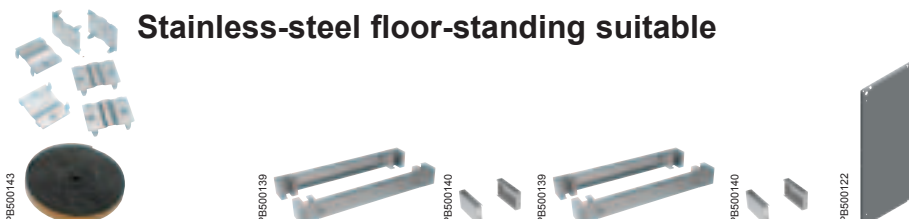
* For version in AISI 316L stainless steel, add the letter H to the end of the reference. Example NSYSMX18840H

** See section on stainless-steel composition accessories.

*** See other mounting plates in common accessoires.



Stainless-steel floor-standing suitable



External dimensions (mm)			Number of front doors	References in 304L stainless steel (1)			Brushed 316L stainless-steel plinth height 100 mm (2)		Brushed 316L stainless-steel plinth height 200 mm (2)		Plain mounting plate (3)
Height (A)	Width (B)	Depth (C)		Suitable enclosure	Set of 2 side panels	Coupling kit	Front + corner	Side	Front + corner	Side	
1800	600	400	1	NSYSFX18640	NSY2SPX184	NSYSFBK19	NSYSPXF6100H	NSYSPXS4100H	NSYSPXF6200H	2 x NSYSPXS4100H	NSYMP186
1800	800	400	1	NSYSFX18840	NSY2SPX184	NSYSFBK19	NSYSPXF8100H	NSYSPXS4100H	NSYSPXF8200H	2 x NSYSPXS4100H	NSYMP188
1800	1200	400	2	NSYSFX181240	NSY2SPX184	NSYSFBK19	NSYSPXF12100H	NSYSPXS4100H	NSYSPXF12200H	2 x NSYSPXS4100H	NSYMP1812
2000	600	500	1	NSYSFX20650	NSY2SPX205	NSYSFBK19	NSYSPXF6100H	NSYSPXS5100H	NSYSPXF6200H	2 x NSYSPXS5100H	NSYMP208
2000	800	400	1	NSYSFX20840	NSY2SPX204	NSYSFBK19	NSYSPXF8100H	NSYSPXS4100H	NSYSPXF8200H	2 x NSYSPXS4100H	NSYMP206
2000	800	600	1	NSYSFX20860	NSY2SPX206	NSYSFBK19	NSYSPXF8100H	NSYSPXS6100H	NSYSPXF8200H	2 x NSYSPXS6100H	NSYMP208
2000	1000	600	2	NSYSFX201060	NSY2SPX206	NSYSFBK19	NSYSPXF10100H	NSYSPXS6100H	NSYSPXF10200H	2 x NSYSPXS6100H	NSYMP2010
2000	1200	600	2	NSYSFX201260	NSY2SPX206	NSYSFBK19	NSYSPXF12100H	NSYSPXS6100H	NSYSPXF12200H	2 x NSYSPXS6100H	NSYMP2012

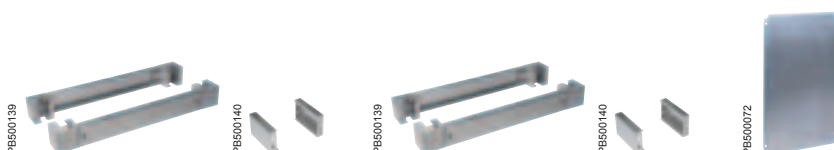
(1) 316L stainless-steel enclosures on request.

(2) See section on stainless-steel composition accessories.

(3) See other mounting plates in common accessoires.



Stainless-steel control desks



Dimensions (mm)			Reference	Number of front doors	316L stainless-steel plinth, height 100 mm (1)		316L stainless-steel plinth, height 200 mm (1)		Plain mounting plate (2)
Height	Width	Depth			Front + corner	Side	Front + corner	Side	
1000	600	500	NSYSDX6	1	NSYSPXF6100H	NSYSPXS5100H	NSYSPXF6200H	2 x NSYSPXS5100H	NSYPMP8560
1000	800	500	NSYSDX8	1	NSYSPXF8100H	NSYSPXS5100H	NSYSPXF8200H	2 x NSYSPXS5100H	NSYPMP8580
1000	1000	500	NSYSDX10	2	NSYSPXF10100H	NSYSPXS5100H	NSYSPXF10200H	2 x NSYSPXS5100H	NSYPMP85100
1000	1200	500	NSYSDX12	2	NSYSPXF12100H	NSYSPXS5100H	NSYSPXF12200H	2 x NSYSPXS5100H	NSYPMP85120

(1) See section on stainless-steel composition accessories.

(2) See other mounting plates in common accessoires.

Polyester wall-mounting enclosures

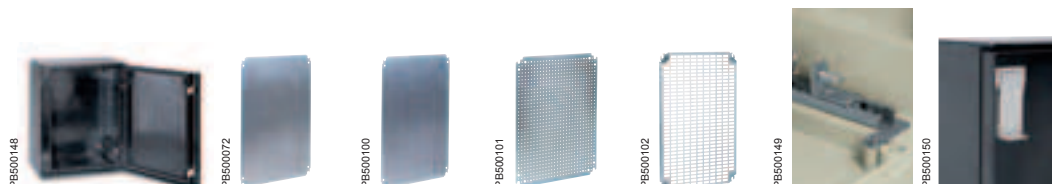
Selection guide

Polyester wall-mounting enclosures IP 66



External dimensions (mm)			ABS/PC wall-mounting enclosures IP 66		Polyester wall-mounting enclosures IP 66			
H	W	D	Plain door	Transp. door	Plain door	Transp. door	Plain door 3-point closure	Transp. door 3-point closure
			Page 272		Page 273 and 274		Page 274	
310	215	160	NSYPLM32	NSYPLM32T	-	-	-	-
308	255	160	-	-	NSYPLM3025	NSYPLM3025T	-	-
430	330	200	-	-	NSYPLM43	NSYPLM43T	NSYPLM43V	NSYPLM43TV
530	430	200	-	-	NSYPLM54	NSYPLM54T	NSYPLM54V	NSYPLM54TV
647	436	250	-	-	NSYPLM64	NSYPLM64T	NSYPLM64V	NSYPLM64TV
747	536	300	-	-	NSYPLM75	NSYPLM75T	NSYPLM75V	NSYPLM75TV
847	636	300	-	-	NSYPLM86	NSYPLM86T	NSYPLM86V	NSYPLM86TV
1056	852	350	-	-	NSYPLM108	NSYPLM108T	-	-

Polyester wall-mounting PLMEX and accessories



External dimensions (mm)			References		Metallic mounting plate references				References	
Height	Width	Depth	ATEX solution	Plain	Silkscreened	Microperforated	Telequick	Step slides	Padlocking	
308	255	160	NSYPLMEX3025	NSYMM3025	-	-	NSYMR3025	-	-	
430	330	200	NSYPLMEX43	NSYMM43	NSYMS43	NSYMF43	NSYMR43	NSYDPLM200	NSYKPLM	
530	430	200	NSYPLMEX54	NSYMM54	NSYMS54	NSYMF54	NSYMR54	NSYDPLM200	NSYKPLM	
647	436	250	NSYPLMEX64	NSYMM64	NSYMS64	NSYMF64	NSYMR64	NSYDPLM250	NSYKPLM	
747	536	300	NSYPLMEX75	NSYMM75	NSYMS75	NSYMF75	NSYMR75	NSYDPLM300	NSYKPLM	
847	636	300	NSYPLMEX86	NSYMM86	NSYMS86	NSYMF86	NSYMR86	NSYDPLM300	NSYKPLM	
1056	852	350	NSYPLMEX108	NSYMM108	-	NSYMF108	NSYMR108	NSYDPLM350	NSYBCPL	

Polyester wall-mounting enclosures

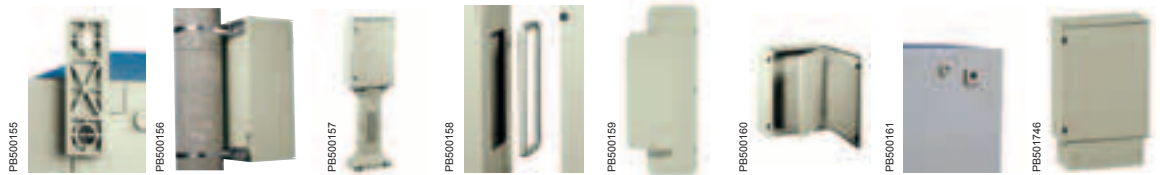
Selection guide

Mounting accessories



External dimensions of the enclosures (mm)			Metallic mounting plates				Insulating mounting plates		Modular distribution chassis	Step slides	Symmetrical DIN rail
H	W	D	Plain	Silkscreened	Microperforated	Telequick	Bakelite	Polyester			
			Page 338		Page 339	Page 340	Page 342		Page 287	Page 285	Page 285
310	215	160	NSYMM32	-	-	NSYMR32	NSYMB32	NSYMPP32	-	-	NSYCS200PLM
308	255	160	NSYMM3025	-	-	NSYMR3025	NSYMB3025	NSYMPP3025	NSYDLPLM18	-	-
430	330	200	NSYMM43	NSYMS43	NSYMF43	NSYMR43	NSYMB43	NSYMPP43	NSYDLA24	NSYDPLM200	NSYCS300PLM
530	430	200	NSYMM54	NSYMS54	NSYMF54	NSYMR54	NSYMB54	NSYMPP54	NSYDLA48	NSYDPLM200	NSYCS400PLM
647	436	250	NSYMM64	NSYMS46	NSYMF64	NSYMR64	NSYMB64	NSYMPP64	NSYDLA48P	NSYDPLM250	NSYCS400PLM
747	536	300	NSYMM75	NSYMS75	NSYMF75	NSYMR75	NSYMB75	NSYMPP75	NSYDLA66 and NSYDLA88	NSYDPLM300	NSYCS500PLM
847	636	300	NSYMM86	NSYMS86	NSYMF86	NSYMR86	NSYMB86	NSYMPP86	NSYDLA84 and NSYDLA112	NSYDPLM300	NSYCS600PLM
1056	852	350	NSYMM108	-	NSYMF108	NSYMR108	NSYMB108	NSYMPP108	NSYDLA234	NSYDPLM350	NSYCS800PLM

Main accessories



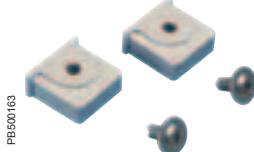
External dimensions (mm)			Fixing lugs	Post-fixing device	Floor-mounting pillar	Coupling frame	Cable-gland plate	Internal door	Blanking plates	Plinth ZM RAL 7032
H	W	D	Page 281	Page 281	Page 280	Page 280	Page 280	Page 282	Page 281	Page 279
310	215	160	NSYPFPLM32	-	-	-	-	-	NSYCEPLMA	-
308	255	160	NSYPFPLM	-	-	-	-	NSYPA3025PLM	-	-
430	330	200	NSYPFPLM	NSYSFP300	-	-	-	NSYPAP43	NSYCEPLMB	-
530	430	200	NSYPFPLM	NSYSFP400	NSYSFSPLM	-	-	NSYPAP54	NSYCEPLMB	-
647	436	250	NSYPFPLM	NSYSFP400	NSYSFSPLM	-	-	NSYPAP64	NSYCEPLMC	-
747	536	300	NSYPFPLM	NSYSFP500	-	NSYBUPLM	NSYTLA4420	NSYPAP75	NSYCEPLMC	NSYZM253
847	636	300	NSYPFPLM	NSYSFP600	-	NSYBUPLM	NSYTLA4420	NSYPAP86	NSYCEPLMC	NSYZM263
1056	852	350	NSYPFPLM	-	-	NSYBU108PLM	NSYTLA6420	NSYPAP108	-	NSYZM283

Water drain plug



Page 286

Rail-fixing nuts



Page 285

Ventilation louvre



Page 286

Polyester floor-standing enclosures IP 65 or IP 54

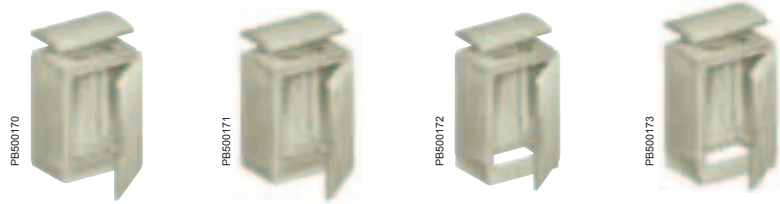
Selection guide



External dimensions (mm)				Completely sealed enclosures, IP 65			Enclosures with plinth-type open bottom part, IP 54	
Height	Width	Depth	N° of doors	References of enclosures with door				
				Plain	Glazed	Anti-posting	Plain	Anti-posting
500	500	320	1	NSYPLA553	NSYPLA553T	NSYPLA553R	NSYPLAZ553	NSYPLAZ553R
500	500	420	1	NSYPLA554	NSYPLA554T	NSYPLA554R	NSYPLAZ554	NSYPLAZ554R
500	750	320	1	NSYPLA573	NSYPLA573T	NSYPLA573R	NSYPLAZ573	NSYPLAZ573R
500	750	420	1	NSYPLA574	NSYPLA574T	NSYPLA574R	NSYPLAZ574	NSYPLAZ574R
500	1000	320	2	NSYPLA5103	NSYPLA5103T	NSYPLA5103R	NSYPLAZ5103	NSYPLAZ5103R
500	1000	420	2	NSYPLA5104	NSYPLA5104T	NSYPLA5104R	NSYPLAZ5104	NSYPLAZ5104R
500	1250	320	2	NSYPLA5123	NSYPLA5123T	NSYPLA5123R	NSYPLAZ5123	NSYPLAZ5123R
500	1250	420	2	NSYPLA5124	NSYPLA5124T	NSYPLA5124R	NSYPLAZ5124	NSYPLAZ5124R
750	500	320	1	NSYPLA753	NSYPLA753T	NSYPLA753R	NSYPLAZ753	NSYPLAZ753R
750	500	420	1	NSYPLA754	NSYPLA754T	NSYPLA754R	NSYPLAZ754	NSYPLAZ754R
750	750	320	1	NSYPLA773	NSYPLA773T	NSYPLA773R	NSYPLAZ773	NSYPLAZ773R
750	750	420	1	NSYPLA774	NSYPLA774T	NSYPLA774R	NSYPLAZ774	NSYPLAZ774R
750	1000	320	2	NSYPLA7103	NSYPLA7103T	NSYPLA7103R	NSYPLAZ7103	NSYPLAZ7103R
750	1000	420	2	NSYPLA7104	NSYPLA7104T	NSYPLA7104R	NSYPLAZ7104	NSYPLAZ7104R
750	1250	320	2	NSYPLA7123	NSYPLA7123T	NSYPLA7123R	NSYPLAZ7123	NSYPLAZ7123R
750	1250	420	2	NSYPLA7124	NSYPLA7124T	NSYPLA7124R	NSYPLAZ7124	NSYPLAZ7124R
1000	500	320	1	NSYPLA1053	NSYPLA1053T	NSYPLA1053R	NSYPLAZ1053	NSYPLAZ1053R
1000	500	420	1	NSYPLA1054	NSYPLA1054T	NSYPLA1054R	NSYPLAZ1054	NSYPLAZ1054R
1000	750	320	1	NSYPLA1073	NSYPLA1073T	NSYPLA1073R	NSYPLAZ1073	NSYPLAZ1073R
1000	750	420	1	NSYPLA1074	NSYPLA1074T	NSYPLA1074R	NSYPLAZ1074	NSYPLAZ1074R
1000	1000	320	2	NSYPLA10103	NSYPLA10103T	NSYPLA10103R	NSYPLAZ10103	NSYPLAZ10103R
1000	1000	420	2	NSYPLA10104	NSYPLA10104T	NSYPLA10104R	NSYPLAZ10104	NSYPLAZ10104R
1000	1250	320	2	NSYPLA10123	NSYPLA10123T	NSYPLA10123R	NSYPLAZ10123	NSYPLAZ10123R
1000	1250	420	2	NSYPLA10124	NSYPLA10124T	NSYPLA10124R	NSYPLAZ10124	NSYPLAZ10124R
1250	500	320	1	NSYPLA1253	NSYPLA1253T	NSYPLA1253R	NSYPLAZ1253	NSYPLAZ1253R
1250	500	420	1	NSYPLA1254	NSYPLA1254T	NSYPLA1254R	NSYPLAZ1254	NSYPLAZ1254R
1250	750	320	1	NSYPLA1273	NSYPLA1273T	NSYPLA1273R	NSYPLAZ1273	NSYPLAZ1273R
1250	750	420	1	NSYPLA1274	NSYPLA1274T	NSYPLA1274R	NSYPLAZ1274	NSYPLAZ1274R
1250	1000	320	2	NSYPLA12103	NSYPLA12103T	NSYPLA12103R	NSYPLAZ12103	NSYPLAZ12103R
1250	1000	420	2	NSYPLA12104	NSYPLA12104T	NSYPLA12104R	NSYPLAZ12104	NSYPLAZ12104R
1250	1250	320	2	NSYPLA12123	NSYPLA12123T	NSYPLA12123R	NSYPLAZ12123	NSYPLAZ12123R
1250	1250	420	2	NSYPLA12124	NSYPLA12124T	NSYPLA12124R	NSYPLAZ12124	NSYPLAZ12124R
1500	500	320	1	NSYPLA1553	NSYPLA1553T	NSYPLA1553R	NSYPLAZ1553	NSYPLAZ1553R
1500	500	420	1	NSYPLA1554	NSYPLA1554T	NSYPLA1554R	NSYPLAZ1554	NSYPLAZ1554R
1500	750	320	1	NSYPLA1573	NSYPLA1573T	NSYPLA1573R	NSYPLAZ1573	NSYPLAZ1573R
1500	750	420	1	NSYPLA1574	NSYPLA1574T	NSYPLA1574R	NSYPLAZ1574	NSYPLAZ1574R
1500	1000	320	2	NSYPLA15103	NSYPLA15103T	NSYPLA15103R	NSYPLAZ15103	NSYPLAZ15103R
1500	1000	420	2	NSYPLA15104	NSYPLA15104T	NSYPLA15104R	NSYPLAZ15104	NSYPLAZ15104R
1500	1250	320	2	NSYPLA15123	NSYPLA15123T	NSYPLA15123R	NSYPLAZ15123	NSYPLAZ15123R
1500	1250	420	2	NSYPLA15124	NSYPLA15124T	NSYPLA15124R	NSYPLAZ15124	NSYPLAZ15124R

Polyester floor-standing enclosures IP 44

Selection guide



External dimensions (mm)				Enclosures with ventilated canopy IP 44		Enclosures with plinth-type open bottom part and ventilated canopy, IP 44	
Height	Width	Depth	N° of doors	References of enclosures with door			
				Plain	Anti-posting	Plain	Anti-posting
500	500	320	1	NSYPLAT553	NSYPLAT553R	NSYPLAZT553	NSYPLAZT553R
500	500	420	1	NSYPLAT554	NSYPLAT554R	NSYPLAZT554	NSYPLAZT554R
500	750	320	1	NSYPLAT573	NSYPLAT573R	NSYPLAZT573	NSYPLAZT573R
500	750	420	1	NSYPLAT574	NSYPLAT574R	NSYPLAZT574	NSYPLAZT574R
500	1000	320	2	NSYPLAT5103	NSYPLAT5103R	NSYPLAZT5103	NSYPLAZT5103R
500	1000	420	2	NSYPLAT5104	NSYPLAT5104R	NSYPLAZT5104	NSYPLAZT5104R
500	1250	320	2	NSYPLAT5123	NSYPLAT5123R	NSYPLAZT5123	NSYPLAZT5123R
500	1250	420	2	NSYPLAT5124	NSYPLAT5124R	NSYPLAZT5124	NSYPLAZT5124R
750	500	320	1	NSYPLAT753	NSYPLAT753R	NSYPLAZT753	NSYPLAZT753R
750	500	420	1	NSYPLAT754	NSYPLAT754R	NSYPLAZT754	NSYPLAZT754R
750	750	320	1	NSYPLAT773	NSYPLAT773R	NSYPLAZT773	NSYPLAZT773R
750	750	420	1	NSYPLAT774	NSYPLAT774R	NSYPLAZT774	NSYPLAZT774R
750	1000	320	2	NSYPLAT7103	NSYPLAT7103R	NSYPLAZT7103	NSYPLAZT7103R
750	1000	420	2	NSYPLAT7104	NSYPLAT7104R	NSYPLAZT7104	NSYPLAZT7104R
750	1250	320	2	NSYPLAT7123	NSYPLAT7123R	NSYPLAZT7123	NSYPLAZT7123R
750	1250	420	2	NSYPLAT7124	NSYPLAT7124R	NSYPLAZT7124	NSYPLAZT7124R
1000	500	320	1	NSYPLAT1053	NSYPLAT1053R	NSYPLAZT1053	NSYPLAZT1053R
1000	500	420	1	NSYPLAT1054	NSYPLAT1054R	NSYPLAZT1054	NSYPLAZT1054R
1000	750	320	1	NSYPLAT1073	NSYPLAT1073R	NSYPLAZT1073	NSYPLAZT1073R
1000	750	420	1	NSYPLAT1074	NSYPLAT1074R	NSYPLAZT1074	NSYPLAZT1074R
1000	1000	320	2	NSYPLAT10103	NSYPLAT10103R	NSYPLAZT10103	NSYPLAZT10103R
1000	1000	420	2	NSYPLAT10104	NSYPLAT10104R	NSYPLAZT10104	NSYPLAZT10104R
1000	1250	320	2	NSYPLAT10123	NSYPLAT10123R	NSYPLAZT10123	NSYPLAZT10123R
1000	1250	420	2	NSYPLAT10124	NSYPLAT10124R	NSYPLAZT10124	NSYPLAZT10124R
1250	500	320	1	NSYPLAT1253	NSYPLAT1253R	NSYPLAZT1253	NSYPLAZT1253R
1250	500	420	1	NSYPLAT1254	NSYPLAT1254R	NSYPLAZT1254	NSYPLAZT1254R
1250	750	320	1	NSYPLAT1273	NSYPLAT1273R	NSYPLAZT1273	NSYPLAZT1273R
1250	750	420	1	NSYPLAT1274	NSYPLAT1274R	NSYPLAZT1274	NSYPLAZT1274R
1250	1000	320	2	NSYPLAT12103	NSYPLAT12103R	NSYPLAZT12103	NSYPLAZT12103R
1250	1000	420	2	NSYPLAT12104	NSYPLAT12104R	NSYPLAZT12104	NSYPLAZT12104R
1250	1250	320	2	NSYPLAT12123	NSYPLAT12123R	NSYPLAZT12123	NSYPLAZT12123R
1250	1250	420	2	NSYPLAT12124	NSYPLAT12124R	NSYPLAZT12124	NSYPLAZT12124R
1500	500	320	1	NSYPLAT1553	NSYPLAT1553R	NSYPLAZT1553	NSYPLAZT1553R
1500	500	420	1	NSYPLAT1554	NSYPLAT1554R	NSYPLAZT1554	NSYPLAZT1554R
1500	750	320	1	NSYPLAT1573	NSYPLAT1573R	NSYPLAZT1573	NSYPLAZT1573R
1500	750	420	1	NSYPLAT1574	NSYPLAT1574R	NSYPLAZT1574	NSYPLAZT1574R
1500	1000	320	2	NSYPLAT15103	NSYPLAT15103R	NSYPLAZT15103	NSYPLAZT15103R
1500	1000	420	2	NSYPLAT15104	NSYPLAT15104R	NSYPLAZT15104	NSYPLAZT15104R
1500	1250	320	2	NSYPLAT15123	NSYPLAT15123R	NSYPLAZT15123	NSYPLAZT15123R
1500	1250	420	2	NSYPLAT15124	NSYPLAT15124R	NSYPLAZT15124	NSYPLAZT15124R

Polyester floor-standing enclosures

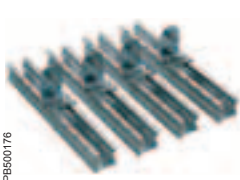
Accessory selection guide

Mounting accessories




Enclosure dimensions (mm)			Metallic mounting plates		Insulating mounting plates		Modular distribution chassis		Internal door
Height	Width	N° of doors	Plain	Telequick	Polyester	Bakelite	Page 322		Page 311
			Page 315	Page 316	Page 315				
500	500	1	NSYPMM55	NSYPMR55	NSYPMA55	NSYPMB55	-	-	NSYPAPLA55
500	750	1	NSYPMM75	NSYPMR57	NSYPMA75	NSYPMB75	-	-	NSYPAPLA57
500	1000	2	NSYPMM510	2 x NSYPMR55	NSYPMA510	NSYPMB510	-	-	2 x NSYPAPLA55
500	1250	2	NSYPMM55 + NSYPMM75	NSYPMR55 + NSYPMR75	NSYPMA55 + NSYPMA75	NSYPMB55 + NSYPMB75	-	-	NSYPAPLA55 + NSYPAPLA57
750	500	1	NSYPMM75	NSYPMR75	NSYPMA75	NSYPMB75	NSYDLP76	NSYDLP57	NSYPAPLA75
750	750	1	NSYPMM77	NSYPMR77	NSYPMA77	NSYPMB77	NSYDLP132	NSYDLP99	NSYPAPLA77
750	1000	2	NSYPMM710	2 x NSYPMR75	NSYPMA710	NSYPMB710	2 x NSYDLP76	2 x NSYDLP57	2 x NSYPAPLA75
750	1250	2	NSYPMM712	NSYPMR75 + NSYPMR77	NSYPMA712	NSYPMB712	NSYDLP76 + NSYDLP132	NSYDLP57 + NSYDLP99	NSYPAPLA75 + NSYPAPLA77
1000	500	1	NSYPMM105	NSYPMR105	NSYPMA105	NSYPMB105	NSYDLP114	NSYDLP95	NSYPAPLA105
1000	750	1	NSYPMM107	NSYPMR107	NSYPMA107	NSYPMB107	NSYDLP198	NSYDLP165	NSYPAPLA107
1000	1000	2	NSYPMM1010	2 x NSYPMR105	NSYPMA1010	NSYPMB1010	2 x NSYDLP114	2 x NSYDLP95	2 x NSYPAPLA105
1000	1250	2	NSYPMM1012	NSYPMR105 + NSYPMR107	NSYPMA1012	NSYPMB1012	NSYDLP114 + NSYDLP198	NSYDLP95 + NSYDLP165	NSYPAPLA105 + NSYPAPLA107
1250	500	1	NSYPMM125	NSYPMR125	NSYPMA125	NSYPMB125	NSYDLP133	NSYDLP114P	NSYPAPLA125
1250	750	1	NSYPMM127	NSYPMR127	NSYPMA127	NSYPMB127	NSYDLP231	NSYDLP198P	NSYPAPLA127
1250	1000	2	NSYPMM1210	2 x NSYPMR125	NSYPMA1210	NSYPMB1210	2 x NSYDLP133	2 x NSYPLD114P	2 x NSYPAPLA125
1250	1250	2	NSYPMM1212	NSYPMR125 + NSYPMR127	NSYPMA1212	NSYPMB1212	NSYDLP133 + NSYDLP231	NSYDLP114P + NSYDLP198P	NSYPAPLA125 + NSYPAPLA127
1500	500	1	NSYPMM155	NSYPMR155	-	NSYPMB155	NSYDLP171	NSYDLP152	NSYPAPLA155
1500	750	1	NSYPMM157	NSYPMR157	-	NSYPMB157	NSYDLP297	NSYDLP264	NSYPAPLA157
1500	1000	2	NSYPMM1510	2 x NSYPMR155	-	NSYPMB1510	2 x NSYDLP171	2 x NSYDLP152	2 x NSYPAPLA155
1500	1250	2	NSYPMM1512	NSYPMR155 + NSYPMR157	-	NSYPMB1512	NSYDLP171 + NSYDLP297	NSYDLP152 + NSYDLP264	NSYPAPLA155 + NSYPAPLA157

Step slides




Page 317

Uprights and mounting rails



Page 319

Door retainer

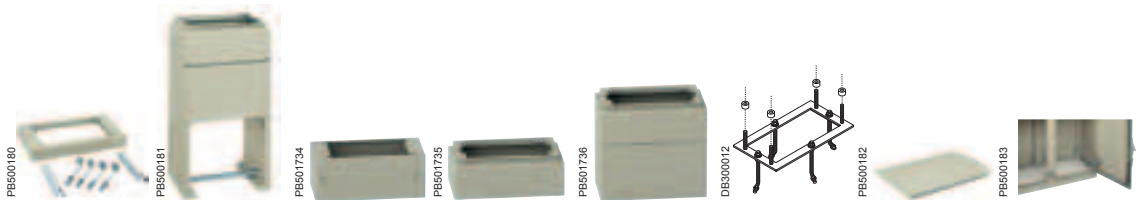


Page 311

Polyester floor-standing enclosures

Accessory selection guide

Composition accessories



Enclosure dimensions (mm)		N plinth	H plinth	ZA plinth	ZZ plinth		Floor-fixing frame	Canopy	Cable-entry plate
Width	Depth	Height 60 mm	Height 900 mm	Height 200 mm	Height 200 mm	Height 500 mm			
		Page 305		Page 307	Page 308		Page 306	Page 309	Page 310
500	320	NSYZNPLA53	NSYZHPLA53	NSYZA253	NSYZZ253	NSYZZ553	NSYMFPLAZ53	NSYTJPLA53	NSYECPLAZ53
500	420	NSYZNPLA54	NSYZHPLA54	NSYZA273	NSYZZ273	NSYZZ573	NSYMFPLAZ54	NSYTJPLA54	NSYECPLAZ54
750	320	NSYZNPLA73	NSYZHPLA73	NSYZA2103	NSYZZ2103	NSYZZ5103	NSYMFPLAZ73	NSYTJPLA73	NSYECPLAZ73
750	420	NSYZNPLA74	NSYZHPLA74	NSYZA2123	NSYZZ2123	NSYZZ5123	NSYMFPLAZ74	NSYTJPLA74	NSYECPLAZ74
1000	320	NSYZNPLA103	NSYZHPLA103	NSYZA254	NSYZZ254	NSYZZ554	NSYMFPLAZ103	NSYTJPLA103	NSYECPLAZ103
1000	420	NSYZNPLA104	NSYZHPLA104	NSYZA274	NSYZZ274	NSYZZ574	NSYMFPLAZ104	NSYTJPLA104	NSYECPLAZ104
1250	320	NSYZNPLA123	NSYZHPLA123	NSYZA2104	NSYZZ2104	NSYZZ5104	NSYMFPLAZ123	NSYTJPLA123	NSYECPLAZ123
1250	420	NSYZNPLA124	NSYZHPLA124	NSYZA2124	NSYZZ2124	NSYZZ5124	NSYMFPLAZ124	NSYTJPLA124	NSYECPLAZ124





VDI accessories



Enclosure dimensions (mm)		19" fixed chassis	Number of U	19" swing chassis	Number of U
Height	Width	Page 325		Page 325	
500	750	NSYBRF8PLA	8	NSYBRP7PLA	7
750	750	NSYBRF12PLA + NSYSPLA75	12	NSYBRP11PLA + NSYSPLA75	11
1000	750	NSYBRF17PLA + NSYSPLA100	17	NSYBRP16PLA + NSYSPLA100	16
1250	750	NSYBRF21PLA + NSYSPLA125	21	NSYBRP20PLA + NSYSPLA125	20
1500	750	NSYBRF26PLA + NSYSPLA150	26	NSYBRP25PLA + NSYSPLA150	25




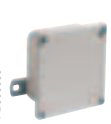

<p>Door switch</p> <p>Page 312</p>	<p>Insert</p> <p>Page 319</p>	<p>Document pocket</p> <p>Page 483</p>	<p>VDI accessories and fixings</p> <p>Page 660</p>
<p>Coupling Kit</p> <p>Page 303</p>	<p>Anti-graffiti paint</p> <p>Page 321</p>	<p>Handles and inserts</p> <p>Page 313</p>	<p>Wall-fixing lug</p> <p>Page 309</p>

Steel industrial boxes

	Spacial S44 - S57 - S24 - SDB Steel industrial boxes	40
	Selection guide	40
 <p style="font-size: 8px; margin: 0;">PBE500198</p>	Spacial SDB: Steel derivation boxes IP 55	42
 <p style="font-size: 8px; margin: 0;">PBE500197</p>	Spacial S24: Steel safety boxes IP 55	48
 <p style="font-size: 8px; margin: 0;">PBE500195</p>	Spacial S44: Steel industrial boxes IP 66	51
 <p style="font-size: 8px; margin: 0;">PBE500196</p>	Spacial S57: Steel screw fixed cover boxes IP 66	53

Steel industrial boxes

Selection guide

				
SDB: boxes	SDB: small enclosures	S24	S44	S57
Page 44	Page 46	Page 48	Page 51	Page 53

Criteria		Metallic junction boxes / Industrial boxes		Enclosure for security applications	Metallic junction boxes / Industrial boxes	
Outdoor use				●	●	●
Degree of protection		IP 55 IK 07	IP 55 IK 07	IP 55 IK 07	IP 66 IK 08	IP 66 IK 10
Dimensions (mm) - external for SDB - internal the other ones	Height	85 to 357	206 to 357	180 to 230	80 to 400	200 or 300
	Width	85 to 307	156 to 307	130 to 210	80 to 400	300 to 500
	Depth	49 to 140	83 to 210	96 to 126	45 to 110	200 or 300
Universal application		●	●	●	●	●
High cover		●	Door			
Low cover		●	Door	Door	●	●
With knock-out		●				

Stainless-steel industrial boxes: contact us.



Specific

- Steel boxes and enclosures cannot be installed outdoors without a special finish.
- Please consult us for stainless-steel boxes: 304L, 316L, brushed, micro-beaded finishes.
- Please consult us for cut-outs / paint / machining / accessory installation / integration.

Metallic junction boxes SDB IP 55 (IEC 60529)

	External dimensions (mm)			Models without knock-outs	Models with knock-outs, n° of drill holes, knock-outs and group			Dimensions (mm)			Plain mounting plate	Weight (kg)
	Height (A)	Width (B)	Depth (C)	Reference	Reference	Height (A)	Width (B)	D	E	F		
Low cover models	85	85	49	NSYDBN88	NSYDB88M	1 n° 1	1 n° 1	58	58	-	-	0.18
	105	105	49	NSYDBN1010	NSYDB1010M	2 n° 1	1 n° 1	76	76	-	-	0.25
	155	105	61	NSYDBN1510	NSYDB1510M	3 n° 1	1 n° 2	124	74	56	NSYPMD1510	0.38
	206	156	83	NSYDBN2015	NSYDB2015M	3 n° 3	2 n° 3	172	122	78	NSYPMD2015	1
	256	206	93	NSYDBN2520	NSYDB2520M	3 n° 4	2 n° 4	220	170	88	NSYPMD2520	1.5
	307	257	116	NSYDBN3025	NSYDB3025M	2 n° 3, 2 n° 4	3 n° 4	268	218	110	NSYPMD3025	3.3
High cover models	357	307	136	NSYDBN3530	NSYDB3530M	2 n° 3, 3 n° 4	2 n° 3, 2 n° 4	318	268	130	NSYPMD3530	4.8
	155	105	88	NSYDAN1510	NSYDA1510M	3 n° 2	1 n° 2	124	74	83	NSYPMD1510	0.45
	206	156	122	NSYDAN2015	NSYDA2015M	3 n° 3	2 n° 3	172	122	121	NSYPMD2015	1.2
	256	206	140	NSYDAN2520	NSYDA2520M	3 n° 4	2 n° 4	220	170	131	NSYPMD2520	1.9

Small metallic enclosures SDB IP 55 (IEC 60529)

	External dimensions (mm)			Models without knock-outs	Dimensions (mm)				Plain mounting plate	Weight (kg)
	Height (A)	Width (B)	Depth (C)	Reference	D	E	F	G		
Low cover models	206	156	83	NSYDBN2015D	172	122	78	55	NSYPMD2015	1
	256	206	93	NSYDBN2520D	220	170	88	55	NSYPMD2520	1.5
	307	257	116	NSYDBN3025D	268	218	110	55	NSYPMD3025	3.3
	357	307	136	NSYDBN3530D	318	268	130	55	NSYPMD3530	4.8
High cover models	206	156	122	NSYDAN2015D	172	122	121	45	NSYPMD2015	1.2
	256	206	140	NSYDAN2520D	220	170	131	45	NSYPMD2520	1.9
	307	257	174	NSYDAN3025D	268	218	168	45	NSYPMD3025	4
	357	307	210	NSYDAN3530D	318	268	204	45	NSYPMD3530	5.8



External dimensions (mm)			S24 range Opaque door + screws	Steel industrial box references S44			S57 range IK 10
Height	Width	Depth		IK 08			
				Empty	Plate	Uprights (1)	
80	80	45	-	NSYSBS884	-	-	-
100	100	55	-	NSYSBS10105	-	-	-
130	130	60	-	NSYSBS13136	-	-	-
160	160	65	-	NSYSBS16166	-	-	-
165	120	65	-	NSYSBS16126	NSYSBS16126S	-	-
180	130	96	NSYSBS18139F	-	-	-	-
180	165	96	NSYSBS18169F	-	-	-	-
200	200	90	-	NSYSBS20209	NSYSBS20209S	-	-
230	210	126	NSYSBS232112F	-	-	-	-
250	250	100	-	NSYSBS252510	NSYSBS252510S	-	-
300	200	110	-	-	-	NSYSBS302011R	-
300	200	150	-	-	-	-	NSYSBS302015
300	300	100	-	NSYSBS303010	NSYSBS303010S	-	-
300	300	150	-	-	-	-	NSYSBS303015
400	200	110	-	-	-	NSYSBS402011R	-
400	300	150	-	-	-	-	NSYSBS403015
400	400	110	-	NSYSBS404011	NSYSBS404011S	-	-
500	200	110	-	-	-	NSYSBS502011R	-
500	300	110	-	-	-	NSYSBS503011R	-
500	300	200	-	-	-	-	NSYSBS503020
600	200	110	-	-	-	NSYSBS602011R	-
600	300	110	-	-	-	NSYSBS603011R	-

(1) Uprights along small sides (Width)

Steel derivation boxes IP 55

Overview

Boxes and small enclosures made of sheet-steel protected inside and outside with epoxy-polyester paint in RAL 7035 grey.



PBS500235

Spacial SDB

With or without metric knock-outs for tube entry.



2 versions available: with high or low cover.



Backs equipped with threaded drill holes for fixing equipment. From model 15/10 and up, there are four M4 threaded holes fitted with removable plugs for direct fixing of the mounting plate. Direct wall-fixing.



PVC or rubber sealing gasket depending on the model.



Double-bar lock with inserted key can be used as a handle lock. Other lock inserts are available.



Metallic junction boxes

IP 55 (IEC 60529)



PB500198

NSYDA2520M

Metallic boxes made of sheet-steel protected inside and outside with textured epoxy-polyester paint in RAL 7035 grey.

The SDB series consists of 4 basic models:

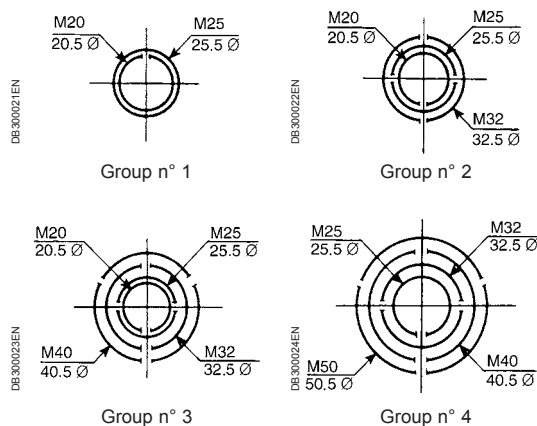
- Without knock-outs: **NSYDBN** with low cover and **NSYDAN** with high cover.
- With knock-outs: **NSYDB●●●M** with low cover and **NSYDA●●●M** with high cover.
- PVC sealing gasket on sizes up to 20/15 and a rubber gasket for > 25/20.
- Back ready for threaded drill holes for fixing equipment. From size 15/10 and up, there are four M4 threaded holes fitted with removable plugs for direct fixing of the mounting plate.
- Direct wall-fixing by means of drill holes fitted with plastic plugs to ensure sealing.
- Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure.



PB500237

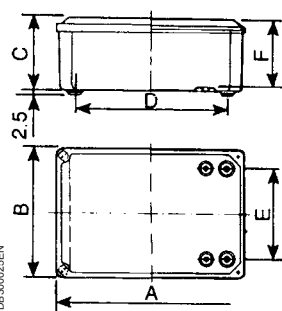
NSYDBN1510

Metallic junction boxes IP 55 (IEC 60529)

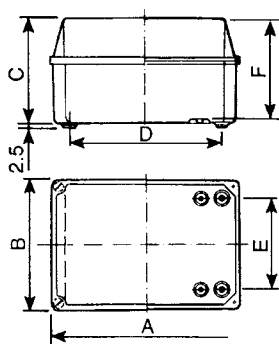


Dimensions (mm)

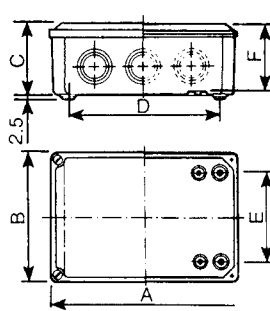
NSYDBN



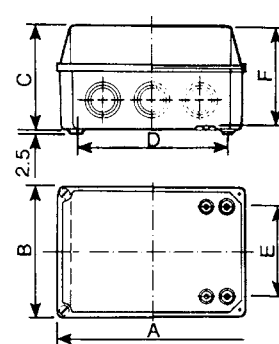
NSYDAN



NSYDB●●●M



NSYDA●●●M



Models, dimensions and references

	External dimensions (mm)			Models without knock-outs	Models with knock-outs, n° of drill holes, knock-outs and group			Dimensions (mm)			Plain mounting plate	Weight (kg)
	Height (A)	Width (B)	Depth (C)	Reference	Reference	Height (A)	Width (B)	D	E	F		
Low cover models	85	85	49	NSYDBN88	NSYDB88M	1 n° 1	1 n° 1	58	58	-	-	0.18
	105	105	49	NSYDBN1010	NSYDB1010M	2 n° 1	1 n° 1	76	76	-	-	0.25
	155	105	61	NSYDBN1510	NSYDB1510M	3 n° 1	1 n° 2	124	74	56	NSYPMD1510	0.38
	206	156	83	NSYDBN2015	NSYDB2015M	3 n° 3	2 n° 3	172	122	78	NSYPMD2015	1
	256	206	93	NSYDBN2520	NSYDB2520M	3 n° 4	2 n° 4	220	170	88	NSYPMD2520	1.5
	307	257	116	NSYDBN3025	NSYDB3025M	2 n° 3, 2 n° 4	3 n° 4	268	218	110	NSYPMD3025	3.3
High cover models	357	307	136	NSYDBN3530	NSYDB3530M	2 n° 3, 3 n° 4	2 n° 3, 2 n° 4	318	268	130	NSYPMD3530	4.8
	155	105	88	NSYDAN1510	NSYDA1510M	3 n° 2	1 n° 2	124	74	83	NSYPMD1510	0.45
	206	156	122	NSYDAN2015	NSYDA2015M	3 n° 3	2 n° 3	172	122	121	NSYPMD2015	1.2
	256	206	140	NSYDAN2520	NSYDA2520M	3 n° 4	2 n° 4	220	170	131	NSYPMD2520	1.9



Small metallic enclosures IP 55 (IEC 60529)



PB5600236

NSYDBN3025D

Metallic enclosures made of sheet-steel protected inside and outside with textured epoxy-polyester paint in RAL 7035 grey.

- The Spacial SDB series with hinges consists of 2 models **NSYDBN●●●D** low cover and **NSYDAN●●●D** high cover.
- Enclosures fitted with sealing gasket and M4 threaded holes fitted with removable plugs for fixing the mounting plate and/or equipment in general.
- Lock with double-bar insert  operated with key (standard  supply). Fixing this key to the insert will convert it into a handle lock. See other lock possibilities in the insert table.



PB5600238

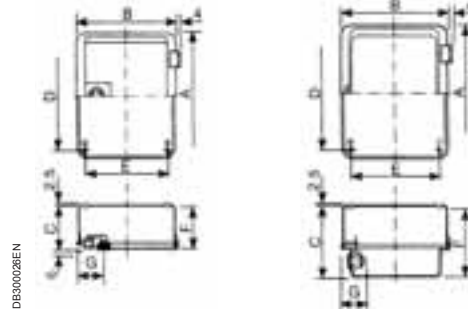
NSYDAN3025D

Small metallic enclosures IP 55 (IEC 60529)

Dimensions

NSYDBN...D

NSYDAN...D

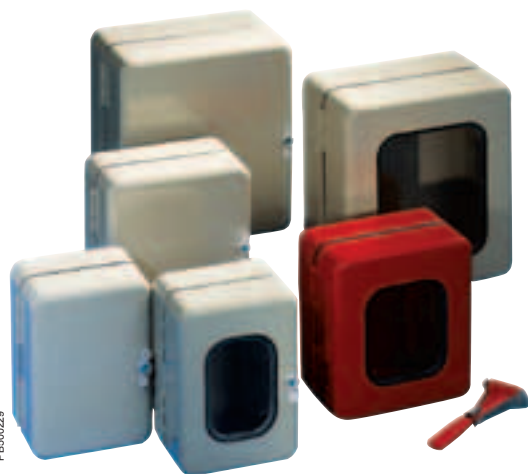


Models. Dimensions and references

	External dimensions (mm)			Models without knock-outs	Dimensions (mm)				Plain mounting plate	Weight (kg)
	Height (A)	Width (B)	Depth (C)	Reference	D	E	F	G		
Low cover models	206	156	83	NSYDBN2015D	172	122	78	55	NSYPMD2015	1
	256	206	93	NSYDBN2520D	220	170	88	55	NSYPMD2520	1.5
	307	257	116	NSYDBN3025D	268	218	110	55	NSYPMD3025	3.3
	357	307	136	NSYDBN3530D	318	268	130	55	NSYPMD3530	4.8
High cover models	206	156	122	NSYDAN2015D	172	122	121	45	NSYPMD2015	1.2
	256	206	140	NSYDAN2520D	220	170	131	45	NSYPMD2520	1.9
	307	257	174	NSYDAN3025D	268	218	168	45	NSYPMD3025	4
	357	307	210	NSYDAN3530D	318	268	204	45	NSYPMD3530	5.8

Conversions of standard lock into normalised solutions

Type and size	Operated with a key	Reference	
Square insert <ul style="list-style-type: none"> <input type="checkbox"/> 6 mm <input type="checkbox"/> 7 mm <input type="checkbox"/> 8 mm 	LC-7	 DBS00027	
	LC-7		NSYTC6CRN
	LC-8		NSYTC7CRN
Triangular insert <ul style="list-style-type: none"> <input type="checkbox"/> 6 mm <input type="checkbox"/> 7 mm <input type="checkbox"/> 8 mm 	LT-8	 DBS00028	
	LT-8		NSYTT6CRN
	LT-8		NSYTT7CRN
405 key-type lock		 DBS00029	
		NSYCL405CRN	



Technical characteristics

- Degree of protection IP 55 according to IEC 60529.
- Resistance to external mechanical impacts: IK 07.
- Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure.
- Structured finish, epoxy-polyester powder paint, RAL 7035 grey or RAL 3000 red for security applications.
- Locking by screws or by side lock with 3-mm double-bar insert. Option of installing a handle, ref. **NSYTHL1242EPLM** or **NSYTHPLM** with insert ref. **NSYTT8CRN** (to be ordered).
- Plumbable with a cap installed at the plant.
- The enclosures are equipped with 4 nuts welded to the rear. They allow the fixing of a mounting plate (as an accessory) or a personalised mounting plate.
- Polyurethane sealing gasket.
- M6 x 8 earthing screws on the body and cover for earth continuity.

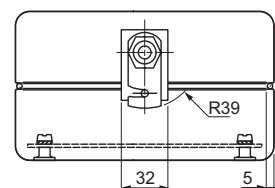
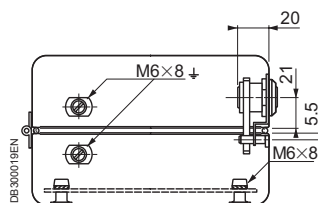
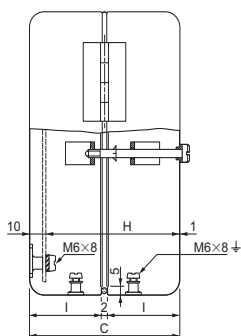
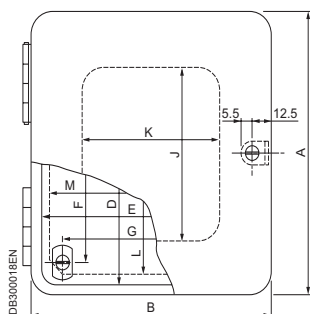
Applications

- Security and alarm systems (such as a fire alarm) that can accommodate modular plates and equipment.



Internal dimensions (mm)			Enclosure reference locking by screws		Reference of enclosures with side 3-mm double-bar lock		
Height	Width	Depth	Plain door	Door with window	Plain door	Door with window	Door with glass window thickness 3 mm
180	130	96	NSYSBS18139F	NSYSBS18139FT	NSYSBS18139K	NSYSBS18139KT	NSYSBS18139KTH
180	165	96	NSYSBS18169F	NSYSBS18169FT	NSYSBS18169K	NSYSBS18169KT	NSYSBS18169KTH
230	210	126	NSYSBS232112F	NSYSBS232112FT	NSYSBS232112K	NSYSBS232112KT	NSYSBS232112KTH

Ref. enclosures	Dimensions (mm)													Weight (kg)	Ref. plates
	A	B	C	D	E	F	G	H	I	J	K	L	M		
NSYSBS18139F	182	132	107	168	118	140	90	95	52	107	77	160	110	1	NSYAMPM1612SB
NSYSBS18169F	182	167	107	168	153	140	125	95	52	108	97	160	145	1.2	NSYAMPM1816SB
NSYSBS232112F	232	212	137	218	198	190	170	125	67	157	137	210	190	2	NSYAMPM2321SB



Mounting accessories

- Treated-steel mounting plates, delivered with fixings.
- Kit for modular equipment, delivered with fixings.



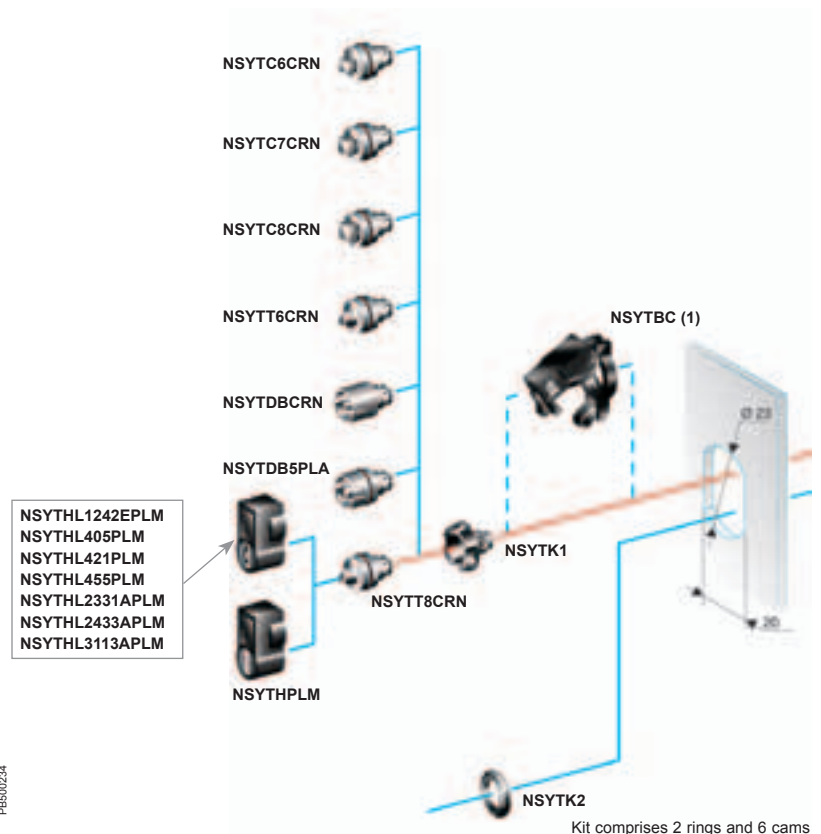
Internal dimensions (mm)			Number of modules	Modular mounting plates	Kits for equipment
Height	Width	Depth			
180	130	96	4	NSYAMP1612SB	NSYAPMC1813SB
180	165	96	-	NSYAMP1816SB	-
230	210	126	8	NSYAMP2321SB	NSYAPMC2321SB

Composition accessories

- Set of 2 fixing lugs made from treated steel, with fixings (without sealing washer, degraded IP).
- Glass-breaking set (hammer with support).

Name	Reference
Set of 2 fixing lugs	NSYAEFS24
Glass-breaking set	NSYAEDXS24

Door locks



Kit comprises 2 rings and 6 cams with assembly instruction sheet for another type of cylindrical lock (2).

(1) Incompatible with locking handle.
 (2) Locks not referenced, to special order only. Consult our local sales office.
 Note: the locks are not adaptable on lock screw models.

Locks

Kit

Description	Reference
Handle without lock	NSYTHPLM
Sealing or padlocking cap	NSYTBC
Replacement spare lock	NSYTK1
EDF/RONIS kit	NSYTK2

Insert shape/type

Description	Reference
Square 6 mm	NSYTC6CRN
Square 7 mm	NSYTC7CRN
Square 8 mm	NSYTC8CRN
Double bar 3 mm (standard)	NSYTDBCRN
Double bar 5 mm	NSYTDB5PLA
Triangular 6.5 mm CNOMO	NSYTT6CRN
Triangular 8 mm	NSYTT8CRN

Handles with push-button release (delivered with insert ref. NSYTT8CRN)

Description	Reference
Key lock 1242 E	NSYTHL1242EPLM
Key lock 405	NSYTHL405PLM
Key lock 421	NSYTHL421PLM
Key lock 455	NSYTHL455PLM
Key lock 2331 A	NSYTHL2331APLM
Key lock 2433 A	NSYTHL2433APLM
Key lock 3113 A	NSYTHL3113APLM

Steel industrial boxes IP 66

Introduction



IP 66 steel industrial boxes

IP 66 boxes

Technical characteristics

- Resistance to external mechanical impacts: IK 08.
- Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure.
- Structured finish, epoxy-polyester powder paint, RAL 7035 grey colour.
- Cover fixing by 4 screws.
- Polyurethane sealing gasket applied.
- Wall fixing: by welded lugs.
- Earthing screws on the body and cover for earth continuity.
- 3 versions:
 - Empty boxes, without internal fixing studs,
 - Boxes with fixing studs for plate.
 - Boxes with markings with a pitch of 12.5 mm for rails, on the width side.

Applications

- Applications requiring good water and dust protection.

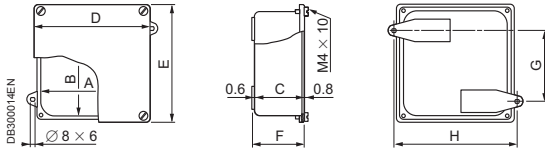


Internal dimensions (mm)			IP 66 box reference			Reference plates
Height	Width	Depth	Empty	Plate	Uprights	
80	80	45	NSYSBS884	-	-	-
100	100	55	NSYSBS10105	-	-	-
130	130	60	NSYSBS13136	-	-	-
160	160	65	NSYSBS16166	-	-	-
165	120	65	NSYSBS16126	NSYSBS16126S	-	NSYAMP1612SB
200	200	90	NSYSBS20209	NSYSBS20209S	-	NSYAMP2020SB
250	250	100	NSYSBS252510	NSYSBS252510S	-	NSYAMP2525SB
300	200	110		-	NSYSBS302011R	-
300	300	100	NSYSBS303010	NSYSBS303010S	-	NSYAMP3030SB
400	200	110		-	NSYSBS402011R	-
400	400	110	NSYSBS404011	NSYSBS404011S	-	NSYAMP4040SB
500	200	110		-	NSYSBS502011R	-
500	300	110		-	NSYSBS503011R	-
600	200	110		-	NSYSBS602011R	-
600	300	110		-	NSYSBS603011R	-

Steel industrial boxes IP 66

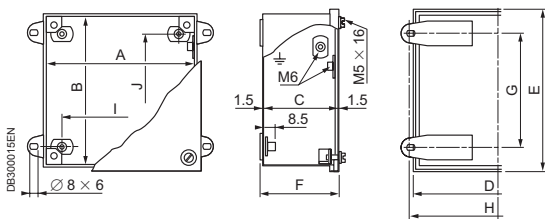
Dimensions

IP 66 steel industrial boxes without knock-outs



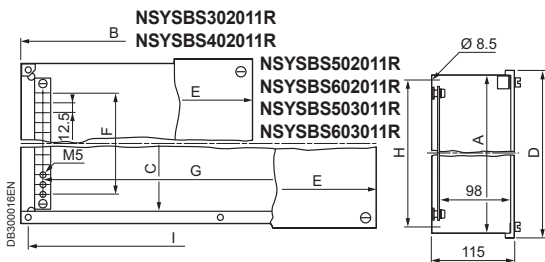
Internal dimensions (mm)			Dimensions (mm)			Fixing (mm)		Gross weight (kg)	Reference
A	B	C	D	E	F	G	H		
80	80	45	96	96	48	50	100	0.190	NSYSBS884
100	100	55	116	116	58	70	120	0.270	NSYSBS10105
130	130	60	142	142	63	100	144	0.300	NSYSBS13136
160	160	65	174	174	68	130	178	0.590	NSYSBS16166

Bare boxes and boxes with 4 plate-fixing points, IP 66



Internal dimensions (mm)			Dimensions (mm)			Box fixing (mm)		Plate fixing (mm)		Reference
A	B	C	D	E	F	G	H	I	J	
120	165	65	131	176	72	137	137	90	140	NSYSBS16126 NSYSBS16126S
200	200	96	211	211	97	174	217	170	170	NSYSBS20209 NSYSBS20209S
250	250	100	262	262	107	224	267	220	220	NSYSBS252510 NSYSBS252510S
300	300	100	312	312	107	274	317	270	270	NSYSBS303010 NSYSBS303010S
400	400	110	412	412	117	374	417	370	370	NSYSBS404011 NSYSBS404011S

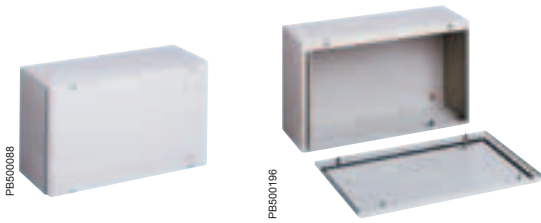
Boxes with uprights, IP 66



Internal dimensions (mm)			Dimensions (mm)			Uprights (mm)	Box fixing (mm)		Reference
A	B	C	D	E	F	G	H	I	
200	300	-	211	311	125	250	184	284	NSYSBS302011R
200	400	-	211	411	125	350	184	384	NSYSBS402011R
200	500	172	211	511	125	450	184	484	NSYSBS502011R
200	600	172	211	611	125	550	184	584	NSYSBS602011R
300	500	272	312	512	225	450	284	484	NSYSBS503011R
300	600	272	312	612	225	550	284	584	NSYSBS603011R

Steel screw fixed cover boxes IP 66

Introduction



Technical characteristics

- Sheet-steel enclosure.
- Degree of protection: IP 66 according to IEC 60529.
- Resistance to external mechanical impacts: IK 10.
- Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure.
- Structured finish, polyester powder paint, RAL 7035 grey colour.
- Fixing of the cover with 4 CHc M5 x 35 shouldered captive screws.
- The enclosures are equipped with 4 backstuds for fixing the mounting plate.
- Polyurethane sealing gasket.
- Earthing screws on the body and cover for earth continuity.

Special versions

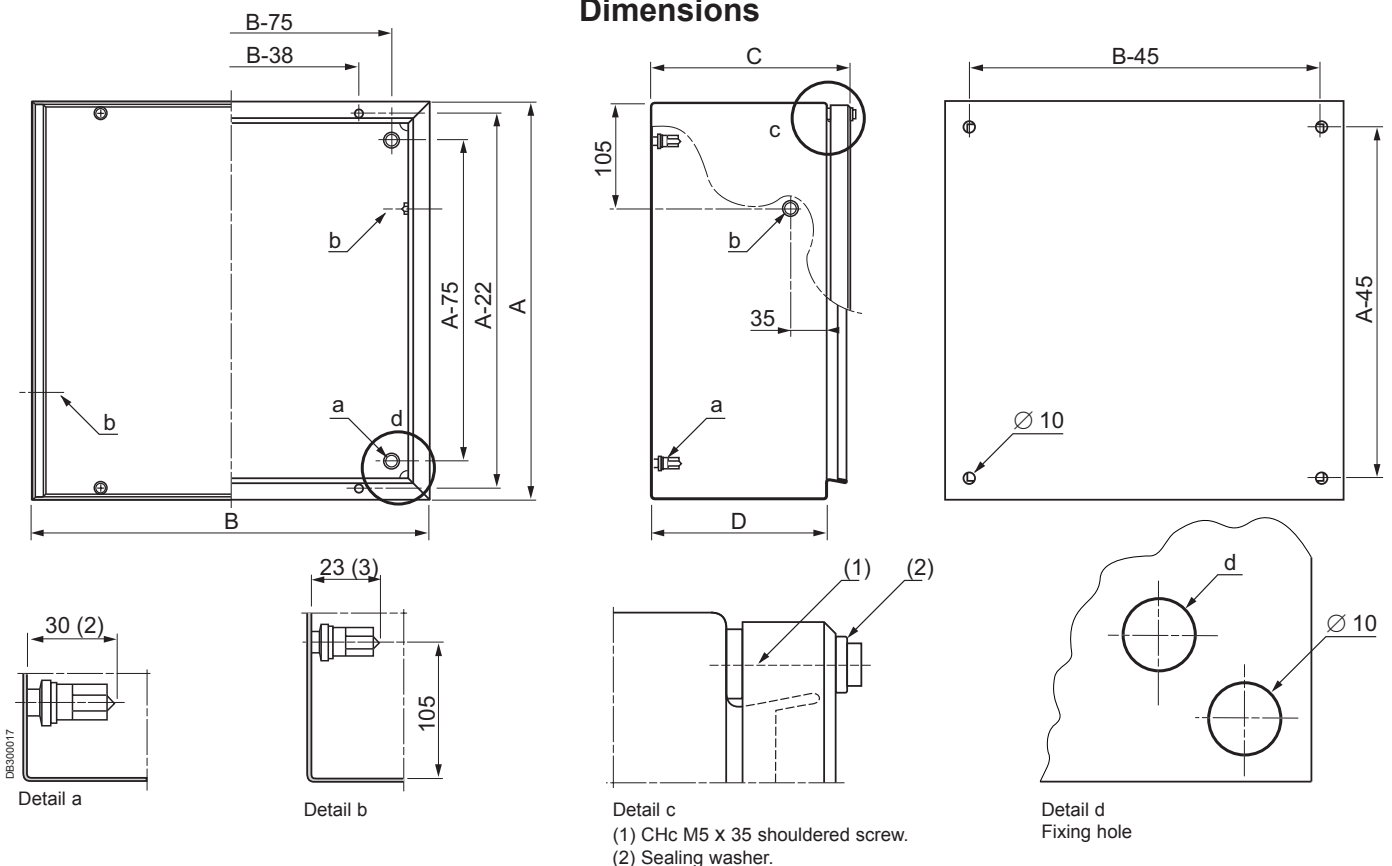
- On request, the industrial boxes can be delivered with:
 - Other finishes (zinc chromate, metallised, etc.).
 - Other colours.
 - Etc.
- See our Customised offer.

Applications

- Use in environments with a considerable risk of dust and/or liquid deposit creation.

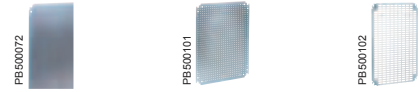
External dimensions (mm)			(mm)				Reference
Height	Width	Depth	A	B	C	D	
200	300	150	200	300	150	127	NSYSBS302015
300	300	150	300	300	150	127	NSYSBS303015
300	400	150	300	400	150	127	NSYSBS403015
300	500	200	300	500	200	177	NSYSBS503020

Dimensions

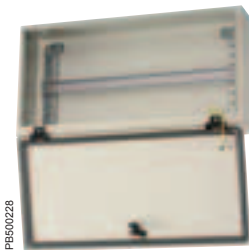


Steel screw fixed cover boxes IP 66 Accessories

Mounting plates



Enclosure dimensions (mm)			Mounting plates		
Height	Width	Depth	Plain	Microperforated	Telequick
200	300	150	NSYMM32	NSYMF32	NSYMR32
300	300	150	NSYMM33	NSYMF33	NSYMR33
300	400	150	NSYMM43	NSYMF43	NSYMR43
300	500	200	NSYMM35	NSYMF53	NSYMR53



This offer is completed by our range of Spacial S3DB terminal enclosures.

Wall-fixing lugs

Description	Reference
Set of 4 steel fixing lugs	NSYAEFPFSC
Set of 4 stainless-steel fixing lugs	NSYAEFPFXSC



See diagram, dimensions and characteristics: page 80.

DIN rail kit

- Set of 2 supports and 1 symmetrical DIN rail 35 x 7.5 mm.
- Adjustment of DIN rail on 25 mm pitch.
- Rear support allows a 20 mm space at the rear of the enclosure.
- Material: zinc steel.
- Direct fixing on back welded studs.
- Supplied with fixing screws.

For enclosure (mm)		Reference
Height	Width	
200	300	NSYAMRD2030
300	300	NSYAMRD3030
300	400	NSYAMRD3040
300	500	NSYAMRD3050

DIN rail terminal blocks



Description	Width (mm)	Screw connection	Spring connection
Passthrough, 2.5 mm ² , grey	5	AB1VV235U	AB1RRN235U2GR
Passthrough, 2.5 mm ² , blue	5	AB1VV235UBL	AB1RRN235U2BL
Protective earth, 2.5 mm ²	5	AB1TP235U	AB1RRNTP235U2



Specific

Our specific offer:
special dimensions and cut-outs.
Please contact us.

Steel wall-mounting enclosures

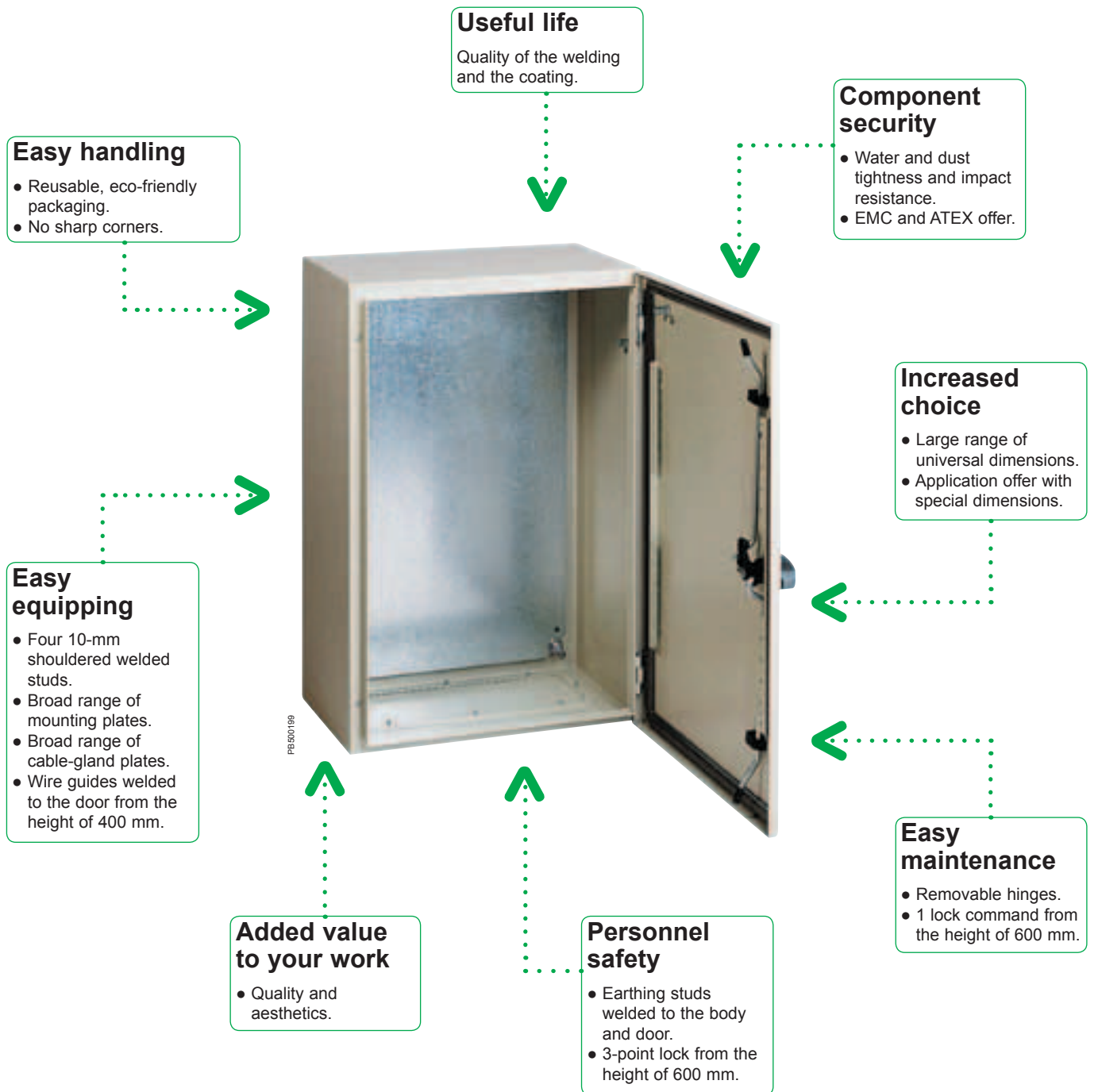
PEB00199



Spacial S3D Steel wall-mounting enclosures **58**

Introduction	62
Selection guide	68
Dimensions	75
Technical annexes	77
Accessories	79
Cable management	95

The steel enclosure developed to help you save time



Specific

Optimisation of your time: with our customisation services which provide the enclosure in your colours and with your cut-outs. Please consult us.



> Composition

- ① Wall fixing
- ② Floor-standing
- ③ Roof
- ④ Viewing

> Cable installation and management

- ⑤ Mounting
- ⑥ Cable entries
- ⑦ Cable management
- ⑧ Thermal management
- ⑨ Earthing



Save time by having your accessories mounted in the factory!
To find out more about our Configured offer, please contact us.



See also the accessories

Accessories selector pages 79

> Mounting & cabling systems

for setting up devices and managing cabling

> Thermal management

for controlling the internal temperature & humidity of the enclosure

Spacial® S3D

Steel enclosures



Time-saving & easy to equip

... with direct installation of the mounting plate.

Spacial S3D is designed to protect your equipment in most indoor installations with **harsh & dirty environments**, such as:

- Machines.
- Manufacturing plants.
- Logistics centers, etc.

3 Material Solutions

Steel

Stainless-steel

Polyester

Whatever the installation environment, you can select the material according to your needs: steel, stainless-steel or polyester. Our enclosures share the same sizes and most of the mounting, cabling and installation accessories, to make selection and mounting simpler!



Machines



Industry

Spacial S3X

Stainless-steel enclosures



Durable & hygienic

... using highly corrosion-resistant material with a detailed finish, to reduce the risk of contamination.

Spacial S3X is commonly used in:

- **Food & beverage** and **pharmaceutical industries**, where the ability to clean hard water is required to help prevent the growth of bacteria.
- The **oil & gas** industries, for its chemical resistance.

Thalassa™ PLM

Polyester enclosures



Safety & low maintenance

... thanks to its long-lasting and insulated material construction (Class II protection level from hazard).

Thalassa PLM offers excellent performance in:

- **Outdoor applications**, such as road & train infrastructures, airports and harbors, including saline environments.
- A good choice for harsh environments where non-corrosive materials are required.

+ Simple to choose,
simple to order and
ready to use!



Food & Beverage



Oil & Gas



Desalinization



Airport

Spacial S3D: the steel enclosure with the greatest range of available dimensions on the market!

A complete offer of 54 dimensions from 300 x 200 x 150 to 1400 x 1000 x 300:

- With plain door, without plain mounting plate.
- With plain door and plain mounting plate.
- With transparent door, without plain mounting plate.
- Protection degree of IP 66 for the single-door enclosure (IP 55 for enclosures with two doors).
- Resistance to mechanical impacts: IK 10 plain door and IK 08 glazed door.
- Compliance with enclosure standard EN 62208 and IEC 62208.
- A broad range of accessories to conform to all your applications.
- Range completed by the dimensions of the application steel enclosures.

steel



Discover our other ranges:
 Spacial S3X page 202.
 Thalassa PLM page 270.



For difficult atmospheres



- 10 references with plain door.
- Certified by the LCIE with n° LCIE02ATEX0037U and codicil n° LCIE02ATEX0037U/01.
- IP 66. Versions in stainless-steel and polyester also available.



- Manufactured from special ALUZINC 150 sheet.
- Good reflection of electro-magnetic waves.
- IP 55.

Customised Spacial steel enclosure offer

Introduction

Tailor-made enclosures with a range of efficient services

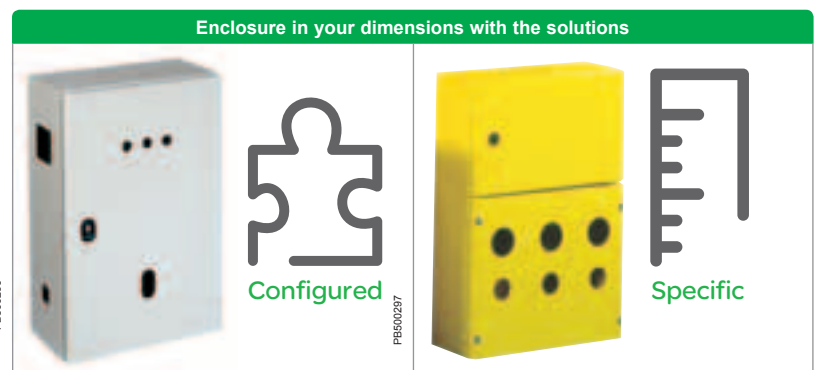
- Save time and devote yourself to cabling; we will perform your cut-outs and install your accessories.
- On request, the Spacial S3D enclosures can be delivered with:
 - Other colours.
 - Other dimensions.
 - Pre-installed accessories.
 - Machining.
 - Addition/removal of components.
 - Other finishes (beckryzinc, zinc chromate, metallisation, etc.).

Our advantages:

- Cut-out quality. Painting after the cut-outs have been made guarantees enhanced protection against corrosion.
- Industrial quality, maintaining the protection degree: the polyurethane gasket is applied after painting.
- Easy. A single order, a single delivery. We optimise your management and receipt of the equipment.

Discover our customised service:

- Configured offer: a service offer based on our standard offer.
- Specific offer: a service offer based on co-development with the customer.



Discover our communication tools for defining the products in our customised offer



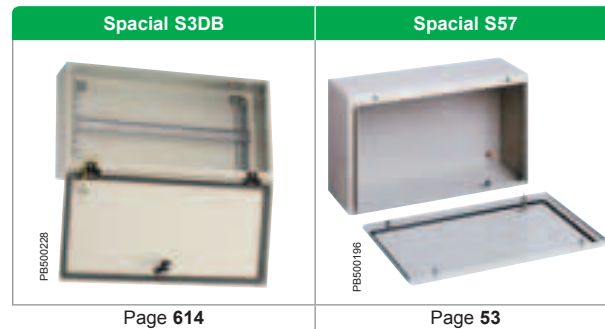
Download our DXF diagrams from our websites.

Spacial steel enclosure applicative offer

Introduction

Spacial S3DB

- 10 dimensions with a depth of 150 mm and plain door.
- Ready to be equipped with a ladder mounting plate and a symmetrical DIN rail (to be ordered separately).
- IP 66.



Spacial S3DM

- 8 dimensions with a depth of 150 mm and glazed door (plain door can be ordered separately).
- Ready for being equipped with a modular mounting plate (to be ordered separately).
- 10 references of mounting plates with 24 to 240 modules.
- Earth connection to be ordered separately.
- Top and bottom cable-gland plates.
- IP 66.



Spacial S3CM

- 8 dimensions for the control enclosures.
- 1 keyboard box.
- 1 system of arms and fixed or rotating joints, support and lighting accessories.
- IP 54.



Enclosure equipped with Spacial VDM 19" uprights

- 5 enclosures with fixed rack from 5 to 17 U.
- 5 enclosures with swing rack from 4 to 16 U.
- Ten 2-body enclosures, depths 400 and 500 mm.
- IP 66.



For difficult atmospheres

The universal offer

3 Material Solutions

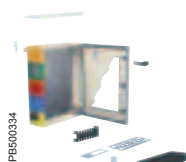
Steel

Stainless-steel

Plastic Polyester



See also the accessories



Accessories selector page 79

Select your range of Spacial S3D steel enclosures



You need an efficient sealed enclosure for an industrial facility.

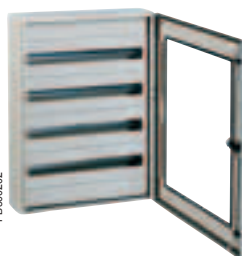
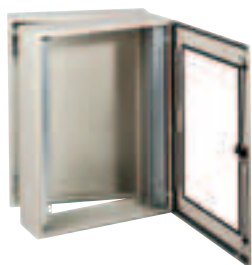
Our solution: the Spacial S3D universal offer.

The enclosure with the greatest range of available dimensions on the market!

A universal enclosure with a broad range of accessories to conform to all your applications.

IP 66 water and dust tightness.

• Selection guide, page 68.



You need an efficient sealed enclosure for a specific application: electronics, electricity distribution, etc.

Our solution: the Spacial S3D application offer.

Offers dimensioned for your applications

Application enclosures with dimensions suited to your applications with dedicated accessories.

Offer of functional enclosures suited to your applications.

• Selection guide, page 24.



You need an efficient sealed enclosure for an industrial facility with specific dimensions, colours or machining.

Our solution: the customised offer.

Dimensions suited to your needs

On request, the Spacial S3D enclosures can be delivered with:

- Other colours.
- Other dimensions.
- Pre-mounted accessories.
- Machining.
- Addition/removal of components.
- Other finishes (zinc chromate, metallisation, etc.).



Configured



Specific



You need an efficient sealed enclosure for an industrial facility with ATEX or EMC constraints.

Our solution: the offer for difficult environments.

Enclosures suited to different environments

ATEX environment, EMC, outdoor installation, etc.

IP 55 and IP 66 water and dust tightness.

Pages: 564, 580.





Environment	
In what type of environment will you be installing your products?	<ul style="list-style-type: none"> Indoor industrial environments, use steel. Indoor corrosive environments or with specific hygienic demands, use stainless-steel. Severe corrosive environments, indoor or outdoor, use polyester enclosures. Always think about the thermal issue. We have the right solution.
Is a canopy required?	A canopy is mandatory when liquid can fall on an enclosure. Our polyester enclosures (PLM and PLAT) are pre-equipped.
Technical requirements	
Are tightness and resistance to external mechanical impact needed in your case?	Each enclosure specifies its: <ul style="list-style-type: none"> Tightness: IP. Resistance to external mechanical impact: IK.
Have you any size-related installation constraints?	Check the dimensions of the enclosure: Height (H) x Width (W) x Depth (D) in mm.
What colours are available?	RAL 7035 is our standard on steel enclosures. RAL 7032 is used for polyester. Other colours are available on demand.
How do you install your enclosures?	Installation possible: <ul style="list-style-type: none"> On a wall. On the floor. On a post. Available accessories: <ul style="list-style-type: none"> Fixing lugs. Plinths. Post fixing devices. Reinforcement for heavy load.
Door	
Need to see inside the enclosure?	Choice of: <ul style="list-style-type: none"> Glazed doors. Acrylic windows. Control protection frames.
What type of lock do you want?	The type of lock is to be specified: <ul style="list-style-type: none"> Inserts. Keys. Padlocks.
Do you need an earth connection?	Electrical continuity by earthing braids or leads available as accessories.
How will you mount your raceways to the door? On the uprights? On the rails?	They can be fixed thanks to: <ul style="list-style-type: none"> Cable-duct supports. Door cross-rails. Cable ties.
Are doors opened for maintenance?	You may need: <ul style="list-style-type: none"> Door stops. Door switches.
Body or frame	
Where do the cables enter the enclosure from?	A large variety of cable entries available.
What functions should this cable-entry provide?	Our cable glands or membranes provide: <ul style="list-style-type: none"> Tightness. Cable supports.
Mounting accessories	
How will the equipment be installed inside your enclosure?	Several mounting plates according to your application: <ul style="list-style-type: none"> Plain. Micro-perforated (Telequick System). Perforated (Telequick System). Modular. 19".
Do you require cable accessories?	<ul style="list-style-type: none"> Cable ducts. Cable cross rails. Cable supports... ... are available, see our catalogue for more details.
Thermal	
Do you need to cool? Heat? Dry?	<ul style="list-style-type: none"> Ventilation louvers. Ventilation grilles. Forced ventilations. Resistance heaters. Thermostats. Calculations with ClimaSys software. Refer to our Thermal Control section.
Logistics and handling	
How do you handle the enclosures?	Thanks to eyebolts and lifting brackets.

Wall-mounting steel enclosures

Selection guide



Specifications						Spacial S3D				
Dimensions (1)			N° of doors	IP	Weight (kg)*	Plain door		Glazed door	Plain mounting plate	Silkscreened mounting plate (2)
						With mounting plate	Without mounting plate	Without mounting plate		
H	W	D				Page 72		Page 338		
300	200	150	1	66	3.02	NSYS3D3215P	NSYS3D3215		NSYMM32	
300	250	150	1	66	3.48	NSYS3D32515P	NSYS3D32515	NSYS3D32515T	NSYMM3025	
300	300	150	1	66	3.90	NSYS3D3315P	NSYS3D3315	NSYS3D3315T	NSYMM33	
300	300	200	1	66	4.50	NSYS3D3320P	NSYS3D3320	NSYS3D3320T	NSYMM33	
300	400	150	1	66	4.82	NSYS3D3415P	NSYS3D3415	NSYS3D3415T	NSYMM43	NSYMS43
300	400	200	1	66	5.60	NSYS3D3420P	NSYS3D3420	NSYS3D3420T	NSYMM43	NSYMS43
400	300	150	1	66	4.90	NSYS3D4315P	NSYS3D4315	NSYS3D4315T	NSYMM43	NSYMS43
400	300	200	1	66	5.00	NSYS3D4320P	NSYS3D4320	NSYS3D4320T	NSYMM43	NSYMS43
400	400	200	1	66	6.50	NSYS3D4420P	NSYS3D4420	NSYS3D4420T	NSYMM44	NSYMS44
400	600	200	1	66	10.50	NSYS3D4620P	NSYS3D4620	NSYS3D4620T	NSYMM64	NSYMS64
400	600	250	1	66	12.00	NSYS3D4625P	NSYS3D4625	NSYS3D4625T	NSYMM64	NSYMS64
500	300	200	1	66	7.50	NSYS3D5320P	NSYS3D5320	NSYS3D5320T	NSYMM53	NSYMS53
500	400	200	1	66	9.30	NSYS3D5420P	NSYS3D5420	NSYS3D5420T	NSYMM54	NSYMS54
500	400	250	1	66	10.20	NSYS3D5425P	NSYS3D5425	NSYS3D5425T	NSYMM54	NSYMS54
500	500	200	1	66	11.18	NSYS3D5520P	NSYS3D5520	NSYS3D5520T	NSYMM55	NSYMS55
500	500	250	1	66	12.06	NSYS3D5525P	NSYS3D5525	NSYS3D5525T	NSYMM55	NSYMS55
600	400	200	1	66	11.00	NSYS3D6420P	NSYS3D6420	NSYS3D6420T	NSYMM64	NSYMS64
600	400	250	1	66	12.00	NSYS3D6425P	NSYS3D6425	NSYS3D6425T	NSYMM64	NSYMS64
600	500	250	1	66	16.20	NSYS3D6525P	NSYS3D6525	NSYS3D6525T	NSYMM65	
600	600	200	1	66	14.00	NSYS3D6620P	NSYS3D6620	NSYS3D6620T	NSYMM66	NSYMS66
600	600	250	1	66	15.00	NSYS3D6625P	NSYS3D6625	NSYS3D6625T	NSYMM66	NSYMS66
600	600	300	1	66	17.00	NSYS3D6630P	NSYS3D6630	NSYS3D6630T	NSYMM66	NSYMS66
600	600	400	1	66	19.00	NSYS3D6640P	NSYS3D6640	NSYS3D6640T	NSYMM66	NSYMS66
600	800	300	1	66	25.50	NSYS3D6830P	NSYS3D6830	NSYS3D6830T	NSYMM86	NSYMS86
700	500	250	1	66	15.00	NSYS3D7525P	NSYS3D7525	NSYS3D7525T	NSYMM75	NSYMS75
800	600	200	1	66	21.00	NSYS3D8620P	NSYS3D8620	NSYS3D8620T	NSYMM86	NSYMS86
800	600	250	1	66	23.00	NSYS3D8625P	NSYS3D8625	NSYS3D8625T	NSYMM86	NSYMS86
800	600	300	1	66	25.00	NSYS3D8630P	NSYS3D8630	NSYS3D8630T	NSYMM86	NSYMS86
800	600	400	1	66	29.00	NSYS3D8640P	NSYS3D8640	NSYS3D8640T	NSYMM86	NSYMS86
800	800	250	1	66	30.00	NSYS3D8825P	NSYS3D8825	NSYS3D8825T	NSYMM88	
800	800	300	1	66	32.00	NSYS3D8830P	NSYS3D8830	NSYS3D8830T	NSYMM88	
800	1000	300	1	66	38.00	NSYS3D81030P	NSYS3D81030		NSYMM108	
800	1000	300	2	55	43.50	NSYS3D81030DP	NSYS3D81030D		NSYMM108	
800	1200	300	2	55	46.00	NSYS3D81230DP	NSYS3D81230D		NSYMM128	
1000	600	250	1	66	28.00	NSYS3D10625P	NSYS3D10625	NSYS3D10625T	NSYMM106	
1000	600	300	1	66	30.60	NSYS3D10630P	NSYS3D10630	NSYS3D10630T	NSYMM106	
1000	600	400	1	66	33.00	NSYS3D10640P	NSYS3D10640	NSYS3D10640T	NSYMM106	
1000	800	250	1	66	35.00	NSYS3D10825P	NSYS3D10825	NSYS3D10825T	NSYMM108	
1000	800	300	1	66	38.00	NSYS3D10830P	NSYS3D10830	NSYS3D10830T	NSYMM108	
1000	800	400	1	66	42.00	NSYS3D10840P	NSYS3D10840	NSYS3D10840T	NSYMM108	
1000	1000	300	1	66	46.00	NSYS3D101030P	NSYS3D101030	NSYS3D101030T	NSYMM1010	
1000	1000	300	2	55	46.00	NSYS3D101030DP	NSYS3D101030D	NSYS3D101030DT	NSYMM1010	
1000	1200	300	2	55	53.00	NSYS3D101230DP	NSYS3D101230D		NSYMM1210	
1000	1200	400	2	55	60.00	NSYS3D101240DP	NSYS3D101240D		NSYMM1210	
1200	600	300	1	66	37.00	NSYS3D12630P	NSYS3D12630	NSYS3D12630T	NSYMM126	
1200	600	400	1	66	42.00	NSYS3D12640P	NSYS3D12640	NSYS3D12640T	NSYMM126	
1200	800	300	1	66	45.00	NSYS3D12830P	NSYS3D12830	NSYS3D12830T	NSYMM128	
1200	800	400	1	66	49.00	NSYS3D12840P	NSYS3D12840	NSYS3D12840T	NSYMM128	
1200	1000	300	1	66	53.00	NSYS3D121030P	NSYS3D121030	NSYS3D121030T	NSYMM1210	
1200	1000	300	2	55	54.00	NSYS3D121030DP	NSYS3D121030D	NSYS3D121030DT	NSYMM1210	
1200	1000	400	2	55	61.00	NSYS3D121040DP	NSYS3D121040D		NSYMM1210	
1200	1200	300	2	55	64.00	NSYS3D121230DP	NSYS3D121230D		NSYMM1212	
1200	1200	400	2	55	90.00	NSYS3D121240DP	NSYS3D121240D		NSYMM1212	
1400	1000	300	2	55	80.00	NSYS3D141030DP	NSYS3D141030D		NSYMM1410	

(1) For other dimensions, see our application offer.
 (2) In inverted use, the marking is inverted.

*Enclosure without mounting plate.

Wall-fixing lugs
 Steel: NSYAEFPFSC
 Stainless steel: NSYAEFPFXSC
 Page 80

Reinforcement for heavy loads
 NSYAEFAHLBSC
 Page 80

Locking accessories
 Page 90



Mounting plate						Electricity distribution			
Micro-perforated mounting plate	Telequick mounting plate	Bakelite mounting plate	DIN rail chassis	Type	Aluminium vertical rails (3)	DLA Insulated modular chassis	DLM Steel modular chassis	N° of modules	Door cross-rails
Page 339	Page 340	Page 342	Page 343		Page 345	Page 287	Page 396		Page 454
NSYMF32	NSYMR32	NSYMB32			NSYMDVR3				
	NSYMR3025	NSYMB3025			NSYMDVR3				
NSYMF33	NSYMR33	NSYMB33	NSYMD33	B	NSYMDVR3				
NSYMF33	NSYMR33	NSYMB33	NSYMD33	B	NSYMDVR3				
NSYMF43	NSYMR34	NSYMB43			NSYMDVR3				
NSYMF43	NSYMR34	NSYMB43			NSYMDVR3				
NSYMF43	NSYMR43	NSYMB43	NSYMD43	B	NSYMDVR4		NSYDLM24	24	
NSYMF43	NSYMR43	NSYMB43	NSYMD43	B	NSYMDVR4	NSYDLA24	NSYDLM24	24	
NSYMF44	NSYMR44				NSYMDVR4				NSYTFPCR4
NSYMF64	NSYMR46	NSYMB64			NSYMDVR4				NSYTFPCR6
NSYMF64	NSYMR46	NSYMB64			NSYMDVR4				NSYTFPCR6
NSYMF53	NSYMR53				NSYMDVR5				
NSYMF54	NSYMR54	NSYMB54	NSYMD54	B	NSYMDVR5	NSYDLA48	NSYDLM48	48	NSYTFPCR4
NSYMF54	NSYMR54	NSYMB54	NSYMD54	B	NSYMDVR5		NSYDLM48	48	NSYTFPCR4
NSYMF55	NSYMR55				NSYMDVR5				NSYTFPCR5
NSYMF55	NSYMR55				NSYMDVR5				NSYTFPCR5
NSYMF64	NSYMR64	NSYMB64	NSYMD64	B	NSYMDVR6	NSYDLA48P	NSYDLM48P	48	NSYTFPCR4
NSYMF64	NSYMR64	NSYMB64	NSYMD64	B	NSYMDVR6	NSYDLA48P	NSYDLM48P	48	NSYTFPCR4
NSYMF65	NSYMR65	NSYMB65			NSYMDVR6				
NSYMF66	NSYMR66		NSYMD66	A	NSYMDVR6		NSYDLM84P	84	NSYTFPCR6
NSYMF66	NSYMR66		NSYMD66	A	NSYMDVR6		NSYDLM84P	84	NSYTFPCR6
NSYMF66	NSYMR66		NSYMD66	A	NSYMDVR6		NSYDLM84P	84	NSYTFPCR6
NSYMF66	NSYMR66		NSYMD66	A	NSYMDVR6		NSYDLM84P	84	NSYTFPCR6
NSYMF86	NSYMR86	NSYMB86	NSYMD86	A	NSYMDVR6				NSYTFPCR8
NSYMF75	NSYMR75	NSYMB75	NSYMD75	B	NSYMDVR7	NSYDLA66	NSYDLM66	66	NSYTFPCR5
NSYMF86	NSYMR86	NSYMB86	NSYMD86	A	NSYMDVR8	NSYDLA84/NSYDLA112	NSYDLM84	84*	NSYTFPCR6
NSYMF86	NSYMR86	NSYMB86	NSYMD86	A	NSYMDVR8	NSYDLA84/NSYDLA112	NSYDLM112	112*	NSYTFPCR6
NSYMF86	NSYMR86	NSYMB86	NSYMD86	A	NSYMDVR8	NSYDLA84/NSYDLA112	NSYDLM112	112*	NSYTFPCR6
NSYMF86	NSYMR86	NSYMB86	NSYMD86	A	NSYMDVR8	NSYDLA84/NSYDLA112	NSYDLM112	112*	NSYTFPCR6
NSYMF88	NSYMR88				NSYMDVR8				NSYTFPCR8
NSYMF88	NSYMR88				NSYMDVR8				NSYTFPCR8
NSYMF108	NSYMR810	NSYMB108			NSYMDVR8				NSYTFPCR10
NSYMF108	NSYMR810	NSYMB108			NSYMDVR8				NSYTFPCR10
NSYMF128	2 x NSYMR86+	2 x NSYMB86+	2 x NSYMD86+	A	NSYMDVR8				
NSYMF106	NSYMR106	NSYMB106			NSYMDVR10		NSYDLM168	168**	NSYTFPCR6
NSYMF106	NSYMR106	NSYMB106			NSYMDVR10		NSYDLM168	168**	NSYTFPCR6
NSYMF106	NSYMR106	NSYMB106			NSYMDVR10		NSYDLM168	168**	NSYTFPCR6
NSYMF108	NSYMR108	NSYMB108	NSYMD108	A	NSYMDVR10	NSYDLA234	NSYDLM240	240	NSYTFPCR8
NSYMF108	NSYMR108	NSYMB108	NSYMD108	A	NSYMDVR10	NSYDLA234	NSYDLM240	240	NSYTFPCR8
NSYMF108	NSYMR108	NSYMB108	NSYMD108	A	NSYMDVR10	NSYDLA234	NSYDLM240	240	NSYTFPCR8
NSYMF1010	NSYMR1010 (4)				NSYMDVR10				NSYTFPCR10
NSYMF1010	NSYMR1010 (4)				NSYMDVR10				NSYTFPCR10
NSYMF1210	NSYMR1012 (4)	NSYMB1210			NSYMDVR10				
NSYMF1210	NSYMR1012 (4)	NSYMB1210			NSYMDVR10				
NSYMF126					NSYMDVR12				
NSYMF126					NSYMDVR12				
NSYMF128	NSYMR128		NSYMD128	A	NSYMDVR12				NSYTFPCR8
NSYMF128	NSYMR128		NSYMD128	A	NSYMDVR12				NSYTFPCR8
NSYMF1210	NSYMR1210 (4)	NSYMB1210			NSYMDVR12				NSYTFPCR10
NSYMF1210	NSYMR1210 (4)	NSYMB1210			NSYMDVR12				NSYTFPCR10
NSYMF1210	NSYMR1210 (4)	NSYMB1210			NSYMDVR12				NSYTFPCR10
2 x NSYMF126+	2 x NSYMR126+				NSYMDVR12				
2 x NSYMF126+	2 x NSYMR126+				NSYMDVR12				
	NSYMR1410 (4)				NSYMDVR12				

+ Order **NSYCRNGSDR** for double mounting of the mounting plates.

(3) Order nuts ref. **NSYAMCSF**. Steel siderail ref. **NSYMDVR12**.

(4) When width ≥ 1000 ref. **NSYEMR** is mandatory (see on page 77).

* Possible assembling to ref. NSYDLM84P or NSYDLM112.

** Possible assembling to ref. NSYDLM168 or NSYDLM240.

Door accessories
Pages 486 and 482

Clip-on nuts
Page 391

Self-tapping screw
ref. **NSYS13M5HS**
Page 391

Wall-mounting steel enclosures

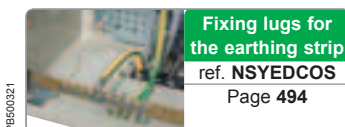
Selection guide



Dimensions (5)			Electronics and networks				Cable-entry accessories				Internal door (7)	Step slides
			19" racks				Cable-gland plates					
			Fixed	Number of U	Swing	Number of U	Entry type	Standard steel	Aluminium	Steel with cut-out for FL membrane (6)		
H	W	D	Page 630				Page 96	Page 97	Page 97	Page 98	Page 94	Page 344
300	200	150					A	NSYTLA	NSYTLAU			
300	250	150					A	NSYTLA	NSYTLAU			
300	300	150					B	NSYTLB	NSYTLBU	NSYTLBFL		
300	300	200					C	NSYTLC	NSYTLCU	NSYTLCFL		NSYSDCR200
300	400	150					B	NSYTLB	NSYTLBU	NSYTLBFL		
300	400	200					D	NSYTLD	NSYTLDU	NSYTLDFL		NSYSDCR200
400	300	150					B	NSYTLB	NSYTLBU	NSYTLBFL	NSYPIN43	
400	300	200					C	NSYTLC	NSYTLCU	NSYTLCFL	NSYPIN43	NSYSDCR200
400	400	200					D	NSYTLD	NSYTLDU	NSYTLDFL		NSYSDCR200
400	600	200	NSYVDM8UF	8	NSYVDM7UP	7	F	NSYTLF	NSYTLFU	NSYTLFFL		NSYSDCR200
400	600	250	NSYVDM8UF	8	NSYVDM7UP	7	F	NSYTLF	NSYTLFU	NSYTLFFL		NSYSDCR250
500	300	200					C	NSYTLC	NSYTLCU	NSYTLCFL		NSYSDCR200
500	400	200					D	NSYTLD	NSYTLDU	NSYTLDFL	NSYPIN54	NSYSDCR200
500	400	250					D	NSYTLD	NSYTLDU	NSYTLDFL	NSYPIN54	NSYSDCR250
500	500	200					E	NSYTLE	NSYTLEU	NSYTLEFL		NSYSDCR200
500	500	250					E	NSYTLE	NSYTLEU	NSYTLEFL		NSYSDCR250
600	400	200					D	NSYTLD	NSYTLDU	NSYTLDFL	NSYPIN64	NSYSDCR200
600	400	250					D	NSYTLD	NSYTLDU	NSYTLDFL	NSYPIN64	NSYSDCR250
600	500	250					E	NSYTLE	NSYTLEU	NSYTLEFL		NSYSDCR250
600	600	200	NSYVDM12UF	12	NSYVDM11UP	11	F	NSYTLF	NSYTLFU	NSYTLFFL		NSYSDCR200
600	600	250	NSYVDM12UF	12	NSYVDM11UP	11	F	NSYTLF	NSYTLFU	NSYTLFFL		NSYSDCR250
600	600	300	NSYVDM12UF	12	NSYVDM11UP	11	G	NSYTLG	NSYTLGU	NSYTLG2FL**		NSYSDCR300
600	600	400	NSYVDM12UF	12	NSYVDM11UP	11	G	NSYTLG	NSYTLGU	NSYTLG2FL**		NSYSDCR400
600	800	300					D*	NSYTLD	NSYTLDU	NSYTLDFL		NSYSDCR300
700	500	250					E	NSYTLE	NSYTLEU	NSYTLEFL	NSYPIN75	NSYSDCR250
800	600	200	NSYVDM17UF	17	NSYVDM16UP	16	F	NSYTLF	NSYTLFU	NSYTLFFL	NSYPIN86	NSYSDCR200
800	600	250	NSYVDM17UF	17	NSYVDM16UP	16	F	NSYTLF	NSYTLFU	NSYTLFFL	NSYPIN86	NSYSDCR250
800	600	300	NSYVDM17UF	17	NSYVDM16UP	16	G	NSYTLG	NSYTLGU	NSYTLG2FL**	NSYPIN86	NSYSDCR300
800	600	400	NSYVDM17UF	17	NSYVDM16UP	16	G	NSYTLG	NSYTLGU	NSYTLG2FL**	NSYPIN86	NSYSDCR400
800	800	250					D*	NSYTLD	NSYTLDU	NSYTLDFL		NSYSDCR250
800	800	300					D*	NSYTLD	NSYTLDU	NSYTLDFL		NSYSDCR300
800	1000	300					E*	NSYTLE	NSYTLEU	NSYTLEFL		NSYSDCR300
800	1000	300					E*	NSYTLE	NSYTLEU	NSYTLEFL		NSYSDCR300
800	1200	300					E*	NSYTLE	NSYTLEU	NSYTLEFL		NSYSDCR300*
1000	600	250	NSYVDM21UF	21	NSYVDM20UP	20	F	NSYTLF	NSYTLFU	NSYTLFFL	NSYPIN106	NSYSDCR250
1000	600	300	NSYVDM21UF	21	NSYVDM20UP	20	G	NSYTLG	NSYTLGU	NSYTLG2FL**	NSYPIN106	NSYSDCR300
1000	600	400	NSYVDM21UF	21	NSYVDM20UP	20	G	NSYTLG	NSYTLGU	NSYTLG2FL**	NSYPIN106	NSYSDCR400
1000	800	250			NSYVDM20U8P	20	D*	NSYTLD	NSYTLDU	NSYTLDFL	NSYPIN108	NSYSDCR250
1000	800	300			NSYVDM20U8P	20	D*	NSYTLD	NSYTLDU	NSYTLDFL	NSYPIN108	NSYSDCR300
1000	800	400			NSYVDM20U8P	20	D*	NSYTLD	NSYTLDU	NSYTLDFL	NSYPIN108	NSYSDCR400
1000	1000	300					E*	NSYTLE	NSYTLEU	NSYTLEFL		NSYSDCR300
1000	1000	300					E*	NSYTLE	NSYTLEU	NSYTLEFL		NSYSDCR300
1000	1200	300					E*	NSYTLE	NSYTLEU	NSYTLEFL		NSYSDCR300*
1000	1200	400					E*	NSYTLE	NSYTLEU	NSYTLEFL		NSYSDCR400*
1200	600	300					G	NSYTLG	NSYTLGU	NSYTLG2FL**	NSYPIN126	NSYSDCR300
1200	600	400					G	NSYTLG	NSYTLGU	NSYTLG2FL**	NSYPIN126	NSYSDCR400
1200	800	300			NSYVDM25U8P	25	D*	NSYTLD	NSYTLDU	NSYTLDFL	NSYPIN128	NSYSDCR300
1200	800	400			NSYVDM25U8P	25	D*	NSYTLD	NSYTLDU	NSYTLDFL	NSYPIN128	NSYSDCR400
1200	1000	300					E*	NSYTLE	NSYTLEU	NSYTLEFL		NSYSDCR300
1200	1000	300					E*	NSYTLE	NSYTLEU	NSYTLEFL		NSYSDCR300
1200	1000	400					E*	NSYTLE	NSYTLEU	NSYTLEFL		NSYSDCR400
1200	1200	300					E*	NSYTLE	NSYTLEU	NSYTLEFL		NSYSDCR300*
1200	1200	400					E*	NSYTLE	NSYTLEU	NSYTLEFL		NSYSDCR400*
1400	1000	300					E*	NSYTLE	NSYTLEU	NSYTLEFL		NSYSDCR300

(5) For other dimensions, see our application offer, page 24.
 (6) FL13 for entry type A and B
 FL21 for all other entries.
 (7) To adjust the depth of the internal door, please order the step slides.

* 2 plates.
 ** Exists with 1 cut-out NSYTLGFL.



Spacial S3D



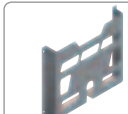
Composition accessories

Canopy	Fixing on post	Full width wall fixing lugs	Lateral plinth**		Plain front plinth (8)**		Support pillar adaptation plate	Support pillar	Floor stand kit for wall mounting	
			100 mm	200 mm	100 mm	200 mm			300 mm	400 mm
Page 89	Page 83		Page 86				Page 84	Page 87		
NSYTJ2015		NSYAEFFFS3DW20								
NSYTJ2515										
NSYTJ3015	NSYSFPSC30	NSYAEFFFS3DW30					NSYAEFP315S3D	NSYCOCN80		
NSYTJ3020	NSYSFPSC30	NSYAEFFFS3DW30					NSYAEFP32S3D	NSYCOCN80		
NSYTJ4015	NSYSFPSC40	NSYAEFFFS3DW40					NSYAEFP315S3D	NSYCOCN80		
NSYTJ4020	NSYSFPSC40	NSYAEFFFS3DW40					NSYAEFP42S3D	NSYCOCN80		
NSYTJ3015	NSYSFPSC30	NSYAEFFFS3DW30					NSYAEFP315S3D	NSYCOCN80		
NSYTJ3020	NSYSFPSC30	NSYAEFFFS3DW30					NSYAEFP32S3D	NSYCOCN80		
NSYTJ4020	NSYSFPSC40	NSYAEFFFS3DW40					NSYAEFP42S3D	NSYCOCN80		
NSYTJ6020	NSYSFPSC60	NSYAEFFFS3DW60								
NSYTJ6025	NSYSFPSC60	NSYAEFFFS3DW60								
NSYTJ3020	NSYSFPSC30	NSYAEFFFS3DW30					NSYAEFP32S3D	NSYCOCN80		
NSYTJ4020	NSYSFPSC40	NSYAEFFFS3DW40					NSYAEFP42S3D	NSYCOCN80		
NSYTJ4025	NSYSFPSC40	NSYAEFFFS3DW40					NSYAEFP42S3D	NSYCOCN80		
NSYTJ5020	NSYSFPSC50	NSYAEFFFS3DW50								
NSYTJ5025	NSYSFPSC50	NSYAEFFFS3DW50								
NSYTJ4020	NSYSFPSC40	NSYAEFFFS3DW40					NSYAEFP42S3D	NSYCOCN80		
NSYTJ4025	NSYSFPSC40	NSYAEFFFS3DW40					NSYAEFP42S3D	NSYCOCN80		
NSYTJ5025	NSYSFPSC50	NSYAEFFFS3DW50								
NSYTJ6020	NSYSFPSC60	NSYAEFFFS3DW60								
NSYTJ6025	NSYSFPSC60	NSYAEFFFS3DW60								
NSYTJ6030	NSYSFPSC60	NSYAEFFFS3DW60	NSYSPS3100SD	NSYSPS3200SD	NSYSPF6100	NSYSPF6200				
NSYTJ6040	NSYSFPSC60	NSYAEFFFS3DW60	NSYSPS4100SD	NSYSPS4200SD	NSYSPF6100	NSYSPF6200				
NSYTJ8030	NSYSFPSC80	NSYAEFFFS3DW80	NSYSPS3100SD	NSYSPS3200SD	NSYSPF8100	NSYSPF8200				
NSYTJ5025	NSYSFPSC50	NSYAEFFFS3DW50								
NSYTJ6020	NSYSFPSC60	NSYAEFFFS3DW60								
NSYTJ6025	NSYSFPSC60	NSYAEFFFS3DW60								
NSYTJ6030	NSYSFPSC60	NSYAEFFFS3DW60	NSYSPS3100SD	NSYSPS3200SD	NSYSPF6100	NSYSPF6200				
NSYTJ6040	NSYSFPSC60	NSYAEFFFS3DW60	NSYSPS4100SD	NSYSPS4200SD	NSYSPF6100	NSYSPF6200				
NSYTJ8025	NSYSFPSC80	NSYAEFFFS3DW80								
NSYTJ8030	NSYSFPSC80	NSYAEFFFS3DW80	NSYSPS3100SD	NSYSPS3200SD	NSYSPF8100	NSYSPF8200				
NSYTJ10030		NSYAEFFFS3DW100	NSYSPS3100SD	NSYSPS3200SD	NSYSPF10100	NSYSPF10200			NSYWWMK33	NSYWWMK34
NSYTJ10030		NSYAEFFFS3DW100	NSYSPS3100SD	NSYSPS3200SD	NSYSPF10100	NSYSPF10200			NSYWWMK33	NSYWWMK34
NSYTJ12030		NSYAEFFFS3DW120								
NSYTJ6025		NSYAEFFFS3DW60								
NSYTJ6030		NSYAEFFFS3DW60	NSYSPS3100SD	NSYSPS3200SD	NSYSPF6100	NSYSPF6200				
NSYTJ6040		NSYAEFFFS3DW60	NSYSPS4100SD	NSYSPS4200SD	NSYSPF6100	NSYSPF6200				
NSYTJ8025		NSYAEFFFS3DW80								
NSYTJ8030		NSYAEFFFS3DW80	NSYSPS3100SD	NSYSPS3200SD	NSYSPF8100	NSYSPF8200			NSYWWMK33	NSYWWMK34
NSYTJ8040		NSYAEFFFS3DW80	NSYSPS4100SD	NSYSPS4200SD	NSYSPF8100	NSYSPF8200			NSYWWMK43	NSYWWMK44
NSYTJ10030		NSYAEFFFS3DW100	NSYSPS3100SD	NSYSPS3200SD	NSYSPF10100	NSYSPF10200			NSYWWMK33	NSYWWMK34
NSYTJ10030		NSYAEFFFS3DW100	NSYSPS3100SD	NSYSPS3200SD	NSYSPF10100	NSYSPF10200			NSYWWMK33	NSYWWMK34
NSYTJ12030		NSYAEFFFS3DW120	NSYSPS3100SD	NSYSPS3200SD	NSYSPF12100	NSYSPF12200			NSYWWMK33	NSYWWMK34
NSYTJ12040		NSYAEFFFS3DW120	NSYSPS4100SD	NSYSPS4200SD	NSYSPF12100	NSYSPF12200			NSYWWMK43	NSYWWMK44
NSYTJ6030		NSYAEFFFS3DW60	NSYSPS3100SD	NSYSPS3200SD	NSYSPF6100	NSYSPF6200				
NSYTJ6040		NSYAEFFFS3DW60	NSYSPS4100SD	NSYSPS4200SD	NSYSPF6100	NSYSPF6200				
NSYTJ8030		NSYAEFFFS3DW80	NSYSPS3100SD	NSYSPS3200SD	NSYSPF8100	NSYSPF8200			NSYWWMK33	NSYWWMK34
NSYTJ8040		NSYAEFFFS3DW80	NSYSPS4100SD	NSYSPS4200SD	NSYSPF8100	NSYSPF8200			NSYWWMK43	NSYWWMK44
NSYTJ10030		NSYAEFFFS3DW100	NSYSPS3100SD	NSYSPS3200SD	NSYSPF10100	NSYSPF10200			NSYWWMK33	NSYWWMK34
NSYTJ10030		NSYAEFFFS3DW100	NSYSPS3100SD	NSYSPS3200SD	NSYSPF10100	NSYSPF10200			NSYWWMK43	NSYWWMK44
NSYTJ10040		NSYAEFFFS3DW100	NSYSPS4100SD	NSYSPS4200SD	NSYSPF10100	NSYSPF10200			NSYWWMK43	NSYWWMK44
NSYTJ12030		NSYAEFFFS3DW120	NSYSPS3100SD	NSYSPS3200SD	NSYSPF12100	NSYSPF12200			NSYWWMK33	NSYWWMK34
NSYTJ12040		NSYAEFFFS3DW120	NSYSPS4100SD	NSYSPS4200SD	NSYSPF12100	NSYSPF12200			NSYWWMK43	NSYWWMK44
NSYTJ10030		NSYAEFFFS3DW100	NSYSPS3100SD	NSYSPS3200SD	NSYSPF10100	NSYSPF10200			NSYWWMK33	NSYWWMK34

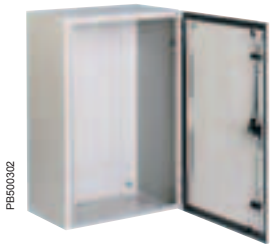
(8) Also available in ventilated version with cable gland for widths of 600 and 800, see page 151.

*For the double mounting plates, order also ref. **NSYSDRSDCR300** (D300) or **NSYSDRSDCR400** (D400).

To install the plinth to a wall-mounting enclosure, order ref. **NSYAPFWM.

 Plastic document pocket
Page 483

 Earth cables
Page 492



Single-door enclosure.



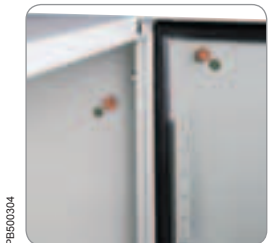
Double-door enclosure.



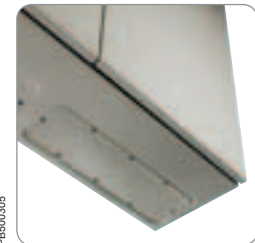
Enclosure with galvanised plain mounting plate.



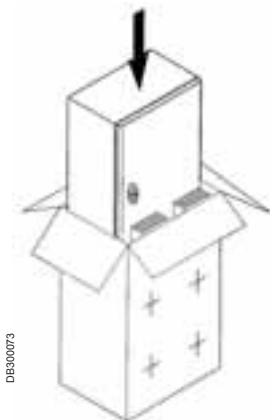
Enclosure with glazed door.



Welded studs for the earth connection.



Cable-gland plate with marking.



Delivered in a reusable cardboard box with assembly instructions enclosed and wall-mounting template on the cardboard.



Double-bar lock.

The Spacial S3D steel enclosure universal offer.

Three steel enclosure definitions are available:

- Enclosure with plain door.
- Enclosure with plain door delivered with a galvanised plain mounting plate, not installed.
- Enclosure with glazed door, 4-mm-thick Securit® glass.

Structured finish, epoxy-polyester powder, RAL 7035 grey colour.

- Selection guide, page 68.

Technical description:

Enclosure body:

- Single-piece body (cross-shaped structure). Gutter-shaped front profile with double fold. Flat rear.
- 4 (or 6**) M8 x 25 shouldered backstuds for installing mounting plates and step slides, leaving a space of 10 mm behind them.
- M6 x 16 earthing screws for equipotential connection between the door and the body of the enclosure.
- Cable-gland plate with marking for easy drilling and to guarantee the maximum access surface; delivered with the enclosure. This plate is flush with the body of the enclosure (detail and other options on page 96).
- Direct wall-mounting (4 Ø 10 holes for the sealing plugs guaranteeing the IP) or with the help of fixing lugs installed from the outside (to be ordered separately, see page 80).

Enclosure door:

- Wall-mounting enclosure supplied with 3-mm double-bar lock as standard.
- Polyurethane door gasket.
- M6 x 16 earthing screws for equipotential connection between the door and the body of the enclosure.
- Easily removable and reversible, with 20-mm return with double thickness granting excellent rigidity, opening to 120°, equipped with 2 or 3 invisible hinges*.
- Door opening to 180° with optional hinges (page 93).
- For heights from 600 mm, three locking points with linkage, with a single control point. Simple reversal of linkage. Maximum load: 50 kg/m².
- A handle is delivered which provides 2 functions:
 - Operating key.
 - Tool for loosening the stud protection caps. This handle can be solidly attached to the locking system by means of a captive element.
- Perforated rails on the door, with drill holes with a diameter of 4.2 mm in steps of 25 mm:
 - 2 vertical rails from the height of 400 mm,
 - 2 vertical rails and 2 horizontal rails from the width of 800 mm.

* From the height of 800 mm.

** Widths of 1000 and 1200 mm.

Standards

Compliance with enclosure standards IEC 62208, UL, CUL, BV, DNV, GL, ATEX (modified enclosure).

The Spacial S3D wall-mounting enclosures are compliant with the RoHS directive.

Certifications

Certification table, page 792.



Our certificates can be downloaded from our website.

PB500307



PB500308



PB500309



PB500310



Our empty enclosures are marked CE according to the Low-Voltage Directive (LVD). It is the responsibility of the final equipment manufacturer to respect the regulations in force.

Technical characteristics

Protection degree:

- IP 66 for the single-door enclosures and IP 55 for the double-door enclosures, according to IEC 60529.
- Nema Type 4, 4X for the single-door enclosures and Nema Type 12, 12K, 13 for the double-door enclosures according to NEMA 250 standard. Information on NEMA & UL classification on pages **796** and **797**.

Resistance to external mechanical impacts:

- IK 10 for the plain-door enclosures, according to IEC 62262.
- IK 08 for the glazed-door enclosures.

Mechanical characteristics

Fixing of mounting accessories

- 4 (or 6**) M8 x 25 shouldered backstuds for installing mounting plates and step slides, leaving a space of 10 mm behind them.
- ** 6 studs for widths 1000 and 1200 (see pages **77** and **78**).

Personnel protection

Earth connection: Spacial S3D steel enclosures are equipped with M6 x 16 earth studs welded in the body and the door for equipotential connection. Earth braid to be ordered separately (see page **492**).

Closing the enclosure: the enclosures are equipped from the height of 600 mm with three locking points with linkage, with a single control point, preventing the enclosures from being left ajar. Locks and inserts, page **90**.

Coating properties

Colour: RAL 7035 grey; finish: structured.

Coating thickness: 60 µm.

Fire class: M0.

Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure.

Note: the Spacial S3D is specially designed for indoor installations. For outdoor installations, it is advisable to install a canopy or consult us.

Nuclear decontamination: RAL 7035 and AFNOR A550 tests available on demand. More information on coating properties on pages **798** and **799**.



For further information, see the Technical Annexes on page **792**.

PB500311



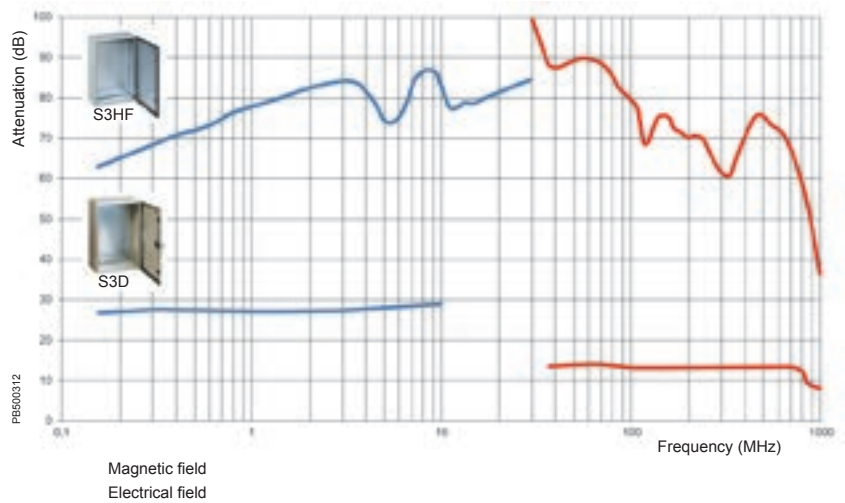
EMC protection

Standard Spacial S3D enclosures are tested against electromagnetic disruptions. Since the enclosure is tested empty, it is advisable to rerun the tests with the enclosure completely equipped in its final configuration.

Earth braids to be ordered separately, see page 492.

Another solution and information on electromagnetic compatibility: Spacial S3HF enclosure, page 580.

Attenuation curve of the Spacial S3D compared with the Spacial S3HF



PB500312



Frequency: 3 - 13.2 Hz
 Amplitude: 1 mm/sec below 22 Hz
 Frequency: 3 - 100 Hz
 Acceleration: 0.7 g above 30 Hz

Vibration constraints

Specific construction of the Spacial S3D - Single-piece body (cross-shaped structure). The rear is flat without added parts - this allows it to comply with certain vibration constraints.

The tests were conducted according to the "rules for ships" by "Det Norske Veritas". Enclosures labelled "DNV" have undergone these tests and obtained classification "A". Since the enclosure is tested empty, it is advisable to rerun the tests with the enclosure completely equipped in its final configuration.

ATEX compliance

The Spacial S3D enclosure (with adaptation) is certified ATEX by the LCIE. Spacial S3DEX enclosure, page 564 consult us.



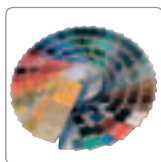
PB501005

Environnemental consideration

Compliance with RoHS standard.



Specific



PB501688

Paints



PB500359

Holes & Cutouts



PB501690

Mounting



PB501691

Construction changes



PB501692

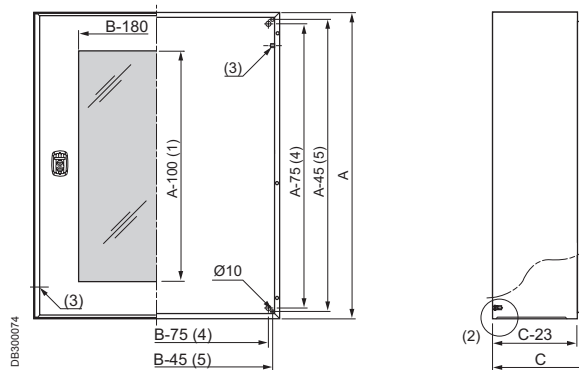
Accessories

A: Enclosure height
 B: Enclosure width
 C: Enclosure depth

Enclosure (mm)		Cable-gland plate					
Width	Depth	Dimensions (mm)	Type	N°	J	K	L
200 - 250	150 - 250	140 x 80	A	1	57	115	55
300 - 400	150	245 x 80	B	1	57	220	55
300	200	245 x 130	C	1	80	220	105
400	200 - 250	345 x 130	D	1	80	320	105
500	200 - 250	445 x 130	E	1	80	420	105
600	200 - 250	545 x 130	F	1	80	520	105
600	300 - 400	495 x 220	G	1	126*	470	195
800	250 - 300 - 400	345 x 130	D	2	95	320	105
1000 - 1200	300 - 400	445 x 130	E	2	95	420	105

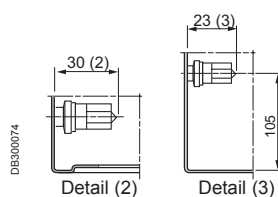
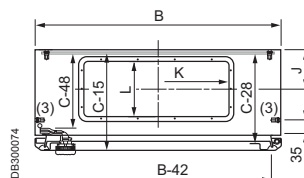
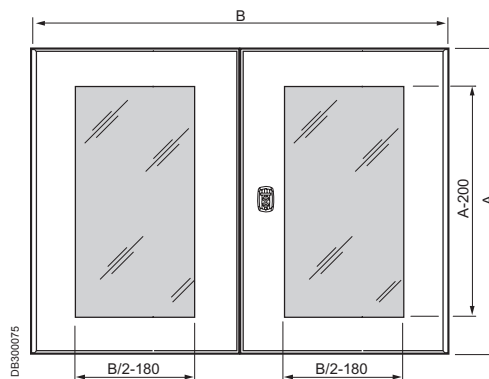
* Except enclosure 1000 x 600 x 400 mm, J = 140 mm.

1-door enclosure



- (1) A-200 from the height of 800 mm.
- (2) 4 or 6 (widths 1000 - 1200 mm) M8 x 25 mm backstuds.
- (3) 2 M6 x 17.5 mm earthing studs.
- (4) Stud centre-to-centre distance.
- (5) Centre-to-centre distance of the holes for direct fixing.

2-door enclosure

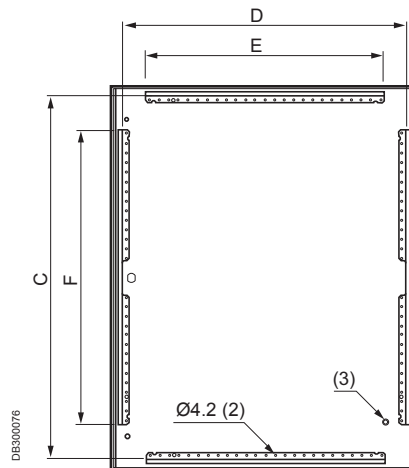


The DXF diagrams can be downloaded from our websites.

Perforated rails on plain door (1)

Enclosure (*) (mm)		Perforated rails on the door (mm)				Perforated rails on the double door (mm)				Perforated rails on the internal door (mm)			
Height	Width	Vertical		Horizontal		Vertical		Horizontal		Vertical		Horizontal	
		F	D	E	C	F	D	E	C	F	D	E	C
400	300	320	237	-	-	-	-	-	-	-	-	-	-
400	400	320	337	-	-	-	-	-	-	-	-	-	-
400	600	320	537	-	-	-	-	-	-	-	-	-	-
500	300	370	237	-	-	-	-	-	-	-	-	-	-
500	400	370	337	-	-	-	-	-	-	-	-	-	-
500	500	370	437	-	-	-	-	-	-	-	-	-	-
600	400	370	337	-	-	-	-	-	-	-	-	-	-
600	500	370	437	-	-	-	-	-	-	-	-	-	-
600	600	370	537	-	-	-	-	-	-	-	-	-	-
600	800	370	737	-	-	-	-	-	-	-	-	-	-
700	500	470	437	-	-	-	-	-	-	-	-	-	-
800	600	570	537	-	-	-	-	-	-	-	-	-	-
800	800	570	737	620	749	-	-	-	-	-	-	-	-
800	1000	570	937	820	749	570	437	320	749	620	437	320	749
800	1200	-	-	-	-	570	537	420	749	620	537	420	749
1000	600	770	537	420	949	-	-	-	-	-	-	-	-
1000	800	770	737	620	949	-	-	-	-	-	-	-	-
1000	1000	770	937	820	949	770	437	320	949	820	437	320	949
1000	1200	-	-	-	-	770	537	420	949	820	537	420	949
1200	600	970	537	420	1149	-	-	-	-	-	-	-	-
1200	800	970	737	620	1149	-	-	-	-	-	-	-	-
1200	1000	970	937	820	1149	970	437	320	1149	1020	437	320	1149
1200	1200	-	-	-	-	970	537	420	1149	1020	537	420	1149
1400	1000	-	-	-	-	970	437	320	1349	1020	437	320	1349

(*) The doors of enclosures with dimensions of less than 800 x 600 mm do not have horizontal cable guides.



- (1) The glazed doors are equipped with a vertical cable guide, on the hinge side.
- (2) Perforations in steps of 25 mm.
- (3) 1 M6 x 17.5 mm earthing stud.



Download the configuration sheets and DXF diagrams from
www.schneider-electric.com
 Send them back to your local Schneider office
 Take advantage of a shorter delivery time!

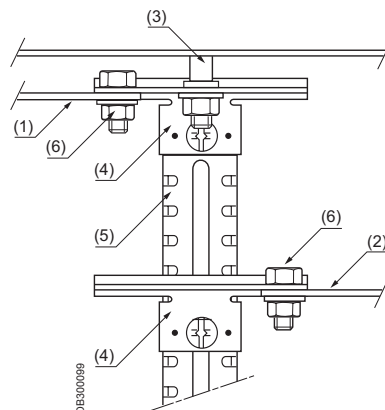
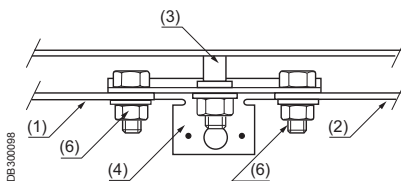


Installation of 2 mounting plates in the enclosures with width of 1000 or 1200 mm and depth of 300 or 400 mm

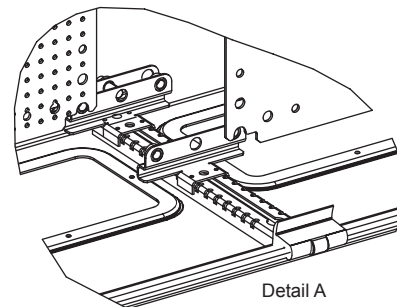
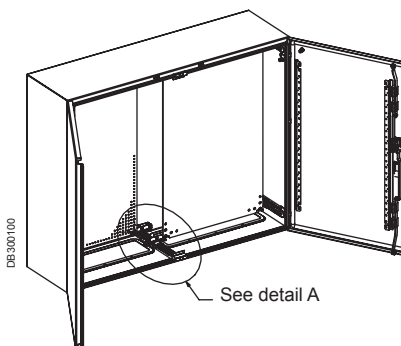
Step slides, page 344.

1. On the 6 backstuds

2. Two offset mounting plates with depthwise adjustment

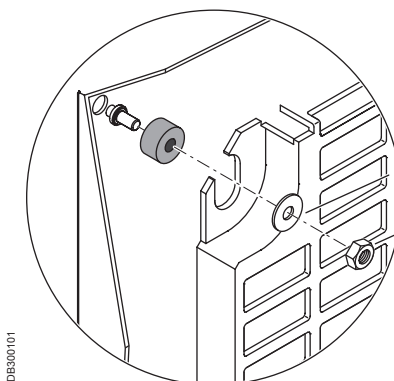
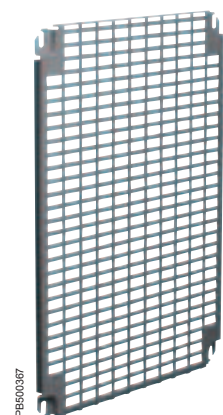


- (1) Left mounting plate.
- (2) Right mounting plate.
- (3) Central backstud.
- (4) Bracket ref. **NSYCRNGSDR** with 2 M8 x 20 mm screws.
- (5) Step slide ref. **NSYSDRSDCR300** (depth 300), **NSYSDRSDCR400** (depth 400).
- (6) M8 x 20 mm screw.



Installation of Telequick™ mounting plates

Spacers for raising the mounting plate in the enclosures equipped with 6 studs.



Reference
NSYEMR



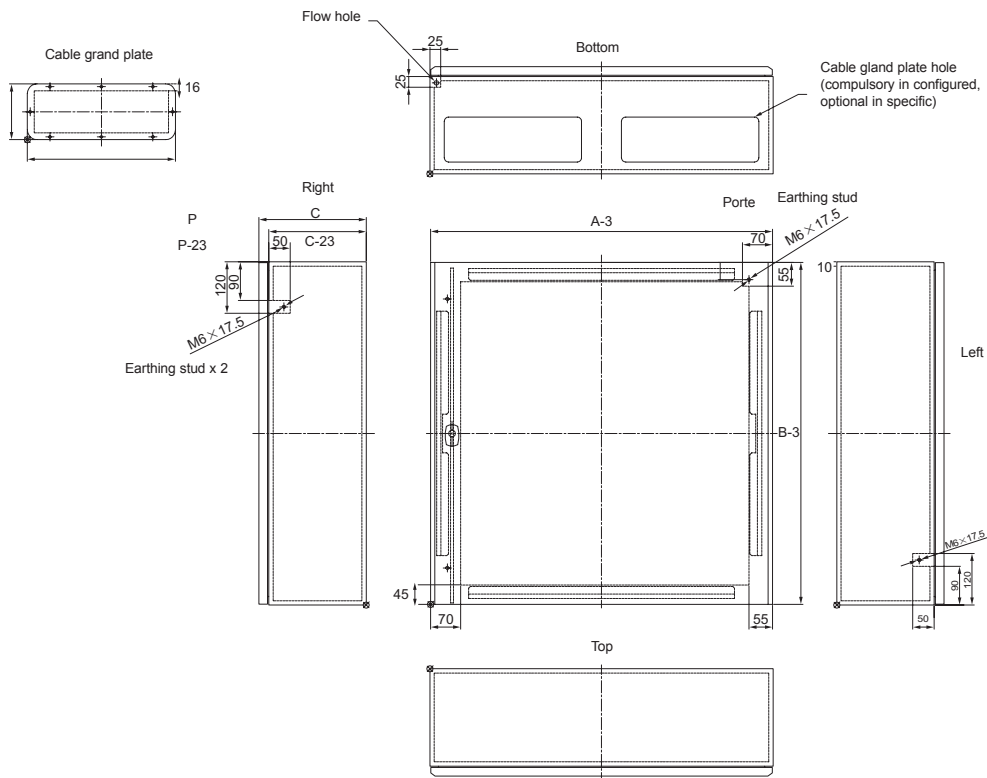
PB500388

Acceptable loads on the mounting plates, bases and doors

Acceptable loads (kg)					Reference
On plain mounting plates	On base	On door (1)	On vertical lug	On horizontal lug	
Spacial 3D wall-mounting enclosures					
60	135	50	350	190	NSYS3D3215 to NSYS3D5320
90	135	50	350	190	NSYS3D5420 to NSYS3D6425
135	135	50	350	190	NSYS3D6620 to NSYS3D8630
150	135	50	350	190	NSYS3D10625 to NSYS3D10830
180	135	50	350	190	NSYS3D101030D to NSYS3D141030D

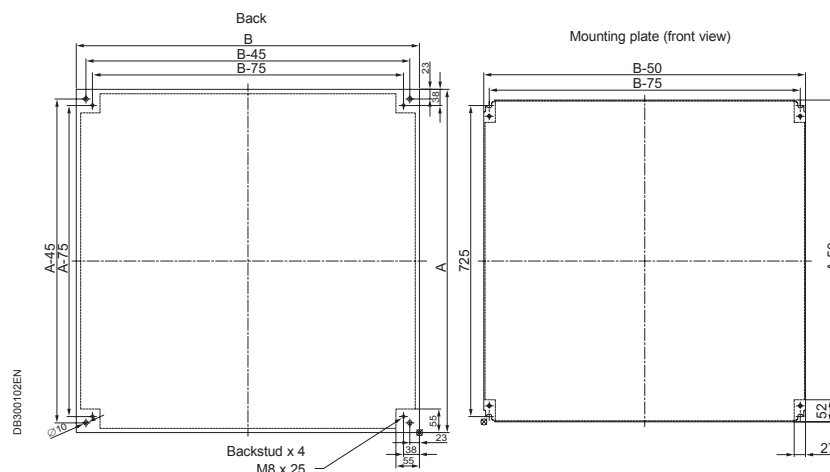
(1) On a sheet door with a thickness of 20/10 mm: 60 kg of maximum acceptable load (please consult us).

Areas without cut-outs



For 800, 1000 and 1200-mm widths, 2 cable-gland plates: see page 77.

Vertical cable guides from 400-mm height. Horizontal cable guides from 800-mm width.



Download our DXF diagrams from our websites.

> For the roof
 Page 89

> For fixing
 Page 80

> For coupling
 Page 88

> For mounting
 Page 338

> For the door
 Page 483

> Thermal management
 Page 672

> For closing
 Page 90

> Customised offer
 Page 9

> For cable management
 Page 458

> For supporting the cables
 Page 452

> For cable entries
 (Cable-gland plate)
 Page 96

> For cable entries
 (Membranes, cable glands)
 Page 95 / 434



See also the accessories



Mounting plates page 338



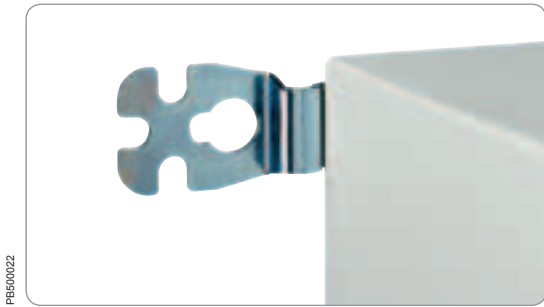
Modular Chassis page 396



19" rack page 630



DIN rail and fixings page 379



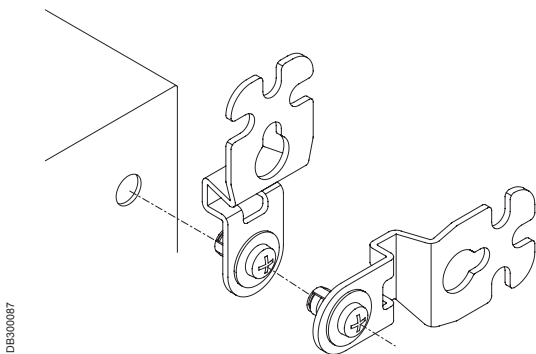
PB500022

Wall-fixing lugs

Set of 4 wall-fixing lugs

- Mounted directly on the rear of the enclosure, either in horizontal or vertical position.
- Two types of position, steel and 304 stainless-steel, for a wall-enclosure separation of 10 mm.
- Acceptable load:
 - Horizontal lug: 180 kg.
 - Vertical lug: 350 kg.
- Supplied with fixing screws and pre-mounted sealing gaskets.

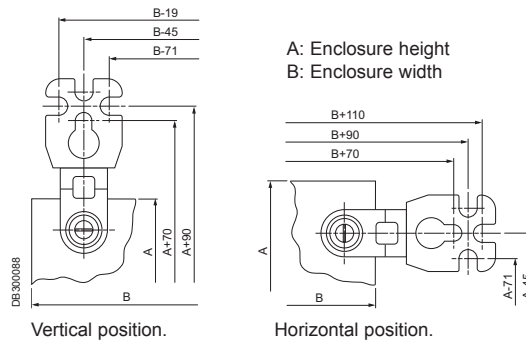
Description	Reference
Set of 4 steel fixing lugs	NSYAEFPFSC
Set of 4 stainless-steel fixing lugs	NSYAEFPFXSC



DE300087

Installation from the outside.

Fixing centre-to-centre distance with lugs (M8 screw)

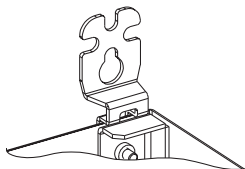


Kit for heavy loads

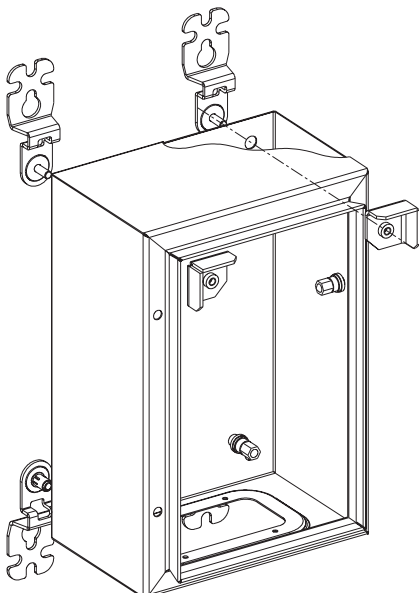
Kit made up of 2 steel reinforcement pieces.

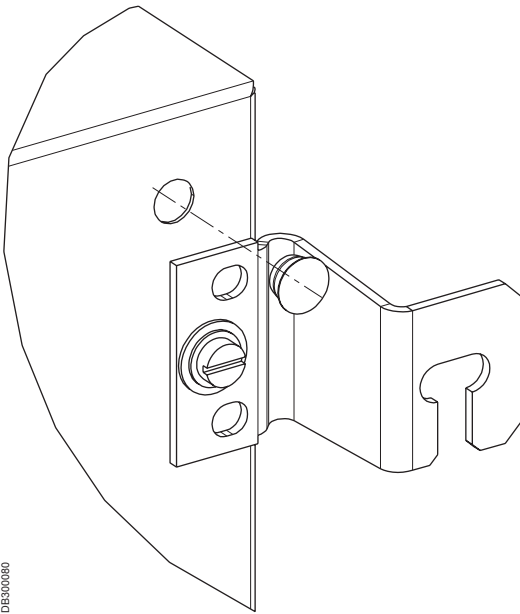
- Maximum load, 400 kg.
- To be mounted before installing the mounting plate in top position with the standard lugs (to be ordered separately).

Description	Reference
Kit for heavy loads	NSYAEFAHLBSC



DE300089





DB300080

Wall-fixing lugs with wall-enclosure separation

- Batch of 4 wall-fixing lugs.
- Separation of 40 mm from the wall at the rear of the enclosure.
- Need to drill a hole to prevent rotation.
- Steel material.
- Maximum load: 100 kg.

Reference

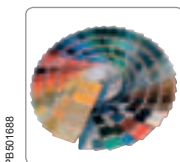
NSYAEFPF40SC



You will find the weights of the Spacial S3D enclosures without mounting plate in the selection guide on page **68**.



Specific



PB501688

Paints



PB500359

Holes & Cutouts



PB501680

Mounting



PB501691

Construction changes



PB501692

Accessories



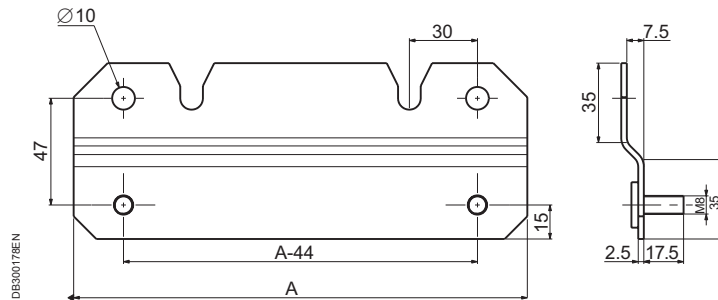
PE800458

Full-width wall fixing lugs

- Kit made of 2 parts (top and bottom).
- Made from passivated zinc-coated steel.
- Screwed from the inside.
- Permissible load 350 kg.

Width (mm)	Reference
200	NSYAEFPFS3DW20
300	NSYAEFPFS3DW30
400	NSYAEFPFS3DW40
500	NSYAEFPFS3DW50
600	NSYAEFPFS3DW60
800	NSYAEFPFS3DW80
1000	NSYAEFPFS3DW100
1200	NSYAEFPFS3DW120

A: Width of enclosure



DB300178EN



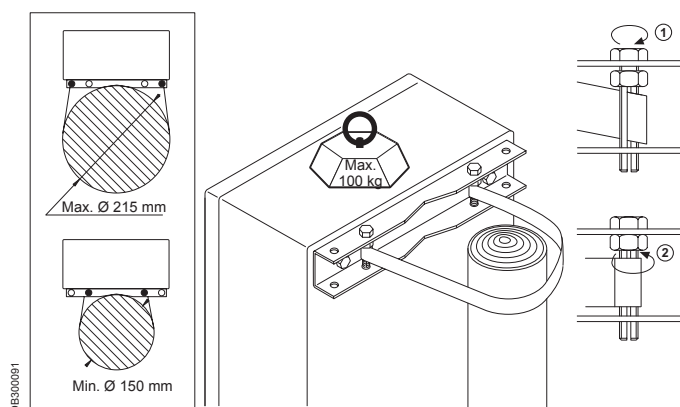
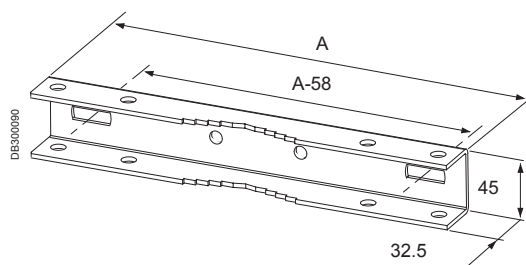
PB600196

Post-fixing device for Spacial steel enclosure

For indoor installations on posts with a maximum circumference of 675 mm (minimum diameter 150 mm and maximum diameter 215 mm).

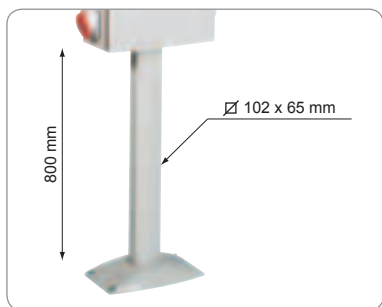
- Material: galvanised steel.
- Rail fixed to the inserts in the rear of the enclosure with 8-mm screws.
- Maximum load: 100 kg.
- They allow the mounting of protection canopies.
- For steel enclosures with widths of 300, 400, 500, 600 and 800 mm.

Description	A (mm)	Reference
Post-fixing for enclosure with W 300 mm	295	NSYSFPSC30
Post-fixing for enclosure with W 400 mm	395	NSYSFPSC40
Post-fixing for enclosure with W 500 mm	495	NSYSFPSC50
Post-fixing for enclosure with W 600 mm	595	NSYSFPSC60
Post-fixing for enclosure with W 800 mm	795	NSYSFPSC80



Machining of your enclosure before painting with our customisation service.

Specific



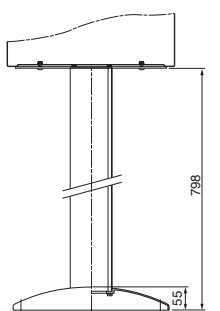
PB500039

Support pillar

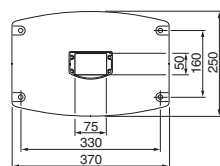
The support pillar is fixed directly to the bottom face of the Spacial steel enclosure by means of an adapter plate. The latter, to be ordered in addition to the pillar, replaces the cable-gland plate.

- Overall height of the support foot: 800 mm.
- Material: extruded aluminium, structured finish, polyester powder, RAL 7035 grey colour.
- Mounting possible on all enclosures with dimensions up to 600 x 400 x 250 mm (except 200 x 200 x 150 and 250 x 200 x 150 enclosures).

Description	Reference
Support pillar HT 800	NSYCOCN80



DB300084



PB500031

Support pillar adaptation plate

Plate for fixing the support pillar on the enclosure.

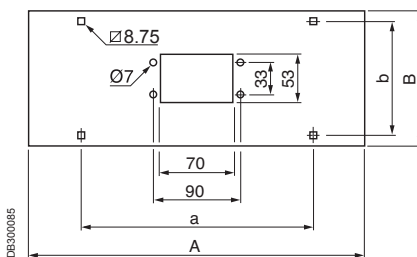
This plate replaces the cable-gland plate delivered with the enclosure.

- Material: steel, structured finish, polyester powder, RAL 7035 grey colour.

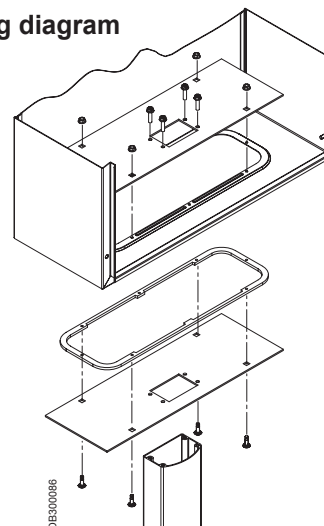
Enclosure width (mm)	Enclosure depth (mm)	A	B	a	b	Reference
300-400	150	280	110	140	67	NSYAEFP315S3D
300	200	280	160	140	117	NSYAEFP32S3D
400	200-250	380	160	240	117	NSYAEFP42S3D

Mounting diagram

Dimensions



DB300085



DB300086



P8601021

Support bracket for enclosure with anti-tilt kit and reinforcement

The support bracket for Spacial S3D and Spacial CRN steel enclosures is used when the enclosure cannot be hung from a wall or a post.

- Material: painted steel, RAL 7035 colour.
- Available in two heights: 1400 and 1800 mm.
- Maximum load: 120 kg.
- Suitable for outdoor use.
- Compatible with other enclosure ranges:
 - S3X (stainless steel).
 - S3HF (EMC).
 - Thalassa (polyester).
- Maximum enclosure dimensions: 1000 x 800 x 300 mm.
- Floor attachment by standard M12 fastenings.

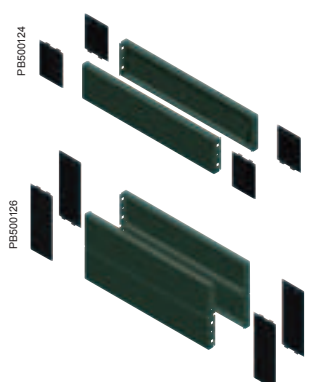
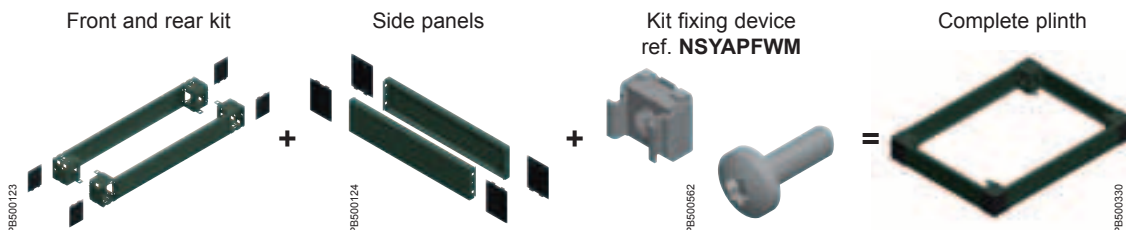
Description	Reference
H1400 enclosure support bracket	NSYCOENS1400
H1800 enclosure support bracket	NSYCOENS1800

Composition accessories

Fixing accessories

Plinth kit

The complete plinth consists of two elements: on the one hand, the front and rear kit, determined by the width of the enclosure and, on the other hand, the side panels determined by the depth of the enclosure.



Plinth side panels for Spacial steel enclosure

They are fixed to the corners of the plinth by two fixing screws.

- Material: folded sheet steel.
- Finishes: epoxy-polyester resin paint, RAL 7022 grey colour.
- Protection degree: IP 30 for the complete plinth.
- Resistance to external mechanical impacts: IK10.
- Models with heights: 100 and 200 mm.
- For enclosure depths 300 and 400 mm:
 - Height 100 mm: 2 side panels, 4 corner covers and fixing elements.
 - Height 200 mm: 4 side panels (height of 100 mm, 2 for each side), 4 corner covers and fixing elements.

Nominal dimensions (mm)	Reference	
	100 mm	200 mm
Depth		
300	NSYSPS3100SD	NSYSPS3200SD
400	NSYSPS4100SD	NSYSPS4200SD



Order the kit fixing device ref. **NSYAPFWM** when mounting the wall-mounting enclosure on a plinth.



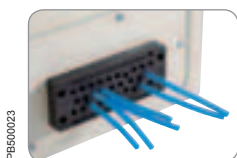
Front and rear plinth

Accessory shared with the Spacial SM floor-standing enclosure. Numerous options available: plain, ventilated, with cable gland. See page 151.

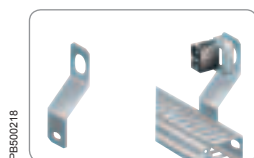
Nominal dimensions (mm)	Reference	
	100 mm	200 mm
Width		
600	NSYSPPF6100	NSYSPPF6200
800	NSYSPPF8100	NSYSPPF8200
1000	NSYSPPF10100	NSYSPPF10200
1200	NSYSPPF12100	NSYSPPF12200



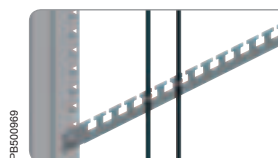
See also the accessories



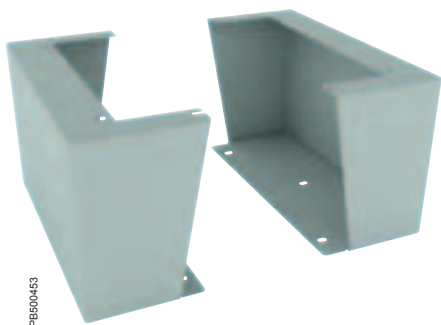
Accessories for cable entries page 96



Cable-support accessories page 460




Cable-management accessories page 95 / 434



PB500453

Floor Stand Kit for wall-mounting enclosure

- Set of 2 feet, elevating wall-mounting enclosures.
- Cut-outs needed on enclosure – drilling template provided with the kit.
- Made of steel: thickness of 2.5 mm for the sides and 3 mm for the base.
- Coating: RAL 7035 gray polyester-powder finish.
- Maximum load: 250 kg.

 Supply: 2 platform feet (right and left) and fixing elements.

Enclosure depth		Foot height		Reference
mm	inches	mm	inches	
300*	12	300	12	NSYWMK33
400**	16	300	12	NSYWMK43
300*	12	450	18	NSYWMK34
400**	16	450	18	NSYWMK44

* When enclosures are equipped with a cable gland plate, it only fits with enclosures of width 800, 1000 & 1200 mm, except model H 600 x W 800 x D 300 mm.

** When enclosures are equipped with a cable gland plate, it does not fit with enclosures of width 600 mm.



PB500454



Compatible with Spacial S3D, S3DC & CRNG enclosures.

Composition accessories

Coupling accessories



PB500335

Installation example.

Coupling of Spacial steel enclosures

Available in 2 versions:

- Coupling version without cable entry.
- Version with coupling frame allowing the entry of cables.
- Separation of 17 mm between 2 coupled enclosures, allowing full opening of the doors.

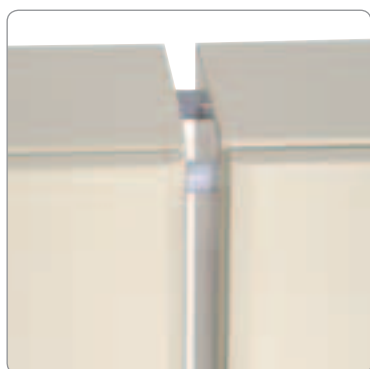
Kit for fixing 2 joined enclosures

- Kit made up of 4 spacers and their fixings.

Coupling frame

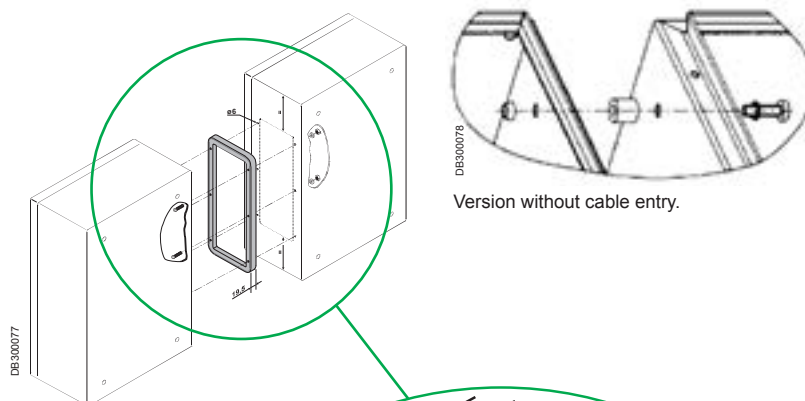
- Allows lateral coupling of 2 enclosures.
 - Frame made from polyester charged with fibreglass, self-extinguishing.
 - A built-in sealing gasket guarantees the protection degree of IP 66.
 - Mounting by screws, included.
 - Dimensions: 435 x 185 mm and 635 x 185 mm.
- These frames allow the door to open to 120°.

Description	Reference
Batch of 4 coupling spacers	NSYAEUBUSC
Coupling frame, 435 x 185 mm	NSYAEUBU41SC
Coupling frame, 635 x 185 mm	NSYAEUBU61SC



PB500336

Version without cable entry.

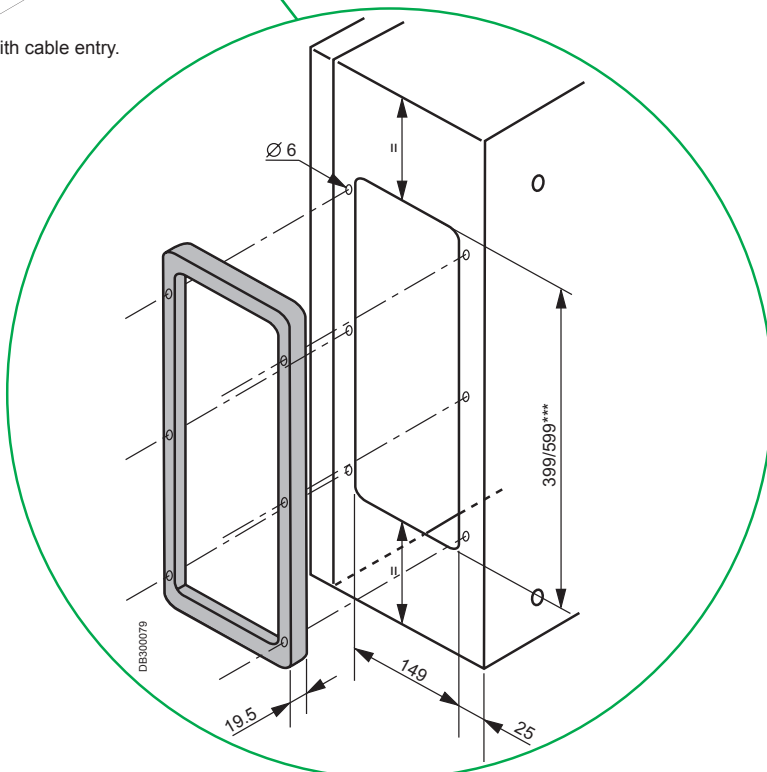


Version with cable entry.



PB500337

Version with cable entry.



Composition accessories

Hoisting accessories



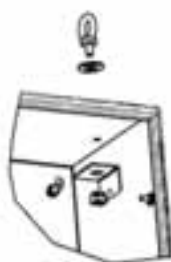
PE500338

Eyebolts

Set of two M8 eyebolts.

- Material: zinc-coated moulded steel.
- They are fixed directly to the body of the floor-standing enclosure.
- Maximum load to be installed: 210 kg per enclosure when slinging at 60°.
- Cannot be installed with the canopy in place.
- Reinforcing brackets attached to the rings,
- These brackets also act as a drilling template.
- Have your cut-outs made by our configured service, page 10.
- Paint touch-up pen, page 497.

Description	Reference
Batch of 2 M8 eyebolts	NSYAELYTCRG8



DB300081

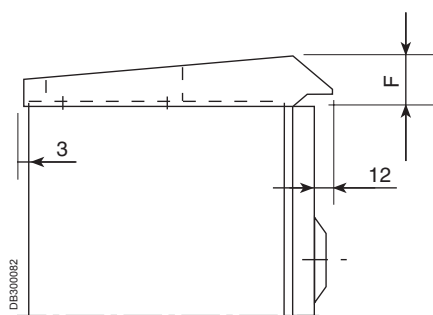


PE500329

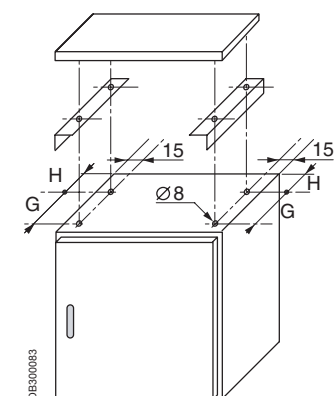
Protection canopy

Direct fixing to the body of the enclosure by 4 M6 screws.

- Material: sheet steel made from painted galvanised steel, structured finish, epoxy-polyester powder, RAL 7035 grey colour.
- Delivered with the fixings required for installation.
- To be used for all outdoor installations.
- Have your cut-outs made by our configured service, page 10.
- Paint touch-up pen, page 497.



DB300082



DB300083

For enclosure (mm)					
Width	Depth	F	G	H	Ref
200	150	36	75	23	NSYTJ2015
250	150	36	75	23	NSYTJ2515
300	150	36	75	23	NSYTJ3015
400	150	36	75	23	NSYTJ4015
500	150	36	75	23	NSYTJ5015
500	200	36	130	23	NSYTJ5020
600	200	36	130	23	NSYTJ6020
250	200	36	130	23	NSYTJ2520
300	200	36	130	23	NSYTJ3020
400	200	36	130	23	NSYTJ4020
800	200	36	130	23	NSYTJ8020
400	250	42	150	48	NSYTJ4025
500	250	42	150	48	NSYTJ5025
600	250	42	150	48	NSYTJ6025
800	250	42	150	48	NSYTJ8025
600	300	42	200	48	NSYTJ6030
800	300	42	200	48	NSYTJ8030
1000	300	42	200	48	NSYTJ10030
1200	300	42	200	48	NSYTJ12030
600	400	42	300	48	NSYTJ6040
800	400	42	300	48	NSYTJ8040
1000	400	42	300	48	NSYTJ10040
1200	400	42	300	48	NSYTJ12040

Dimensions and cut-outs.

Composition accessories

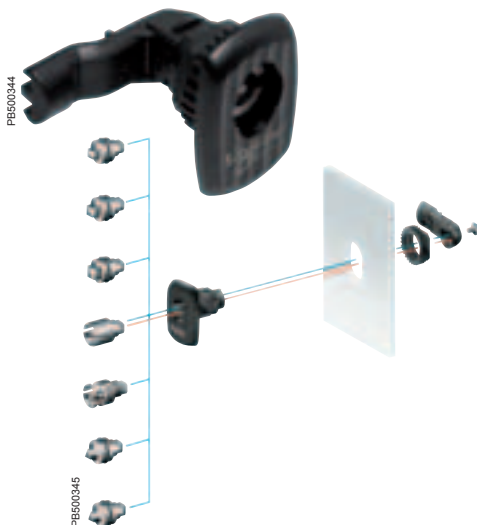
Locking accessories



Locks and inserts

Operating handle delivered with the enclosure.

- It can be attached to the locking system by means of a fixing element.
- It can also be used to loosen the caps protecting the studs when painting.



Standard locks

Spacial S3D wall-mounting enclosures are supplied with a 3 mm double-bar lock as standard.

- Spare lock: order ref. **NSYAEDLS3DRL** (escutcheon + cam + washer).
- Large range of standardised inserts covering all the most common needs.
- Installation and removal with a single screw.

Description	Reference of form insert*
6 mm square	NSYAEDLS6S3D
7 mm square	NSYAEDLS7S3D
8 mm square	NSYAEDLS8S3D
3 mm double bar	NSYAEDLB3S3D
5 mm double bar	NSYAEDLB5S3D
CNOMO 6.5 mm triangular	NSYAEDLT6S3D
8 mm triangular	NSYAEDLT8S3D

* Delivered with 1 plastic key.



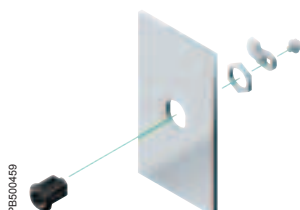
Standard handles with keys

Attractive and ergonomic bi-material handle.

- Large range of barrels covering all the most common needs.
- Standard cam (see diagram above).
- The installation of the standard handle does not require the escutcheon to be removed.

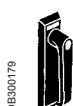
Description	Reference of handle with keys*
1242	NSYAEDL1242S3D
405	NSYAEDL405S3D
421	NSYAEDL421S3D
455	NSYAEDL455S3D
2331A	NSYAEDL2331S3D
2433A	NSYAEDL2433S3D
3113A	NSYAEDL3113S3D
3524E	NSYAEDL3524S3D

* Delivered with 2 keys.



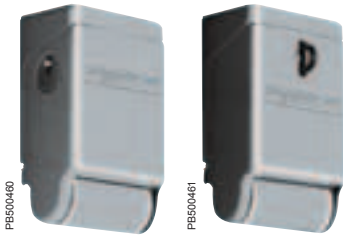
Other lock with screwdriver insert and metal latch

Reference
NSYAEDLSDS3D



Handle lock operated using screwdriver insert

Reference
NSYTSMLS3D

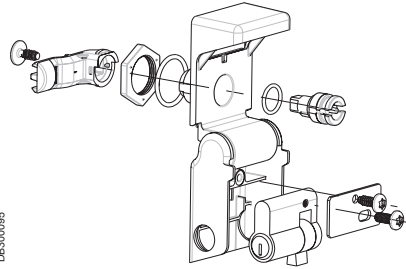


Double lock

- Easy mounting instead of the standard lock.
 - Material: zamack.
- Delivered with 3 mm double-bar metal key.

Description	Reference
DIN half-cylinder (1)	NSYAEDLDINS3D
Padlockable 405 (2)	NSYAEDLPADS3D

(1) Delivered without barrel. Please consult us.
 (2) Diameter 8 mm.



DB3000095



Other locks with keys

Easy mounting instead of the standard lock.

- Metal cam supplied.

EDF lock	Reference
EDF 900	NSYAEDLEDF9S3D
EDF 1300	NSYAEDLEDF13S3D
EDF 1400	NSYAEDLEDF14S3D



"Push-close" locking system

The Spacial S3D enclosures can be transformed into push-close enclosures.

- The push-close enclosure is used in various applications and fully meets the security demands of the market.
- Locking system with a 6.5-mm push-close system in accordance with CNOMO standards.
- This system allows the door to be closed and locked by simply pushing it.
- System made up of a lock and a closure plate.
- IP 55 water and dust tightness.
- It is only installed on enclosures with 1 locking point (H < 600 mm).
- Other dimensions: contact us.

Description	Reference
Push-close lock for Spacial S3D enclosure	NSYAEDLPSS3D



See also the accessories



Door retainer page 486



Door switch page 482



Viewing accessories on the door page 487



Earth braids page 492



PB500353

180° hinge.



PB500354

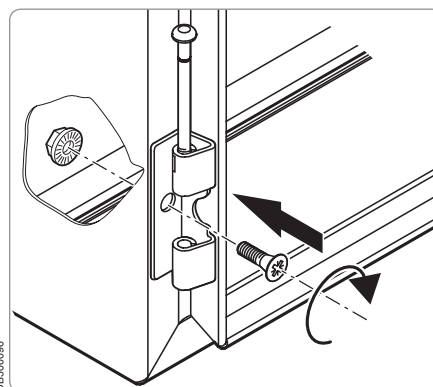
120° hinge.

Door hinges

Two models:

- For opening the door with an angle of 180°.
- Spare standard hinges (120°).
- Captive pin, indexed by a spring.
- Batch of 1 hinge, delivered with fixings.
- Material: zamack body for ref. **NSYAEDH180S3D**, treated sheet-steel body for ref. **NSYAEDH120S3D**, aluminium pin.
- For the 180° hinge, the maximum admissible load on the door is 20 kg / m².
- For the 120° hinge, the maximum admissible load on the door is 50 kg / m².

Description	Reference
180° hinge for S3D enclosure	NSYAEDH180S3D
Standard 120° hinge for S3D	NSYAEDH120S3D



DB500096

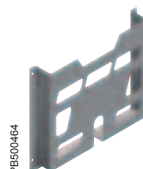


See also
the accessories



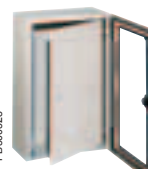
PB500333

Cable management
on the door
page 454



PB500464

Document pocket
page 483



PB500328

Internal door
page 94



PE500328

Internal door

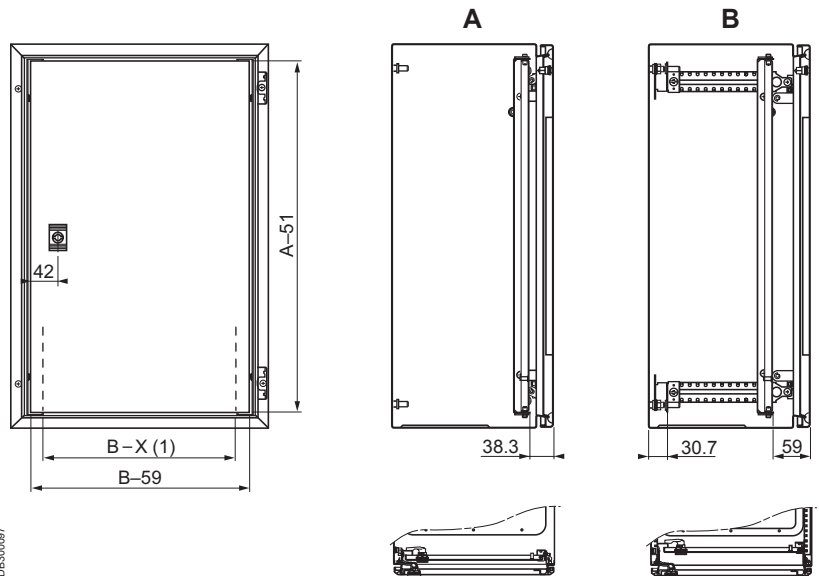
- Sheet-steel door, RAL 7035 grey colour.
- Locking with 3-mm double-bar lock.
- Maximum load, 30 kg/m².
- The internal door can be installed directly on the front face of the enclosure or on the step slides (not supplied as standard).
- To mount an inner door and a mounting plate at the same time on the step slides is possible as standard.
- Incompatible with the installation of the door stop and door switch. For further details, please consult us.

Dimensions	References
H 400 x L 300 mm	NSYPIN43
H 500 x L 400 mm	NSYPIN54
H 600 x L 400 mm	NSYPIN64
H 700 x L 500 mm	NSYPIN75
H 800 x L 600 mm	NSYPIN86*
H 1000 x L 600 mm	NSYPIN106*
H 1000 x L 800 mm	NSYPIN108*
H 1200 x L 600 mm	NSYPIN126
H 1200 x L 800 mm	NSYPIN128*

* Equipped with welded vertical profiles in order to facilitate cable management.

Dimensions

Installation on the front of the enclosure (A) or installation on step slides (B).



(1) Dimension resulting from installation on step slides: B-83 mm.
Dimension resulting from direct installation (without step slides): B-91 mm.

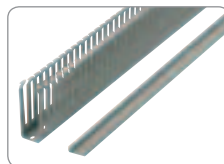


See also
the accessories



PE500954

Support for cable ducting
with diameter 22
page 461



PE500953

Cable ducting and
ducting support
page 460



- 1 Direct installation on enclosures**
 - Single entry (page 454)
 - Multiple entries (pages 440 to 444)
- 2 Installation on cable-gland plate**
 - Cable-gland plate with FL system for S3D enclosures (page 98) and for CRN enclosures
 - FL membranes for direct entry (page 440)
 - FL gland plate with knock-out system (pages 438 and 439)
- 3 Services**
 - Cut-outs on cable-gland plate or directly on body
 - See our customisation service

+

Completed by our
cable management
accessories
see pages **451 to 463**

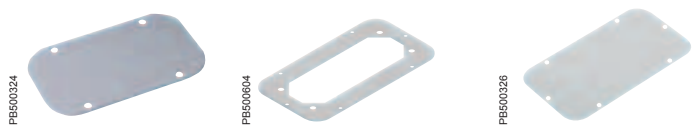
Composition accessories

Cable-entry accessories



PB500005

- The cable-gland plates are delivered with a separate gasket to facilitate machining and paint dusting.
- The plates are installed across the thickness of the enclosure body.
- Fixing by screws.



PB500024

PB500004

PB500026

For wall-mounting enclosures		Type	Plate dimensions (mm)		Cable-gland plate references		
Width (mm)	Depth (mm)		W	D	In standard steel page 97	Steel with cut-outs for membranes (1) page 98	Aluminium page 97
200-250	150	A	140	80	NSYTLA	NSYTLAFL (4)	NSYTLAU
300-400	150	B	245	80	NSYTLB	NSYTLBFL (3)	NSYTLBU
300	200	C	245	130	NSYTLC	NSYTL CFL	NSYTL CU
400	200-250	D	345	130	NSYTLD	NSYTL DFL	NSYTL DU
500	200-250	E	445	130	NSYTLE	NSYTL EFL	NSYTL EU
600	200-250	F	545	130	NSYTLF	NSYTL FFL NSYTL F2FL (2)	NSYTL FU
600	300-400	G	495	220	NSYTLG	NSYTL GFL NSYTL G2FL NSYTL G4FL (2)	NSYTL GU
800	250-300-400	D*	345	130	2 x NSYTLD	2 x NSYTL DFL	2 x NSYTL DU
1000-1200	300-400	E*	445	130	2 x NSYTLE	2 x NSYTL EFL	2 x NSYTL EU

* Enclosure with 2 cable-gland plates.

- (1) Cut-out FL13 for depth 150 mm; and cut-out FL21 for other depths.
- (2) With 2 FL21 cut-outs: ref. **NSYTLG2FL**; with 4 FL21 cut-outs: ref. **NSYTLG4FL**.
- (3) **NSYTLBFL** with FL13 cut-out.
- (4) **TLAFL** cannot be mounted on enclosure width 200 and depth 150.



Specific

Do you require your cable-gland plate to have a different position on your wall-mounting enclosure? Please consult our specific offer, page 9.



PB5000340

Composition accessories

Cable-entry accessories

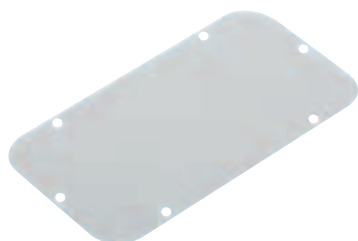


PIB500005

Standard cable-gland plate

Plate delivered as standard with the Spacial S3D universal enclosure.
Material: steel, 1.5 mm thick.

- Surface with markings in steps of 25 mm, to facilitate drilling.
- Fixing by 4, 6, 8, 10 or 12 screws, according to the model.



PIB500326

Aluminium cable-gland plate

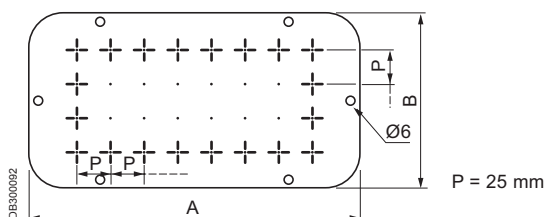
Material: brushed-finish aluminium with a thickness of 3 mm.

- Fixing by 4, 6, 8, 10 or 12 screws, according to the model.
- Suitable for non-magnetic applications.

Dimensions

Aluminium or standard cable-gland plates

Dimensions (mm)		N° of Ø 6 holes	N° of markings ⁽¹⁾	References	
A	B			Standard	Aluminium
140	80	4	8	NSYTLA	NSYT LAU
245	80	4	16	NSYTLB	NSYTLBU
245	130	6	32	NSYTL C	NSYTL CU
345	130	8	48	NSYTL D	NSYTL DU
445	130	9	64	NSYTL E	NSYTL EU
545	130	10	80	NSYTL F	NSYTL FU
495	220	12	126	NSYTL G	NSYTL GU



(1) Only the standard cable gland plate in painted steel version has the markings.



See also the accessories



PIB500099

Cable gland page 450



PIB500005

Cable-entry membranes page 438



PIB500023

Quick cable entries page 439



PB500604

Cable-gland plates with FL type cut-out for cable-gland membranes

Material: steel, structured finish, structured RAL 7035.

- Fixing by 4, 6, 8, 10 or 12 screws, according to the model.
- Mounting instead of the Spacial S3D plate.
- Cut-outs for installation of membranes type FL 21, page 438.

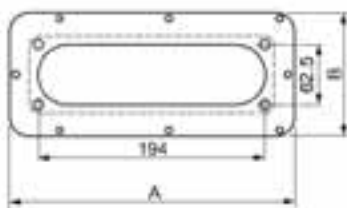
For wall-mounting enclosures		Type	Dimensions (mm)	
Width (mm)	Depth (mm)		A	B
250	150	A	140	80
300-400	150	B	245	80
300	200	C	245	130
400	200-250	D	345	130
500	200-250	E	445	130
600	200-250	F	545	130
600	300-400	G	495	220



PB500462

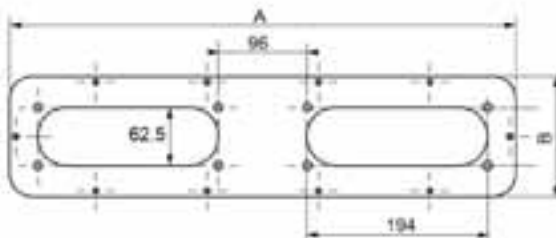
Exemple of mounting.

Dimensions of the cut-out

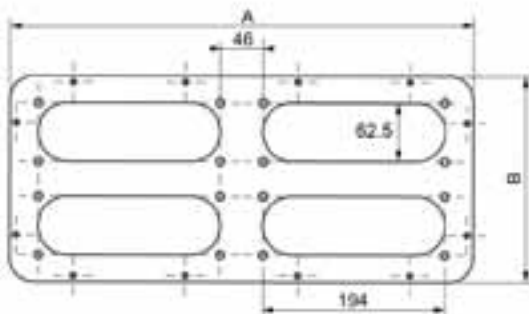


Reference
NSYTLBFL*
NSYTLCLFL
NSYTLDFL
NSYTLEFL
NSYTLFFL
NSYTLGFL

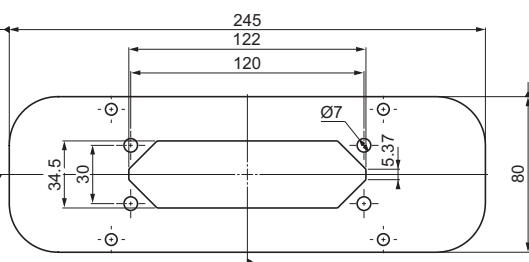
*FL13 cut-out.



Reference
NSYTLF2FL
NSYTLG2FL



Reference
NSYTLG4FL



Reference
NSYTLBFL



PB500342



Specific

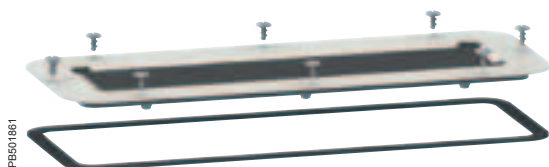
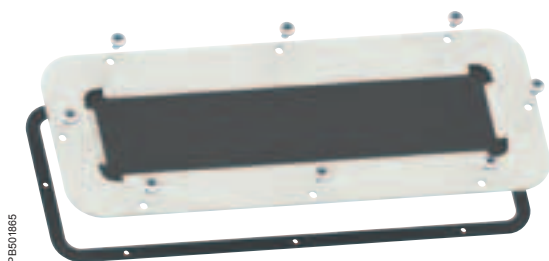
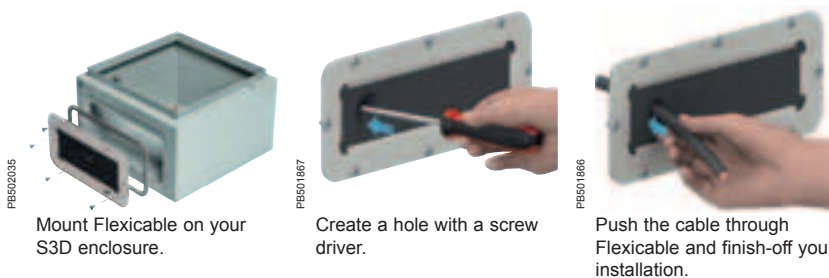
Do you want the cut-out made directly on the body of your enclosure? Please consult our specific service.

Composition accessories

Cable-entry accessories

Flexicable cable-gland plate

Flexicable is an innovative cable-gland plate for simple and fast cable entrance. There is no need to drill holes: the creation of the cable entrances takes a few seconds.



- To be mounted exclusively on Spacial S3D enclosures replacing the standard cable gland plate.
- Frame material: steel (colour RAL 7035).
- Membrane material: HCE (Heat Curable Elastomer). HCE is electrically insulated.
- Water tightness: IP 55.
- Resistance to mechanical impact: IK 08.
- Fire resistance (650 °C) and halogen free.
- Cable diameter: from 10 to 26 mm.
- Corrosion resistance: following IEC 62208 outdoor test.

Composition:

- 1 metallic frame with pre-mounted membrane.
- 1 gasket.
- Hardware.

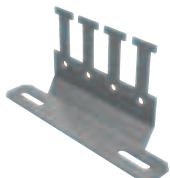
Cable entrance type	Dimensions of plate (mm)	Effective cable entrance dimensions (mm)	Reference
C	245 x 130	178 x 63	NSYTLME
D	345 x 130	278 x 63	NSYTLDE
E	445 x 130	378 x 63	NSYTFME
F	545 x 130	478 x 63	NSYTLFME
G	495 x 220	428 x 63	NSYTLGME

Composition accessories

Cable-entry accessories

Cable management solutions for Flexicable plate

Cable-guide to be mounted directly on Flexicable plate

	Description	Supply	Reference
	Cable-guide for Flexicable plate	1	NSYEDCME

PB502038

Example of mounting:






PB502032

PB502033

Cable-guide to be mounted on adjustable step slides

- To be mounted on adjustable step slides **NSYSDCREC** or **NSYSDCR**.
- Direct mounting of cable guides **NSYTFPCR**N on bracket.

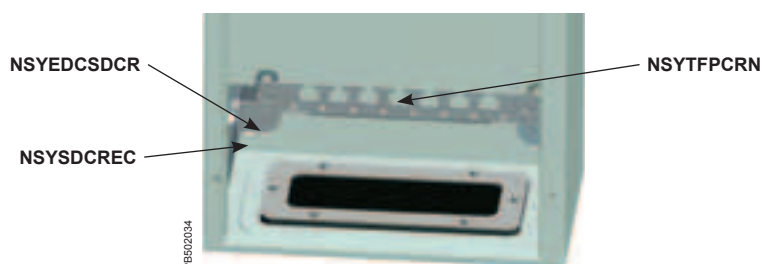
Depth of enclosure (mm)	Description	Supply	Reference
	Bracket for adjustable step slide	2	NSYEDCSDCR
	Adjustable step slide, depth 200 mm	2	NSYSDCREC200
	Adjustable step slide, depth 250 mm	2	NSYSDCREC250
	Adjustable step slide, depth 300 mm	2	NSYSDCREC300
	Adjustable step slide, depth 400 mm	2	NSYSDCREC400
	Cable-guide for wall-mounting enclosure, door width 400 mm	2	NSYTFPCRN4
	Cable-guide for wall-mounting enclosure, door width 500 mm	2	NSYTFPCRN5
	Cable-guide for wall-mounting enclosure, door width 600 mm	2	NSYTFPCRN6
	Cable-guide for wall-mounting enclosure, door width 800 mm	2	NSYTFPCRN8
	Cable-guide for wall-mounting enclosure, door width 1000 mm	2	NSYTFPCRN10

PB502037

PB502039

PB502038

Example of mounting



PB502034


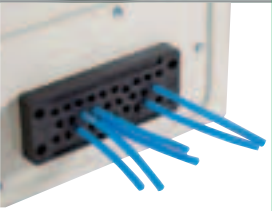
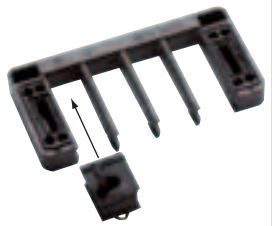

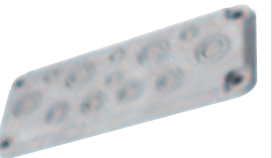
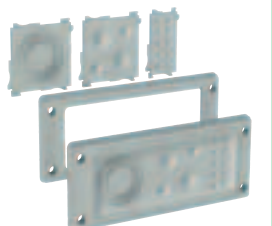
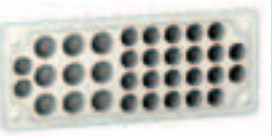
Cable management

Single cable entries overview

	Description	Cable dimensions (mm)	Details
 <p>PB500266</p>	<p>IP 55 Stepped cable entries Enclosure thickness 2-3.2 mm</p>	<p>20 25 32 40</p>	<p>Page 449</p>
 <p>PB500267</p>	<p>IP 67 quick cable entries Enclosure thickness 1-4 mm</p>	<p>12 16 20 25 32 40 50</p>	<p>Page 449</p>
 <p>PB500275</p>	<p>PVC adjustable cone-shaped entries Enclosure thickness 3-3.2 mm</p>	<p>18 26 36 60 87</p>	<p>Page 451</p>
 <p>PB500276</p>	<p>PVC adjustable cone-shaped entries Enclosure thickness 1.2-1.5 mm</p>	<p>16 18 20 26 35 44</p>	<p>Page 451</p>
 <p>PB500288</p>	<p>IP 68 ISO cable-gland</p>	<p>12 16 20 25 32 40</p>	<p>Page 450</p>

Cable management

Multiple cable entries overview

	Description	Cable dimensions (mm)	Details
 <p>PB500024</p>	IP 65 cable entries without connectors	From 3 to 15.9	Page 444
 <p>PB500023</p>	IP 65 cable entries without connectors	From 4.3 to 15.9	Page 444
 <p>PB500082</p>	IP 54 cable entries for cables equipped with connectors (matrix + split seals)	From 3 to 31	Page 447
 <p>PB500095</p>	IP 65 membranes (FL21)	From 6 to 60	Page 440
 <p>PB500044</p>	IP 65 knock out plate (FL21)	4 x 12 4 x 12/20 4 x 16/25	Page 438
 <p>PB500045</p>	IP 65 knock out and membrane plate (FL13 and FL21)	16 20 25 32 40 50	Page 439
 <p>PB501700</p>	IP 65 membrane plate (FL13 and FL21)	From 13 to 30	Page 441

Spacial S3D enclosure installed on machines



Enclosure for supplying motors and sensor connection box.



Management of machine's communication network functions.

Spacial S3DB terminal enclosure in application



Local function enclosure.



Fieldbus enclosure.



Decentralised control enclosure.

Steel floor-standing enclosures

PB500067



Spacial SM Steel floor-standing compact enclosures 106

Overview	106
Selection guide	112
Dimensions	114

Spacial SF Steel floor-standing suitable enclosures 116

Overview	116
Selection guide	124
Dimensions	130

Accessories 131

Spacial SF/SM Main accessories - Selection guide	132
Panels	135
Enclosures suites	138
Floor	143
Cable entry	156
Lifting systems	162
Roof	166
Wall-mounting	172
Door and door accessories	174
Locking system	178

Spacial SF Compartmentalised enclosure 184

PB500207



Composition accessories	184
Mounting accessories	192

Compact metal enclosures

Overview

Convenience

Robustness

Comfort

Practicality

Protection



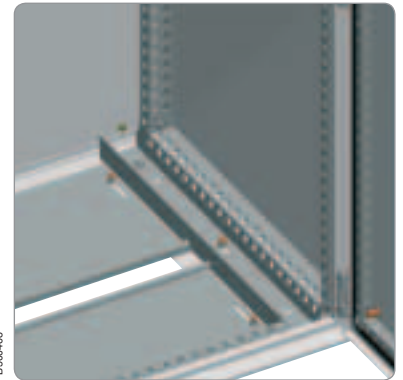
Robustness:

Body made as a single piece with welded rear panel. Front part forming a rigid frame with welded corners.



Practicality:

Two door rails, which can be height-adjustable and used for fixing cables.
 The adaptation profile installed in the front of the enclosure and the universal 40-mm cross rail (1 row) in the rear provide the same fixing points as the suitable enclosure.



Protection:

IP guaranteed by the rigidity of the enclosure, the expanded-polyurethane sealing gasket of the enclosure and the subsequent welding. Double-door enclosures with inner lock on the left door.



Comfort:

Handle with sturdy design for easily activating the locking system, allowing the installation of any shape insert and any cylindrical combination key. Easily interchangeable insert with one click.



Convenience:

The customised product meets specific needs in terms of cut-outs, colours and accessory installation.



Compact metal enclosures

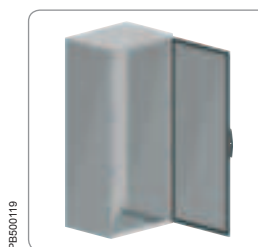
Overview

Compact metal enclosures

IP55 enclosure, IK10 for plain door and IK08 for transparent door.
 The body is made from sheet steel, welded rear panel, and the front forms a rigid frame with welded corners.

Doors made from folded and welded steel, 120° opening, hinges with captive pin made from zamak and handle lock with 5-mm double-bar insert.

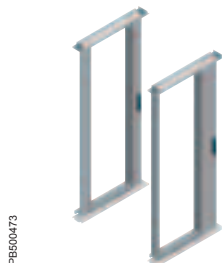
Assembled enclosure with plain or transparent door door, painted with epoxy-polyester resin, textured RAL 7035 grey, with or without galvanised-steel mounting plate.



	Page
Introduction	111
References	112
Dimensions	114

Accessories for 19" racks

19" racks



PB800473

Page

648




Customised compact metal enclosures



All RAL and NF colours. All surface treatments. All cut-outs made by high-precision laser, with no burrs. Accessory installation in plant.



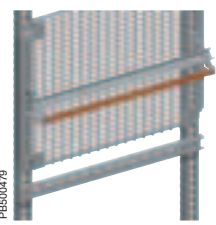


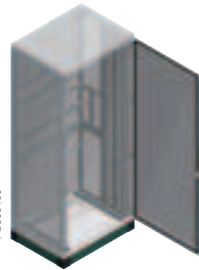
PB800472

Main accessories

Locks and lock inserts	Lifting systems	Plinths
 <p>PB500471</p>	 <p>PB500474</p>	 <p>PB500330</p>
<p>Page 178</p>	<p>Page 165</p>	<p>Page 143</p>

Inner door	Door accessories
 <p>PB500475</p>	 <p>PB500476</p>
<p>Page 174</p>	<p>Page 485</p>

Mounting plate	Adaptation profiles	Rails
 <p>PB500477</p>	 <p>PB500478</p>	 <p>PB500479</p>
<p>Page 347</p>	<p>Page 369</p>	<p>Page 379</p>

Cross rails
 <p>PB500485</p>
<p>Page 366</p>

Compact metal enclosures

Overview



Front door and rear panel, with or without galvanised mounting plate IP55

Basic composition

- Structure: body made from sheet steel, welded rear panel, with the front forming a rigid frame with welded corners.
- Front door:
 - Plain door with reinforcement frame.
 - Or, transparent Securit® glass door.
- The double doors are overlapping, with system for fixing the left door.
- Welded rear panel.
- Standard locking system with handle and 5-mm double-bar insert.
- 4 support brackets for the mounting plate.
- Cable-gland plate in 2 parts.
- Supply with or without galvanised mounting plate depending on the reference.
- Options:
 - Cross rails.
 - Individual plinths with heights of 100 and 200 mm.

Certifications

- BV, DNV, UL* and CUL.
 - *1 Door: 1, 2, 3, 3R, 4, 5, 12, 12K and 13
 - *2 Doors: 1, 12, 12K

Easy installation

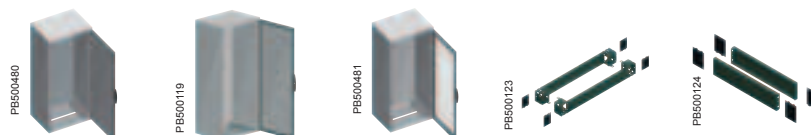
- The **Spacial SM** compact metal enclosure is made up of a compact body, welded rear panel and front part forming a rigid frame with its corners welded. 4 deep supports, 2 at the top and 2 at the bottom, for adjusting the equipment fixing bracket with a pitch of 25 mm.
- Sheet-steel door, painted with epoxy-polyester resin in textured RAL7035 grey. Reinforcement frame made up of two perforated uprights with a pitch of 25 mm and two door rails (height-adjustable), which can be used for fixing cables. Vertical profiles for the enclosures with a height of 1200 mm.
- 4 zamak hinges and 4 locking points for the enclosures, with heights from 1200 to 2000 mm.
- Cable-gland plate in two parts with sealing gasket cross-section of 3 x 10 mm:
 - A broad range of accessories offered for the production of:
 - Plates for automatism.
 - Modular distribution system.
 - 19" racks.
 - etc.
- Degree of protection IP55 according to IEC 60529.
- Resistance to mechanical impacts: IK10 according to IEC 62262 (IK08 for the transparent doors).
- Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure.

Locking system

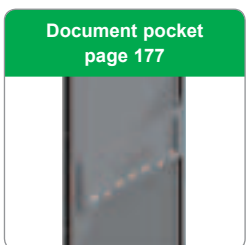
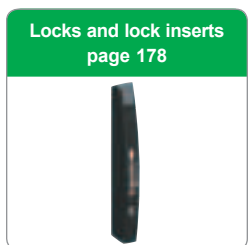
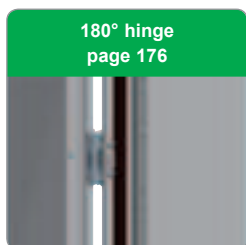
- New design, modern appearance, ergonomic, sturdy, complying with numerous specifications:
 - Combination keys.
 - Shape inserts.
 - Push button.
- Optional:
 - Handle lock for versions DIN, KABA, ASSA.
 - Handle lock for 2 inserts, "AND" or "OR" combination.
 - Padlock locking.
 - CNOMO kit.

Compact metal enclosures

Selection guide

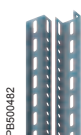
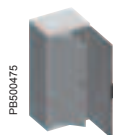
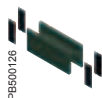
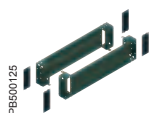


Nominal dimensions (mm)			No. of doors	Plain door		Transparent door	Plinth		
Height (A)	Width (B)	Depth (C)		With mounting plate	Without mounting plate	Without mounting plate	Height 100 (mm)		
							Front kit (corners + front panels)	Side panels, 2 u.	
1200	800	300	1	NSYSM12830P	NSYSM12830	-	NSYSPF8100	NSYSPS3100	
1200	1000	300	2	NSYSM1210302DP	NSYSM1210302D	-	NSYSPF10100	NSYSPS3100	
1200	1200	400	2	NSYSM1212402DP	NSYSM1212402D	-	NSYSPF12100	NSYSPS4100	
1400	600	300	1	NSYSM14630P	NSYSM14630	-	NSYSPF6100	NSYSPS3100	
1400	600	400	1	NSYSM14640P	NSYSM14640	-	NSYSPF6100	NSYSPS4100	
1400	800	300	1	NSYSM14830P	NSYSM14830	-	NSYSPF8100	NSYSPS3100	
1400	800	400	1	NSYSM14840P	NSYSM14840	NSYSM14840T	NSYSPF8100	NSYSPS4100	
1400	1000	400	2	NSYSM1410402DP	NSYSM1410402D	-	NSYSPF10100	NSYSPS4100	
1400	1200	400	2	NSYSM1412402DP	NSYSM1412402D	-	NSYSPF12100	NSYSPS4100	
1600	600	300	1	NSYSM16630P	NSYSM16630	-	NSYSPF6100	NSYSPS3100	
1600	600	400	1	NSYSM16640P	NSYSM16640	NSYSM16640T	NSYSPF6100	NSYSPS4100	
1600	800	300	1	NSYSM16830P	NSYSM16830	NSYSM16830T	NSYSPF8100	NSYSPS3100	
1600	800	400	1	NSYSM16840P	NSYSM16840	NSYSM16840T	NSYSPF8100	NSYSPS4100	
1600	1000	300	2	NSYSM1610302DP	NSYSM1610302D	-	NSYSPF10100	NSYSPS3100	
1600	1000	400	2	NSYSM1610402DP	NSYSM1610402D	-	NSYSPF10100	NSYSPS4100	
1600	1200	300	2	NSYSM1612302DP	NSYSM1612302D	-	NSYSPF12100	NSYSPS3100	
1600	1200	400	2	NSYSM1612402DP	NSYSM1612402D	-	NSYSPF12100	NSYSPS4100	
1800	600	300	1	NSYSM18630P	NSYSM18630	-	NSYSPF6100	NSYSPS3100	
1800	600	400	1	NSYSM18640P	NSYSM18640	NSYSM18640T	NSYSPF6100	NSYSPS4100	
1800	600	500	1	NSYSM18650P	NSYSM18650	-	NSYSPF6100	NSYSPS5100	
1800	800	300	1	NSYSM18830P	NSYSM18830	NSYSM18830T	NSYSPF8100	NSYSPS3100	
1800	800	400	1	NSYSM18840P	NSYSM18840	NSYSM18840T	NSYSPF8100	NSYSPS4100	
1800	800	500	1	NSYSM18850P	NSYSM18850	NSYSM18850T	NSYSPF8100	NSYSPS5100	
1800	800	600	1	NSYSM18860P	NSYSM18860	-	NSYSPF8100	NSYSPS6100	
1800	1000	400	1	NSYSM181040P	NSYSM181040	-	NSYSPF10100	NSYSPS4100	
1800	1000	400	2	NSYSM1810402DP	NSYSM1810402D	-	NSYSPF10100	NSYSPS4100	
1800	1000	500	2	NSYSM1810502DP	NSYSM1810502D	-	NSYSPF10100	NSYSPS5100	
1800	1200	400	2	NSYSM1812402DP	NSYSM1812402D	-	NSYSPF12100	NSYSPS4100	
1800	1200	500	2	NSYSM1812502DP	NSYSM1812502D	-	NSYSPF12100	NSYSPS5100	
1800	1600	400	2	NSYSM1816402DP	NSYSM1816402D	-	NSYSPF16100	NSYSPS4100	
1800	1600	500	2	NSYSM1816502DP	NSYSM1816502D	-	NSYSPF16100	NSYSPS5100	
2000	600	300	1	NSYSM20630P	NSYSM20630	-	NSYSPF6100	NSYSPS3100	
2000	600	400	1	NSYSM20640P	NSYSM20640	NSYSM20640T	NSYSPF6100	NSYSPS4100	
2000	600	500	1	NSYSM20650P	NSYSM20650	-	NSYSPF6100	NSYSPS5100	
2000	800	300	1	NSYSM20830P	NSYSM20830	NSYSM20830T	NSYSPF8100	NSYSPS3100	
2000	800	400	1	NSYSM20840P	NSYSM20840	NSYSM20840T	NSYSPF8100	NSYSPS4100	
2000	800	500	1	NSYSM20850P	NSYSM20850	NSYSM20850T	NSYSPF8100	NSYSPS5100	
2000	800	600	1	NSYSM20860P	NSYSM20860	NSYSM20860T	NSYSPF8100	NSYSPS6100	
2000	1000	400	2	NSYSM2010402DP	NSYSM2010402D	-	NSYSPF10100	NSYSPS4100	
2000	1000	500	2	NSYSM2010502DP	NSYSM2010502D	-	NSYSPF10100	NSYSPS5100	
2000	1200	400	2	NSYSM2012402DP	NSYSM2012402D	-	NSYSPF12100	NSYSPS4100	
2000	1200	500	2	NSYSM2012502DP	NSYSM2012502D	-	NSYSPF12100	NSYSPS5100	
2000	1200	600	2	NSYSM2012602DP	NSYSM2012602D	-	NSYSPF12100	NSYSPS6100	
2000	1600	400	2	NSYSM2016402DP	NSYSM2016402D	-	NSYSPF16100	NSYSPS4100	
2000	1600	500	2	NSYSM2016502DP	NSYSM2016502D	-	NSYSPF16100	NSYSPS5100	
2000	1600	600	2	NSYSM2016602DP	NSYSM2016602D	-	NSYSPF16100	NSYSPS6100	



Compact metal enclosures

Selection guide



Plinth Height 200 (mm)		Inner door	Mounting plate	Standard vertical uprights	Technical vertical uprights	Off-centre 19" swing rack	Centred 19" swing rack
Front kit (corners + front panels)	Side panels, 4 u.						
NSYSPPF8200	NSYSPS3200	-	NSYMP128	-	NSYTVR12	-	-
NSYSPPF10200	NSYSPS3200	-	NSYMP1210	-	NSYTVR12	-	-
NSYSPPF12200	NSYSPS4200	-	NSYMP1212	-	NSYTVR12	-	-
NSYSPPF6200	NSYSPS3200	-	NSYMP146	-	NSYTVR14	-	-
NSYSPPF6200	NSYSPS4200	-	NSYMP146	-	NSYTVR14	-	-
NSYSPPF8200	NSYSPS3200	-	NSYMP148	-	NSYTVR14	NSYRSW27	NSYRSCW27
NSYSPPF8200	NSYSPS4200	-	NSYMP148	-	NSYTVR14	NSYRSW27	NSYRSCW27
NSYSPPF10200	NSYSPS4200	-	NSYMP1410	-	NSYTVR14	-	-
NSYSPPF12200	NSYSPS4200	-	NSYMP1412	-	NSYTVR14	-	-
NSYSPPF6200	NSYSPS3200	NSYID166	NSYMP166	-	NSYTVR16	-	-
NSYSPPF6200	NSYSPS4200	NSYID166	NSYMP166	-	NSYTVR16	-	-
NSYSPPF8200	NSYSPS3200	NSYID168	NSYMP168	-	NSYTVR16	NSYRSW31	NSYRSCW31
NSYSPPF8200	NSYSPS4200	NSYID168	NSYMP168	-	NSYTVR16	NSYRSW31	NSYRSCW31
NSYSPPF10200	NSYSPS3200	-	NSYMP1610	-	NSYTVR16	-	-
NSYSPPF10200	NSYSPS4200	-	NSYMP1610	-	NSYTVR16	-	-
NSYSPPF12200	NSYSPS3200	-	NSYMP1612	-	NSYTVR16	-	-
NSYSPPF12200	NSYSPS4200	-	NSYMP1612	-	NSYTVR16	-	-
NSYSPPF6200	NSYSPS3200	NSYID186	NSYMP186	NSYVR18	NSYTVR18	-	-
NSYSPPF6200	NSYSPS4200	NSYID186	NSYMP186	NSYVR18	NSYTVR18	-	-
NSYSPPF6200	NSYSPS5200	NSYID186	NSYMP186	NSYVR18	NSYTVR18	-	-
NSYSPPF8200	NSYSPS3200	NSYID188	NSYMP188	NSYVR18	NSYTVR18	NSYRSW36	NSYRSCW36
NSYSPPF8200	NSYSPS4200	NSYID188	NSYMP188	NSYVR18	NSYTVR18	NSYRSW36	NSYRSCW36
NSYSPPF8200	NSYSPS5200	NSYID188	NSYMP188	NSYVR18	NSYTVR18	NSYRSW36	NSYRSCW36
NSYSPPF8200	NSYSPS6200	NSYID188	NSYMP188	NSYVR18	NSYTVR18	NSYRSW36	NSYRSCW36
NSYSPPF10200	NSYSPS4200	NSYID1810	NSYMP1810	NSYVR18	NSYTVR18	-	-
NSYSPPF10200	NSYSPS4200	NSYID1810	NSYMP1810	NSYVR18	NSYTVR18	-	-
NSYSPPF10200	NSYSPS5200	NSYID1810	NSYMP1810	NSYVR18	NSYTVR18	-	-
NSYSPPF12200	NSYSPS4200	-	NSYMP1812	NSYVR18	NSYTVR18	-	-
NSYSPPF12200	NSYSPS5200	-	NSYMP1812	NSYVR18	NSYTVR18	-	-
NSYSPPF16200	NSYSPS4200	-	NSYMP1816	NSYVR18	NSYTVR18	-	-
NSYSPPF16200	NSYSPS5200	-	NSYMP1816	NSYVR18	NSYTVR18	-	-
NSYSPPF6200	NSYSPS3200	NSYID206	NSYMP206	NSYVR20	NSYTVR20	-	-
NSYSPPF6200	NSYSPS4200	NSYID206	NSYMP206	NSYVR20	NSYTVR20	-	-
NSYSPPF6200	NSYSPS5200	NSYID206	NSYMP206	NSYVR20	NSYTVR20	-	-
NSYSPPF8200	NSYSPS3200	NSYID208	NSYMP208	NSYVR20	NSYTVR20	NSYRSW40	NSYRSCW40
NSYSPPF8200	NSYSPS4200	NSYID208	NSYMP208	NSYVR20	NSYTVR20	NSYRSW40	NSYRSCW40
NSYSPPF8200	NSYSPS5200	NSYID208	NSYMP208	NSYVR20	NSYTVR20	NSYRSW40	NSYRSCW40
NSYSPPF8200	NSYSPS6200	NSYID208	NSYMP208	NSYVR20	NSYTVR20	NSYRSW40	NSYRSCW40
NSYSPPF10200	NSYSPS4200	NSYID2010	NSYMP2010	NSYVR20	NSYTVR20	-	-
NSYSPPF10200	NSYSPS5200	NSYID2010	NSYMP2010	NSYVR20	NSYTVR20	-	-
NSYSPPF12200	NSYSPS4200	-	NSYMP2012	NSYVR20	NSYTVR20	-	-
NSYSPPF12200	NSYSPS5200	-	NSYMP2012	NSYVR20	NSYTVR20	-	-
NSYSPPF12200	NSYSPS6200	-	NSYMP2012	NSYVR20	NSYTVR20	-	-
NSYSPPF16200	NSYSPS4200	-	NSYMP2016	NSYVR20	NSYTVR20	-	-
NSYSPPF16200	NSYSPS5200	-	NSYMP2016	NSYVR20	NSYTVR20	-	-
NSYSPPF16200	NSYSPS6200	-	NSYMP2016	NSYVR20	NSYTVR20	-	-

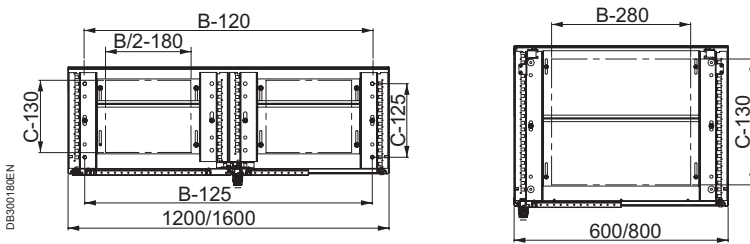
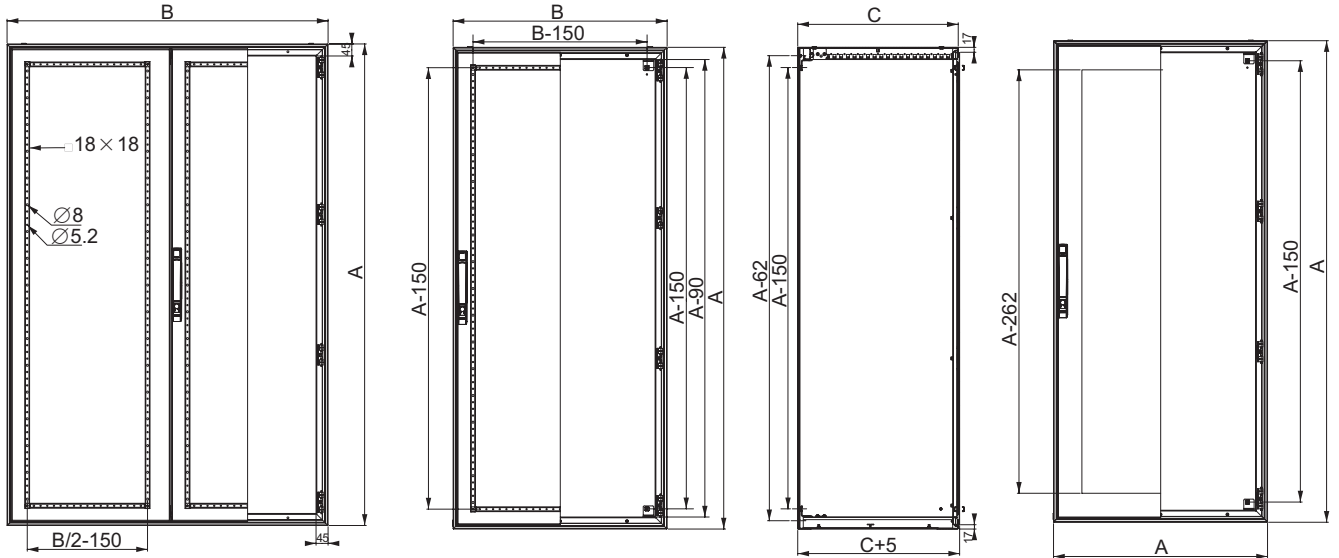
Cross rails
page 366

Lighting
page 473

Door switch
page 482

Cabling accessories
page 453

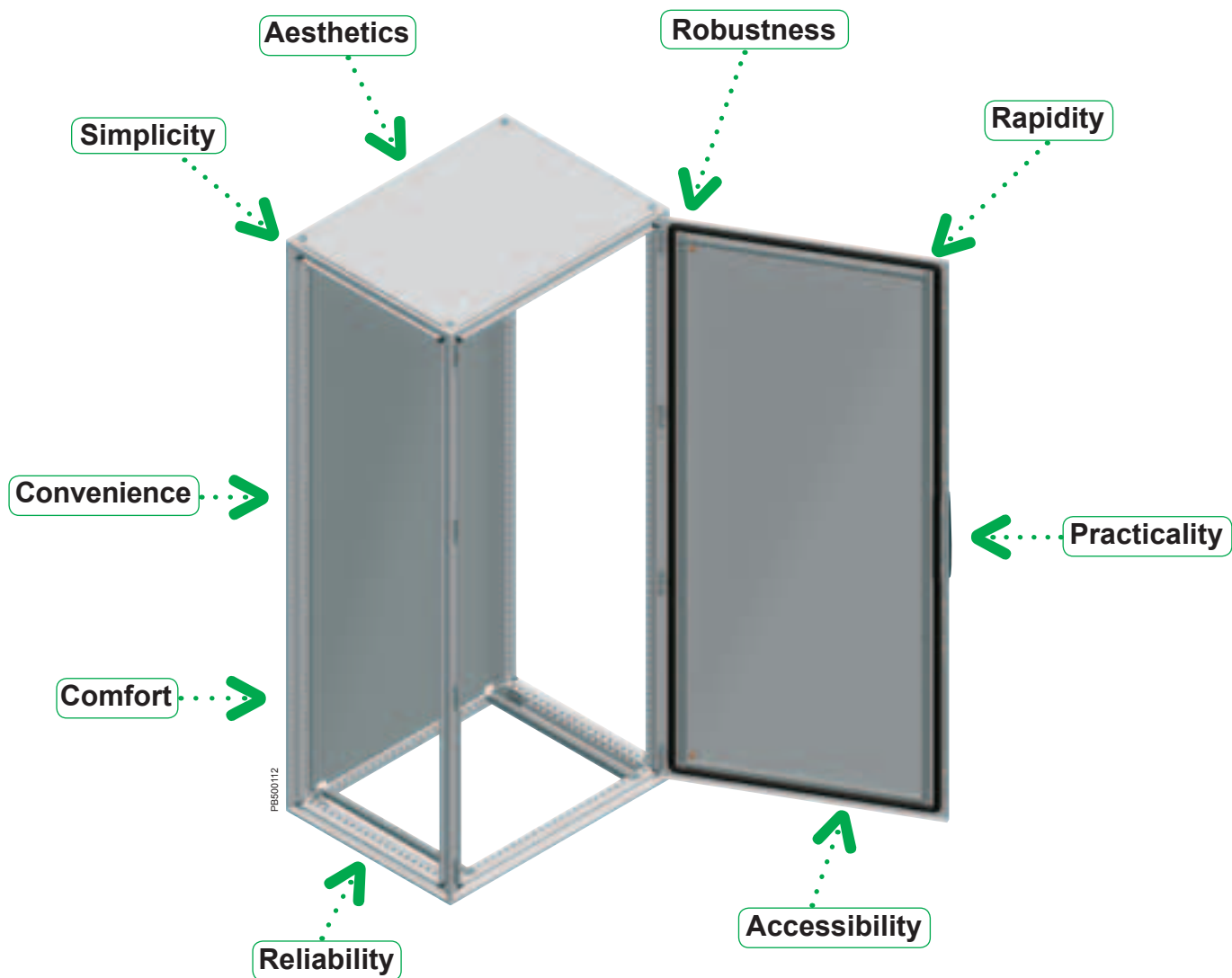
Dimensions



Models with a width of 1200 mm without top/bottom adjustment rails

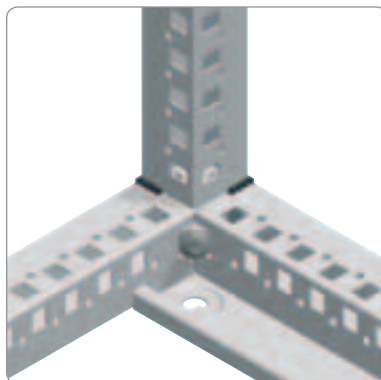
Suitable metal enclosures

Overview



Robustness:

Structure formed from a single 1.5-mm galvanised-steel section, with a high moment of inertia. Vertical uprights joined with top and bottom frames, screwed together with connections of sintered steel. Panels built into the structure.



Practicality:

Two door cross rails, which can be height-adjustable and used for fixing cables.

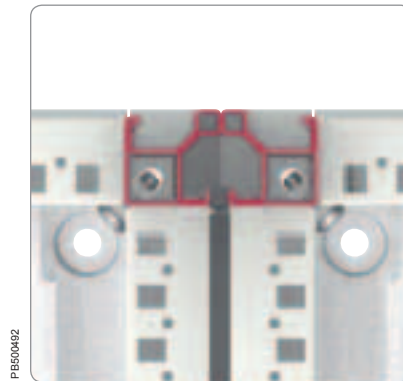


PB500491

Reliability:

The design of the profile creates a double protective barrier against the entry of water and dust when coupling two enclosures.

The first barrier is the metal connection of the sections, and the second barrier is the EPDM gasket that guarantees the sealing.



PB500492

Comfort:

Handle with robust design for easily activating the locking system, allowing the installation of any shape insert and any cylindrical combination key.

Panels with captive screws for easier assembly and dismantling.



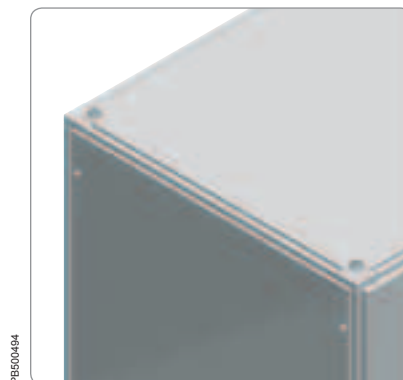
PB500471



PB500493

Aesthetics:

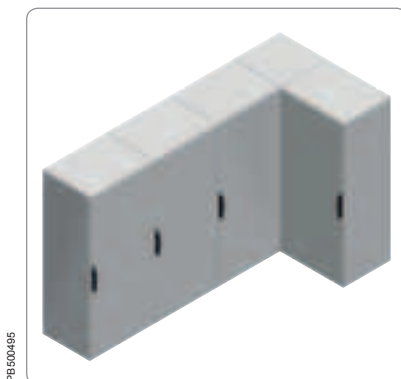
The built-in panels, enclosure suites and handle with new design give the enclosure a new appearance.



PB500494

Simplicity:

The new design allows enclosures to be coupled in any direction, adapting to all installation surfaces.



Convenience:

The customised product meets specific needs in terms of dimensions, cut-outs, colours and accessory installation.



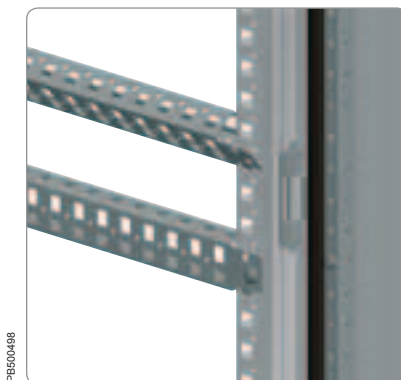
Accessibility:

The symmetric design of the profile allows doors to be installed on any side of the enclosure, opening to right or left, providing full accessibility to the enclosure.



Rapidity:

The double system of cut-outs on the structure allows most accessories to be installed using self-tapping TORX T30 M6 screws or nuts. Clip-on quick-fixing cross rails, fixed with self-tapping screws.



Suitable metal enclosures

Overview

Suitable metal enclosures, assembled and as kits

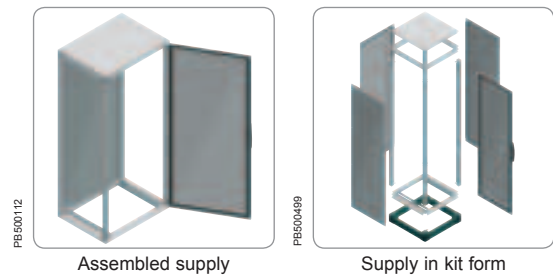
Enclosures compliant with international standard IEC 62208 for empty enclosures for low-voltage switchgear and controlgear assemblies.
 IP55 enclosure, IK10 for plain door and IK08 for transparent door.
 The structure is made from profiled and laser-welded galvanised steel, with vertical and horizontal cut-outs with a pitch of 25 mm.
 Doors made from folded and welded steel, 120° opening, hinges with captive pin made from zamak and handle lock with 5-mm double-bar insert.
 To guarantee the continuity of the protection circuit, according to standard IEC 62208, it is necessary to install a protection conductor.

Suitable metal enclosures

Assembled enclosure with plain or transparent front door and with rear panel, painted with epoxy-polyester resin, textured RAL 7035 grey, with or without galvanised-steel mounting plate.

Suitable metal enclosure kits

All the components that make up the suitable metal enclosure exist as separate references, offering multiple possibilities.



	Page	Page
Introduction	123	126
References	124	128
Dimensions	130	130

Compartmentalised enclosures and PC racks

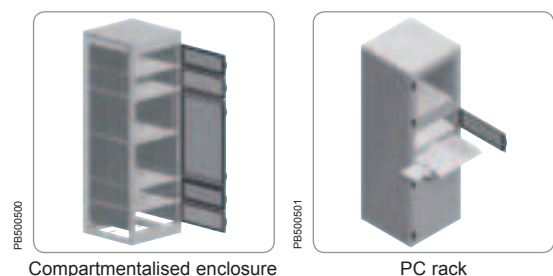
Roof and panels fixed from the inside (only for PC racks).
 Partial front doors, mounted with zamak hinges, 3-mm double-bar lock.
 Degree of protection IP40 with open keyboard tray.

Compartmentalised suitable metal enclosures

Compartmentalised enclosure separating the various working zones, limiting access to them, painted with epoxy-polyester resin, textured RAL 7035 grey.

PC racks

The PC rack is designed to protect computer equipment in an industrial environment, painted with epoxy-polyester resin, textured RAL 7035 grey.

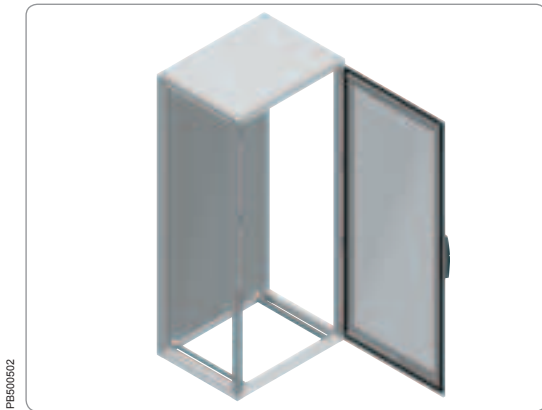


Page	Page
184	544

Electronic application

Transparent front door, plain rear door and side panels fixed from the outside. Painted with epoxy-polyester resin, textured RAL 7035 grey. In enclosures with widths of 600 and 800 mm, it is possible to install fixed or swing racks.

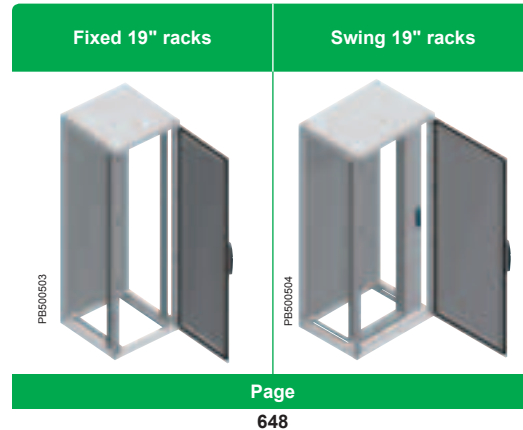
Electronic application, for 19" racks



PB500502

Page
638

Accessories for 19" racks



PB500505

Page
596

Prisma Plus application

Assembled or dismantled enclosures with a height of 2000 mm and 3 depths (500, 600 and 800 mm). Adaptation uprights allowing the installation of the components of the Prisma Plus functional frames.



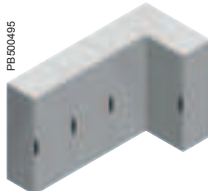
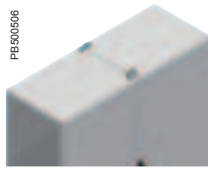
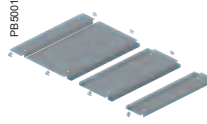
P550496

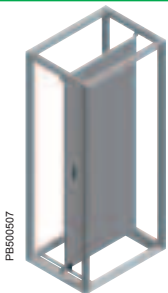
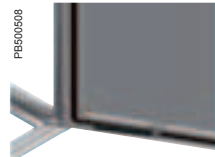




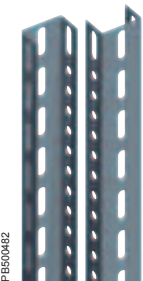
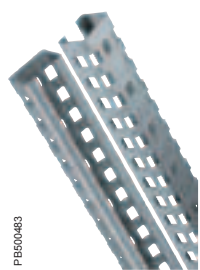
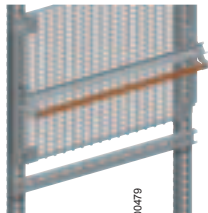
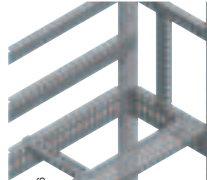
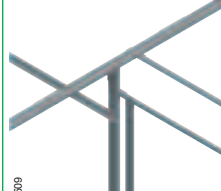
Customised suitable metal enclosures

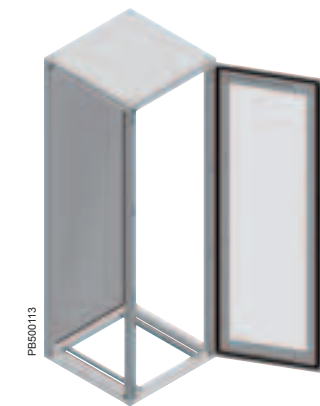
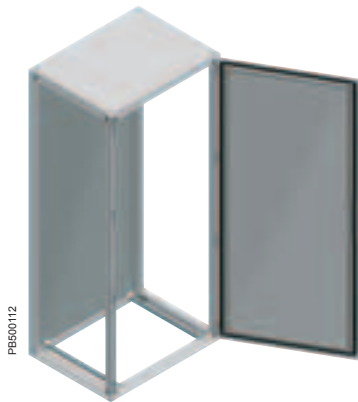
All RAL and NF colours. All surface treatments. All cut-outs made by high-precision laser, with no burrs or deformations.
Accessory installation in plant.

Main accessories

Side panels	Plinth	Enclosure suites	Lifting systems	Cable-entry plates
 PB500114	 PB500330	 PB500495	 PB500506	 PB500117
Page 135	Page 143	Page 138	Page 162	Page 156 and 168

Inner door	Door accessories	Locks and lock inserts
 PB500607	 PB500508	 PB500471
Page 174	Page 176	Page 178

Mounting plate	Standard uprights	Technical uprights	Rails	Cross rails	Rail connectors
 PB500477	 PB500482	 PB500483	 PB500479	 PB500486	 PB500509
Page 347	Page 359	Page 358	Page 379	Page 366	Page 388



Front door and rear panel, with or without IP55 galvanised mounting plate

Basic composition

- Structure: Top and bottom frame, vertical uprights.
- Front door, two versions:
 - Plain door with reinforcement frame.
 - Transparent Securit® glass door.
- The double doors are overlapping, with system for fixing the left door.
- Rear panel screwed on with captive screws.
- Removable roof.
- Standard locking system with handle and 5-mm double-bar insert.
- 4 support brackets for the mounting plate.
- Sliding rail for the mounting plate.
- Supply with or without galvanised mounting plate depending on the reference.
- Further options:
 - Cross rails.
 - Individual and set plinths with heights of 100 and 200 mm.
 - Cable-gland plates.

Certifications

- BV, DNV, UL and CUL*.
- *1 Door.- 1, 12, 12K
- *2 Doors.- 1, 12, 12K

Easy installation

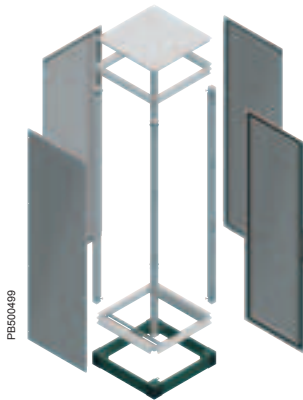
- The **Spacial SF** suitable metal enclosure is made up of: 4 uprights and 2 frames, top and bottom. Thanks to its use of a single, laser-welded, galvanised-steel structure, the enclosure has great robustness. The structure has cut-outs with a pitch of 25 mm for fixing accessories, using the same type of screw throughout the entire structure.
- The structure of the enclosure allows the integration of panels, thus obtaining the same nominal length (or size) with or without panels.
- Allows several enclosures to be coupled with full versatility. Offers the possibility of creating any desired shape of coupled enclosures, plus the possibility of installing doors on any side of the enclosure. The coupling surface between enclosures offers a double protective barrier against the entry of water and/or dust.
- The panels are made up of:
 - Sheet-steel door, painted with epoxy-polyester resin, textured RAL 7035 grey,
 - Sheet-steel rear and side panels painted with epoxy-polyester resin, textured RAL 7035 grey, double folded to increase the rigidity and fixed with captive screws that simplify assembly and dismantling.
 - Individual plinths or plinths for sets, painted with epoxy-polyester resin, RAL 7022 grey, greatly simplifying cable management.
- A broad range of accessories offered for the production of:
 - Plates for automatism.
 - Modular distribution system.
 - 19" racks.
 - etc.
- Degree of protection IP55 according to IEC 60529.
- Resistance to mechanical impacts: IK10 according to IEC 62262 (IK08 for the transparent doors).
- Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure.

Locking system

- New design, modern appearance, ergonomic, robust, complying with numerous specifications:
 - Combination keys.
 - Shape inserts.
 - Push button.
- Optional:
 - Handle lock, lock for versions DIN, KABA, ASSA.
 - Handle lock for 2 inserts, "AND" or "OR" combination.
 - Padlock locking.
 - CNOMO kit.

Suitable metal enclosures

Supplied as a kit



Basic composition

For the construction of a suitable metal enclosure, the following must be ordered separately:

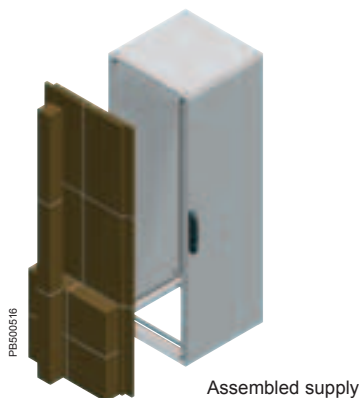
- Galvanised-steel structure, with a single laser-welded profile:
 - Bottom and top frame with roof.
 - Set of 4 vertical uprights.
- Sheet-steel panels, painted with epoxy-polyester resin, textured RAL7035 grey:
 - Rear panel to be screwed on from the outside.
 - Plain door, single or double, with hinges, catches for the locking bars and reinforcement frame, made up of two vertical uprights and two height-adjustable door cross rails.
 - Transparent Securit® glass door, with hinges and catches for the locking bars.
- Further options:
 - Composition accessories such as:
 - Plinths with heights of 100 and 200 mm.
 - Cable-entry plate, plain, with 1 entry and 2 entries.
 - Lifting accessories, door equipment, enclosure suites.
 - Lighting accessories.
 - Ventilation systems, etc.
 - Mounting accessories.
 - Cable management accessories.
 - Power distribution accessories.
 - Modular distribution accessories.
 - Lighting accessories.
 - Aeration, ventilation and air-conditioning systems.
- Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure.

Certifications

- BV, DNV, UL*, CUL.
- *1 Door.- 1, 12, 12K
- *2 Doors.- 1, 12, 12K

Advantages of the kit formula

- Very short structure assembly time: only 15 minutes, with the attachment of 8 screws.
- Reduction of the required working surface.
- Reduction of the volume required for transport and storage.
- Possibility of working on the panels and assembling the enclosure directly before cabling.
- Possibility of having spare panels.
- Great freedom for creating your own enclosure, combining all the available elements.

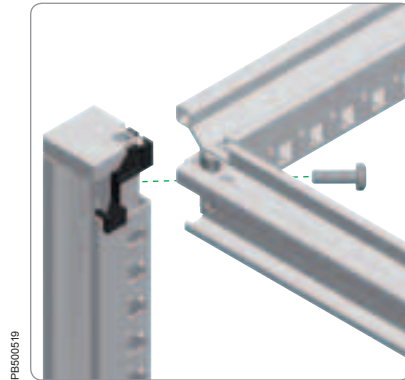


Supply in kit form

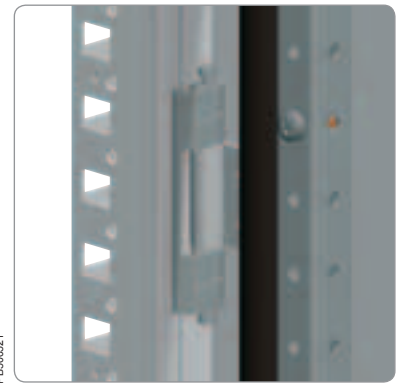
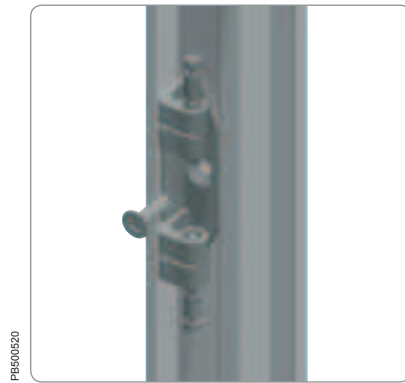
Suitable metal enclosures

Supplied as a kit

Placement and screwing of the 4 vertical uprights at the corners of the top and bottom frames. Fixing by 8 screws, one at each corner of the enclosure.



Fixing of the hinges and the catches of the locking bar on the vertical uprights. Door installation inserting the captive pins of the hinge in their housing in the door.



Suspension of the rear panel using a self-centring piece to facilitate screwing.

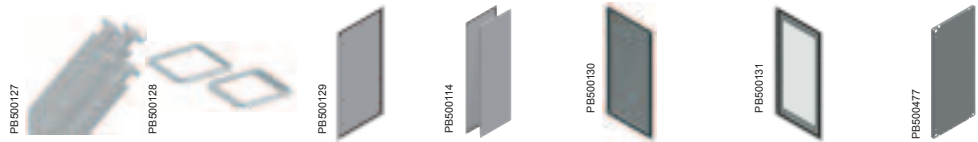


Screwing the panel on using captive screws, screwed directly onto the structure.



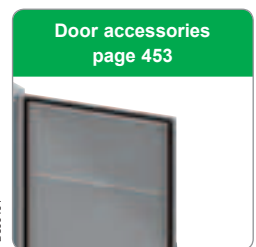
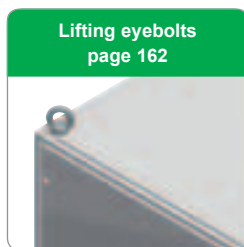
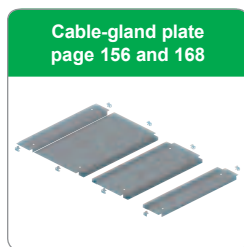
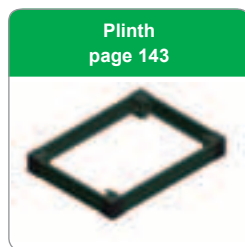
Suitable metal enclosures

Supplied as a kit



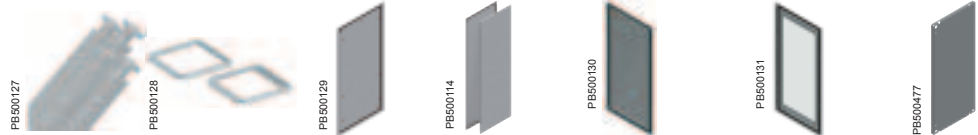
Nominal dimensions (mm)			No. of doors	Vertical uprights	Bottom frame and top frame with roof	Rear panel	Side panels	Plain door (1)	Transparent door (Securit® glass) (1)	Mounting plate
Height (A)	Width (B)	Depth (C)								
Painted with epoxy-polyester resin, textured RAL 7035										
1200	600	400	1	NSYSFV12	NSYSFC64	NSYBP126	NSY2SP124	NSYSFD126	NSYSFD126T	NSYMP126
1200	600	500	1	NSYSFV12	NSYSFC65	NSYBP126	NSY2SP125	NSYSFD126	NSYSFD126T	NSYMP126
1200	600	600	1	NSYSFV12	NSYSFC66	NSYBP126	NSY2SP126	NSYSFD126	NSYSFD126T	NSYMP126
1200	600	800	1	NSYSFV12	NSYSFC68	NSYBP126	NSY2SP128	NSYSFD126	NSYSFD126T	NSYMP126
1200	800	400	1	NSYSFV12	NSYSFC84	NSYBP128	NSY2SP124	NSYSFD128	NSYSFD128T	NSYMP128
1200	800	500	1	NSYSFV12	NSYSFC85	NSYBP128	NSY2SP125	NSYSFD128	NSYSFD128T	NSYMP128
1200	800	600	1	NSYSFV12	NSYSFC86	NSYBP128	NSY2SP126	NSYSFD128	NSYSFD128T	NSYMP128
1200	800	800	1	NSYSFV12	NSYSFC88	NSYBP128	NSY2SP128	NSYSFD128	NSYSFD128T	NSYMP128
1400	600	400	1	NSYSFV14	NSYSFC64	NSYBP146	NSY2SP144	NSYSFD146	NSYSFD146T	NSYMP146
1400	600	500	1	NSYSFV14	NSYSFC65	NSYBP146	NSY2SP145	NSYSFD146	NSYSFD146T	NSYMP146
1400	600	600	1	NSYSFV14	NSYSFC66	NSYBP146	NSY2SP146	NSYSFD146	NSYSFD146T	NSYMP146
1400	600	800	1	NSYSFV14	NSYSFC68	NSYBP146	NSY2SP148	NSYSFD146	NSYSFD146T	NSYMP146
1400	800	400	1	NSYSFV14	NSYSFC84	NSYBP148	NSY2SP144	NSYSFD148	NSYSFD148T	NSYMP148
1400	800	500	1	NSYSFV14	NSYSFC85	NSYBP148	NSY2SP145	NSYSFD148	NSYSFD148T	NSYMP148
1400	800	600	1	NSYSFV14	NSYSFC86	NSYBP148	NSY2SP146	NSYSFD148	NSYSFD148T	NSYMP148
1400	800	800	1	NSYSFV14	NSYSFC88	NSYBP148	NSY2SP148	NSYSFD148	NSYSFD148T	NSYMP148
1600	600	400	1	NSYSFV16	NSYSFC64	NSYBP166	NSY2SP164	NSYSFD166	NSYSFD166T	NSYMP166
1600	600	500	1	NSYSFV16	NSYSFC65	NSYBP166	NSY2SP165	NSYSFD166	NSYSFD166T	NSYMP166
1600	600	600	1	NSYSFV16	NSYSFC66	NSYBP166	NSY2SP166	NSYSFD166	NSYSFD166T	NSYMP166
1600	600	800	1	NSYSFV16	NSYSFC68	NSYBP166	NSY2SP168	NSYSFD166	NSYSFD166T	NSYMP166
1600	800	400	1	NSYSFV16	NSYSFC84	NSYBP168	NSY2SP164	NSYSFD168	NSYSFD168T	NSYMP168
1600	800	500	1	NSYSFV16	NSYSFC85	NSYBP168	NSY2SP165	NSYSFD168	NSYSFD168T	NSYMP168
1600	800	600	1	NSYSFV16	NSYSFC86	NSYBP168	NSY2SP166	NSYSFD168	NSYSFD168T	NSYMP168
1600	800	800	1	NSYSFV16	NSYSFC88	NSYBP168	NSY2SP168	NSYSFD168	NSYSFD168T	NSYMP168
1800	400	400	1	NSYSFV18	NSYSFC44	NSYBP184	NSY2SP184	NSYSFD184	-	-
1800	400	500	1	NSYSFV18	NSYSFC45	NSYBP184	NSY2SP185	NSYSFD184	-	-
1800	400	600	1	NSYSFV18	NSYSFC46	NSYBP184	NSY2SP186	NSYSFD184	-	-
1800	400	800	1	NSYSFV18	NSYSFC48	NSYBP184	NSY2SP188	NSYSFD184	-	-
1800	600	400	1	NSYSFV18	NSYSFC64	NSYBP186	NSY2SP184	NSYSFD186	NSYSFD186T	NSYMP186
1800	600	500	1	NSYSFV18	NSYSFC65	NSYBP186	NSY2SP185	NSYSFD186	NSYSFD186T	NSYMP186
1800	600	600	1	NSYSFV18	NSYSFC66	NSYBP186	NSY2SP186	NSYSFD186	NSYSFD186T	NSYMP186
1800	600	800	1	NSYSFV18	NSYSFC68	NSYBP186	NSY2SP188	NSYSFD186	NSYSFD186T	NSYMP186
1800	800	400	1	NSYSFV18	NSYSFC84	NSYBP188	NSY2SP184	NSYSFD188	NSYSFD188T	NSYMP188
1800	800	500	1	NSYSFV18	NSYSFC85	NSYBP188	NSY2SP185	NSYSFD188	NSYSFD188T	NSYMP188
1800	800	600	1	NSYSFV18	NSYSFC86	NSYBP188	NSY2SP186	NSYSFD188	NSYSFD188T	NSYMP188
1800	800	800	2	NSYSFV18	NSYSFC86	NSYBP188	NSY2SP186	NSYSFD1882D	-	NSYMP188
1800	800	800	1	NSYSFV18	NSYSFC88	NSYBP188	NSY2SP188	NSYSFD188	NSYSFD188T	NSYMP188
1800	800	800	2	NSYSFV18	NSYSFC88	NSYBP188	NSY2SP188	NSYSFD1882D	-	NSYMP188
1800	1000	400	1	NSYSFV18	NSYSFC104	NSYBP1810	NSY2SP184	NSYSFD1810	NSYSFD1810T	NSYMP1810
1800	1000	400	2	NSYSFV18	NSYSFC104	NSYBP1810	NSY2SP184	NSYSFD18102D	-	NSYMP1810
1800	1000	500	1	NSYSFV18	NSYSFC105	NSYBP1810	NSY2SP185	NSYSFD1810	NSYSFD1810T	NSYMP1810
1800	1000	600	1	NSYSFV18	NSYSFC106	NSYBP1810	NSY2SP186	NSYSFD1810	NSYSFD1810T	NSYMP1810
1800	1000	600	2	NSYSFV18	NSYSFC106	NSYBP1810	NSY2SP186	NSYSFD18102D	-	NSYMP1810
1800	1000	800	1	NSYSFV18	NSYSFC108	NSYBP1810	NSY2SP188	NSYSFD1810	NSYSFD1810T	NSYMP1810
1800	1000	800	2	NSYSFV18	NSYSFC108	NSYBP1810	NSY2SP188	NSYSFD18102D	-	NSYMP1810
1800	1200	400	2	NSYSFV18	NSYSFC124	NSYBP1812	NSY2SP184	NSYSFD18122D	NSYSFD18122DT	NSYMP1812
1800	1200	500	2	NSYSFV18	NSYSFC125	NSYBP1812	NSY2SP185	NSYSFD18122D	NSYSFD18122DT	NSYMP1812
1800	1200	600	2	NSYSFV18	NSYSFC126	NSYBP1812	NSY2SP186	NSYSFD18122D	NSYSFD18122DT	NSYMP1812
1800	1200	800	2	NSYSFV18	NSYSFC128	NSYBP1812	NSY2SP188	NSYSFD18122D	NSYSFD18122DT	NSYMP1812

(1) Hinges, locking bar catches and handle with 5-mm double-bar insert included.



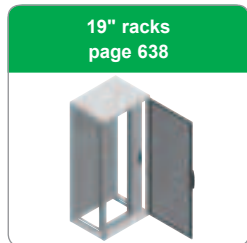
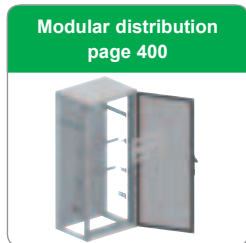
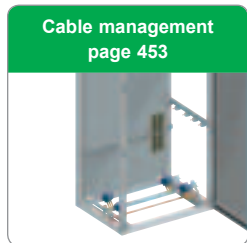
Suitable metal enclosures

Supplied as a kit



Nominal dimensions (mm)			No. of doors	Vertical uprights	Bottom frame and top frame with roof	Rear panel	Side panels	Plain door (1)	Transparent door (Securit® glass) (1)	Mounting plate
Height (A)	Width (B)	Depth (C)								
Painted with epoxy-polyester resin, textured RAL 7035										
2000	300	500	1	NSYSFV20	NSYSFC35	NSYBP203	NSY2SP205	NSYSFD203	-	-
2000	300	600	1	NSYSFV20	NSYSFC36	NSYBP203	NSY2SP206	NSYSFD203	-	-
2000	400	400	1	NSYSFV20	NSYSFC44	NSYBP204	NSY2SP204	NSYSFD204	-	-
2000	400	500	1	NSYSFV20	NSYSFC45	NSYBP204	NSY2SP205	NSYSFD204	-	-
2000	400	600	1	NSYSFV20	NSYSFC46	NSYBP204	NSY2SP206	NSYSFD204	-	-
2000	400	800	1	NSYSFV20	NSYSFC48	NSYBP204	NSY2SP208	NSYSFD204	-	-
2000	600	400	1	NSYSFV20	NSYSFC64	NSYBP206	NSY2SP204	NSYSFD206	NSYSFD206T	NSYMP206
2000	600	500	1	NSYSFV20	NSYSFC65	NSYBP206	NSY2SP205	NSYSFD206	NSYSFD206T	NSYMP206
2000	600	600	1	NSYSFV20	NSYSFC66	NSYBP206	NSY2SP206	NSYSFD206	NSYSFD206T	NSYMP206
2000	600	800	1	NSYSFV20	NSYSFC68	NSYBP206	NSY2SP208	NSYSFD206	NSYSFD206T	NSYMP206
2000	800	400	1	NSYSFV20	NSYSFC84	NSYBP208	NSY2SP204	NSYSFD208	NSYSFD208T	NSYMP208
2000	800	500	1	NSYSFV20	NSYSFC85	NSYBP208	NSY2SP205	NSYSFD208	NSYSFD208T	NSYMP208
2000	800	600	1	NSYSFV20	NSYSFC86	NSYBP208	NSY2SP206	NSYSFD208	NSYSFD208T	NSYMP208
2000	800	600	2	NSYSFV20	NSYSFC86	NSYBP208	NSY2SP206	NSYSFD2082D	-	NSYMP208
2000	800	800	1	NSYSFV20	NSYSFC88	NSYBP208	NSY2SP208	NSYSFD208	NSYSFD208T	NSYMP208
2000	800	800	2	NSYSFV20	NSYSFC88	NSYBP208	NSY2SP208	NSYSFD2082D	-	NSYMP208
2000	1000	400	1	NSYSFV20	NSYSFC104	NSYBP2010	NSY2SP204	NSYSFD2010	NSYSFD2010T	NSYMP2010
2000	1000	400	2	NSYSFV20	NSYSFC104	NSYBP2010	NSY2SP204	NSYSFD20102D	-	NSYMP2010
2000	1000	500	1	NSYSFV20	NSYSFC105	NSYBP2010	NSY2SP205	NSYSFD2010	NSYSFD2010T	NSYMP2010
2000	1000	500	2	NSYSFV20	NSYSFC105	NSYBP2010	NSY2SP205	NSYSFD20102D	-	NSYMP2010
2000	1000	600	1	NSYSFV20	NSYSFC106	NSYBP2010	NSY2SP206	NSYSFD2010	NSYSFD2010T	NSYMP2010
2000	1000	600	2	NSYSFV20	NSYSFC106	NSYBP2010	NSY2SP206	NSYSFD20102D	-	NSYMP2010
2000	1000	800	1	NSYSFV20	NSYSFC108	NSYBP2010	NSY2SP208	NSYSFD2010	NSYSFD2010T	NSYMP2010
2000	1000	800	2	NSYSFV20	NSYSFC108	NSYBP2010	NSY2SP208	NSYSFD20102D	-	NSYMP2010
2000	1200	400	2	NSYSFV20	NSYSFC124	NSYBP2012	NSY2SP204	NSYSFD20122D	NSYSFD20122DT	NSYMP2012
2000	1200	500	2	NSYSFV20	NSYSFC125	NSYBP2012	NSY2SP205	NSYSFD20122D	NSYSFD20122DT	NSYMP2012
2000	1200	600	2	NSYSFV20	NSYSFC126	NSYBP2012	NSY2SP206	NSYSFD20122D	NSYSFD20122DT	NSYMP2012
2000	1200	800	2	NSYSFV20	NSYSFC128	NSYBP2012	NSY2SP208	NSYSFD20122D	NSYSFD20122DT	NSYMP2012
2000	1600	400	2	NSYSFV20	NSYSFC164	NSYBP2016	NSY2SP204	NSYSFD20162D	-	NSYMP2016
2000	1600	500	2	NSYSFV20	NSYSFC165	NSYBP2016	NSY2SP205	NSYSFD20162D	-	NSYMP2016
2000	1600	600	2	NSYSFV20	NSYSFC166	NSYBP2016	NSY2SP206	NSYSFD20162D	-	NSYMP2016
2200	400	400	1	NSYSFV22	NSYSFC44	NSYBP224	NSY2SP224	NSYSFD224	-	-
2200	400	500	1	NSYSFV22	NSYSFC45	NSYBP224	NSY2SP225	NSYSFD224	-	-
2200	400	600	1	NSYSFV22	NSYSFC46	NSYBP224	NSY2SP226	NSYSFD224	-	-
2200	400	800	1	NSYSFV22	NSYSFC48	NSYBP224	NSY2SP228	NSYSFD224	-	-
2200	600	400	1	NSYSFV22	NSYSFC64	NSYBP226	NSY2SP224	NSYSFD226	NSYSFD226T	NSYMP226
2200	600	500	1	NSYSFV22	NSYSFC65	NSYBP226	NSY2SP225	NSYSFD226	NSYSFD226T	NSYMP226
2200	600	600	1	NSYSFV22	NSYSFC66	NSYBP226	NSY2SP226	NSYSFD226	NSYSFD226T	NSYMP226
2200	600	800	1	NSYSFV22	NSYSFC68	NSYBP226	NSY2SP228	NSYSFD226	NSYSFD226T	NSYMP226
2200	800	400	1	NSYSFV22	NSYSFC84	NSYBP228	NSY2SP224	NSYSFD228	NSYSFD228T	NSYMP228
2200	800	500	1	NSYSFV22	NSYSFC85	NSYBP228	NSY2SP225	NSYSFD228	NSYSFD228T	NSYMP228
2200	800	600	1	NSYSFV22	NSYSFC86	NSYBP228	NSY2SP226	NSYSFD228	NSYSFD228T	NSYMP228
2200	800	800	1	NSYSFV22	NSYSFC88	NSYBP228	NSY2SP228	NSYSFD228	NSYSFD228T	NSYMP228
2200	1000	400	1	NSYSFV22	NSYSFC104	NSYBP2210	NSY2SP224	NSYSFD2210	NSYSFD2210T	NSYMP2210
2200	1000	500	1	NSYSFV22	NSYSFC105	NSYBP2210	NSY2SP225	NSYSFD2210	NSYSFD2210T	NSYMP2210
2200	1000	600	1	NSYSFV22	NSYSFC106	NSYBP2210	NSY2SP226	NSYSFD2210	NSYSFD2210T	NSYMP2210
2200	1000	800	1	NSYSFV22	NSYSFC108	NSYBP2210	NSY2SP228	NSYSFD2210	NSYSFD2210T	NSYMP2210
2200	1200	400	2	NSYSFV22	NSYSFC124	NSYBP2212	NSY2SP224	NSYSFD22122D	NSYSFD22122DT	NSYMP2212
2200	1200	500	2	NSYSFV22	NSYSFC125	NSYBP2212	NSY2SP225	NSYSFD22122D	NSYSFD22122DT	NSYMP2212
2200	1200	600	2	NSYSFV22	NSYSFC126	NSYBP2212	NSY2SP226	NSYSFD22122D	NSYSFD22122DT	NSYMP2212
2200	1200	800	2	NSYSFV22	NSYSFC128	NSYBP2212	NSY2SP228	NSYSFD22122D	NSYSFD22122DT	NSYMP2212

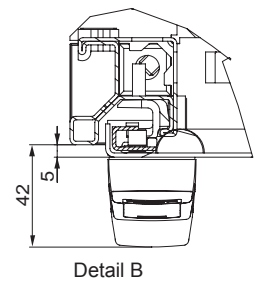
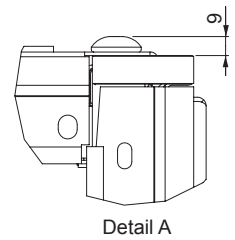
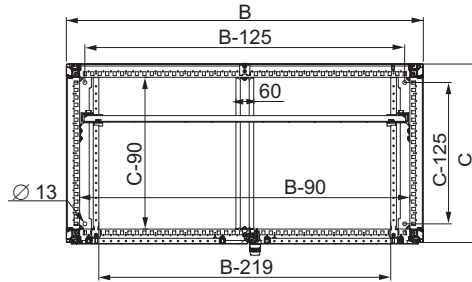
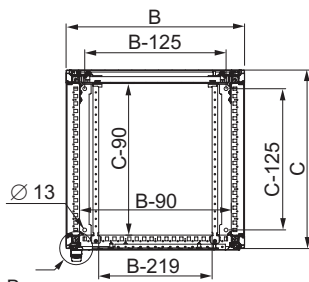
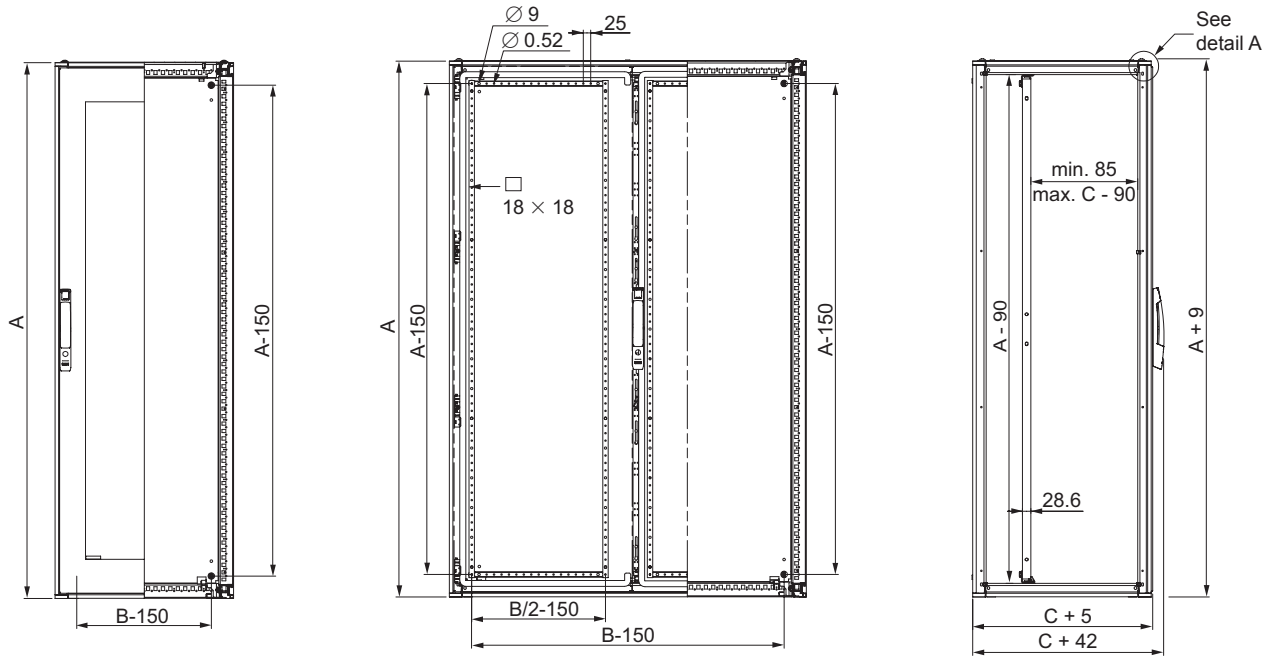
(1) Hinges, locking bar catches and handle with 5-mm double-bar insert included.



Suitable metal enclosures

Dimensions

Dimensions




DE3001E1EN

See detail B

Detail A

Detail B



> Lifting
Page 162

> Canopies
Page 166

> For cable entries
(membranes, cable-glands)
Page 95 / 434

> Locks and inserts
Page 178

> Door accessories
Page 176

> Industrial control
Page 350

> 19" frame
Page 648

> Modular distribution
Page 400

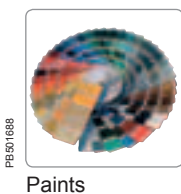
> Thermal control
Page 762

> Plinth
Page 143

> Fixing to the floor
Page 153

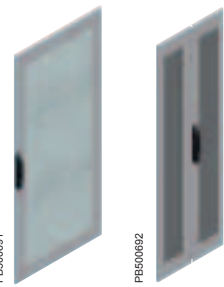
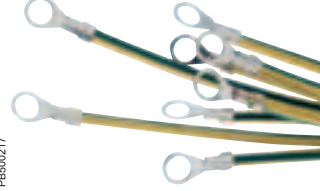
PB500756

Customised service: All standard dimensions from our catalogue on request and more...

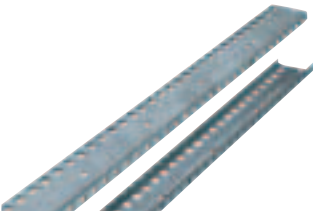
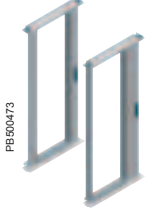

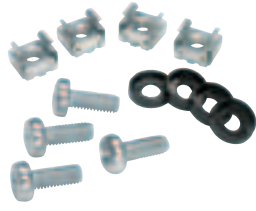


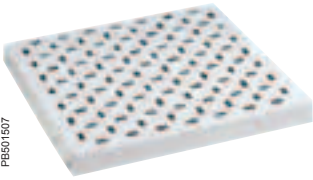
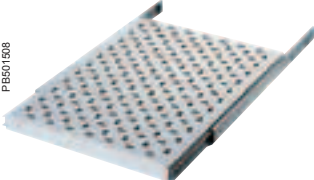

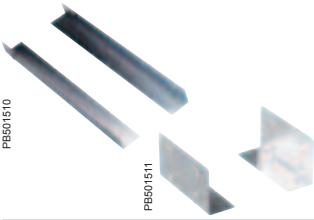
Main accessories for Spacial SM and SF enclosures

Composition accessories

SF cladding		SF-SM cladding	
 <p>PB500114 PB500327</p>	 <p>PB500678</p>	 <p>PB500691 PB500692</p>	 <p>PB500631</p>
<p>Side panels</p> <p>Page 135</p>	<p>Blanking plate for roof and ventilated roof</p> <p>Page 642 and 646</p>	<p>Off-centre ventilated and glazed door</p> <p>Page 647</p>	<p>Coupling kit</p> <p>Page 139</p>
SF base		SF-SM base	
 <p>PB500219</p>	 <p>PB500330 PB501528</p>	 <p>PB500115 PB500116</p>	 <p>PB500685 PB500684 PB500686 PB500687</p>
<p>Castors</p> <p>Page 495</p>	<p>100- and 200-mm plinth</p> <p>Page 143, 149 and 153-155</p>	<p>Cable-gland plates</p> <p>Page 156, 640 and 641</p>	<p>Roof plates Blanking plates, brush gaskets, etc.</p> <p>Page 644</p>
SF-SM hoisting		SF-SM door	
 <p>PB500514</p>	 <p>PB500320</p>	 <p>PB500217</p>	 <p>PB500471 PB500614</p>
<p>Lifting eye</p> <p>Page 162</p>	<p>180° hinge and door switch</p> <p>Page 176 and 482</p>	<p>Earthing kit</p> <p>Page 492</p>	<p>Locks and inserts</p> <p>Page 178</p>

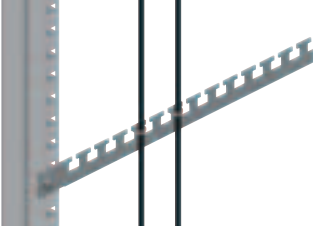

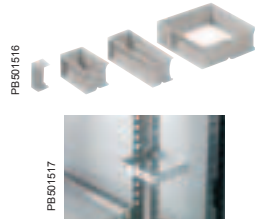
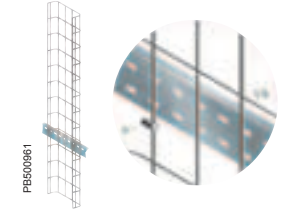
Mounting accessories

Installation		Equipment support	
 <p>PB501505</p>	 <p>PB500473</p>	 <p>PB500728</p>	 <p>PB500189</p>
Fixed 19" uprights and supports	19" swing racks and supports	19" swing rack accessories	Fixings for 19" racks
Page	Page	Page	Page
648 and 649	651, 654 and 655	657 and 659	660

Equipment support*			
 <p>PB501507</p>	 <p>PB501508</p>	 <p>PB501509</p>	 <p>PB501510 PB501511</p>
Perforated or plain fixed 19" trays	Perforated or plain telescopic 19" trays	Storage drawer	Fixed partial or full slides

* See on our website "Network connectivity".

Cable-management accessories

Cable support		Cable distribution	
 <p>PB500969</p>	 <p>PB500964</p>	 <p>PB301516 PB501517</p>	 <p>PB500861</p>
Cable-support cross-rails on framework	Cable gland for door	Plastic or metal guides*	Wired cable trays
Page	Page		Page
452	458		463

Thermal-management accessories

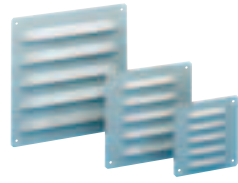
Natural ventilation



PB500683

Roof elevators

Page
167

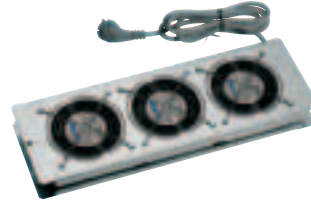


PB500769

Ventilation louvres

Page
698

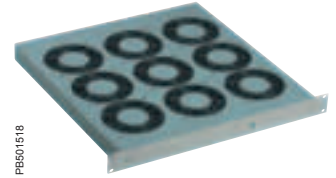
Ventilation



PB500687

Blanking plate with fans

Page
644

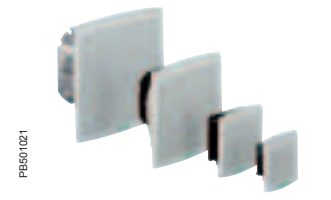


PB501518

19" drawer*

* See on our website "Network connectivity".

Ventilation

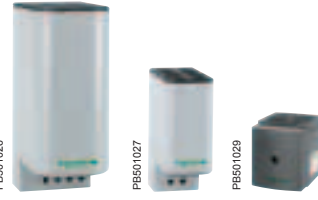


PB501021

Fans

Page
678

Resistances



PB501028

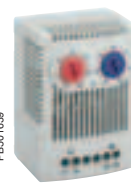
PB501027

PB501029

Resistance heaters

Page
750

Control

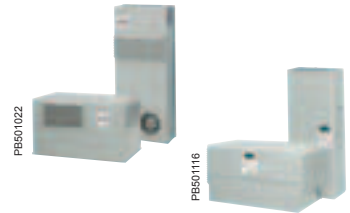


PB501639

Thermostats, hygrostats,
hygrotherms

Page
762

IP air-conditioning



PB501022

PB501116

Exchangers and cooling units

Page
700 and 716



PBE500114

Side panels

External fixing

- Set of 2 side panels fixed from the outside of the enclosure.
- Captive screws.
- Material: steel.
- Finish: painted with epoxy-polyester resin, textured RAL 7035 grey.



Supply: 2 side panels fixed from the outside and fixing elements.

Nominal dimensions (mm)		Reference
Height	Depth	
1200	400	NSY2SP124
	500	NSY2SP125
	600	NSY2SP126
	800	NSY2SP128
1400	400	NSY2SP144
	500	NSY2SP145
	600	NSY2SP146
	800	NSY2SP148
1600	400	NSY2SP164
	500	NSY2SP165
	600	NSY2SP166
	800	NSY2SP168
1800	400	NSY2SP184
	500	NSY2SP185
	600	NSY2SP186
	800	NSY2SP188
2000	400	NSY2SP204
	500	NSY2SP205
	600	NSY2SP206
	800	NSY2SP208
2200	400	NSY2SP224
	500	NSY2SP225
	600	NSY2SP226
	800	NSY2SP228



PBE500625

Trim cap

- Trim cap for external fixing panels, both side and rear.
- Material: polyamide 6.
- Finish: RAL 7035 grey.



Supply: 50 units.



Reference by unit. Order by multiples of 50 (50, 100, 150...).

Reference

NSYCSP



> Advantage:

They prevent access by unauthorised persons; advisable for use in public spaces.

Side panels

Internal fixing

- Set of 2 side panels fixed from the inside of the enclosure, preventing access by unauthorised persons. Very useful in public spaces.
- Material: steel.
- Finish: painted with epoxy-polyester resin, textured RAL 7035 grey.



Supply: 2 side panels with internal fixing, with sealing gasket and bag of accessories.

Nominal dimensions (mm)		Reference
Height	Depth	
1200	600	NSY2SPI126
	500	NSY2SPI185
1800	600	NSY2SPI186
	800	NSY2SPI188
2000	400	NSY2SPI204
	500	NSY2SPI205
	600	NSY2SPI206
	800	NSY2SPI208
2200	600	NSY2SPI226
	800	NSY2SPI228



> Advantage:

Quick access to the inside of the enclosure.

Quick-fixing side panels

- Set of 2 side panels fixed to the outside of the enclosure by clipping locks.
- Material: steel.
- Finish: painted with epoxy-polyester resin, textured RAL 7035 grey.
- IP40.



Supply: 2 side panels, fixed by clips, with no sealing gasket and fixing elements.

Nominal dimensions (mm)		Reference
Height	Depth	
1200	600	NSY2SPQ126
	800	NSY2SPQ128
1400	600	NSY2SPQ146
	800	NSY2SPQ148
1600	600	NSY2SPQ166
	800	NSY2SPQ168
1800	600	NSY2SPQ186
	800	NSY2SPQ188
2000	600	NSY2SPQ206
	800	NSY2SPQ208
2200	600	NSY2SPQ226
	800	NSY2SPQ228



PB500129

> Advantage:

It prevents access by unauthorised persons; advisable for use in public spaces.

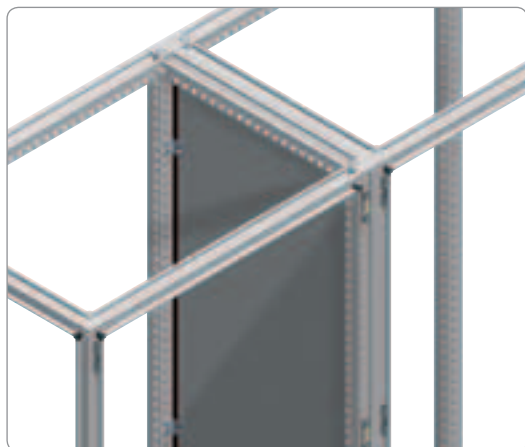
Internal fixing rear panel

- Rear panel fixed from the inside of the enclosure, preventing unauthorised personnel from accessing and removing it. Normally used in public spaces.
- Material: steel.
- Finish: painted with epoxy-polyester resin, textured RAL 7035 grey.



Supply: 1 rear panel fixed from the inside and fixing elements.

Nominal dimensions (mm)		Reference
Height	Width	
1200	600	NSYBPI126
	600	NSYBPI166
1600	800	NSYBPI168
	600	NSYBPI186
1800	800	NSYBPI188
	1000	NSYBPI1810
	400	NSYBPI204
2000	600	NSYBPI206
	800	NSYBPI208
	1000	NSYBPI2010
	1200	NSYBPI2012
2200	600	NSYBPI226
	800	NSYBPI228
	1000	NSYBPI2210



PB50028

Partition panel

- Partition panel for direct fixing to the structure, guarantees a water/dustproof protection of IP10 between enclosure suites.
- Material: galvanised steel.



Supply: 1 partition panel, sealing gasket and fixing elements.

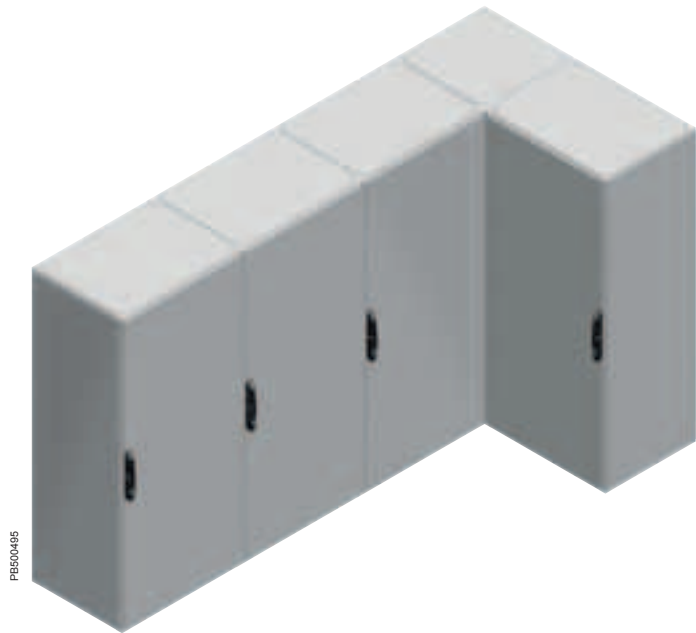
Nominal dimensions (mm)		Reference
Height	Depth	
1600	600	NSYPPS166
	800	NSYPPS168
1800	400	NSYPPS184
	500	NSYPPS185
	600	NSYPPS186
2000	400	NSYPPS204
	500	NSYPPS205
	600	NSYPPS206
	800	NSYPPS208
2200	600	NSYPPS226
	800	NSYPPS228

Combination examples with Spacial SF

The construction design of the enclosures is based on forming sets of enclosures. Thanks to the speed and ease with which enclosures can be coupled in the width and depth directions, and the elements created especially to facilitate joining and transporting them, we can provide the best solution for every electric installation. The connecting parts are fixed to the enclosures using self-tapping M6 screws, although if necessary they can be installed using M6 and M8 gaged nuts **NSYCNFM6, NSYCNFM8**.

Combination examples	References
Standard + reinforced coupling kit	NSYSFBK + NSYSFBKR
19" + reinforced coupling kit	NSYSFBK19 + NSYSFBKR
External + reinforced coupling kit	NSYSFBKE + NSYSFBKR
External + quick coupling kit	NSYSFBKE + NSYSFBKF

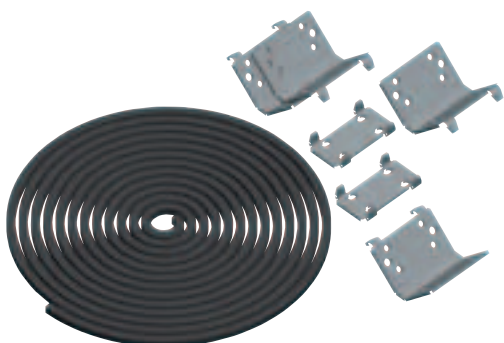
Note: maximum load under optimum conditions. See other options in the lifting and transport table page 163.



> Advantage:

Multiple assembly options, adapting to all needs.

PB500513



Standard coupling kit

- Used for joining enclosures side-to-side or depthwise.
- Fixing from the inside of the enclosures.
- Degree of protection: IP55.
- Material:
 - Flat connectors and brackets: zinc-coated steel.
 - Sealing gasket: EPDM.

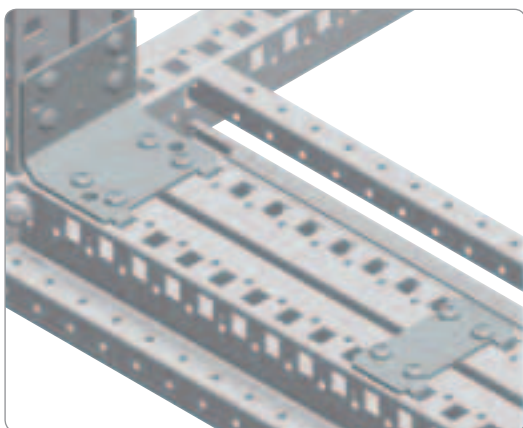


Supply: 4 brackets, 2 flat connectors, sealing gasket and fixing elements.

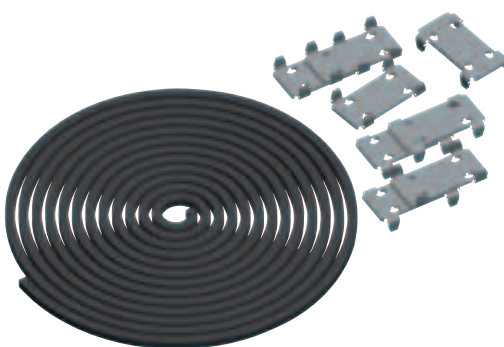
Reference

NSYSFBK

PB500530



PB500531



Swing 19" rack coupling kit

- Used for joining enclosures equipped with swing 19" rack, side-to-side or depthwise.
- Fixing from the inside of the enclosures.
- Degree of protection: IP55.
- Material:
 - Flat connectors: zinc-coated steel.
 - Sealing gasket: EPDM.

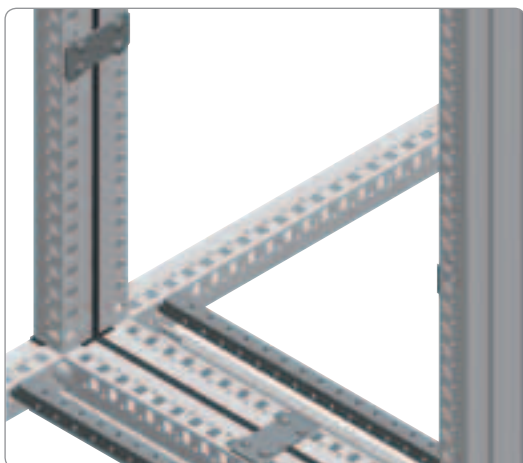


Supply: 8 flat connectors, sealing gasket and fixing elements.

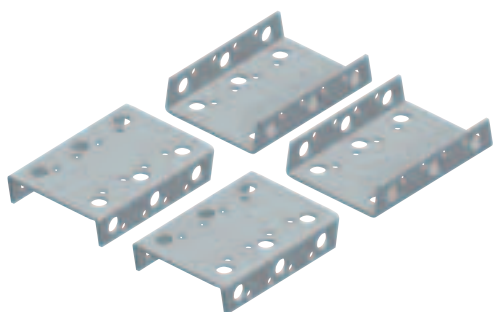
Reference

NSYSFBK19

PB500532



PB600533



Reinforced coupling

- It is used together with the **coupling kit** to reinforce the connection between 2 enclosures when they carry heavy loads.
- Fixing from the inside of the enclosures.
- Material: zinc-coated steel.

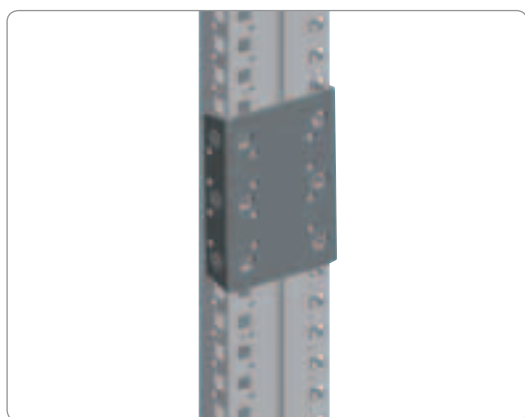


Supply: 4 reinforced connectors and fixing elements.

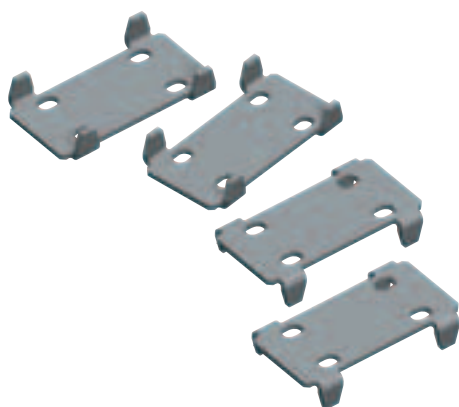
Reference

NSYSFBKR

PB600534



PB600535



Quick coupling

- Used for quickly joining 2 enclosures.
- Fixing from the inside of the enclosures.
- Recommended for coupling enclosures in their provisional workshop location, when the required IP degree is not high.
- Degree of protection: IP40.
- Material: zinc-coated steel.

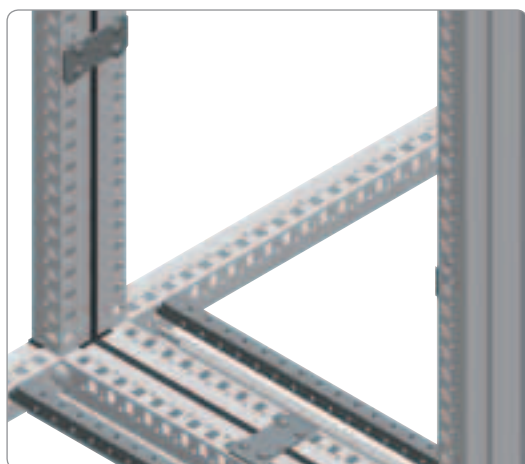


Supply: 4 flat links and fixing elements.

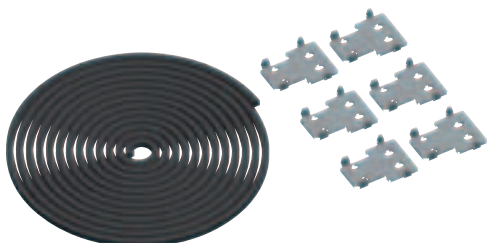
Reference

NSYSFBKF

PB600532




PB500536



Kit for coupling the previous version with Spacial SF

- It is used for coupling an enclosure of a previous version (OLN or Spacial 6000) side-to-side or depthwise with a **Spacial SF** enclosure.
- Fixing from the inside of the enclosures.
- Degree of protection: IP55.
- Material:
 - Flat connectors and spacers: zinc-coated steel.
 - Sealing gasket: EPDM.

 Supply: 6 flat connectors, sealing gasket and fixing elements.

Reference


NSYSFBKSH

PB500537



External coupling

- Allows two enclosures to be joined by their structure.
- To be used with the standard coupling kit in those cases where front and back uprights are not accessible.
- The mounting plate or vertical uprights fixed to the back of the enclosure prevent the assembly and dismantling of the kit.
- It can be combined with the reinforced or the quick coupling kit.
- Degree of protection: IP55.
- Material:
 - External connectors: zinc-coated steel.
 - Sealing gasket: EPDM.

 Supply: 4 external connectors and fixing elements.

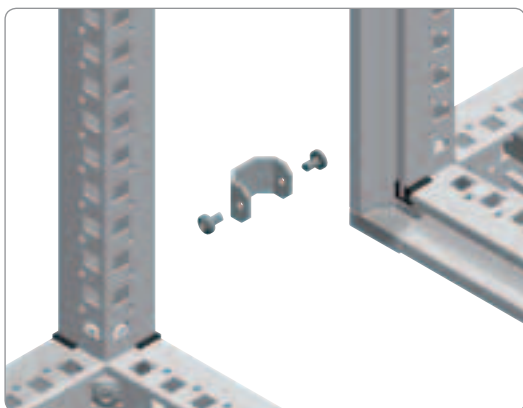
Reference

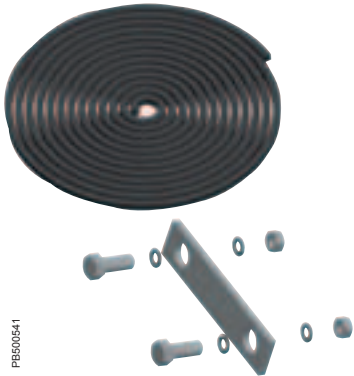
NSYSFBKE

PB500538



PB500539





PB500541

Enclosure coupling kit for Spacial SM

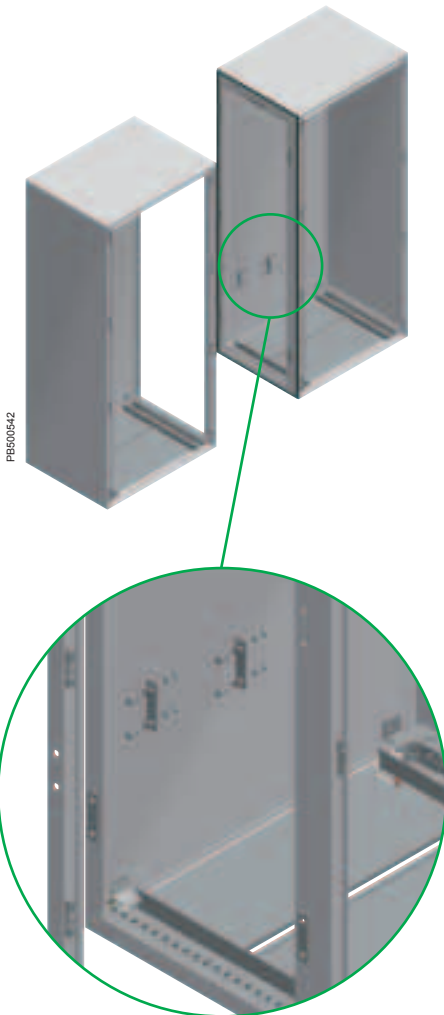
- Used for joining enclosures side-to-side.
- Enclosures fixed from the inside.
- Degree of protection: IP55.
- Material:
- 9 x 11 sealing gasket: EPDM.



Supply: 1 sealing gasket and fixing elements.

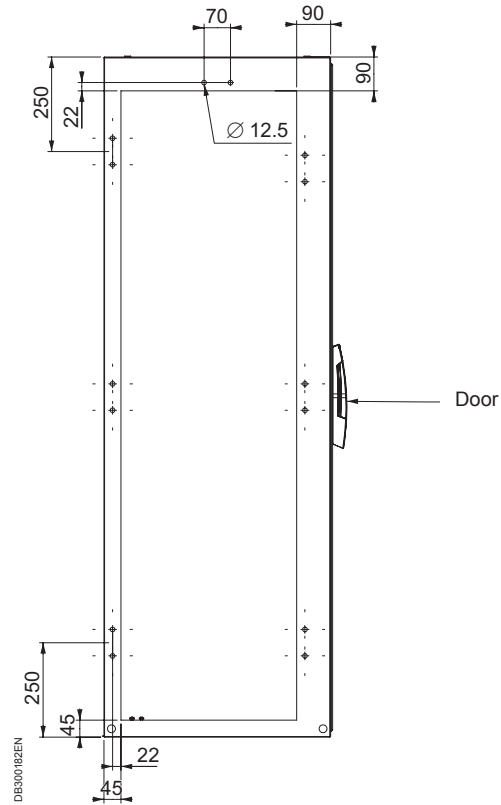
Reference

NSYSMBK



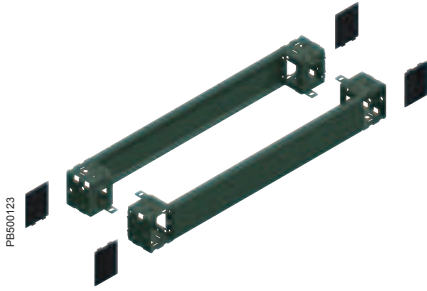
PB500542

PB500543



Plinth in kit form

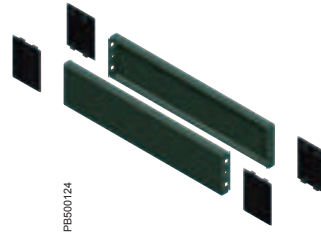
Front and rear kit



Plinth height 100 mm

+

Side panels

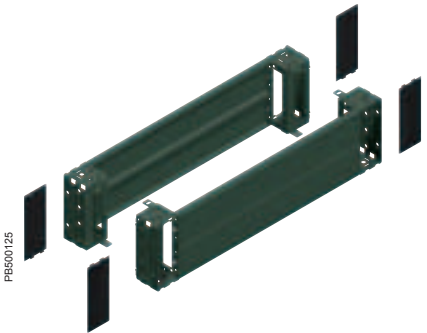


=

Complete plinth

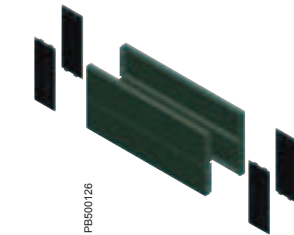


PB500330



Plinth height 200 mm

+



=



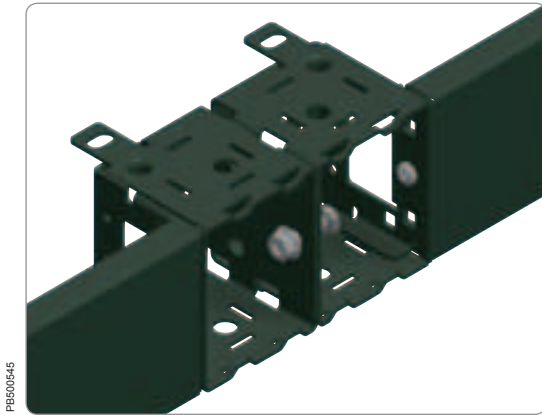
PB500544

The complete plinth consists of two elements, one is the front and rear kit, determined by the length of the enclosure, and the other consists of the side panels, which determine the depth of the enclosure.

The number of side panels required is decided according to the desired plinth combination.

> Advantage:

- Robust design.
- The modular plinth system makes it possible to reduce the number of references in stock.



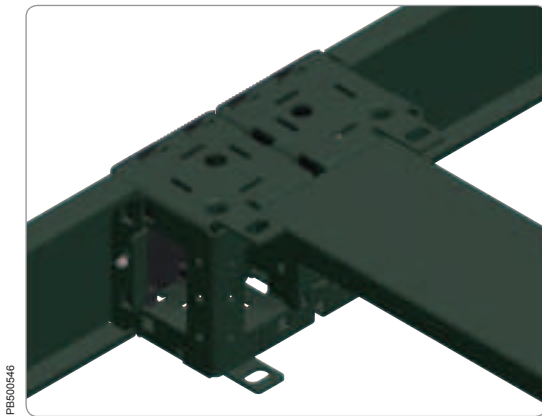
PB900545

Possibility of joining plinths

- ① **The surfaces between corners are always in contact.**
They are joined by an M8 screw and nut, not included in the standard supply.

> **Advantage:**

Longitudinally free space for passing cables.
Greater rigidity of the resultant assembly unit.

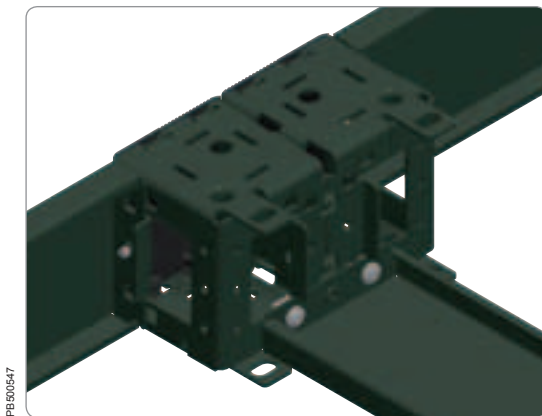


PB900546

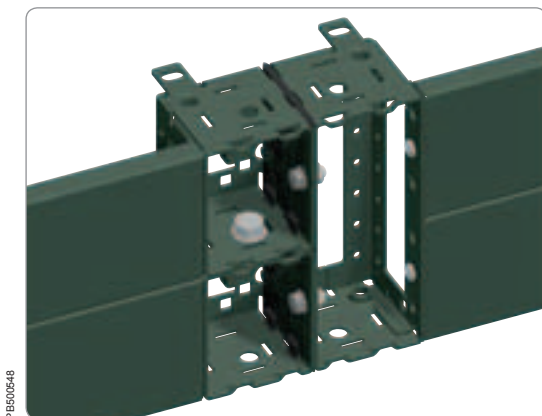
- ② By side panels, the M6 screws and caged nuts, not included in the standard supply, reference **NSYSPM6** and reference **NSYCN9M625**, which can be mounted above and/or below.

> **Advantage:**

Improves rigidity in the depthwise direction during transport.



PB900547



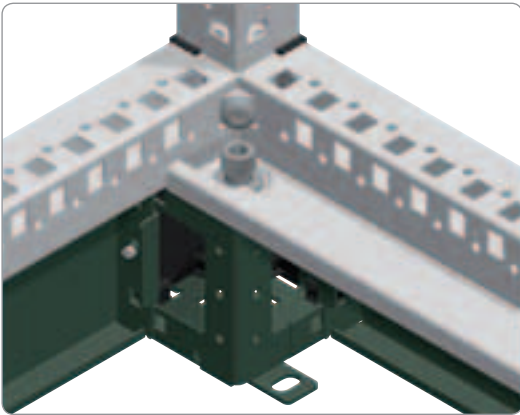
PB900548

- ③ **Vertical plinth assembly** by means of M12 screws and nuts, not included in the standard supply.

> **Advantage:**

The two heights of corners can be combined.

PE500549



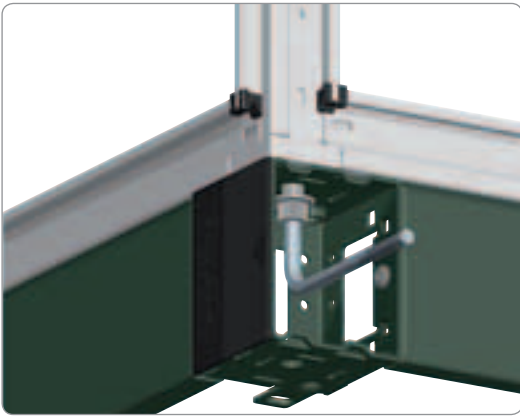
Possibility of fixing the enclosure to the plinth

- 1 Fixing from the inside of the enclosure by means of an M12 screw, screwing directly into the corner of the plinth.

> **Advantage:**

Fixing convenience and speed.

PE500550

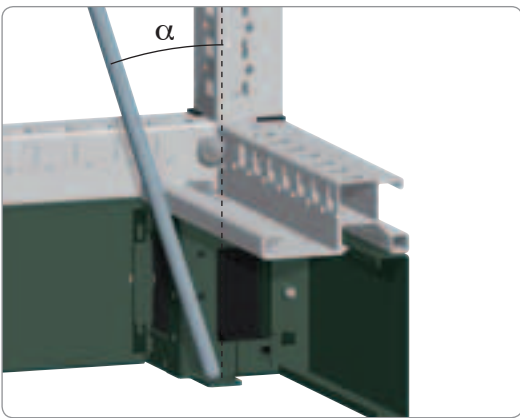


- 2 Fixing from the outside of the enclosure with a M12 screw, screwing directly onto the vertical upright.

> **Advantage:**

Maximum rigidity of the enclosure-plinth assembly.

PE500551



Possibility of fixing the plinth to the floor

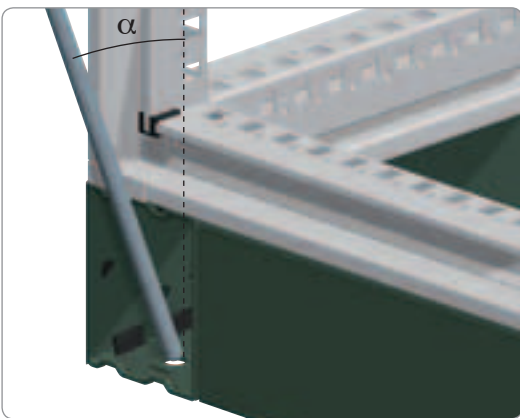
- 1 Fixing from the inside of the enclosure.

The machining angle varies according to the plinth model:

Plinth height 100 mm $\alpha = 18^\circ$.

Plinth height 200 mm $\alpha = 9^\circ$

PE500552



- 2 Fixing from the outside of the enclosure, optimum point for the rigidity of the assembly.

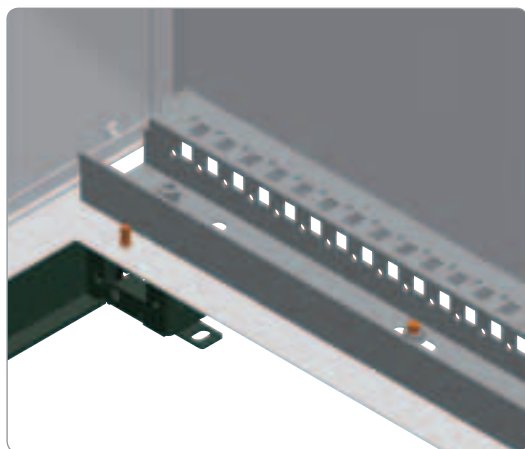
The machining angle varies according to the plinth model:

Plinth height 100 mm $\alpha = 22^\circ$.

Plinth height 200 mm $\alpha = 11^\circ$.

- 3 It is also possible to use floor-fixing supports, reference **NSYSGF**, to fix the corner or the panel and the corner to the floor.

The corners of the ends can be rotated in the event of needing to remove the side panels of the plinth and/or to obtain access to the fixing outside the floor, when the set is installed against the wall.



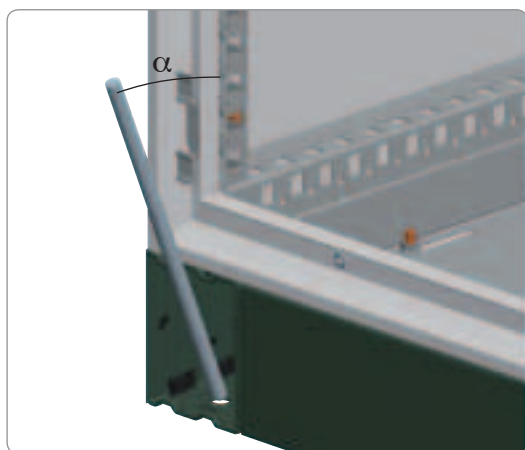
PB90053

Fixing the enclosure to the plinth

Fixing from the inside of the enclosure by means of an M12 screw, screwing directly into the corner of the plinth.

> Advantage:

Fixing convenience and speed.



PB90054

Fixing the enclosure to the ground

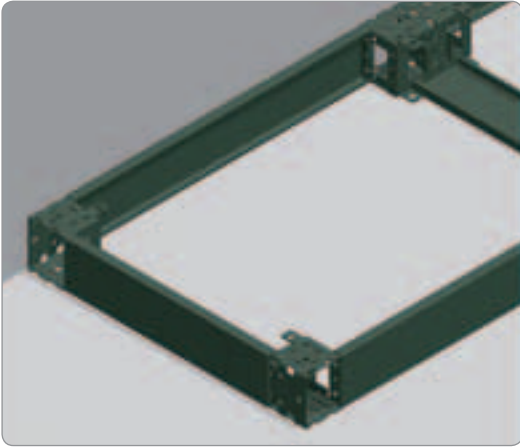
Fixing from the outside of the enclosure, optimum point for the rigidity of the assembly.

The machining angle varies according to the plinth model:

Plinth height 100 mm: $\alpha = 22^\circ$.

Plinth height 200 mm: $\alpha = 11^\circ$.

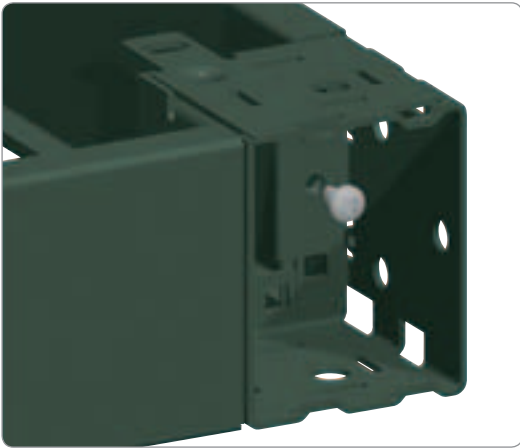
PB900055



- Thanks to the design of the corners, when the enclosure is installed against the wall, the following is possible:
 - To remove the side panels (turning the corner).
 - To access the external fixing to the floor.

It is also possible to use floor-fixing supports, reference **NSYSGF**, to fix the corner or the panel and the corner to the floor.

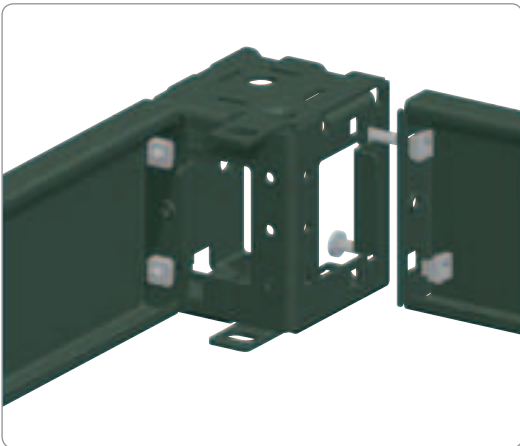
PB900056



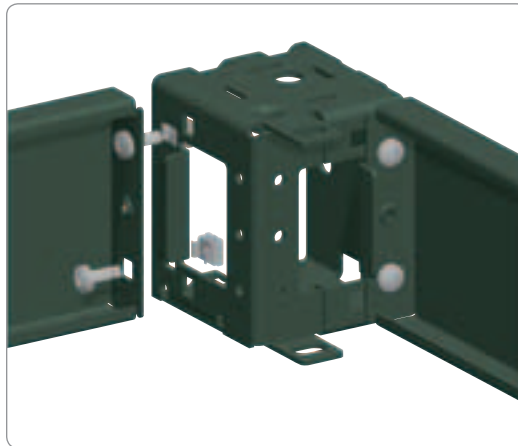
Assembly of the plinth panels

The panels are fixed with an M6 screw to the corner, included in the standard supply of the side panels.
The front and rear panels are delivered mounted on the corners.

PB900057



PB900058

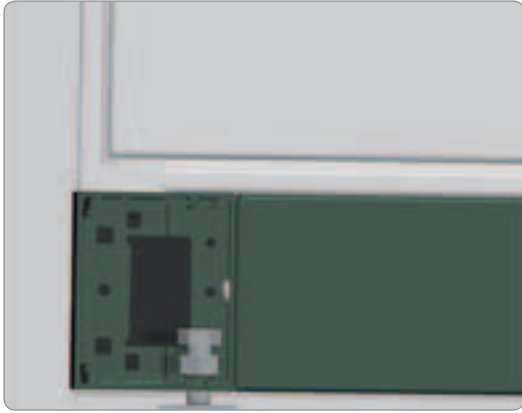


Fixing options

Fixing points can be added to the panels, mounting M6 caged nuts, reference **NSYCN9M625**, at the ends and fixing them to the corner by means of M6 screws, reference **NSYSPM6**.

The plinth can be made tamper-proof; the panels cannot be removed without accessing the inside of the enclosure. For this purpose, they are mounted on the corner with M6 caged nuts, reference **NSYCN9M625**, and the panels are fixed to the corner by means of M6 screws, reference **NSYSPM6**.

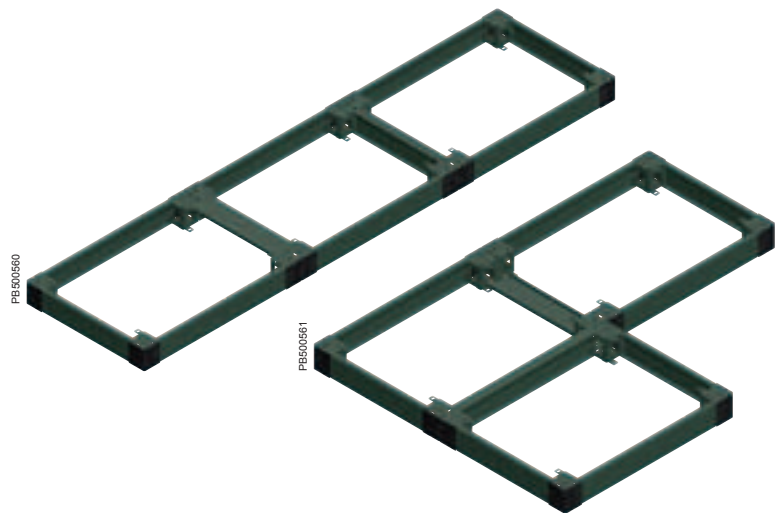
PB500589



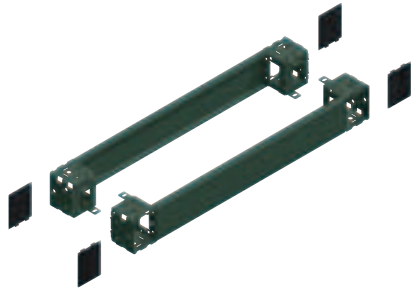
Levelling the plinth

The plinth allows levelling by means of an M12 screw.

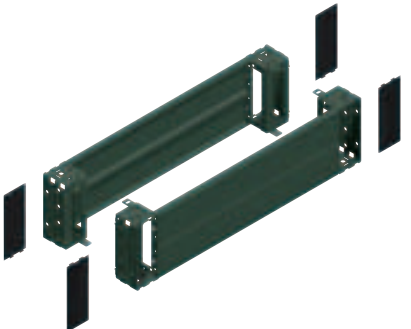
Examples of solutions



PB500123



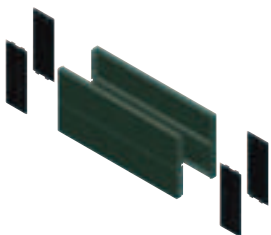
PB500125



PB500124



PB500126



Front plinth

- The front and rear of the plinth consists of 4 corners with 2 or 4 panels.
- Material: folded sheet steel, corner with a thickness of 2.5 mm.
- Finish: painted with epoxy-polyester resin, RAL 7022 grey.
- Degree of protection: IP30 of the complete plinth.
- Resistance to external mechanical impacts: IK10.
- Maximum load: 1300 kg.
- Model heights: 100 and 200 mm.



Supply:

- **Height 100 mm:** 4 corners, 2 panels (front and rear), 4 corner covers and fixing elements.
- **Height 200 mm:** 4 corners, 4 panels (2 front and 2 rear), 4 corner covers and fixing elements.

Nominal dimensions (mm)	Reference	
	100 mm	200 mm
Width		
300	NSYSPF3100	NSYSPF3200
400	NSYSPF4100	NSYSPF4200
600	NSYSPF6100	NSYSPF6200
800	NSYSPF8100	NSYSPF8200
1000	NSYSPF10100	NSYSPF10200
1200	NSYSPF12100	NSYSPF12200
1600	NSYSPF16100	NSYSPF16200

Plinth side panels

- They are fixed to the corner of the plinth by 2 fixing screws.
- Material: folded sheet steel.
- Finish: painted with epoxy-polyester resin, RAL 7022 grey.
- Degree of protection: IP30 of the complete plinth.
- Resistance to external mechanical impacts: IK10.
- Model heights: 100 and 200 mm.

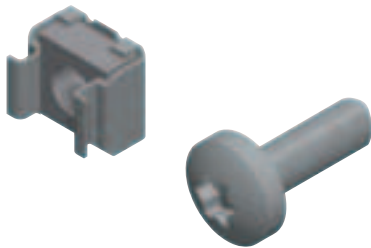
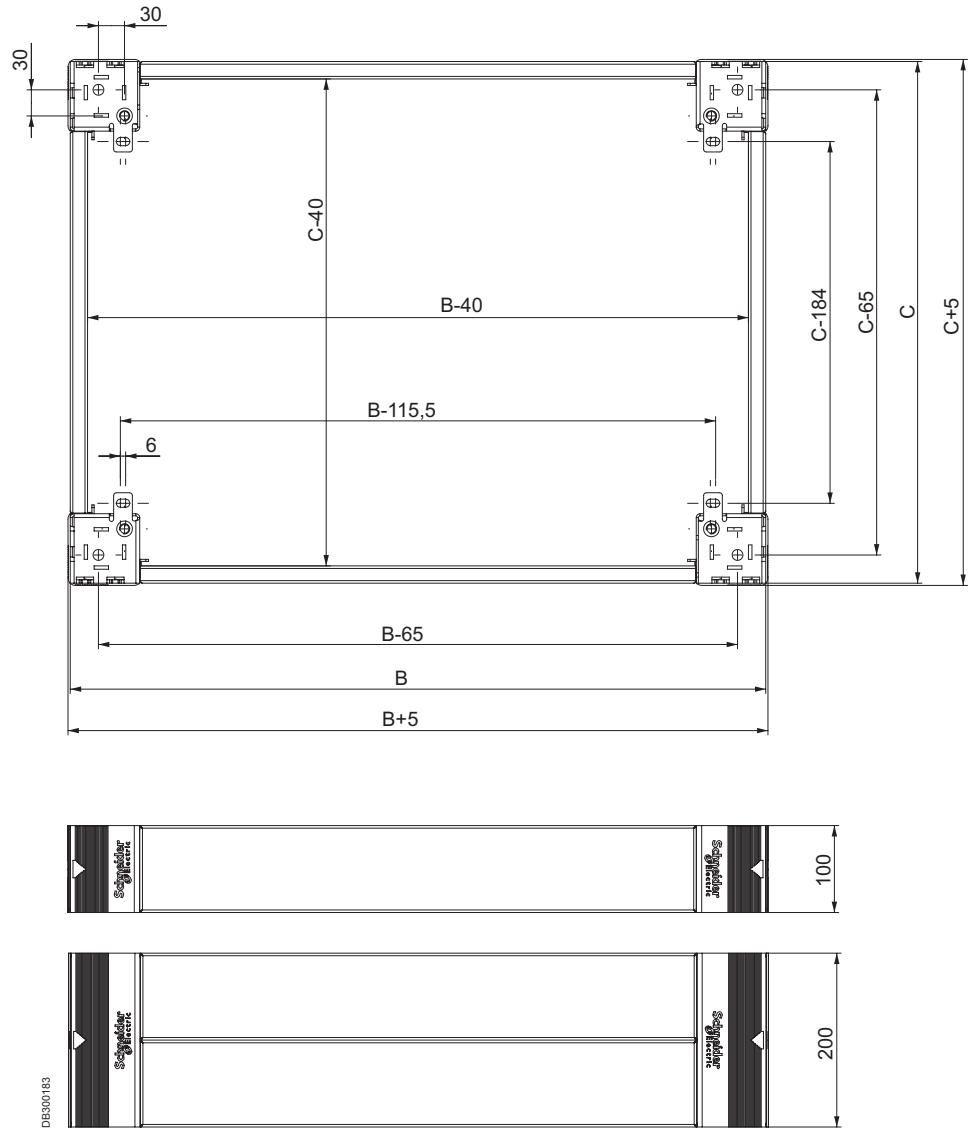


Supply:

- **Height 100 mm:** 2 side panels, 4 corner covers and fixing elements.
- **Height 200 mm:** 4 side panels (height of 100 mm, 2 for each side), 4 corner covers and fixing elements.

Nominal dimensions (mm)	Reference	
	100 mm	200 mm
Depth		
300	NSYSPS3100	NSYSPS3200
400	NSYSPS4100	NSYSPS4200
500	NSYSPS5100	NSYSPS5200
600	NSYSPS6100	NSYSPS6200
800	NSYSPS8100	NSYSPS8200


General layout of the plinth



Screws and nuts for internal fixing of the plinth panels

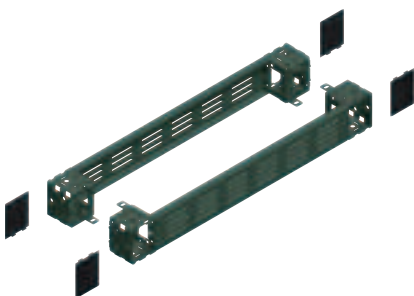
- Optional fixings for the panels with M6 screws and caged nuts.
- According to the position of the caged nut, the panels can be made tamper-proof. By accessing the screw, only from the inside of the enclosure. See pages 145 and 146.
- Valid for all types of panels.

Screws and nuts for internal fixing of plinth panels		
Description	Supply (units)	Reference
Torx T30 M6 x 10 screws	50	NSYSMP6
M6 caged nuts	100	NSYC9M625

 Reference by unit. Order by multiples of 50 (Torx screws) and 100 (Caged nuts).


PE500562

PB500653



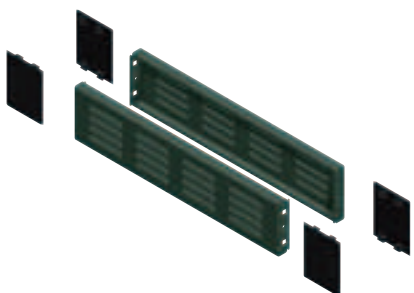
Ventilated front plinth

- The front and rear of the ventilated plinth is made up of 4 corners with 2 front panels.
- Material: folded sheet steel, corner with a thickness of 2.5 mm.
- Finish: painted with epoxy-polyester resin, RAL 7022 grey.
- IP20.
- Resistance to external mechanical impacts: IK10.
- Maximum load: 1300 kg.
- Model height 100 mm.

 Supply: height 100 mm: 4 corners, 2 ventilated panels (front and rear), 4 corner covers and fixing elements.


Nominal dimensions (mm)	Reference
Width (B)	Height 100 mm
600	NSYSPFV6100
800	NSYSPFV8100

PB500654



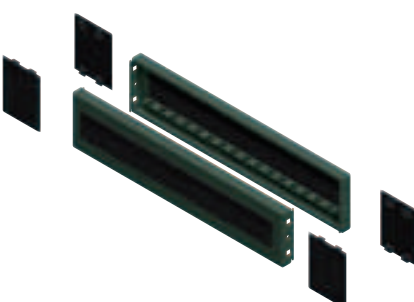
Ventilated side panels

- They are fixed to the corner of the plinth by fixing screws.
- Material: folded sheet steel.
- Finish: painted with epoxy-polyester resin, RAL 7022 grey.
- IP20.
- They can be combined with front plinths with a height of 200 mm. In this case, 2 sets of ventilated side panels are required.

 Supply: height 100 mm: 2 ventilated side panels, 4 corner covers and fixing elements.

Nominal dimensions (mm)	Reference
Depth (C)	Height 100 mm
600	NSYSPV6100
800	NSYSPV8100

PB500655

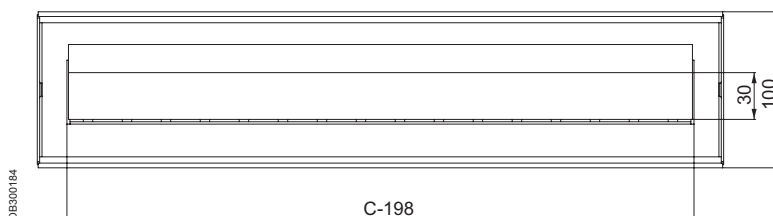


Panels with brush

- They allow the entry and fixing of cables inside the enclosure, through the plinth.
- Attachment to the corners of the plinth by screws.
- Material: folded sheet steel.
- Finish: painted with epoxy-polyester resin, RAL 7022 grey.
- Model heights: 100 mm.

 Supply: 2 panels with brushes, 4 corner covers and fixing elements.

Nominal dimensions (mm)	Reference
Depth (C)	
600	NSYSPB6100
800	NSYSPB8100



DB300184

Composition accessories

Floor

PB500566



PB500587



Plinth for sets

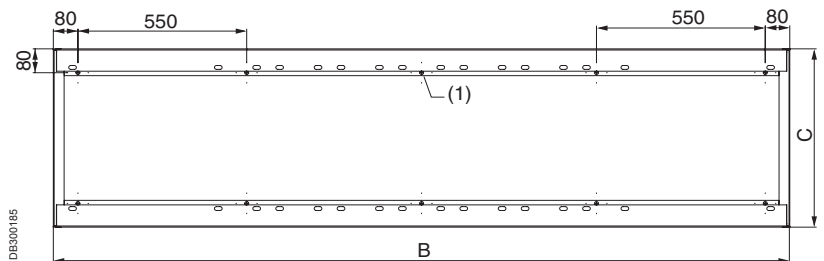
- Designed for the assembly of sets of 2 to 4 **Spacial SF** enclosures, joined on a single plinth.
- Made up of a front and rear set with a 3-mm U-shaped profile and one or two sets of side panels, also with a U-shaped profile.
- Material: folded sheet steel.
- Finish: painted with epoxy-polyester resin, RAL 7022 grey.
- Model heights: 100 and 200 mm.



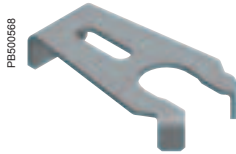
- Supply:
- Front plinth: 2 U-shaped profiles and fixing elements.
 - Side panels:
Height 100 mm: 2 side panels and fixing elements.

Nominal dimensions (mm)	Set front plinth reference	
Width (B)	100 mm	200 mm
1600	NSYSPFC16100	NSYSPFC16200
1800	NSYSPFC18100	NSYSPFC18200
2400	NSYSPFC24100	NSYSPFC24200

Nominal dimensions (mm)	Set side panel reference	
Depth (C)	100 mm	200 mm
400	NSYSPC4100	2 x NSYSPC4100
500	NSYSPC5100	2 x NSYSPC5100
600	NSYSPC6100	2 x NSYSPC6100
800	NSYSPC8100	2 x NSYSPC8100




(1) Only for version with width of 2400 mm.

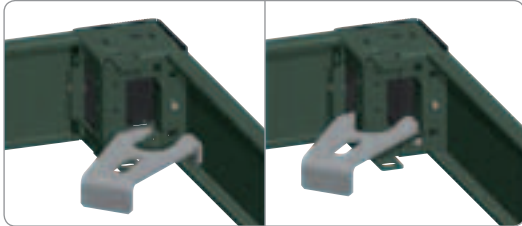


Fixing to the floor

- Piece for fixing the plinth to the floor in the event of not being able to use the drill holes made in the plinth.
- Material: zinc-coated steel.
- Thickness: 4 mm.
- M12 fixing point.

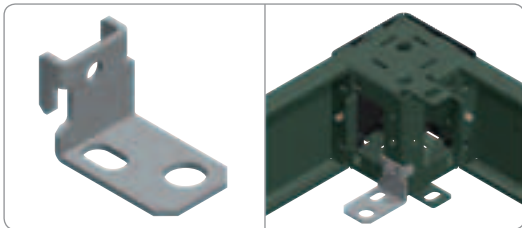
 Supply: 4 pieces, fixing elements not supplied.

Reference
NSYSGF




PB500568

PB500570



Fixing to the floor by fixing points of previous version (OLN/CMO or Spacial 6000 and 18500)

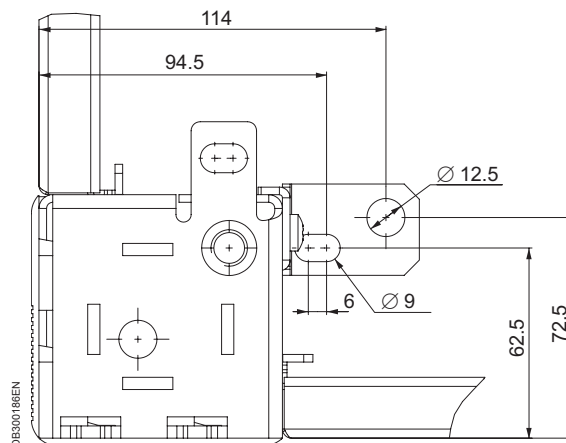
- Pieces that reproduce the floor-fixing points of the previous plinth.
- Material: zinc-coated steel.
- Thicknesses: 4 mm.
- M12 fixing point.

 Supply: 4 pieces, fixing elements not supplied.

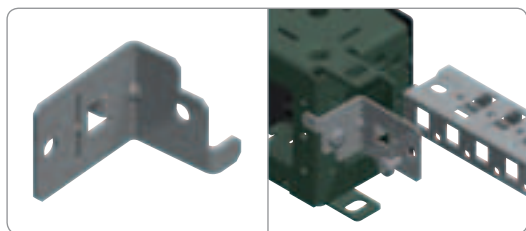
Reference
NSYOL6GF

PB500571

PB500572



DB300186EN




PE600573

PE600574

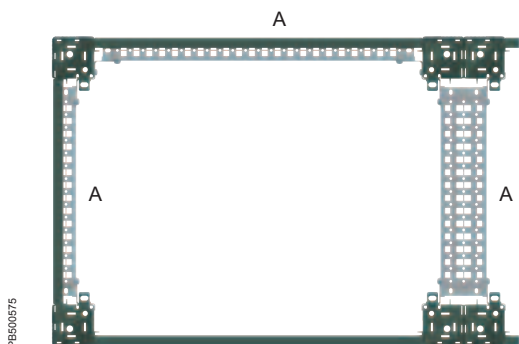
Plinth cross-rail support

- Support for fixing a cross rail inside the plinth.
- Material: zinc-coated steel.
- Thicknesses: 2 mm.
- Fixing to the corner, 100 and 200 mm, height adjustment with a pitch of 25 mm.

 Supply: 12 pieces and fixing elements.

 Reference by unit. Order by multiples of 12 (12, 24, 36...).

Reference
NSYSPCR




PE600575

Plinth cross rails fixed in position A.

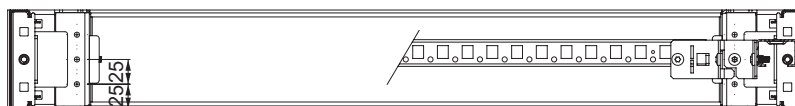
Plinth cross rails

- They are fixed across the width and/or depth between the corners of the plinth.
- The plinth cross-rail supports are required for its assembly, ref. **NSYSPCR**.
- Material: zinc-coated steel.
- They allow to set and adjust the depth of the cross rails for fixing cables or other elements.

 Supply: 2 cross rails and fixing elements.

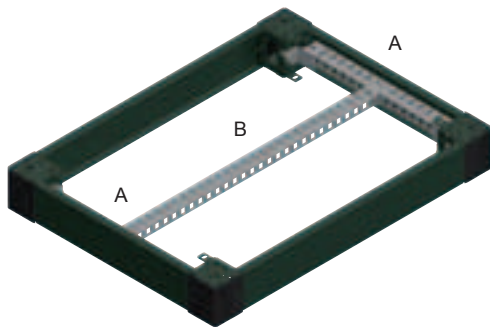
Plinth cross rails fixes in position A:

Plinth cross rails		
Nominal width/depth (mm)	Cross rails 1 row (40)	Cross rails 3 rows (90)
400	NSYSUCR4030	NSYSUCR9030
500	NSYSUCR4040	NSYSUCR9040
600	NSYSUCR4050	NSYSUCR9050
800	NSYSUCR4070	NSYSUCR9070
1000	NSYSUCR4090	NSYSUCR9090
1200	NSYSUCR40110	NSYSUCR90110
1600	NSYSUCR40150	NSYSUCR90150



DE3300187





PB500576

Plinth cross rail fixes in position B.
It requires 2 cross rails in position A to be fixed.

Plinth cross rail fixed in position B

- They are fixed to the plinth cross rails, both the universal and the quick-fixing types.
- Their depth is adjustable with a pitch of 25 mm.
- See universal and quick-fixing cross rail references, page 371.



PB500577

Example of fixing **Spacial SF**

Composition accessories

Cable entry

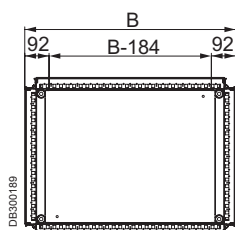
Cable-gland plates

- Plates for cable entry from the bottom of the enclosure.
- Material: galvanised steel.
- Thicknesses: 1.5 mm.
- Fixing by C-shaped clip, fixed with screws, providing electrical continuity through the clip.
- Each plate has 2 drill holes with an 8-mm diameter, covered with a plug, for cases in which earthing needs to be performed by an earthing cable or braid (elements not supplied).
- Plate models:
 - Plain.
 - With 1 entry.
 - With 2 entries.

Plain cable-gland plate


- Maximum compact water/dustproof design.

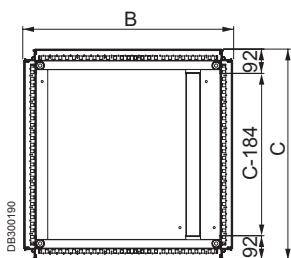
 Supply: plain plate and fixing elements.



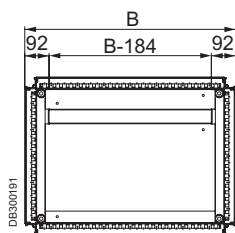
Cable-gland plate with 1 entry

- Facilitates the entry of cables thanks to a longitudinal opening.

 Supply: plate with 1 entry; self-extinguishing polyurethane adhesive gasket with cross-section of 15 x 25 mm (guarantees good sealing) and fixing elements.




Enclosures of 300 and 400 mm width.

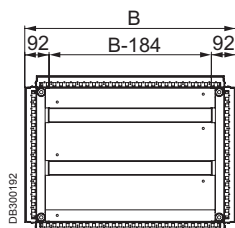


Enclosures of 600, 800, 1000 and 1200 mm width.

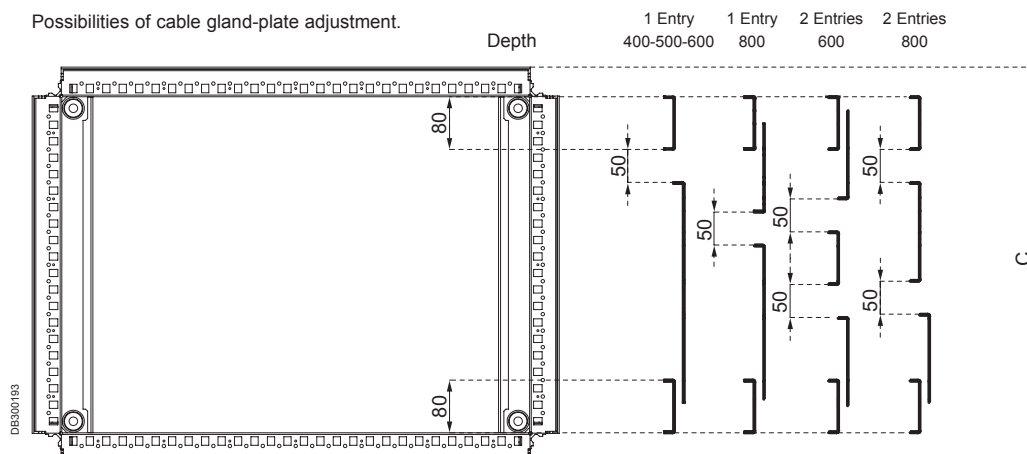
Cable-entry plate with 2 entries

- Cable entry for very deep enclosures (600 and 800 mm).
- Two longitudinal openings allowing a large number of cables through.

 Supply: 1 plate with 2 entries; polyurethane adhesive gasket with cross-section of 15 x 25 mm (guarantee good sealing) and fixing elements.

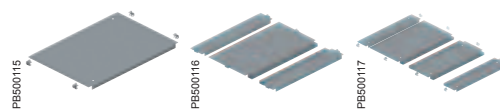


Possibilities of cable gland-plate adjustment.



Composition accessories


Cable entry



Nominal SF dimensions (mm)		Reference		
Width (B)	Depth (C)	Plain	With 1 entry	With 2 entries
300	500	NSYEC35	NSYEC351	-
300	600	NSYEC36	NSYEC361	-
400	400	NSYEC44	NSYEC441	-
400	500	NSYEC45	NSYEC451	-
400	600	NSYEC46	NSYEC461	-
400	800	NSYEC48	NSYEC481	-
600	400	NSYEC64	NSYEC641	-
600	500	NSYEC65	NSYEC651	-
600	600	NSYEC66	NSYEC661	NSYEC662
600	800	NSYEC68	NSYEC681	NSYEC682
800	400	NSYEC84	NSYEC841	-
800	500	NSYEC85	NSYEC851	-
800	600	NSYEC86	NSYEC861	NSYEC862
800	800	NSYEC88	NSYEC881	NSYEC882
1000	400	NSYEC104	NSYEC1041	-
1000	500	NSYEC105	NSYEC1051	-
1000	600	NSYEC106	NSYEC1061	NSYEC1062
1000	800	NSYEC108	NSYEC1081	NSYEC1082
1200	400	NSYEC124	NSYEC1241	-
1200	500	NSYEC125	NSYEC1251	-
1200	600	NSYEC126	NSYEC1261	NSYEC1262
1200	800	NSYEC128	NSYEC1281	NSYEC1282
1600	400	NSYEC164	NSYEC1641	-
1600	500	NSYEC165	NSYEC1651	-
1600	600	NSYEC166	NSYEC1661	NSYEC1662

Brush-type cable-entry gasket

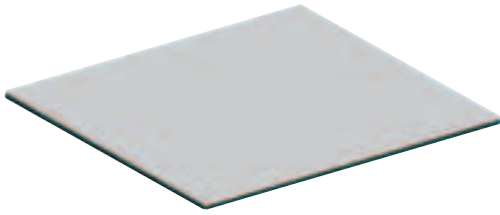
- For plates with 1 or 2 cable entries. The cables can have different diameters.
- Guarantees good protection against dust.
- Quick and effective installation by clipping onto the sheet.
- Width of the brush-type gasket: 25 mm.

 Supply: 2 brush-type gaskets.

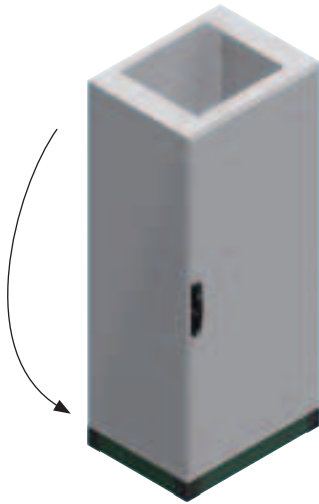


Spacial SF width (mm)	Reference
300	NSYBCE3
400	NSYBCE4
600	NSYBCE6
800	NSYBCE8
1000	NSYBCE10
1200	NSYBCE12
1600	NSYBCE16

PE500951



PE500952



Enclosure rotated 180°.

PE500953



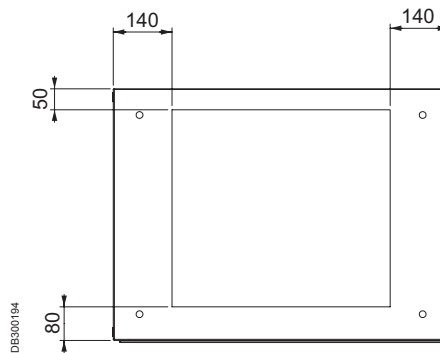
Plain cable-gland plate

- Plain cable-gland plates for compact enclosures.
- Fixing from the outside in:
 - Enclosures with the cable entry at the top (enclosures rotated 180°). Compatible with the plinth.
 - Enclosures with cut-out roof.
- Fixing from the inside on the base of the enclosure.
- Material: steel.
- Finish: painted with epoxy-polyester resin, RAL 7035 grey.



Supply: 1 plain plate and fixing elements.

Spacial SM Dimensions (mm)		Reference
Width	Depth	
600	300	NSYSMEC63
600	400	NSYSMEC64
600	500	NSYSMEC65
600	600	NSYSMEC66
800	300	NSYSMEC83
800	400	NSYSMEC84
800	500	NSYSMEC85
800	600	NSYSMEC86
1000	300	NSYSMEC103
1000	400	NSYSMEC104
1000	500	NSYSMEC105
1200	300	2 x NSYSMEC63
1200	400	2 x NSYSMEC64
1200	500	2 x NSYSMEC65
1200	600	2 x NSYSMEC66
1600	500	2 x NSYSMEC85
1600	600	2 x NSYSMEC86



Dimensions of the cut-out to be made in the roof if the enclosure is not rotated 180°.

PE600954



Brush-type cable-entry gasket

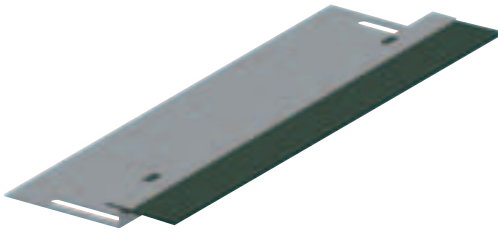
- Brush-type gasket for installation on the cable-gland plates. The cables can have different diameters.
- Guarantees good protection against dust.
- Quick and effective installation by clipping onto the sheet.
- Width of the brush gasket: 34 mm.

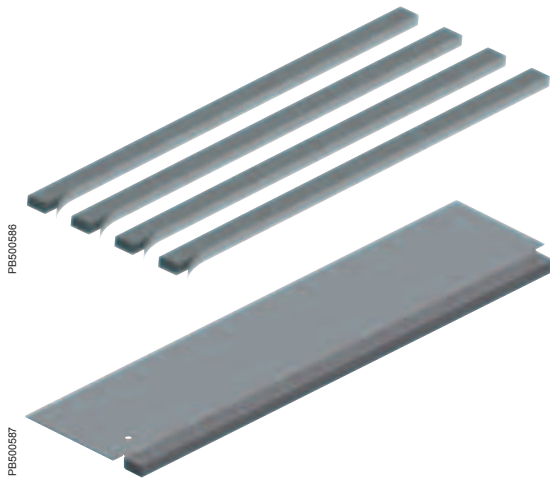


Supply: 2 brush-type gaskets.

Spacial SM width (mm)	Reference
600	NSYSMBCE6
800	NSYSMBCE8
1000	NSYSMBCE10
1200	2 x NSYSMBCE6
1600	2 x NSYSMBCE8

PE600955





Foam cable-entry gasket

- Spare gasket, made from self-extinguishing expanded polyurethane with a cross-section of 15 x 25 mm, for fixing on cable-gland plates.
- Adhesive to guarantee good sealing.



Supply: 4 strips with a length of 1 m.

Reference

NSYCEJ

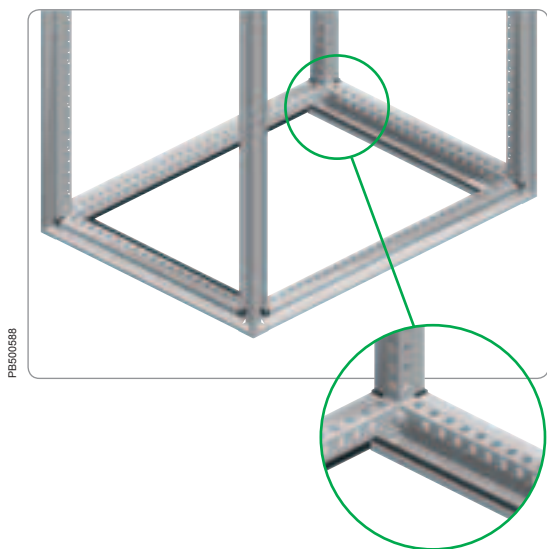


Sealing gasket

- Sealing gasket, made from ethylene-propylene with a cross-section of 3 x 10 mm, for mounting on the perimeter of the cable-gland plates.
- Adhesive to guarantee good sealing.


 Supply: 5.8-m spiral gasket.

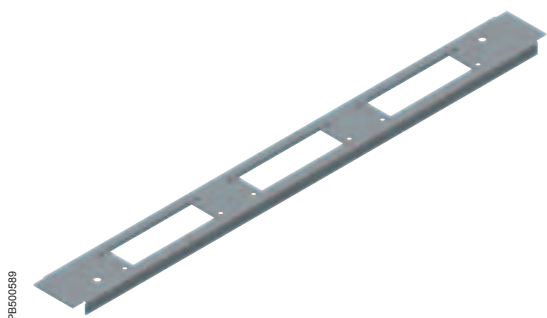
Reference
NSYCEK



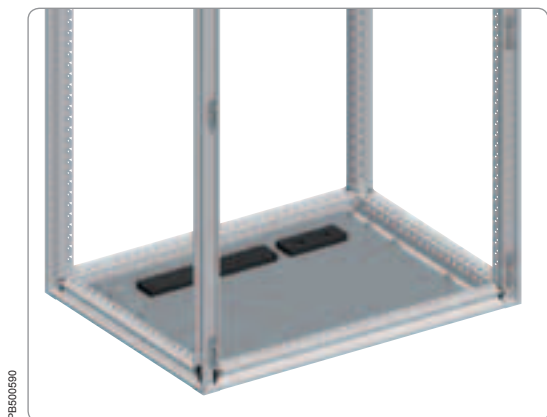
Cable-gland plate for connectors

- Plate to be used together with plates with 1 or 2 cable entries, adding or replacing one of the parts.
- The system allows the simultaneous installation of various connector-entry plates.
- Material: galvanised steel.
- Thickness: 1.5 mm.

 Supply: 1 plate and fixing elements.



Spacial SF width (mm)	Number of cuts	Reference
600	2	NSYDCE6
800	3	NSYDCE8
1000	4	NSYDCE10
1200	4	NSYDCE12





PB300514

Eyebolts

- Set of M12 lifting eyebolts, which screw directly into the structure of the enclosure, in the axis of the uprights.
- Recommended to be used for transportation of single switchboards.
- Material: galvanised cast steel.
- Maximum load: 340 kg per eyebolt.

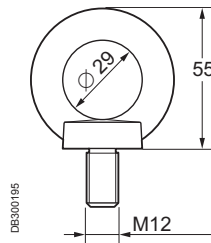


Supply: 4 eyebolts.

Reference
NSYSFEB

> Advantage:

Eyebolts screwed directly into the vertical axis of the upright contribute greatly to robustness during transport.



DB300195



PB300506

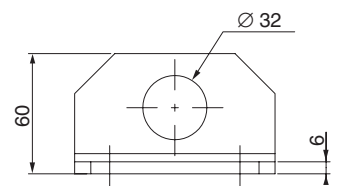
Lifting brackets

- Set of lifting and transport brackets, fixed to the structure between two coupled enclosures, in the axis of the uprights.
- Recommended to be used for transportation of 2 switchboards with light loads installed.
- Material: zinc-coated steel.
- Maximum load per single switchboard: 500 kg.

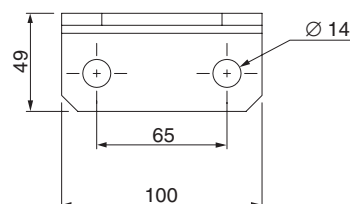


Supply: 4 brackets and fixing elements (M12 screws).

Reference
NSYSFELB



DB300186



Composition accessories

Lifting systems



PE900561

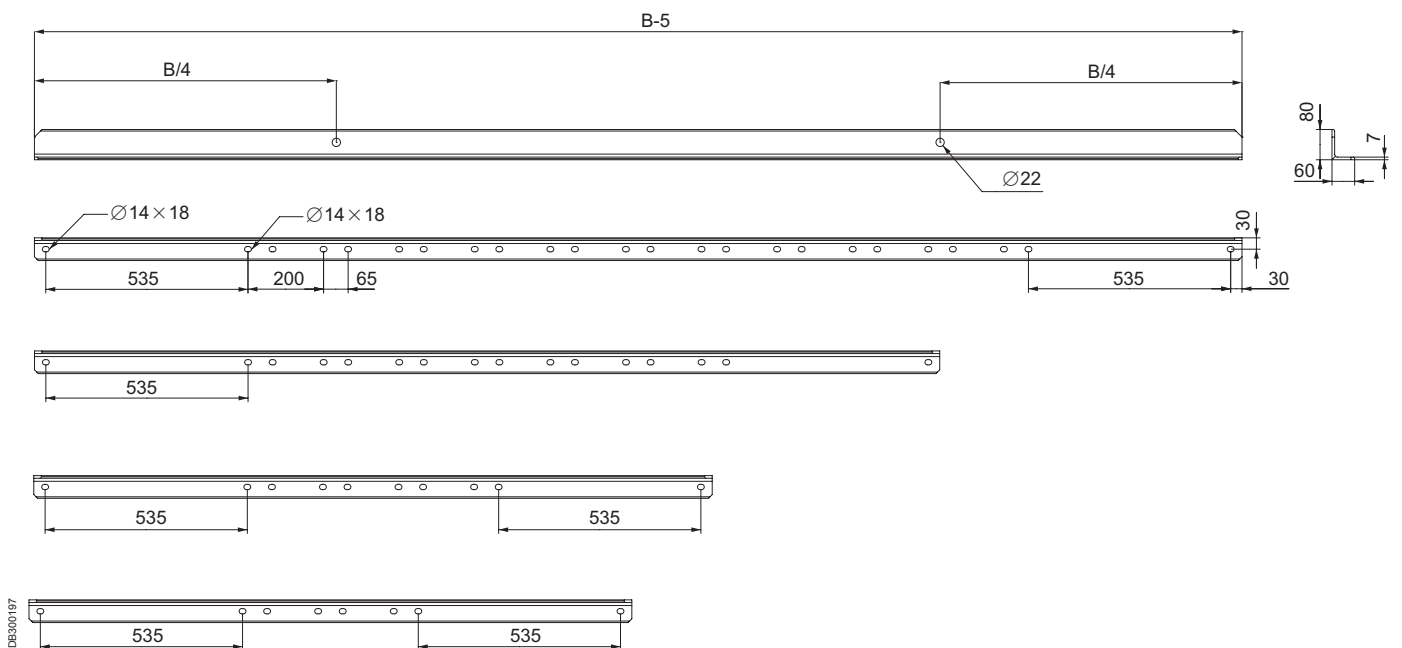
Lifting bar

- Set of bars for lifting and transporting enclosures suites. They are fixed to the structure of the enclosure, in the axis of the uprights.
- Recommended to be used for transportation of multiple switchboards (up to 5) with heavy loads installed.
- Material: painted steel.
- Colour: grey.
- Maximum load: according to the lifting bar length (see table below).
- Maximum load per single switchboard: 1000 kg.
- It is necessary to fit shackles (ref. **NSYSFTBS** or equivalent standard type) in the holes of the bars. To be ordered separately.



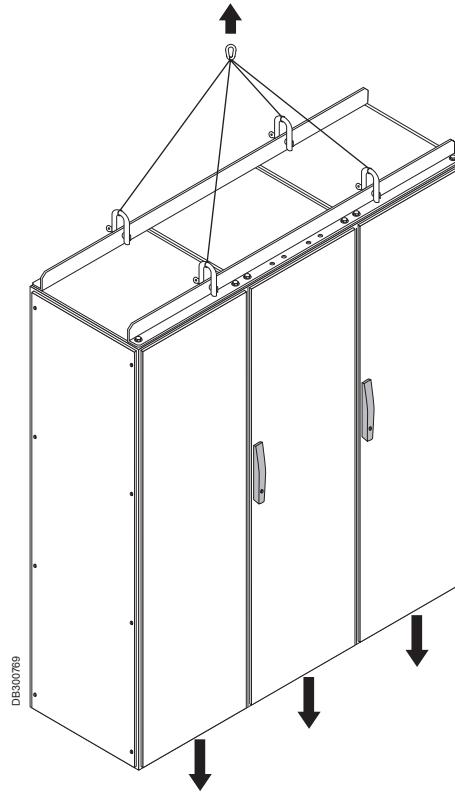
Supply: 2 lifting bars and fixing elements (M12 screws).

Length (mm) (B)	Maximum load (kg)	Maximum amount of assembled enclosures to be lifted	Reference
1600	2000	2	NSYSFTB16
1800	3000	3	NSYSFTB18
2400	3000	4	NSYSFTB24
3200	4000	5	NSYSFTB32



DE300157

Recommended lifting points



Shackles

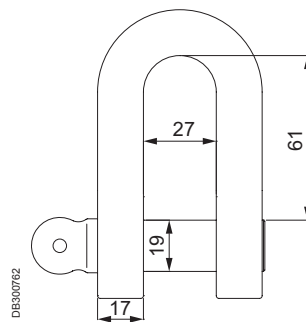
- Lifting bar shackles.
- Maximum load: 1600 kg.



Supply: 4 Shackles.

Reference

NSYSFTBS





Eyebolts

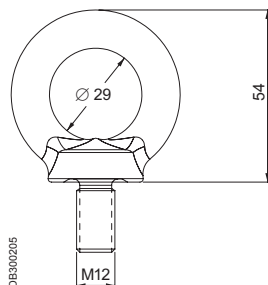
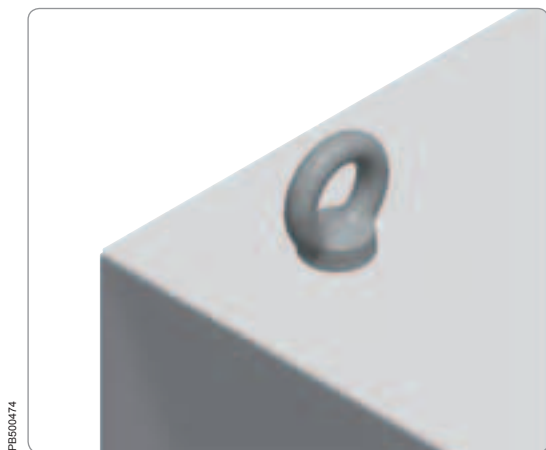
- Set of M12 lifting eyebolts, fixed to the enclosure by fixing nuts.
- Material: galvanised cast steel.
- Maximum load: 340 kg per eyebolt and sling at 60°.



Supply: 4 eyebolts and 4 fixing nuts.

Reference

NSYSMEB



Composition accessories

Roof



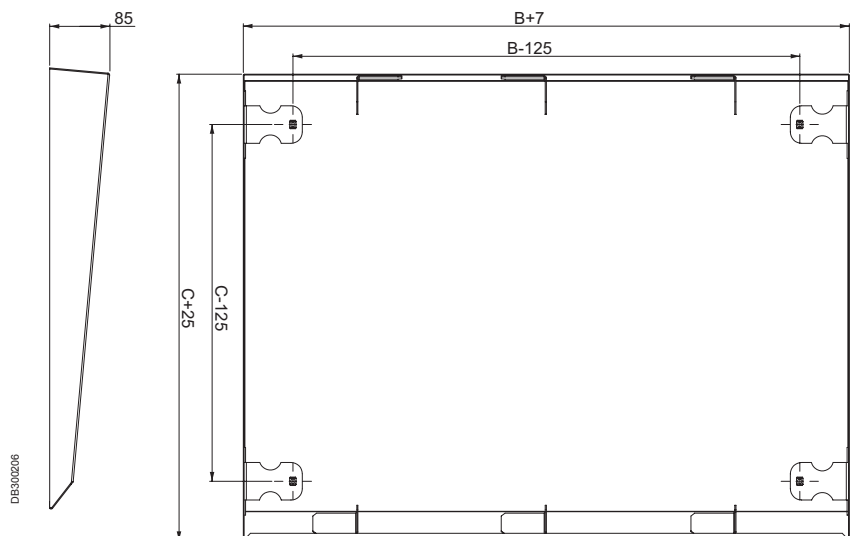
Canopy

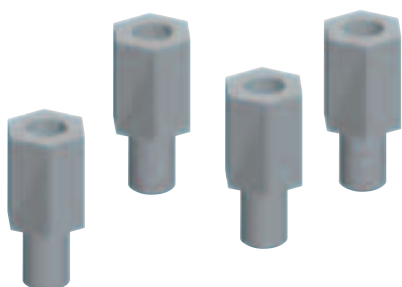
- Provides excellent protection against splashes from rainwater.
- Highly recommended for outdoor applications.
- **Spacial SF**: fixing by drill holes to be made in the roof of the enclosure.
- **Spacial SM**: fixing by drill holes already made in the roof.
- Material: galvanised steel.
- Finish: painted with polyester-epoxy resin, RAL 7035 grey.
- Not compatible with the simultaneous use of lifting elements.
- **Spacial SF**: it is possible to use a single canopy with combinations of enclosure suites (example of a 1600 mm canopy with two coupled 800-mm enclosures).



Supply: one canopy, drilling template and fixing elements.

Nominal dimensions (mm)		Reference
Width (B)	Depth (C)	
600	300	NSYSC630
	400	NSYSC640
	500	NSYSC650
	600	NSYSC660
800	300	NSYSC830
	400	NSYSC840
	500	NSYSC850
	600	NSYSC860
1000	300	NSYSC1030
	400	NSYSC1040
	500	NSYSC1050
	600	NSYSC1060
1200	300	NSYSC1230
	400	NSYSC1240
	500	NSYSC1250
	600	NSYSC1260
1600	400	NSYSC1640
	500	NSYSC1650
	600	NSYSC1660
1800	500	NSYSC1850
	600	NSYSC1860
2000	500	NSYSC2050
	600	NSYSC2060
2400	500	NSYSC2450
	600	NSYSC2460





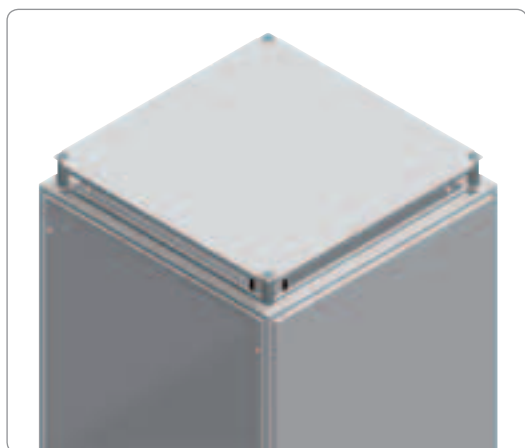
PB500594

Ventilation elevators for roof

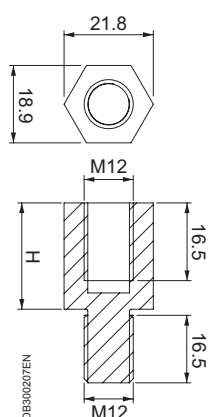
- Allows the roof to be raised, providing natural ventilation.
- They are screwed onto the structure, at the roof fixing point.
- Material: zinc-coated steel.

Supply: 4 elevators.

Roof height (mm) (H)	IP	Reference
23	20	NSYRE26
60	10	NSYRE60



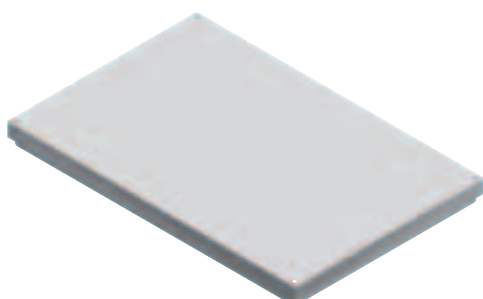
PB500595



Ventilated roof

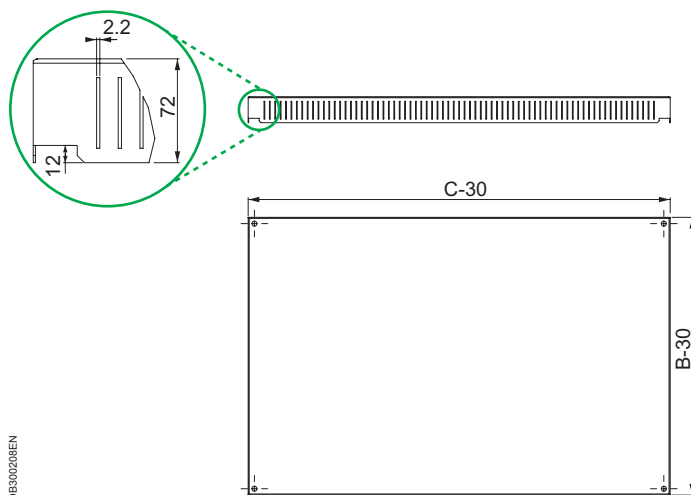
- Roof providing natural ventilation for the enclosure, with IP30 protection.
- Material: steel.
- Height: an extra 63 mm in relation to the structure.
- Finish: painted with polyester-epoxy resin, RAL 7035 grey.

Supply: one ventilated roof and four elevators.

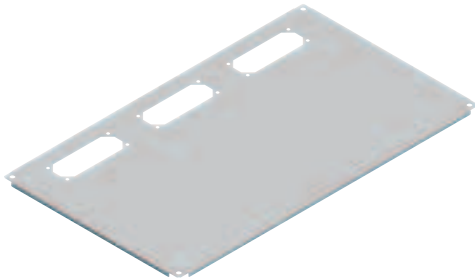


PB500596

Nominal dimensions (mm)		Reference
Width (B)	Depth (C)	
600	600	NSYSVR606
	800	NSYSVR608
800	600	NSYSVR806
	800	NSYSVR808



DB300208EN



P8500587

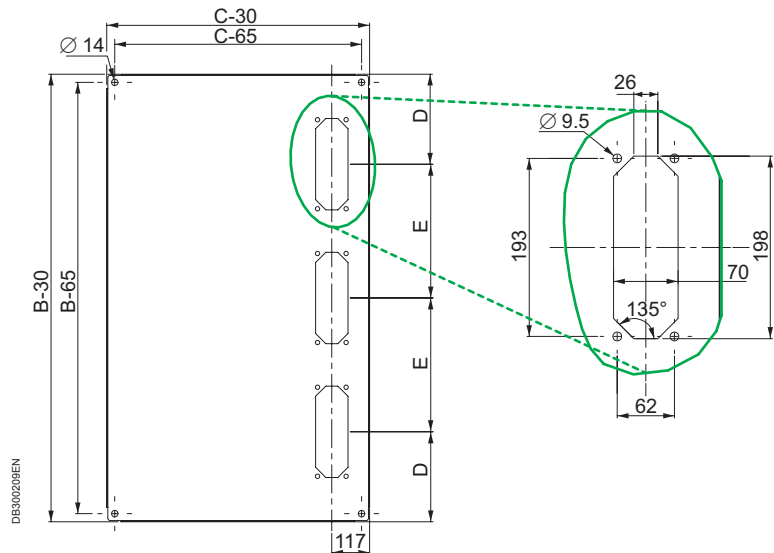
FL21 cable-entry roof

- Roof prepared for installing FL21 cable-entry plates.
- Material: steel.
- Finish: painted with epoxy-polyester resin, RAL 7035 grey.



Supply: one cut-out roof for the FL21 cable-entry plates.

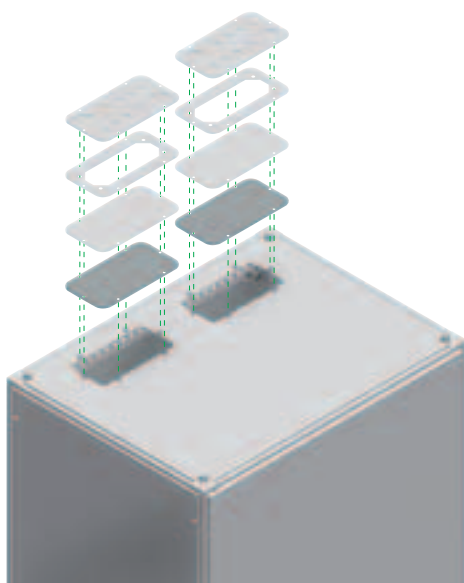
Nominal dimensions (mm)		Centre-to-centre distance (mm)		No. of entries	Reference
Width (B)	Depth (C)	D	E		
600	500	285	-	1	NSYSFLR65
	600				NSYSFLR66
800	500	195	-	2	NSYSFLR85
	600				NSYSFLR86
1000	500	195	290	3	NSYSFLR105
	600				NSYSFLR106



DB9300208EN




PB500598



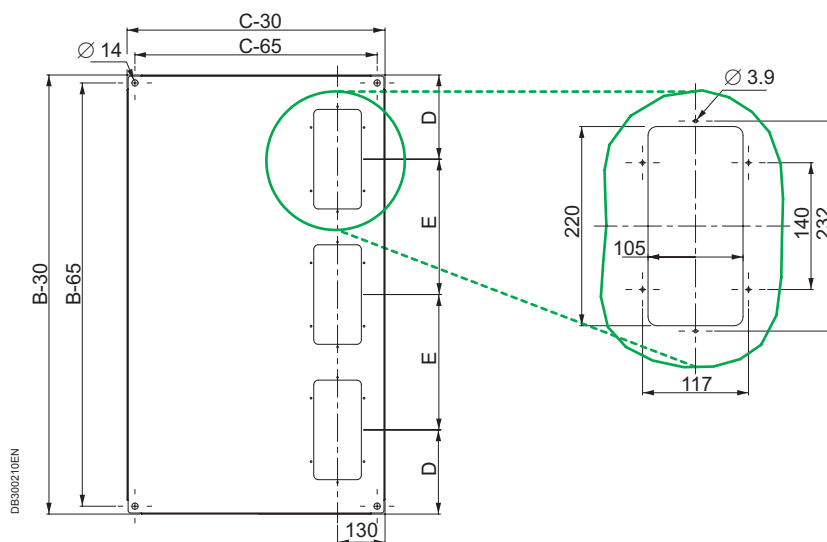
PB500599

Cable-entry roof

- Roof prepared for installing cable-entry plates.
- Material: steel.
- Finish: painted with epoxy-polyester resin, RAL 7035 grey.


 Supply: one cut-out roof for the cable-entry plates.

Nominal dimensions (mm)		Centre-to-centre distance (mm)		No. of entries	Reference
Width (B)	Depth (C)	D	E		
600	500	285	-	1	NSYSRCE650
	600				NSYSRCE660
800	500	220	-	2	NSYSRCE850
	600				NSYSRCE860
1000	500	200	285	3	NSYSRCE1050
	600				NSYSRCE1060

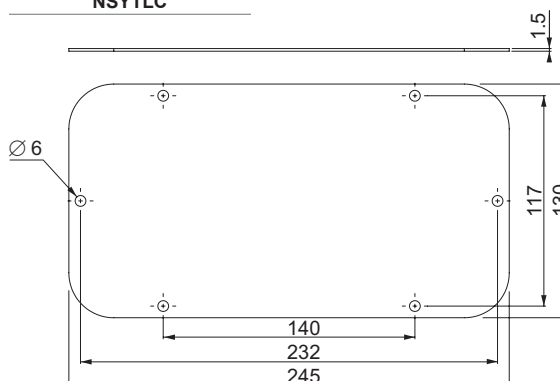


Standard cable-entry plate

- Plate with grid patterned surface with a pitch of 25 mm to facilitate perforation. Fixing by means of screws.
- Material: steel.
- Finish: painted with epoxy-polyester resin, RAL 7035 grey.

 Supply: one standard cable-entry plate and fixing elements.

Reference
NSYTLC



PB500600

DB30021EN



PB50083

Aluminium cable-entry plate

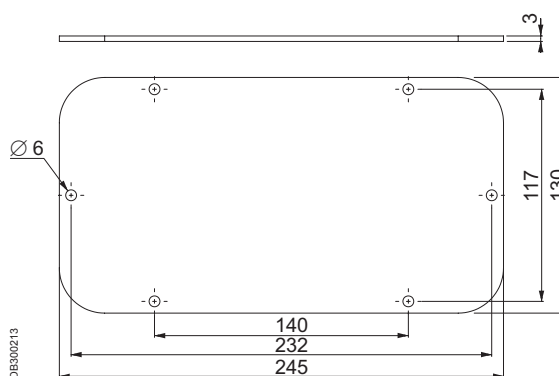
- Plain cable-entry plate. Fixing by means of screws.
- Material: brushed aluminium.
- Thickness: 3 mm.



Supply: one aluminium cable-entry plate and fixing elements.

Reference

NSYTLCU






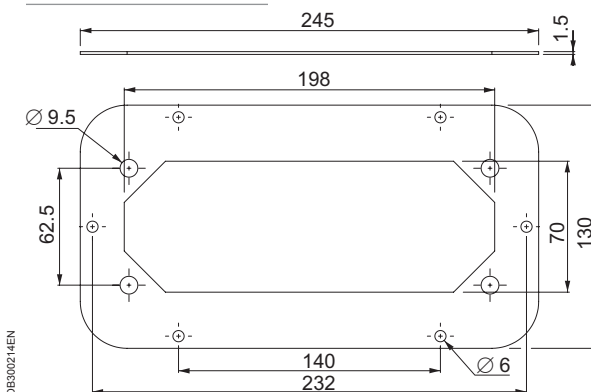
PE500604

Adapter for FL21 cable-entry plate

- Cut-out adapter for FL21 cable-entry plates. Fixing by means of screws.
- Material: steel.
- Finish: painted with epoxy-polyester resin, RAL 7035 grey.

 Supply: one FL21 cable-entry plate and fixing elements.

Reference
NSYTLCF




DB300214EN



PE500605

FL21 cable-entry membranes

- Membrane plate for watertight cable entries made from insulating material (fire-resistance level UL94-V0).
- Direct installation in the FL21 cable-entry plate adapter.
- 4 models: plain plate and membrane plates from 7 to 35 cable entries.
- Degree of protection: IP65.
- Material: grey plastic.

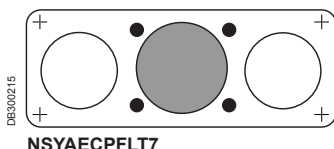
 Supply: membrane plate and fixing elements.

No. of cable entries	Reference
Plain	NSYAECPLBP
7	NSYAECPLT7
25	NSYAECPLT25
35	NSYAECPLT35



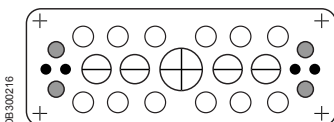
PE500606

Characteristics of the membranes



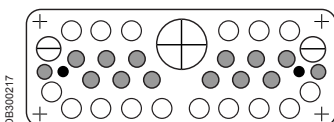
DB300215

NSYAECPLT7



DB300216

NSYAECPLT25



DB300217

NSYAECPLT35

Membrane symbol	For cable Ø (mm)	Number	IP	Another possible Ø (mm) (1)
●	8-16	4	65	-
○	24-54	2	65	-
●	30-60	1	65	-

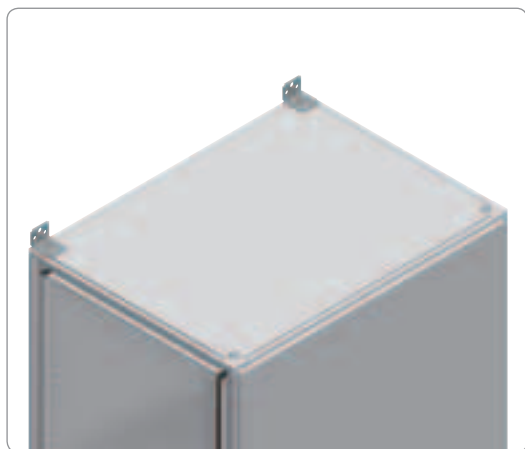
Membrane symbol	For cable Ø (mm)	Number	IP	Another possible Ø (mm) (1)
●	5-7	4	65	-
●	6-12	1	65	-
○	10-14	12	65	-
⊖	14-20	4	65	8-12
⊕	20-26	1	65	8-12

(1) IP54 in this use.

Membrane symbol	For cable Ø (mm)	Number	IP	Another possible Ø (mm) (1)
●	6-10	2	65	-
●	8-12	14	65	-
○	10-14	16	65	-
⊖	12-18	2	65	-
⊕	17-32	1	65	-

Composition accessories

Wall-mounting



Wall-mounting support

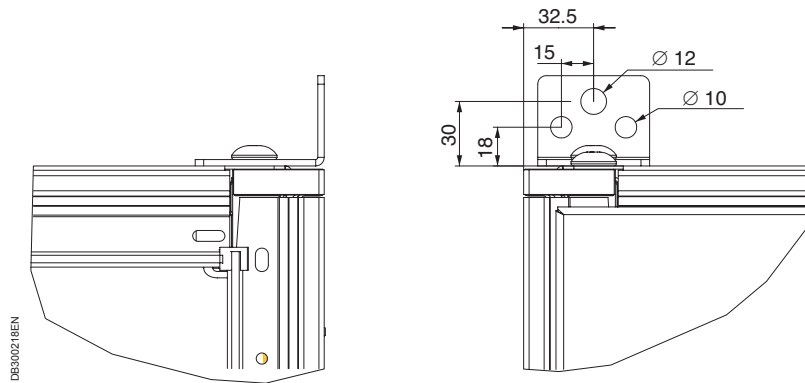
- Supports for mounting the enclosure on the wall and preventing it from turning over.
- They cannot be used for hanging the enclosure.
- They are installed using the roof mounting screws.
- Material: zinc-coated steel.



Supply: 2 supports.

Reference

NSYSFWFIX



PE500608



Wall-mounting support

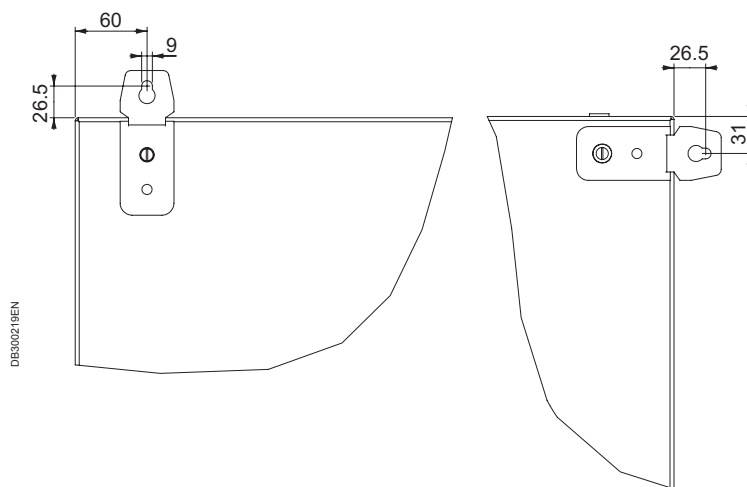
- Supports for mounting the enclosure on the wall and preventing it from turning over.
- They are installed using the drill holes in the back of the enclosure.
- Enclosure fixed from the outside.
- Material: steel.
- Finish: zinc-coated.



Supply: 2 supports.

Reference

NSYSMWFIX



DE300219EN

Composition accessories

Door and door accessories



Inner door

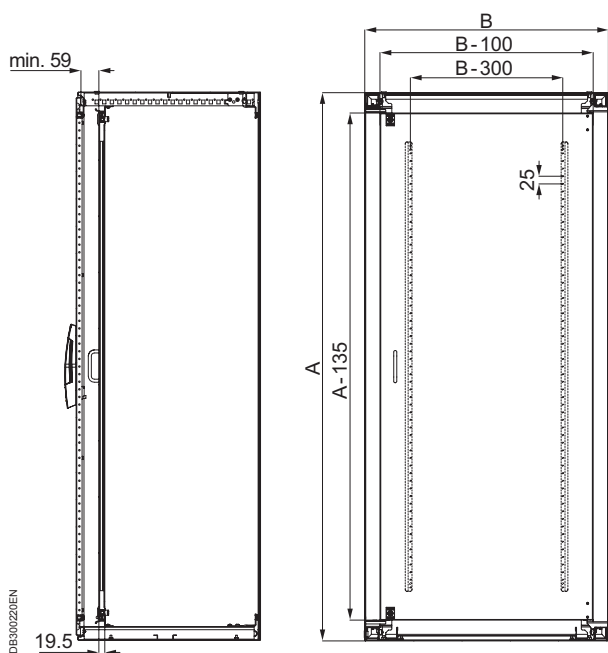
- Door for additional protection. Prevents the switchgear from being manipulated by unauthorised personnel.
- Allows the installation of switchgear mounted directly on the door.
- Mounting on the top and bottom frame of the enclosure.
- Depth adjustable with a pitch of 25 mm, from the first fixing point.
- Opening to right or left, with two locks, 3-mm double-bar, with central handle.
- Reinforcement frames on the rear, cut-outs with a 25-mm pitch, for equipping the door.
- Material: steel.
- Finish: painted with epoxy-polyester resin, RAL 7035 grey.
- Maximum acceptable load: 15 kg.



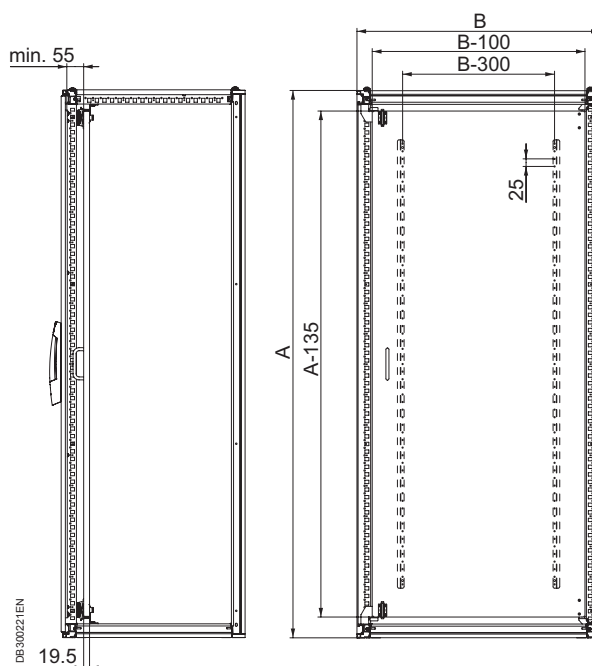
Supply: one inner door and fixing elements.



Nominal dimensions (mm)		Reference
Height (A)	Width (B)	
1600	600	NSYID166
	800	NSYID168
1800	600	NSYID186
	800	NSYID188
	1000	NSYID1810
2000	600	NSYID206
	800	NSYID208
	1000	NSYID2010
2200	600	NSYID226
	800	NSYID228



Spacial SM



Spacial SF



Side door

- Door for the side of the enclosure, replaces the side panel.
- Installation directly on the structure of the enclosure, opening 120°.
- Lock with handle and 5-mm double-bar insert.
- 4 locking points.
- Reinforcement frame, cut-out with a pitch of 25 mm.
- Opening to right or left.
- Material: steel.
- Finish: painted with epoxy-polyester resin, RAL 7035 grey.

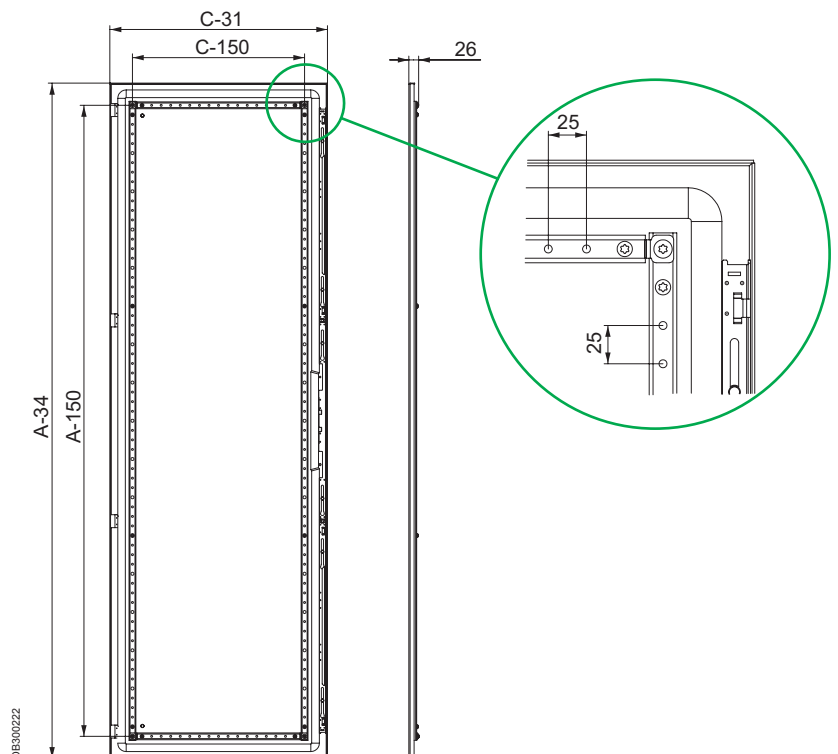


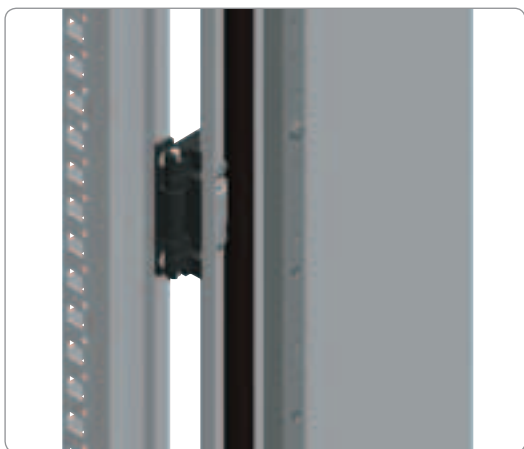
Supply: one side door, four hinges, four catches and handle lock.

> Advantage:

The side door is the same as the front door when the width and depth dimensions are the same.

Spacial SF dimensions (mm)		Reference
Height (A)	Depth (C)	
1200	600	NSYSFD126
	800	NSYSFD128
1400	600	NSYSFD146
	800	NSYSFD148
1600	600	NSYSFD166
	800	NSYSFD168
1800	400	NSYSFD184
	500	NSYSFD185
	600	NSYSFD186
	800	NSYSFD188
2000	400	NSYSFD204
	500	NSYSFD205
	600	NSYSFD206
	800	NSYSFD208
2200	400	NSYSFD224
	500	NSYSFD225
	600	NSYSFD226
	800	NSYSFD228






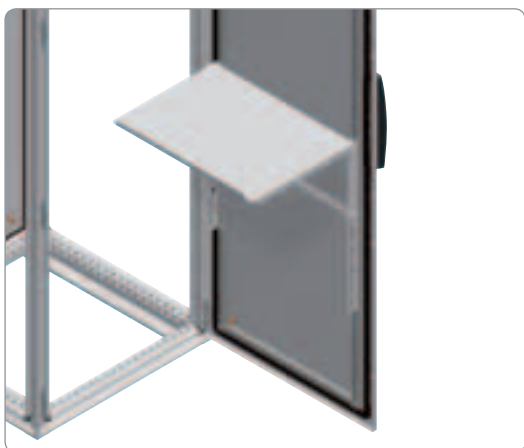
PB900610

180° hinge

- Hinge with opening of 180°.
- Intended to replace the 120° hinges installed as standard.
- They are compatible with the transparent door and can be installed even with enclosure suites.
- Material: aluminium and zamak.
- Maximum load: 60 kg on the door.
- Finish: painted RAL 9005 black.

 Supply: 4 hinges, template for making the drill holes and fixing elements.


Model	Reference
RAL 9005 black	NSYSH180

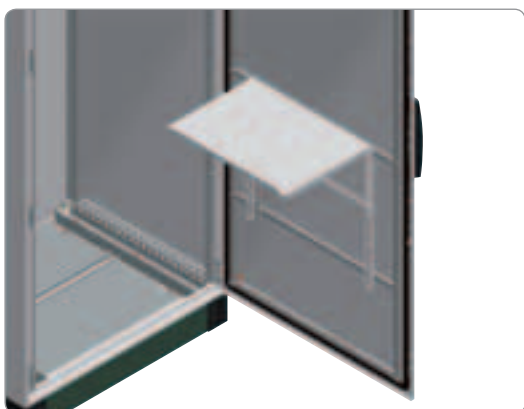


PB900611

Folding support tray

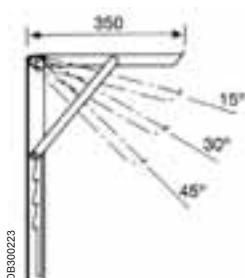
- Adjustable horizontal support for laptop computers, documents or any other element.
- Installation on the reinforcement frame of the door.
- Can also be installed on the door cross rails, see page 484.
- Adjustable depth with a pitch of 25 mm.
- In enclosures with a width of 1000 mm, it is possible to install any size using the door cross rail with reference **NSYSDCR10**.
- 4 positions: 45°, 60°, 75° and 90°.
- Material: steel.
- Thickness: 1.5 mm.
- Finish: painted with epoxy-polyester resin, RAL 7035 grey.
- Maximum load: 30 kg.

 Supply: one folding support tray and fixing elements.



PB900612

Spacial Dimensions (mm)	Reference
Width	
500	NSYSDT5
600	NSYSDT6
800	NSYSDT8




DB300223

PE500485

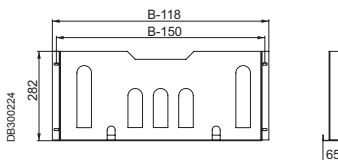


Metal document pocket

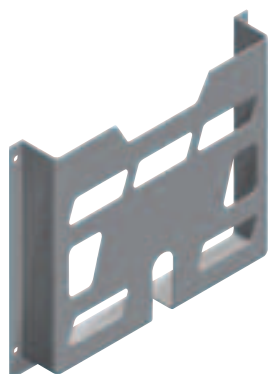
- Direct mounting on the reinforcement frame of the door.
- Adjustable depth with a pitch of 25 mm.
- Material: steel.
- Finish: painted with polyester-epoxy resin, RAL 7035 grey.

 Supply: one metal document pocket and fixing elements.

Spacial Dimensions (mm)	Reference
Width (B)	
600	NSYSDP6M
800	NSYSDP8M




PE500484

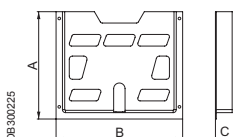


Plastic document pocket

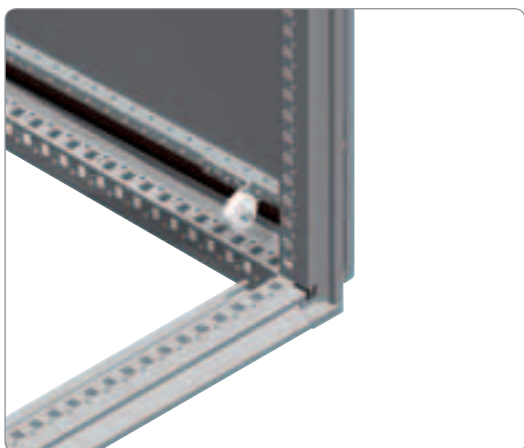
- Attachment by adhesive tape.
- Formats: A5 and A4.
- Material: polystyrene (PS), RAL 7035 grey.

 Supply: one plastic document pocket.

Document format (mm)	A	B	C	Reference
A5	174	188	22	NSYDPA5
A4	234	278	22	NSYDPA4
A4	234	278	40	NSYDPA44
A3	258	476	35	NSYDPA3




PE500613



Door-centring caster

- Allows the door to be raised when closing.
- Direct mounting on the reinforcement frame.
- Maximum load: 60 kg.

 Supply: one centring roller and fixing elements.

Reference
NSYSDRC



PB500471

> **Advantage:**
Easy opening.

Handle for shape inserts and cylindrical barrels

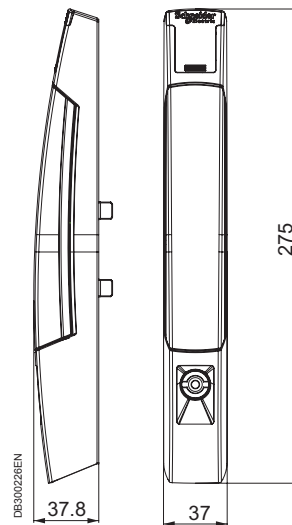
- Handle lock allowing the door to be opened: with a single movement.
- Standard handle for the entire range of **Spacial SF** and **Spacial SM** enclosures; does not include the insert when ordered as an accessory.
- Easy and quick installation of inserts without needing screws.
- Allows the installation of shape inserts and cylindrical barrels.
- The symmetric design of the locking system makes it easy to change the opening direction of the door, right/left. Easy fixing by means of screws.
- Space reserved for enclosure identification, 21 x 27 mm, protected by a label frame.
- Material:
 - Handle: polyamide 6 with 30% fibreglass, RAL 9005 black.
 - Label frame: polycarbonate.
- UV resistant.
- Fire resistance: 650 °C.
- Resistance to external mechanical impacts: IK10.





Supply: standard handle and fixing elements (insert not included).


Reference

NSYSFHS1





Shape inserts and cylindrical barrels

Shape inserts		Reference
 	6-mm square insert	NSYINS61
	Female 6-mm square insert	NSYINS6G1
	7-mm square insert	NSYINS71
	8-mm square insert	NSYINS81
	Female 8-mm square insert	NSYINS8G1
	8-mm square insert with slot	NSYINS8H1
	6.5-mm triangular insert	NSYINT61
	7-mm triangular insert	NSYINT71
	8-mm triangular insert	NSYINT81
	9-mm triangular insert	NSYINT91
	10-mm triangular insert	NSYINT101
	10-mm keyless hexagonal insert	NSYINH31
	3-mm double-bar insert	NSYINDB31
	5-mm double-bar insert	NSYINDB51
	Daimler Benz insert	NSYINBENZ1
	Fiat insert	NSYINFIAT1
	Keyless USA slot insert	NSYINUSA1
Keyless 2 x 4 slot insert	NSYIN241	
Crown insert	NSYINCW1	

Push button		Reference
	Push button	NSYINPULS1

➤ For installing shape inserts and cylindrical barrels in handle types DIN, KABA and ASSA (ref. NSYSFHD2), see adapter (ref. NSYLADP) page 181.

Cylindrical barrels		Reference
 	405E key lock	NSYIN405E1
	421E key lock	NSYIN421E1
	455 key lock	NSYIN4551
	1242E key lock	NSYIN1242E1
	1332E key lock	NSYIN1332E1
	2124E key lock	NSYIN2124E1
	2131A key lock	NSYIN2131A1
	2132A key lock	NSYIN2132A1
	2331A key lock	NSYIN2331A1
	2433A key lock	NSYIN2433A1
	2452E key lock	NSYIN2452E1
	3113A key lock	NSYIN3113A1
	3122E key lock	NSYIN3122E1
	3123A key lock	NSYIN3123A1
	3133A key lock	NSYIN3133A1
	3422E key lock	NSYIN3422E1
	3432E key lock	NSYIN3432E1
	EDF1300 key lock	NSYINF1301
	EDF1400 key lock	NSYINF1401
	Michelin 8079 keyless lock	NSYINICHEL8791
Michelin 8133 keyless lock	NSYINICHEL8131	
Michelin 8376 keyless lock	NSYINICHEL8371	
E1 keyless lock	NSYINE11	


Composition accessories

Locking system

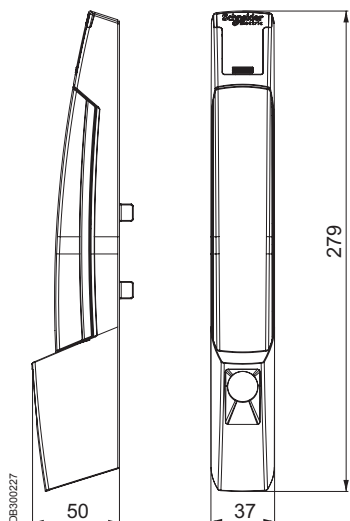


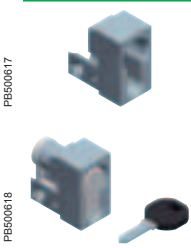
Handle for insert types DIN, KABA, ASSA

- Easy-opening handle lock: requires a single movement.
- The inserts are easily and quickly mounted without any screws and allow the installation of profiled DIN, KABA and ASSA locks.
- To install shape inserts or cylindrical barrels, it is necessary to add adapter ref. **NSYLADP**.
- The symmetric design of the locking system makes it easy to change the opening direction of the door, right/left. Mounting on the door by means of screws.
- Space reserved for enclosure identification, 21 x 27 mm, protected by a label frame.
- Material:
 - Handle: polyamide 6 with 30% fibreglass, RAL 9005 colour.
 - Label frame: polycarbonate.
- UV resistant.
- Fire resistance: 650 °C.
- Resistance to external mechanical impacts: IK10.

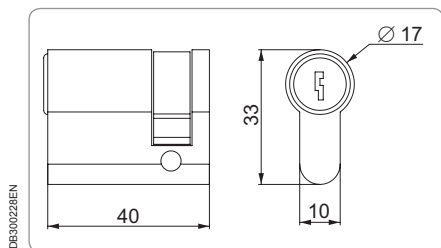
 Supply: one handle for DIN, KABA and ASSA inserts and fixing elements (insert not included).

Reference
NSYSFHD2

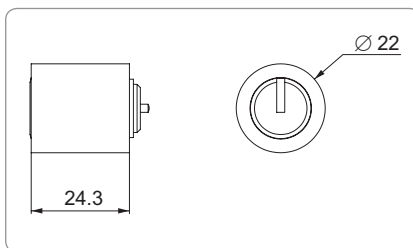


Lock system: DIN, KABA and ASSA		Reference
 <p>PB500617 PB500618</p>	Adapter for DIN cylinder	NSYINDIN2
	Adapter for KABA cylinder (1)	NSYINKBA2
	Adapter for ASSA cylinder	NSYINASSA2
	1242E key lock	NSYIN1242E2
	Reinforced key lock	NSYINKR2
	JIS key lock	NSYINKJIS2
	FAC key lock	NSYINKFAC2

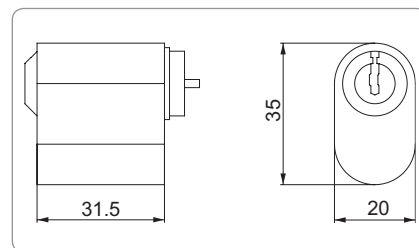
(1) Adapter for receiving the KABA8, KABA20 and KABA start cylinders.



Insert dimensions for DIN adapters.



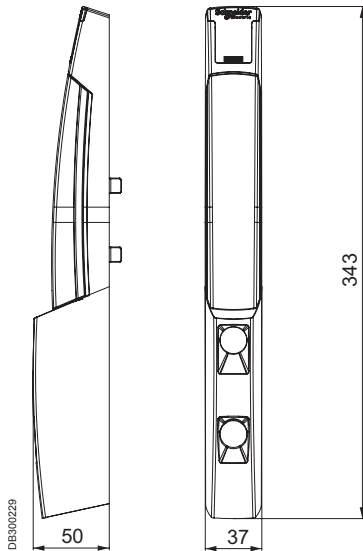
Insert dimensions for KABA adapters.



Insert dimensions for ASSA adapters.

Composition accessories

Locking system



Double-insert handle

- Easy-opening handle lock: requires a single movement. Allows two inserts to be installed in the same lock.
- To install shape inserts or cylindrical barrels, it is necessary to add adapter ref. **NSYLADP**.
- The handle can perform the "AND" and "OR" functions. The elements for performing these functions are supplied with the handle.
 - "AND" function: one insert blocks the activation of the other insert.
 - "OR" function: either insert can release the handle.
- The symmetric design of the locking system makes it easy to change the opening direction of the door, right/left. Mounting on the door by means of screws.
- Space reserved for enclosure identification, 21 x 27 mm, protected by a label frame.
- Material:
 - Handle: polyamide 6 with 30% fibreglass, RAL 9005 colour.
 - Label frame: polycarbonate.
- UV resistant.
- Fire resistance: 650 °C.
- Resistance to external mechanical impacts: IK10.



Supply: one double-insert handle, elements for performing the "AND" and "OR" functions and fixing elements (insert not included).

Reference

NSYSFHD3

Adapter for shape inserts and cylindrical barrels

- Plastic adapter for installing shape inserts and cylindrical barrels in handle lock types DIN, KABA, ASSA.

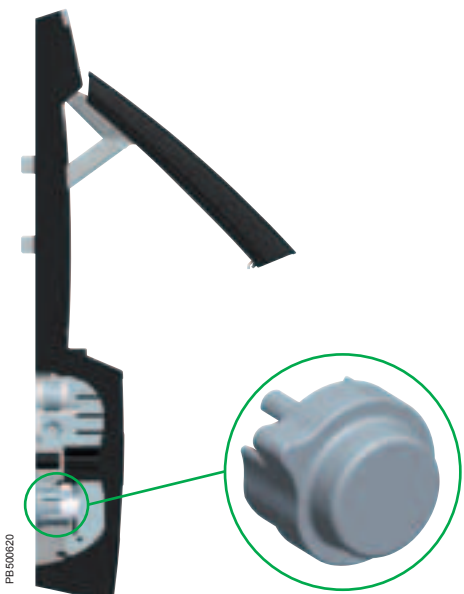


Supply: 1 unit.

- See shape inserts and cylindrical barrels on page 179.
- See insert types DIN, KABA, ASSA on page 180.

Reference

NSYLADP





Padlock locking

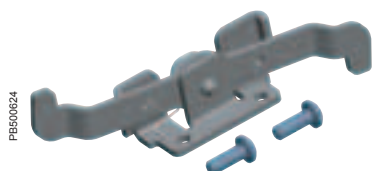
- Padlock locking system, for installation in all the handles of the **Spacial SF** and **Spacial SM** enclosures.
- Bolt with 7.5-mm drill hole.



Supply: one cut-out handle, bolt for padlock and bolt fixing screw.

Reference

NSYBLKH123



CNOMO kit

- Locking system to be installed on the central locking bar of the door. It works as a locking bar immobiliser, preventing the handle from closing while the door is still open.
- It is compatible with all handle lock versions, except the flat lock and the small flat lock.



Supply: one mechanism, 6.5-mm triangular insert, key and fixing elements.

Reference

NSYCNOH123




Composition accessories

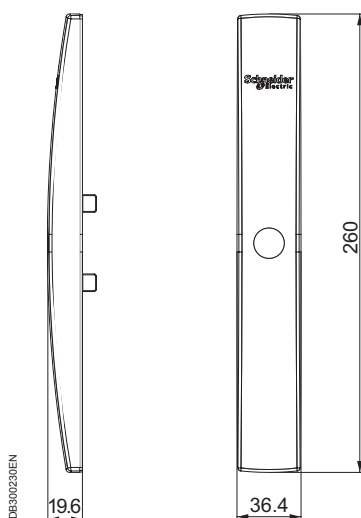
Locking system












Flat escutcheon lock

- Optional flat escutcheon lock. Replaces the handle lock.
- The symmetric design of the locking system makes it easy to change the opening direction of the door, right/left. Mounting on the door by means of screws.
- Possibility of changing the turning direction of the insert.
- Material: polyamide 6 with 30% fibreglass, RAL 9005 black.
- UV resistant.
- Fire resistance: 650 °C.
- Resistance to external mechanical impacts: IK10.

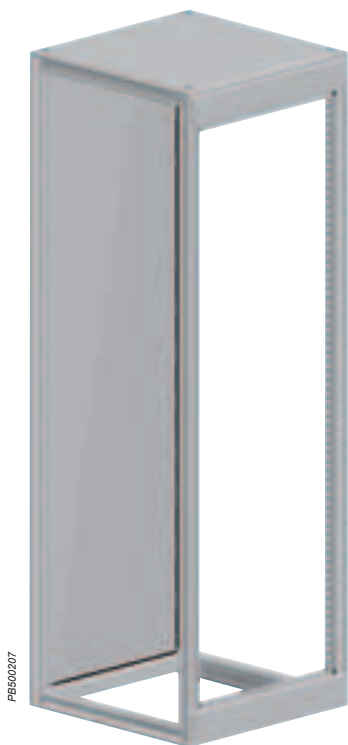
 Supply: flat lock, shape insert, key and fixing elements.



	Models	Reference
PB500627	 Flat lock + screwdriver slot, 2-mm groove	NSYSFLOCK24
PB500628	 Flat lock + 8-mm triangular insert	NSYSFLOCKT8
PB500629	 Flat lock + 7-mm triangular insert	NSYSFLOCKT7
PB500630	 Flat lock + 6.5-mm triangular insert	NSYSFLOCKT6
PB500631	 Flat lock + 8-mm female square insert	NSYSFLOCKSG8
PB500632	 Flat lock + 8-mm square insert	NSYSFLOCKS8
PB500633	 Flat lock + 7-mm square insert	NSYSFLOCKS7
PB500634	 Flat lock + 6-mm square insert	NSYSFLOCKS6
PB500635	 Flat lock + 5-mm double-bar insert	NSYSFLOCKDB5

Compartmentalised enclosure

Composition accessories

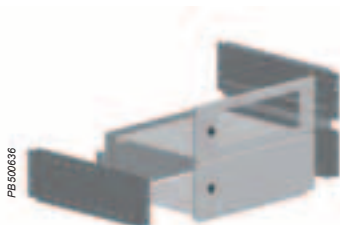
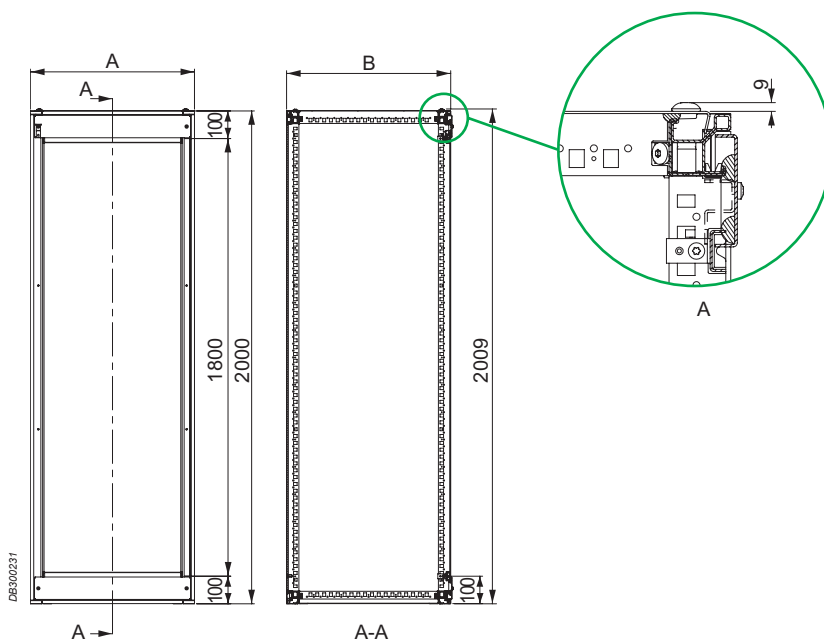


Compartmentalised enclosure application

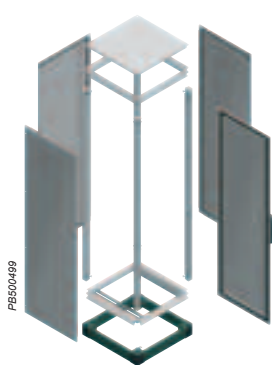
- The compartmentalised enclosure separates the various working areas, restricting their access.
- The closed compartments make it possible:
 - To insulate the control of a device mechanically and electrically.
 - To reduce the destructive effects of a short-circuit.

Composition

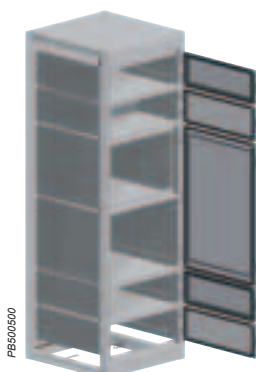
- Structure: top and bottom frame and vertical uprights.
- Fixed panels: top and bottom, to allow modularity.
- 2 intermediate crossbars.
- Removable roof.
- External fixing rear panel.
- Material: steel painted with epoxy-polyester resin, textured RAL 7035 grey.



External dimensions (mm)			Useful height for doors (mm)	Reference
Height	Width (B)	Depth (C)		
2000	600	600	1800	NSYSF20660M
		800	1800	NSYSF20680M
	800	600	1800	NSYSF20860M
		800	1800	NSYSF20880M



Enclosure cladding accessories, see page 185.



Equipment support accessories, see page 192.



Optional composition accessories, see page 143.



PEB00114

Standard side panels

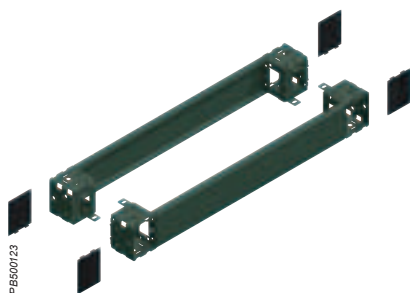
External fixing

- Set of 2 side panels fixed to the outside of the enclosure.
- Captive screws.
- Material: steel painted with epoxy-polyester resin, textured RAL 7035 grey.



Supply: two side panels with external fixing, supplied with sealing gasket.

Spacial SF dimensions (mm)		Reference
Height	Depth	
2000	600	NSY2SP206
	800	NSY2SP208



PEB00123

Plinth

- See composition accessories: floor, page 143.
- Model heights: 100 and 200 mm.

Front plinth



- Supply:
- **Height 100 mm:** 4 corners, 2 panels (front and rear), 4 corner covers and fixing elements.
 - **Height 200 mm:** 4 corners, 4 panels (2 front and 2 rear), 4 corner covers and fixing elements.



PEB00124

Plinth side panels



- Supply:
- **Height 100 mm:** two side panels, four corner covers and fixing elements.
 - **Height 200 mm:** four side panels (height of 100 mm, 2 for each side), four corner covers and fixing elements.

Spacial SF Dimensions (mm)		Front plinth reference (mm)		Plinth side panel reference (mm)	
Width	Depth	100	200	100	200
600	600	NSYSPF6100	NSYSPF6200	NSYSPS6100	NSYSPS6200
	800			NSYSPS8100	NSYSPS8200
800	600	NSYSPF8100	NSYSPF8200	NSYSPS6100	NSYSPS6200
	800			NSYSPS8100	NSYSPS8200

Compartmentalised enclosure

Composition accessories



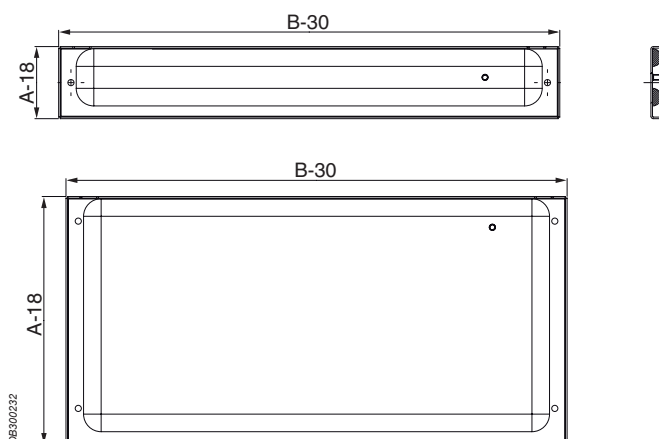
PB500637

Fixed panel for modularity

- Panel fixed to the structure of the enclosure by means of screws.
- Recommended for enclosure kits.
- It is installed at the top and bottom of the enclosure, to obtain the modularity required to install partial doors.
- Material: steel painted with epoxy-polyester resin, textured RAL 7035 grey.

Supply: two panels and fixing elements.

Spacial SF dimensions (mm)		Reference
Height (A)	Width (B)	
100	600	NSYMFP16
	800	NSYMFP18
300	600	NSYMFP36
	800	NSYMFP38

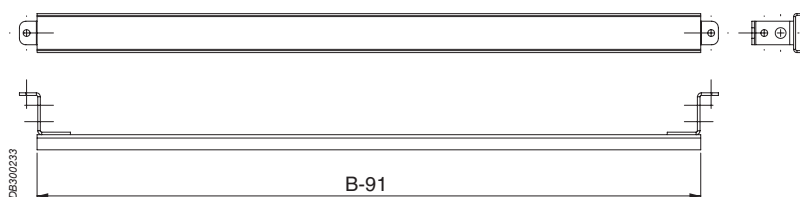


Intermediate crossbar

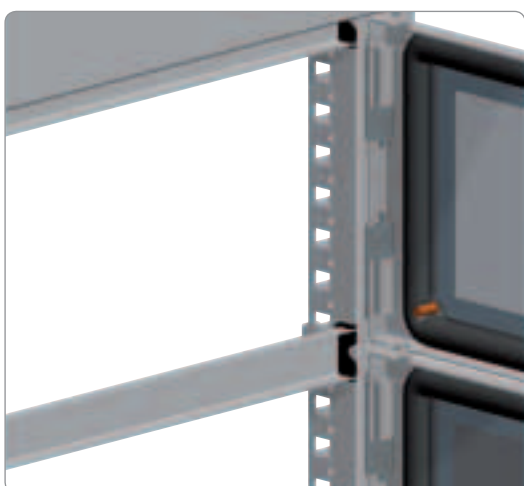
- Crossbar with direct fixing to the structure.
- It is mounted between partial doors or between doors and control desk, guaranteeing good sealing.
- Material: steel painted with epoxy-polyester resin, textured RAL 7035 grey.

Supply: 6 crossbars and fixing elements.

Spacial SF Dimensions (mm)	Reference
Width (B)	
600	NSYMIC6
800	NSYMIC8



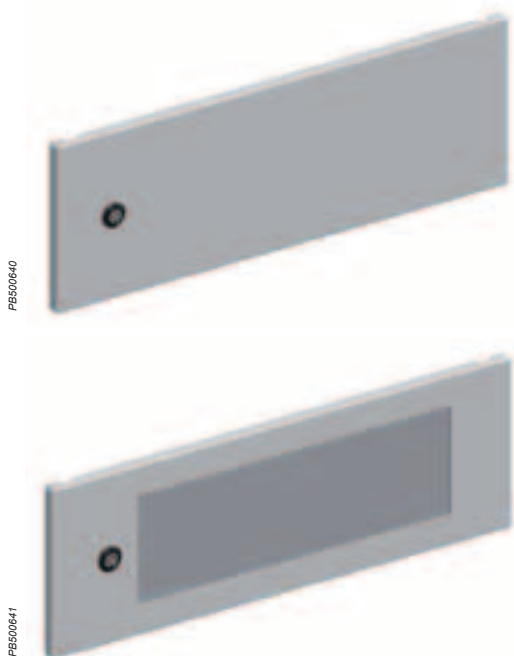
PB500639



PB500639


Compartmentalised enclosure

Composition accessories

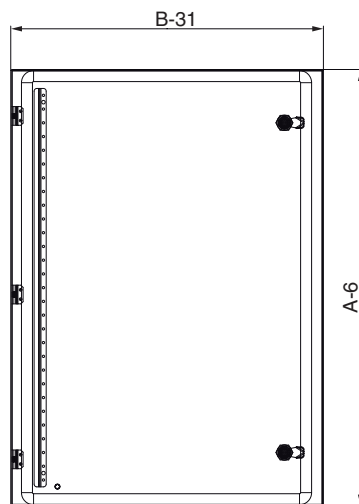


Partial doors

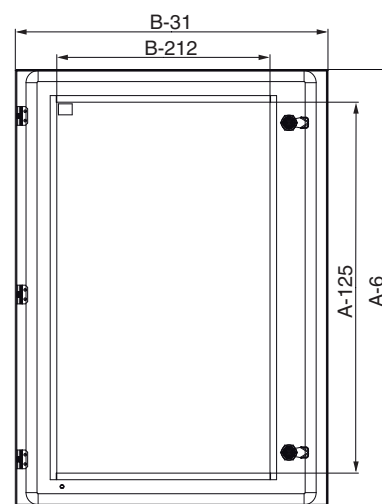
- Two partial door versions:
 - Plain partial door IK10.
 - Transparent partial door with Securit® glass IK8.
- They are fixed to the uprights of the structure by means of hinges.
- Locking system with small flat escutcheon, made from polyamide 6 with 30% fibreglass, RAL 9005 black, with 5 mm double-bar metal insert.
- 1 locking point for doors with heights of 200 mm and 2 locking points for doors with heights from 400 to 1000 mm.
- Opening to the right or left.
- 1 vertical reinforcement frame, cut-out with a pitch of 25 mm; except doors with a height of 200 mm.
- Material: steel painted with epoxy-polyester resin, textured RAL 7035 grey.

 Supply: partial door, hinges and fixing elements.

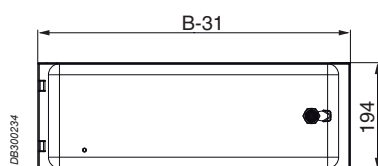
Spacial SF dimensions (mm)		Plain partial door reference	Transparent partial door reference
Height (A)	Width (B)		
200	600	NSYMPD26	NSYMPD26T
400		NSYMPD46	NSYMPD46T
600		NSYMPD66	NSYMPD66T
800		NSYMPD86	NSYMPD86T
1000		NSYMPD106	NSYMPD106T
200	800	NSYMPD28	NSYMPD28T
400		NSYMPD48	NSYMPD48T
600		NSYMPD68	NSYMPD68T
800		NSYMPD88	NSYMPD88T
1000		NSYMPD108	NSYMPD108T



Heights from 400 to 1000 mm.

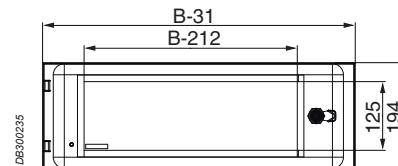


Heights from 400 to 1000 mm.



Height 200 mm

Plain partial door.



Height 200 mm

Transparent partial door.

Compartmentalised enclosure

Composition accessories



FB500642

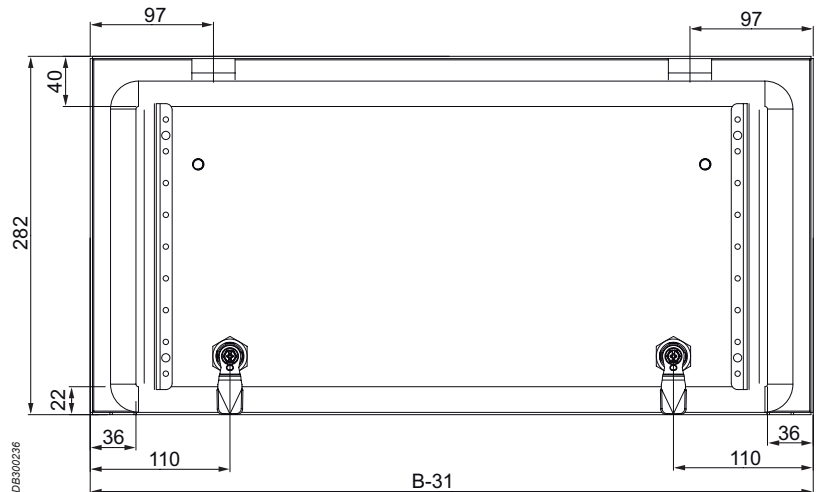
Folding panels

- Horizontal panel, hinged at the top.
- Guarantees protection of the sets of bars.
- Opening angle: 110°.
- It is installed together with partial doors to create the modularity of the enclosure.
- Material: steel painted with epoxy-polyester resin, textured RAL 7035 grey.
- Locking system with two small flat escutcheons, made from polyamide 6 with 30% fibreglass, RAL 9005 black, with 5-mm double-bar insert.



Supply: one folding panel, hinges and fixing elements.

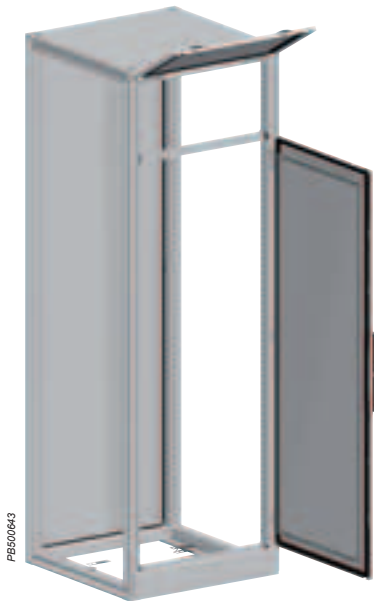
Nominal dimensions (mm)		Reference
Height	Width (B)	
300	600	NSYCDP36
	800	NSYCDP38



DB300236

Compartmentalised enclosure

Composition accessories



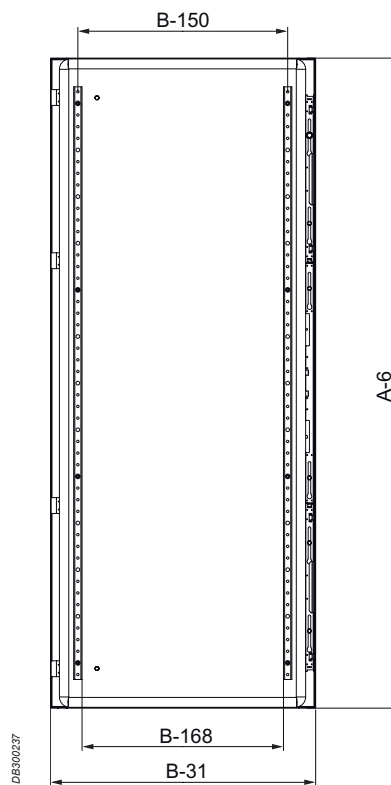
Partial door for folding panel

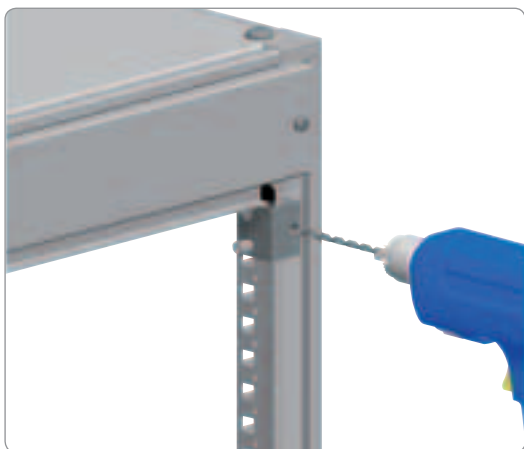
- Can be combined with folding panels and with the rest of the partial doors.
- Plain partial doors with handle lock with 5-mm double-bar insert.
- 4 locking points and 4 hinges.
- Material: steel painted with epoxy-polyester resin, textured RAL 7035 grey.



Supply: one partial door, hinges and catches of the locking system.

Nominal dimensions (mm)		Plain partial door reference
Height (A)	Width (B)	
1200	600	NSYMPD126
1400		NSYMPD146
1600		NSYMPD166
1200	800	NSYMPD128
1400		NSYMPD148
1600		NSYMPD168






FB500644

Drilling template

- Guide for drilling the vertical uprights, prior to installing the partial doors.
- It can be reused.
- Material: zinc-coated steel.

 Supply: one template.

Reference

NSYMDT



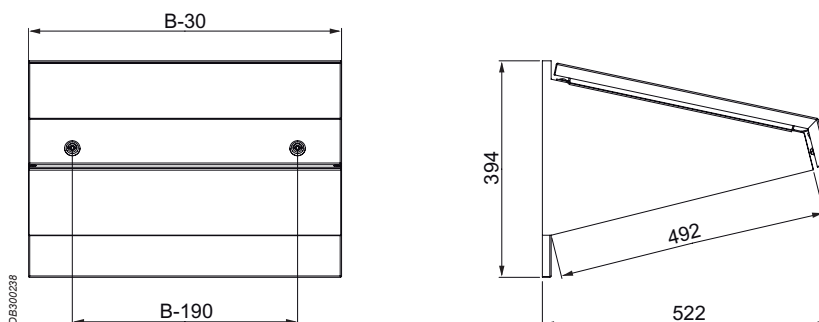
FB500645

Control desk

- Support for human-machine dialogue.
- It is fixed directly to the structure of the enclosure and can be inserted the same as the partial doors.
- Material: steel painted with epoxy-polyester resin, textured RAL 7035 grey.
- Locking system with small flat escutcheons, made from polyamide 6 with 30% fibreglass, RAL 9005 black, with 5-mm double-bar metal insert.

 Supply: one control desk and fixing elements.

Nominal dimensions (mm)		Reference
Height	Width (B)	
400	600	NSYMCOD264
	800	NSYMCOD284

















DE300238

Compartmentalised enclosure

Composition accessories

Locks

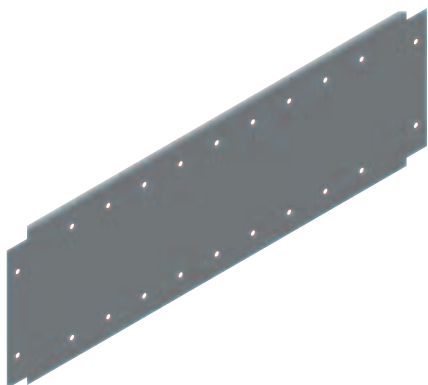
- Possibility to replace standard insert by one from the table below (CRN range) and by keeping the standard latch.

Type of lock	Insert reference	Key reference
 3 mm double bar	NSYTDBCRN*	 NSYLDDB5
 6 mm	NSYTC6CRN	 NSYLC7
 7 mm	NSYTC7CRN	 NSYLC7
 8 mm	NSYTC8CRN	 NSYLC8
 6.5 mm	NSYTT6CRN	 NSYLT8
 7 mm	NSYTT7CRN	 NSYLT8
 8 mm	NSYTT8CRN	 NSYLT8

*Delivered with 1 metal key


Compartmentalised enclosure Mounting accessories

PB500648



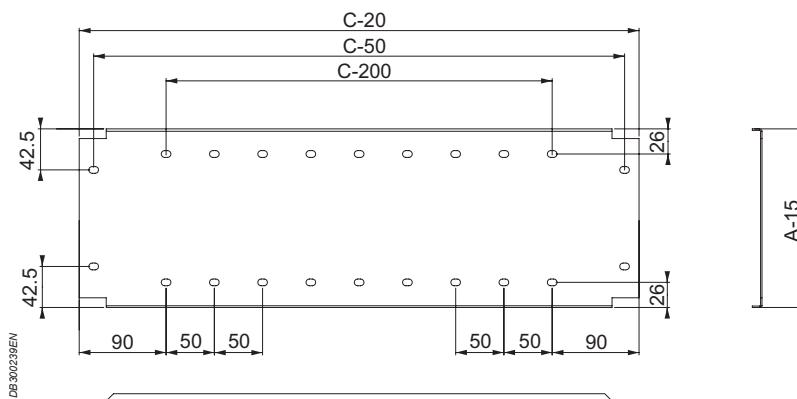
Side partitions

- Side partitions which guarantee good insulation of the compartments.
- Direct fixing on the structure of the enclosure.
- Material: galvanised steel.

 Supply: two side partitions panels of 400 mm height. Four side partitions panels of 200 mm height. Fixing elements included.

Nominal dimensions (mm)		Reference
Height (A)	Depth (C)	
200	600	NSYMSC26
	800	NSYMSC28
400	600	NSYMSC46
	800	NSYMSC48

PB500649



Rear partitions

- Rear enclosing plates for forming modules, also allowing the installation of equipment.
- They are installed at the rear of the partition tray.
- Material: galvanised steel.

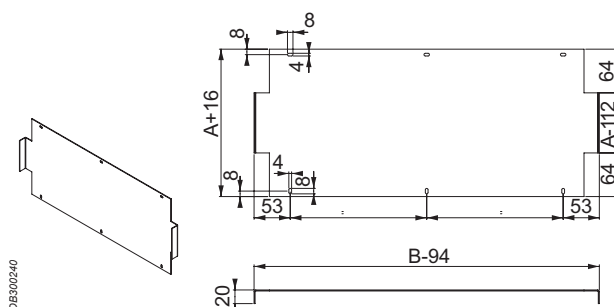
 Supply: two rear partitions and fixing elements.

Nominal dimensions (mm)		Reference
Height (A)	Width (B)	
200	600	NSYMBC26
400		NSYMBC46
600		NSYMBC66
800		NSYMBC86
1000		NSYMBC106
200	800	NSYMBC28
400		NSYMBC48
600		NSYMBC68
800		NSYMBC88
1000		NSYMBC108

PB500650

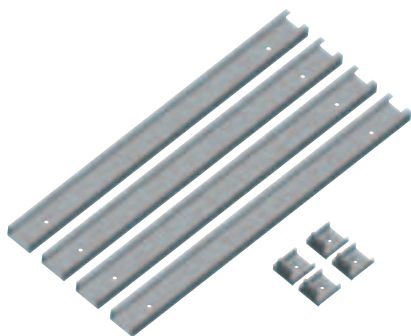


PB500651



Compartmentalised enclosure

Mounting accessories



PB500652

Fixing kit

- Provide the fixing of the mounting plate.
- They are fixed to the side enclosing plates.
- Models:
 - Fixed: allow adjustment with a pitch of 50 mm.
 - Adjustable: allow continuous adjustment for depths of 600 and 800 mm.
- Material: zinc-coated steel.



Supply: four units and fixing elements.

Model	Nominal dimensions (mm)		Reference
	Depth		
Fixed	-		NSYCFIX
Adjustable	600		NSYCFIX6
Adjustable	800		NSYCFIX8



PB500653

Mounting plate

- Plate for fixing elements.
- It is mounted fixed on the fixing kit, with ref. **NSYCFIX**, or with adjustable depth with ref. **NSYCFIX6** or **NSYCFIX8**.
- Material: galvanised steel.

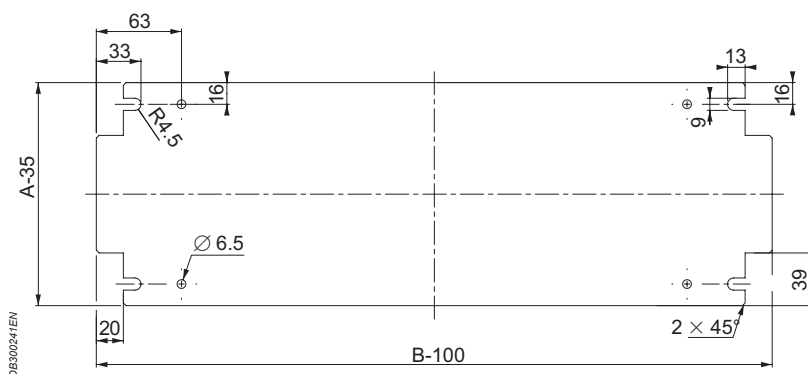


Supply: one mounting plate.

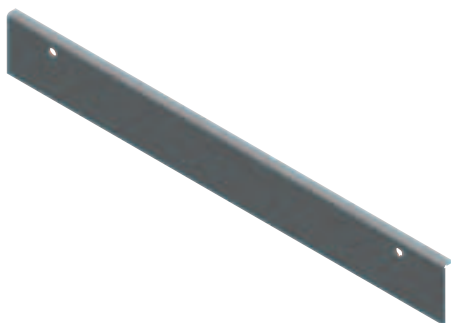
Nominal dimensions (mm)		Reference
Height (A)	Width (B)	
200	600	NSYMP26
400		NSYMP46
600		NSYMP66
800		NSYMP86
1000	800	NSYMP106
200		NSYMP28
400		NSYMP48
600		NSYMP68
800	NSYMP88	
1000	NSYMP108	



PB500654



PB500655



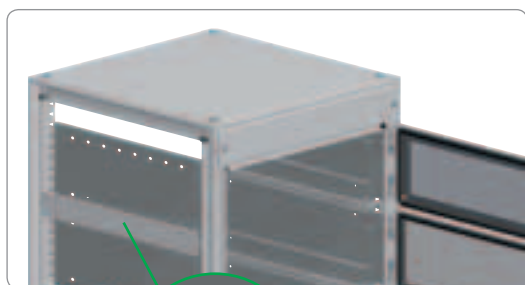
Side enclosing plate

- Plate to be installed between the side partitions, achieving full enclosure of the module.
- It is fixed to the side partition from the outside of the enclosure.
- Material: galvanised steel.



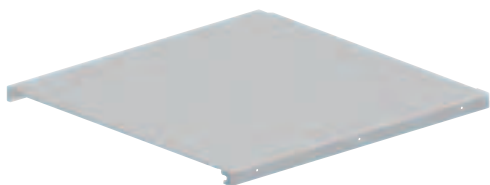
Supply: two sides enclosing plate and fixing elements.

PB500656



Spacial SF Dimensions (mm)		Reference
Depth		
600		NSYCMOD6
800		NSYCMOD8

PB500657



Partition tray

- Guarantees horizontal insulation of the modules.
- It is fixed to the front frame, supported by the side partitions.
- Material: galvanised steel.



Supply: one partition tray and fixing elements.

PB500658



Spacial SF dimensions (mm)		Reference
Width	Depth	
600	400	NSYSTR64
	500	NSYSTR65
800	400	NSYSTR84
	500	NSYSTR85

PB500689



Tray crossbar

- To be installed between partial doors separated with a partition tray.
- It is fixed to the partition tray by screws.
- Material: steel painted with epoxy-polyester resin, textured RAL 7035 grey.



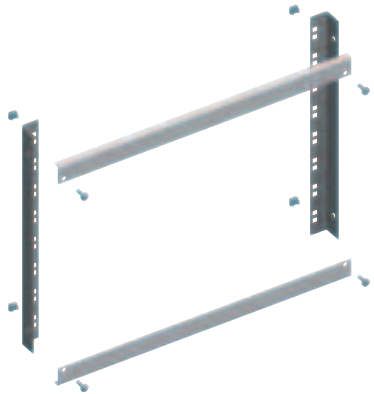
Supply: one tray crossbar and fixing elements.

Spacial SF Dimensions (mm)	Reference
Width	
600	NSYTRG6
800	NSYTRG8

PB500680



PB500661



Partial 19" fixed rack

- Designed for coupling to enclosures with a width of 600 mm.
- Direct fixing to the structure, in front position.
- Maximum load: 2 kg/u.
- Material: zinc-coated steel.



Supply: two racks, two horizontal escutcheons and fixing elements.

Enclosure height (mm)	No. of units	Reference
200	3	NSYCRCKP3
400	7	NSYCRCKP7
600	12	NSYCRCKP12
800	16	NSYCRCKP16
1000	21	NSYCRCKP21
1200	25	NSYCRCKP25

PB500662

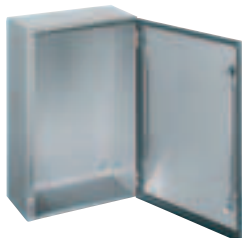


Stainless-steel wall-mounting enclosures

Stainless-steel wall-mounting enclosures

Contents

PE600075



Spacial S3X Stainless-steel wall-mounting enclosures **198**

Stainless-steel solution	198
Introduction	204
Dimensions	205
Selection guide	206
Accessories	207

Our stainless-steel solutions: to withstand aggressions in exposed environments



Our stainless-steel solutions: to withstand aggressions in exposed environments

Choice:

A complete range of enclosures.
Plain door and glazed door.
2 stainless-steel grades: 304L and 316L (according to the range).



Resistance to corrosion:

High resistance to corrosion. 304L and 316L stainless steels provide the best solutions for applications in extremely demanding environments.



Aesthetics:

Scotch-Brite® brushed finish as standard.
Micro-beaded or painted finish (on request).
Chrome-plated escutcheon.
Invisible weld points.
Perfect polishing.



Customisation:

Machining and cut-outs.
Special dimensions.
Accessory installation.
Special finishes: painted and micro-beaded.
Production according to your specifications.



Hygiene:

The high quality of the standard finish enables very easy maintenance while avoiding contamination.
The hygienic feet made from 316L stainless steel, 100 mm and 200 mm high, make it easier to clean under the enclosures.



Availability:

Wide range of dimensions for the wall-mounting enclosures, monobloc and suitable floor-standing enclosures and control desks.
Accessory compatibility with our metal ranges.



PB501229

How is the stainless steel grade determined?

These enclosures have been specially designed for the chemical, oil and food and beverage industries, among others, which are particularly demanding in terms of hygiene and resistance to corrosion.

Thanks to an elaborate composition

- The following table shows the percentages of the main alloy elements that make up stainless steels. The resistance of the material to aggressive agents in the environment depends mainly on these alloys.

Stainless-steel type		Chemical composition (%)			
AISI grade	N. Europe	carbon	chromium	nickel	molybdenum
304L	1.4307	< 0.03	17 - 19	8 - 10	0
316L	1.4404	< 0.03	17 - 19	10 - 13	2 - 2.25

Choosing a stainless steel grade

AISI 304L stainless steel (known as food and beverage stainless steel)

The most commonly used type in the food and beverage industry for its resistance to corrosion and easy cleaning.

- Prevention against corrosion, especially in the presence of organic acids.
- Resistance to the action of nitrous gas in the presence of condensation water and in most aggressive environments.



PB501230

AISI 316L stainless steel (known as marine stainless steel)

Recommended in salty or chlorinated environments due to its very high resistance to corrosion thanks to the presence of molybdenum.

- Improved resistance to corrosion.
- Particularly well adapted to environments charged with acidity, bromine and saline halides or which use very corrosive additives and solvents.



PB501231

The finish: 3 solutions against aggressive environmental agents

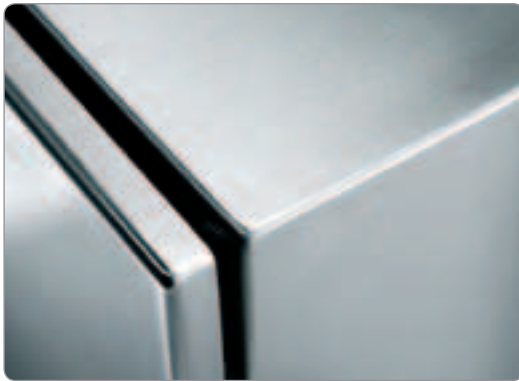
Surface condition plays an important role in the fight against bacteria. The lower the roughness, the fewer bacteria become incrustated. Reduced roughness means fewer bacteria, less adherence of materials and an impeccable finish.

To choose a finish is also to choose an appearance of the enclosures that matches the environment of other machines and equipment.

Solution 1: Scotch-Brite® brushing

The method used consists of brushing as defined by the ASTM (American Society for Testing and Material).

- Finish very commonly used for the chemical and food and beverage industries.
- Surface roughness is improved thanks to an additional polishing process which offers more efficient characteristics against polluting elements.
- Surface roughness, $Ra \leq 0.8 \mu m$.



PE60122

Solution 2: Micro-beading (on request)

Exclusiveness, an impeccable finish with smooth silky appearance.

The method:

- Bombardment with miniscule ceramic balls of the entire surface to be treated at very high speed.
- Closes micro-cracks caused during lamination by flattening.

The result:

- Increased hardness.
- Reduced surface roughness ($Ra \approx 0.8 \mu m$).
- A perfectly even surface, with a silky appearance (no scratches and no burrs).
- Reduces the adherence of materials.
- Allows disinfection.

Typical application: pharmaceutical and food and beverage industries.



PE60123

Solution 3: Protective painting (on request)

The highest protection against aggressions, external pollution and projections of metal particles.

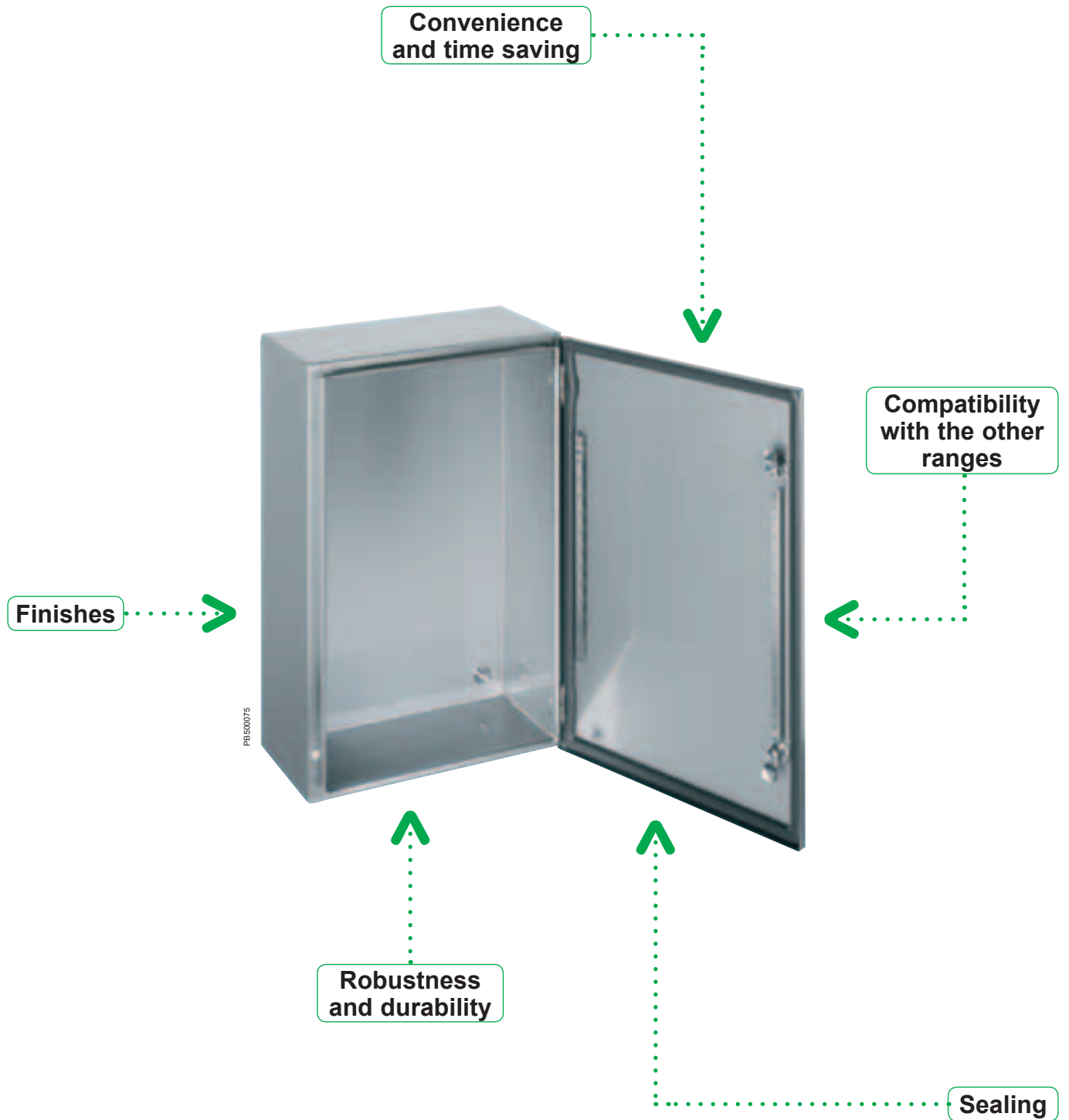
- Provides the ultimate protection against corrosion.

Typical applications: marine, seaside, off-shore.



PE60124

Stainless-steel wall-mounting enclosures



Finishes:

Two types of steel offered as standard: 304L and 316L, with Scotch-Brite® brushed finish. Painted in the RAL range or micro-beaded finish (on request).



PB501225

Large range of accessories:

Stainless-steel accessories: canopy, wall-fixing lugs. Accessories of the standard offer: mounting plate, inner door, modular chassis and step slides. Large selection of locks with 100% stainless-steel transformation.



PB501239

Sealing:

Protection rating of IP 66 (IEC 60529): complete protection against dust and water sprays. Polyurethane gasket. Gutter-shaped front profile. Three closure points for the double door.



PB501240

Robustness and durability:

Resistance to external mechanical impacts: IK 10: plain door, IK 08: glazed door. Door reinforcement frame or profile. Stainless-steel hinges.



PB501241

Convenience and time saving:

304 or 316L stainless-steel wall-fixing lugs. Vertical reinforcement perforated profiles, which make it easier to equip the door. Reversible door opening to 120°. Easy installation directly on the machine thanks to the 4 rear drill holes.



PB501242

304L / 316L stainless-steel wall-mounting enclosure

Introduction



PE600075



PE601243

Technical features

These enclosures have been specially designed for the chemical, oil and food and beverage industries, among others, which are particularly demanding in terms of hygiene and resistance to corrosion.

- Two types of materials, with Scotch-Brite® brushed finish, are available:
 - AISI 304L,
 - AISI 316L.
- Two wall-mounting enclosure versions are available:
 - With plain door,
 - With glazed door, Securit® glass, 4 mm thick.
- Protection rating of IP 66 for all single enclosures with single door and glazed door, IP 55 for the double door enclosures, according to IEC 60529.
- Resistance to external mechanical impacts:
 - IK 10 for the solid-door enclosures,
 - IK 08 for the glazed-door enclosures.
- Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure.
- Thickness: 1.5 mm.
- Single-piece body (cross-shaped structure). Gutter-shaped front profile.
- 4 rear studs for fixing the material.
- 2 cut-out vertical profiles on the door (from a height of 600 mm), with drill holes with a diameter of 4.25 mm and a pitch of 25 mm for installing accessories.
- Door strengthening frame (from a height of 1000 mm), cross-section of 20 mm x 15 mm, with drill holes with a diameter of 5 mm and a pitch of 25 mm.
- Standard lock with 3-mm double-bar lock (chrome-plated zamak).
- 2 locking points for heights of more than 500 mm or three points for two-door enclosures.
- Stainless-steel hinges screwed to the body of the enclosure. They make it easier to remove and invert the door. Opening angle: 120°.
- Polyurethane gasket.
- M6 x 16 screws on the door and on the body, allowing equipotential connection between the earth connections (on request).
- 4 holes for fixing to the wall directly or with the help of mounting lugs (on request), blocked by sealing plugs.

Certifications

- IEC 62208.
- UL 508A.
- CAN/CSA 22.

Stainless-steel wall-mounting enclosures

Dimensions

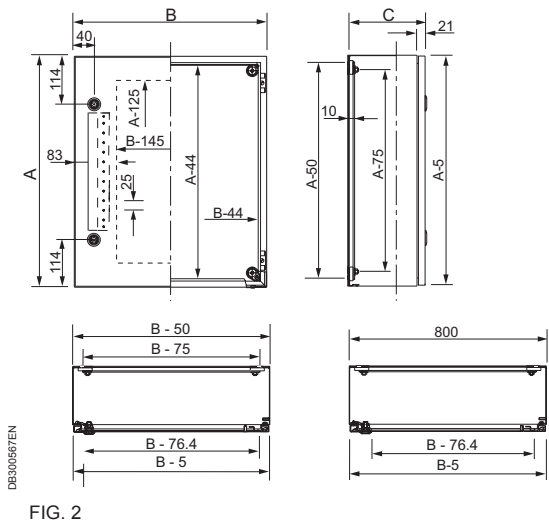


FIG. 2

External dimensions (mm)			Fig.
A	B	C	
300	200	150	1
300	250	150	1
300	300	150	1
400	300	150	1
400	300	200	1
400	400	200	1
400	600	200	1
500	400	200	2*
600	400	200	2
600	600	250	2
700	500	250	2
800	600	250	2
800	800	300	2
1000	800	300	3
1000	1000	300	4
1200	800	300	3
1200	1000	300	4

*Without door reinforcement.

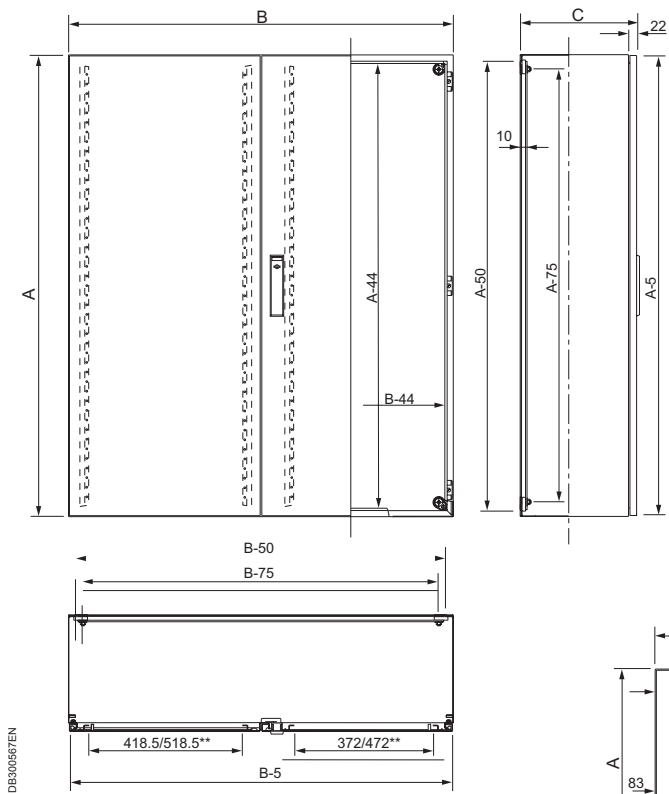


FIG. 4

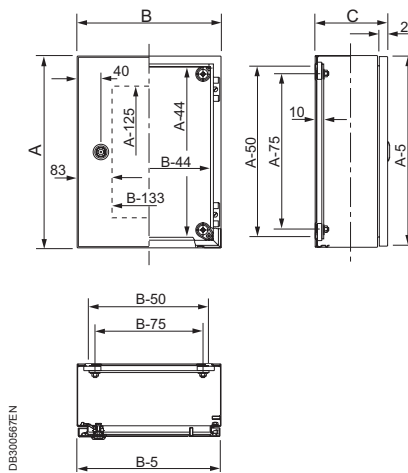


FIG. 1

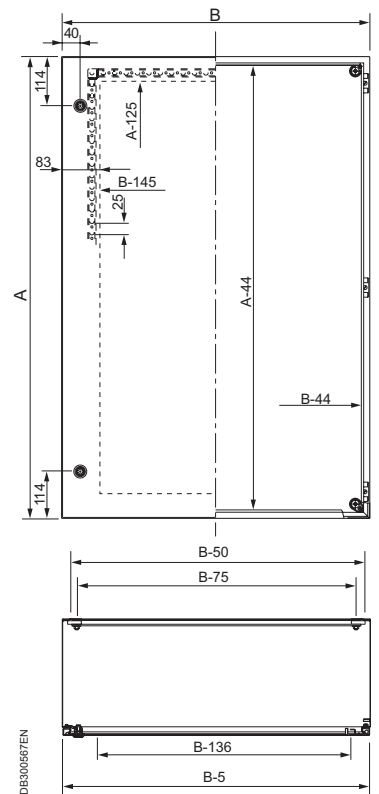
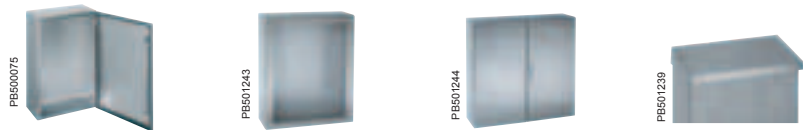


FIG. 3

**For glazed door.

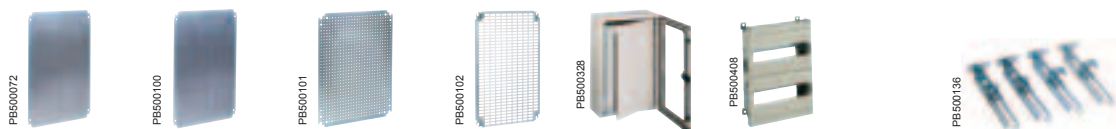
Stainless-steel wall-mounting enclosures

Selection guide



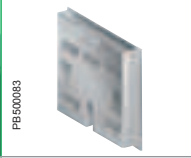



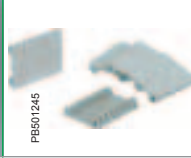


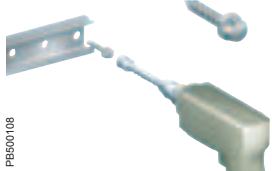


External dimensions (mm)			No. of locks	No. of doors	304L stainless steel		316L stainless steel	304L stainless-steel canopy
Height	Width	Depth			Plain door	Glazed door**	Plain door	
300	200	150	1	1	NSYS3X3215	-	NSYS3X3215H	NSYTX2015
300	250	150	1	1	NSYS3X302515	-	NSYS3X302515H	NSYTX2515
300	300	150	1	1	NSYS3X3315	-	NSYS3X3315H	NSYTX3015
400	300	150	1	1	NSYS3X4315	-	NSYS3X4315H	NSYTX3015
400	300	200	1	1	NSYS3X4320	NSYS3X4320T	NSYS3X4320H	NSYTX3020
400	400	200	1	1	NSYS3X4420	-	NSYS3X4420H	NSYTX4020
400	600	200	1	1	NSYS3X4620	-	NSYS3X4620H	NSYTX6020
500	400	200	2	1	NSYS3X5420	NSYS3X5420T	NSYS3X5420H	NSYTX4020
600	400	200	2	1	NSYS3X6420	NSYS3X6420T	NSYS3X6420H	NSYTX4020
600	600	250	2	1	NSYS3X6625	-	NSYS3X6625H	NSYTX6025
700	500	250	2	1	NSYS3X7525	NSYS3X7525T	NSYS3X7525H	NSYTX5025
800	600	250	2	1	NSYS3X8625	NSYS3X8625T	NSYS3X8625H	NSYTX6025
800	800	300	2	1	NSYS3X8830	-	NSYS3X8830H	NSYTX8030
1000	800	300	2	1	NSYS3X10830	NSYS3X10830T	NSYS3X10830H	NSYTX8030
1000	1000	300	*	2	NSYS3X101030	-	NSYS3X101030H	NSYTX10030
1200	800	300	2	1	NSYS3X12830	-	NSYS3X12830H	NSYTX8030
1200	1000	300	*	2	NSYS3X121030	-	NSYS3X121030H	NSYTX10030

* Three-point closure system.
 ** The glazed door has no reinforcement.



Height	Width	Depth	Mounting plate			Telequick	Inner door	Chassis reference	Number of modules	Step slides
			Plain	Silkscreened	Microperforated					
300	200	150	NSYMM32	-	-	NSYMR32	-	-	-	-
300	250	150	NSYMM3025	-	-	NSYMR3025	-	-	-	-
300	300	150	NSYMM33	-	-	NSYMR33	-	-	-	-
400	300	150	NSYMM43	NSYMS43	NSYMF43	NSYMR43	NSYPIN43	NSYDLM24	24	-
400	300	200	NSYMM43	NSYMS43	NSYMF43	NSYMR43	-	NSYDLM24	24	NSYSDCR200
400	400	200	NSYMM44	NSYMS44	NSYMF44	NSYMR44	-	-	-	NSYSDCR200
400	600	200	NSYMM64	NSYMS64	NSYMF64	NSYMR46	-	-	-	NSYSDCR200
500	400	200	NSYMM54	NSYMS54	NSYMF54	NSYMR54	NSYPIN54	NSYDLM48	48	NSYSDCR200
600	400	200	NSYMM64	NSYMS64	NSYMF64	NSYMR64	NSYPIN64	NSYDLM48P	48	NSYSDCR200
600	600	250	NSYMM66	NSYMS66	NSYMF66	NSYMR66	-	NSYDLM84P	84	NSYSDCR250
700	500	250	NSYMM75	NSYMS75	NSYMF75	NSYMR75	NSYPIN75	NSYDLM66	66	NSYSDCR250
800	600	250	NSYMM86	NSYMS86	NSYMF86	NSYMR86	NSYPIN86	NSYDLM84	84	NSYSDCR250
800	800	300	NSYMM88	-	NSYMF88	NSYMR88	-	-	-	NSYSDCR300
1000	800	300	NSYMM108	-	NSYMF108	NSYMR108	NSYPIN108	NSYDLM240	234	NSYSDCR300
1000	1000	300	NSYMM1010	-	NSYMF1010	NSYMR1010	-	-	-	NSYSDCR300
1200	800	300	NSYMM128	-	NSYMF128	NSYMR128	NSYPIN128	-	-	NSYSDCR300
1200	1000	300	NSYMM1210	-	NSYMF1210	NSYMR1210	-	-	-	NSYSDCR300

Cable entries	Set of four stainless-steel wall-fixing lugs	Adhesive plastic document pocket	Door switch	Lighting	Clip-on nuts	Blanking plate for modular chassis
						
Page 435	304L : NSYPFCX 316L : NSYPFC2X	NSYDPA44	NSYINLCRN	NSYLAMCS	NSYKNM6	NSYATP72MS
	Page 228	Page 483	Page 482	Page 475	Page 391	Page 399

Plain mounting plate screw			
	Self-tapping screw		
	M6 x 16	NSYS16M6HS	100
	M5 x 13	NSYS13M5HS	100
	Self-tapping screw		
M5 x 16	NSYS16M5HS	100	



PE601239

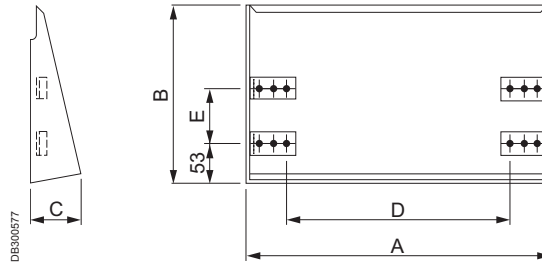


Configured

Optional in factory assembly:
contact us.

Canopy

- Direct fixing to the body of the enclosure.
- 304L stainless-steel sheet, 1.5 mm thick, Scotch-Brite® brushed finish.
- Delivered with the fixings required for installation.
- Other finishes, other stainless steels: contact us.



DB300577

For wall-mounting enclosures (mm)		Dimensions (mm)					Canopy reference
Width	Depth	A	B	C	D	E	
200	150	205	183	51	120	-	NSYTX2015
250	150	205	183	51	120	-	NSYTX2515
300	150	305	183	51	220	-	NSYTX3015
300	200	305	233	51	220	70	NSYTX3020
400	200	405	233	70	320	70	NSYTX4020
500	250	505	283	70	420	120	NSYTX5025
600	200	605	233	70	520	70	NSYTX6020
600	250	605	283	70	520	120	NSYTX6025
800	300	805	333	70	720	170	NSYTX8030
1000	300	1005	333	70	920	170	NSYTX10030

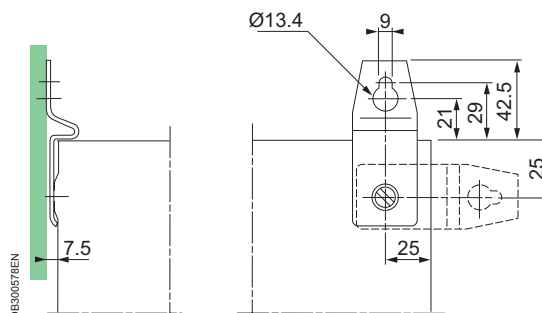


PE601242

Wall-fixing lugs

- Set of four 304 or 316L stainless-steel wall-fixing lugs.
- Mounting of the wall-fixing lugs in horizontal or vertical position.
- Fixing from the outside.
- Maximum load: horizontal 180 kg and vertical 350 kg.

Stainless-steel type	Reference
304	NSYPFCX
316L	NSYPFC2X



DB300578EN

Composition accessories

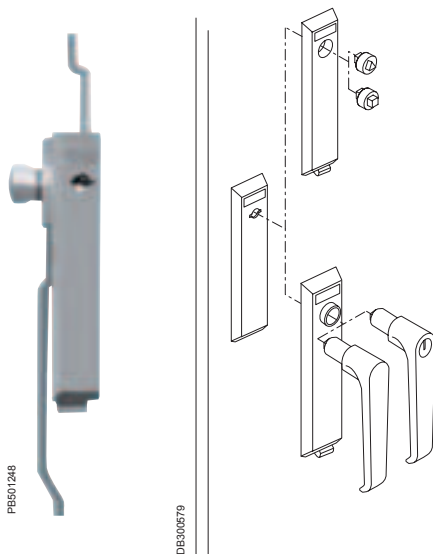
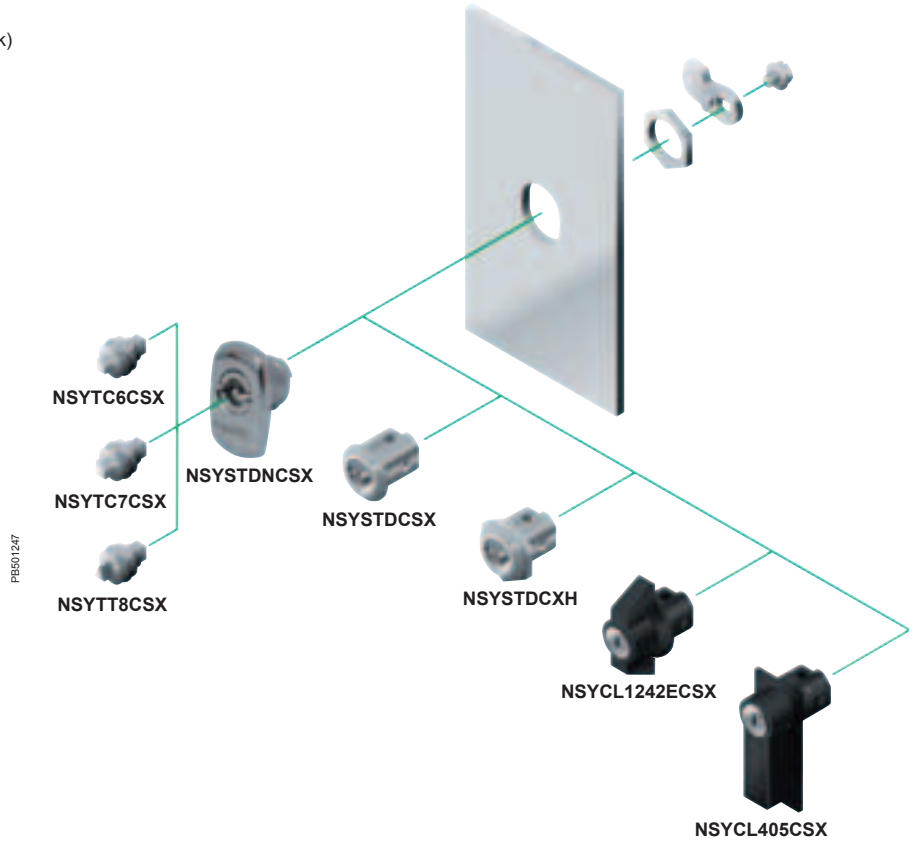
Locking system

Escutcheon

- Wall-mounting enclosure supplied with 3-mm double-bar chrome-plated zamak lock.
- Protection rating: IP 66.

Standard escutcheon

3-mm double-bar lock (standard - chrome-plated zamak)



For the closures of double-door enclosures, contact us.

Description	Material	Reference
Standard 3-mm double-bar lock	chrome-plated zamak	NSYSTDNCSX
Round 3-mm double-bar lock (spare)	chrome-plated zamak	NSYSTDCSX
Round 3-mm double-bar lock	100 % stainless steel	NSYSTDCXH
8-mm triangular insert	100 % stainless steel	NSYTT8CSX
7-mm square insert	100 % stainless steel	NSYTC7CSX
6-mm square insert	100 % stainless steel	NSYTC6CSX
1242E handle lock	Chrome-plated	NSYCL1242ECSX
405 handle lock	Polyamide	NSYCL405CSX



Configured

**Optional in-factory assembly:
contact us.**



Inner door

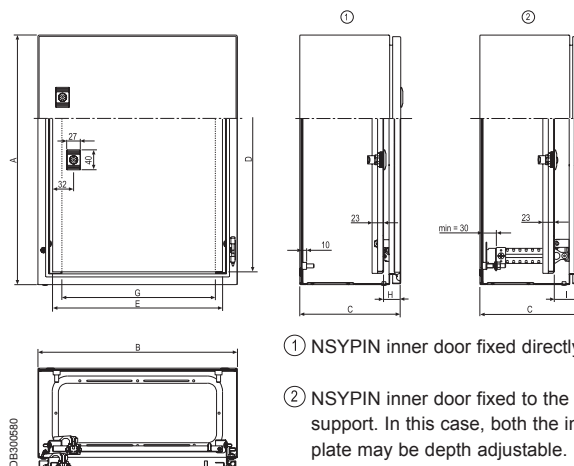
- 3-mm double-bar lock.
- The inner door can be mounted either on the front side of the enclosure or on step slides (not supplied with standard).
- Maximum load: 30 kg/m².
- As standard it can be mounted an inner door and a mounting plate, on the step slides, at the same time.
- Not compatible with door retainer and door switch. Consult us.

 Composition: 1 inner door.

For wall-mounting enclosures		Reference	D	E	G	H	I min.
Height (A)	Width (B)						
400	300	NSYPIN43	349	241	208	32	51
500	400	NSYPIN54	449	341	308	32	51
600	400	NSYPIN64	549	341	308	32	51
700	500	NSYPIN75	649	441	408	32	51
800	600	NSYPIN86*	749	541	508	32	51
1000	800	NSYPIN108*	949	741	708	32	51
1200	800	NSYPIN128*	1149	741	708	32	52

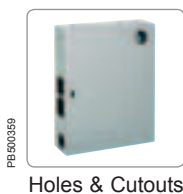
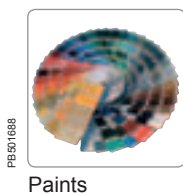
* Equipped with welded vertical profiles in order to facilitate cable management.

Spacial S3X stainless-steel enclosures dimensions



- ① NSYPIN inner door fixed directly to the enclosure.
- ② NSYPIN inner door fixed to the adjustable NSYSDCR support. In this case, both the inner door and the mounting plate may be depth adjustable.

Customised service: All standard dimensions from our catalogue on request and more...





PB501236

Monobloc stainless-steel control desk

- Control desk made from micro-beaded 304L stainless steel with monobloc console and desk top, recessed front and rear panels and equipped with inner mounting plates.
- Dimensions:
 - Height: 1200 mm.
 - Width: 2200 mm.
 - Depth: 1060 mm.

Strengths

- Large monobloc control desk.
- Meticulous aesthetics.
- Impeccable surface condition (micro-beading).
- Easy disinfection.



PB501237

Suited 19" rack and PC rack for pharmaceutical process

- 19" rack and PC rack made from micro-beaded 304L stainless steel with electropolished fronts.
- Equipped with hygienic feet, H = 100 mm.

Strengths

- Meticulous aesthetics.
- Impeccable surface condition (electropolishing).
- Easy disinfection.



PB501238

Stainless-steel lighting enclosures

- Large enclosures, W = 3000 mm, made from micro-beaded 316L stainless steel, 2.0 mm, with tilted top and plinth. These enclosures are installed on bridge piers.

Strengths

- Excellent seal.
- Meticulous aesthetics.



Specific



Configured



Stainless-steel floor-standing enclosures

Stainless-steel floor-standing enclosures

Contents

PB500138



Spacial SMX Stainless-steel floor-standing monobloc enclosures **214**

Introduction	216
Dimensions	217

PB500141



Spacial SFX Stainless-steel floor-standing suitable enclosures **220**

Introduction	222
Dimensions	223

Accessories **226**

Stainless-steel monobloc floor-standing enclosures



Material and finishes:

Stainless-steel grade:
 AISI 304L and 316L as standard.
Finishes:
 Scotch-Brite® brushed (standard).
 Micro-beaded (on request).
 Painted (on request).

Resistance to corrosion:

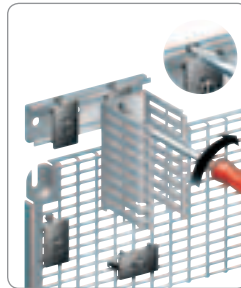
High resistance to corrosion. 304L and 316L stainless steels provide the best solutions for applications in extremely demanding environments.



PB501232

Convenience and time saving:

Complete range of accessories for installation, cable management, etc.
 316L stainless-steel plinth: easy cable entry.
 Reversible door opening to 120°.
 Padlock lock with key or form insert.
 Adjustment rails perforated with a pitch of 25 mm.
 Perforated reinforcement frame allowing accessories to be mounted on the door.



PB500968

Sealing:

Protection rating of IP 55 (IEC 60529): complete protection against dust and water sprays.
 3-point closures.
 Canopy (optional):

- protects the sealing plane of the door,
- guarantees correct water drainage,
- no stagnation on the top.

 Single-piece cable-gland plate with polyurethane gasket.



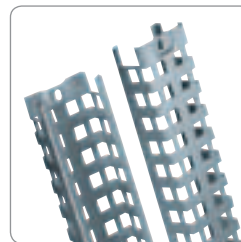
PB500138

Compatible with the other ranges:

The mounting plates and other accessories of the Spacial SM standard metal offer.



PB501255



PB501256

Hygiene:

The high quality of the standard finish enables very easy maintenance while avoiding contamination.
 The hygienic feet made from 316L stainless steel, 100 mm and 200 mm high, make it easier to clean under the enclosures.



PB501228

Robustness and durability:

Resistance to external mechanical impacts:
 IK 10 according to IEC 62262.
 3 hinges made entirely from stainless steel.
 Door reinforcement frame.



PB501241

Stainless-steel monobloc floor-standing enclosures

Introduction



PB500138

Technical characteristics

These enclosures have been specially designed for the chemical, oil and food and beverage industries, among others, which are particularly demanding in terms of hygiene and resistance to corrosion.

- Stainless-steel sheet floor-standing enclosure, 1.5 mm thick, folded and welded.
- Two types of materials, with Scotch-Brite® brushed finish, are available:
 - 304L stainless steel,
 - 316L stainless steel.
- Micro-beaded and painted finishes (on request).
- Protection rating: IP 55 according to IEC 60529.
- Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure.
- 1 Nema door, type 1, 2, 3, 3R, 4, 4X, 5, 12, 12K, 13.
- 2 Nema doors, type 1, 2, 12K.
- Resistance to external mechanical impacts: IK 10 according to IEC 62262.
- Plain front door. Opening to left or right to 120° with reinforcement frame. Installed on 3 stainless-steel hinges. 3-point closure with handle made from painted zamak, 5-mm double bar.
 - Acceptable load of 50 kg.
- Delivered with 4 mounting plate-supporting brackets.
- Single-piece cable-gland plate delivered.
- 316L stainless-steel plinths, optional heights of 100 and 200 mm.
- Optional stainless-steel canopies.
- Optional eyebolts.
 - Maximum load: 830 kg when slinging at 60°.
- For more information on the technical features of the different types of finishes: see page 201.

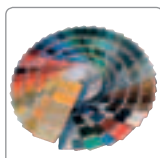
Certifications

- IEC 62208.
- UL 508.
- CAN/CSA 22.

Customised service: All standard dimensions from our catalogue on request and more...



Specific



PB501688

Paints



PB500359

Holes & Cutouts



PB501680

Mounting



PB501691

Construction changes



PB501692

Accessories

Stainless-steel monobloc floor-standing enclosures

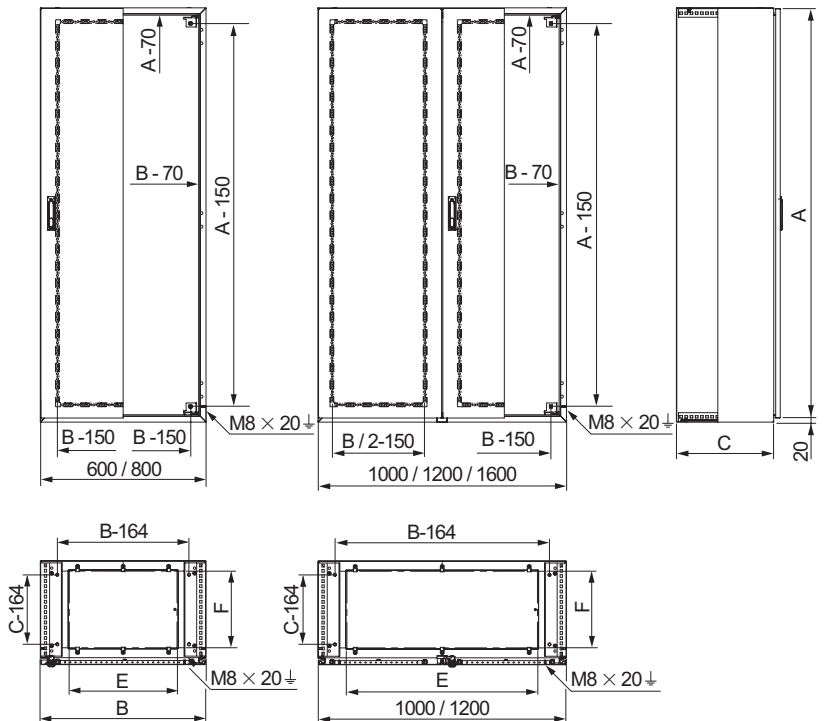
Dimensions

304L and 316L stainless-steel floor-standing enclosures:

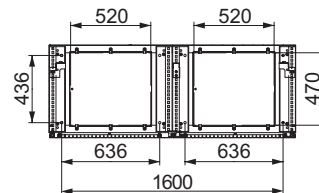


PE300137

Floor-standing enclosure dimensions (mm)			No. of cable-gland plates	Dimensions (mm)	
Height (A)	Width (B)	Depth (C)		E	F
1400	1000	300	1	720	270
1600	800	400	1	520	270
1800	600	400	1	520	270
1800	800	400	1	520	270
1800	1200	400	1	920	270
1800	1600	400	2	1320	270
2000	800	500	1	520	370
2000	1000	400	1	720	270
2000	1200	500	1	920	370
2000	1600	600	2	1320	470



Enclosure width of 1000 and 1200 mm.

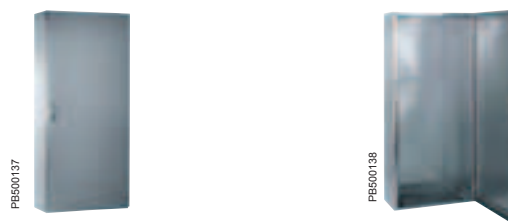


Enclosure width of 1600 mm.

DE300714

Stainless-steel monobloc floor-standing enclosures

Selection guide



External dimensions (mm)			Number of front doors	Stainless-steel enclosure	
Height (A)	Width (B)	Depth (C)		304L	316L
1400	1000	300	2	NSYSMX141030	-
1600	800	400	1	NSYSMX16840	-
1800	600	400	1	NSYSMX18640	-
1800	800	400	1	NSYSMX18840	NSYSMX18840H
1800	1200	400	2	NSYSMX181240	NSYSMX181240H
1800	1600	400	2	NSYSMX181640	NSYSMX181640H
2000	800	500	1	NSYSMX20850	-
2000	1000	400	2	NSYSMX201040	NSYSMX201040H
2000	1200	500	2	NSYSMX201250	NSYSMX201250H
2000	1600	600	2	NSYSMX201660	NSYSMX201660H



External dimensions (mm)			Brushed 316L stainless-steel canopy	Plain mounting plate	Standard vertical uprights	Technical vertical uprights
Height (A)	Width (B)	Depth (C)				
1400	1000	300	NSYSCX10030	NSYMP1410	-	NSYTVR14
1600	800	400	NSYSCX8040	NSYMP168	-	NSYTVR16
1800	600	400	NSYSCX6040	NSYMP186	NSYVR18	NSYTVR18
1800	800	400	NSYSCX8040	NSYMP188	NSYVR18	NSYTVR18
1800	1200	400	NSYSCX12040	NSYMP1812	NSYVR18	NSYTVR18
1800	1600	400	NSYSCX16040	NSYMP1816	NSYVR18	NSYTVR18
2000	800	500	NSYSCX8050	NSYMP208	NSYVR20	NSYTVR20
2000	1000	400	NSYSCX10040	NSYMP2010	NSYVR20	NSYTVR20
2000	1200	500	NSYSCX12050	NSYMP2012	NSYVR20	NSYTVR20
2000	1600	600	NSYSCX16060	NSYMP2016	NSYVR20	NSYTVR20


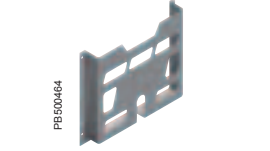

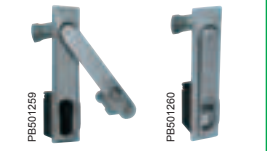
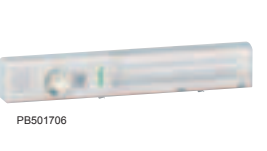
Hygienic feet	Wall-fixing lugs for SMX	Nuts and screws for rails			
<p>100 mm: NSYPHX100 200 mm: NSYPHX200</p> <p>Page 228</p>	<p>304 stainless-steel: NSYFCMX</p> <p>Page 228</p>				<p>Page 391</p>

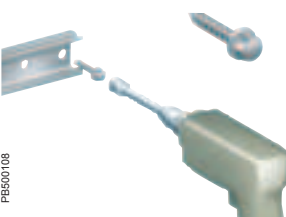


Stainless-steel monobloc floor-standing enclosures

Selection guide

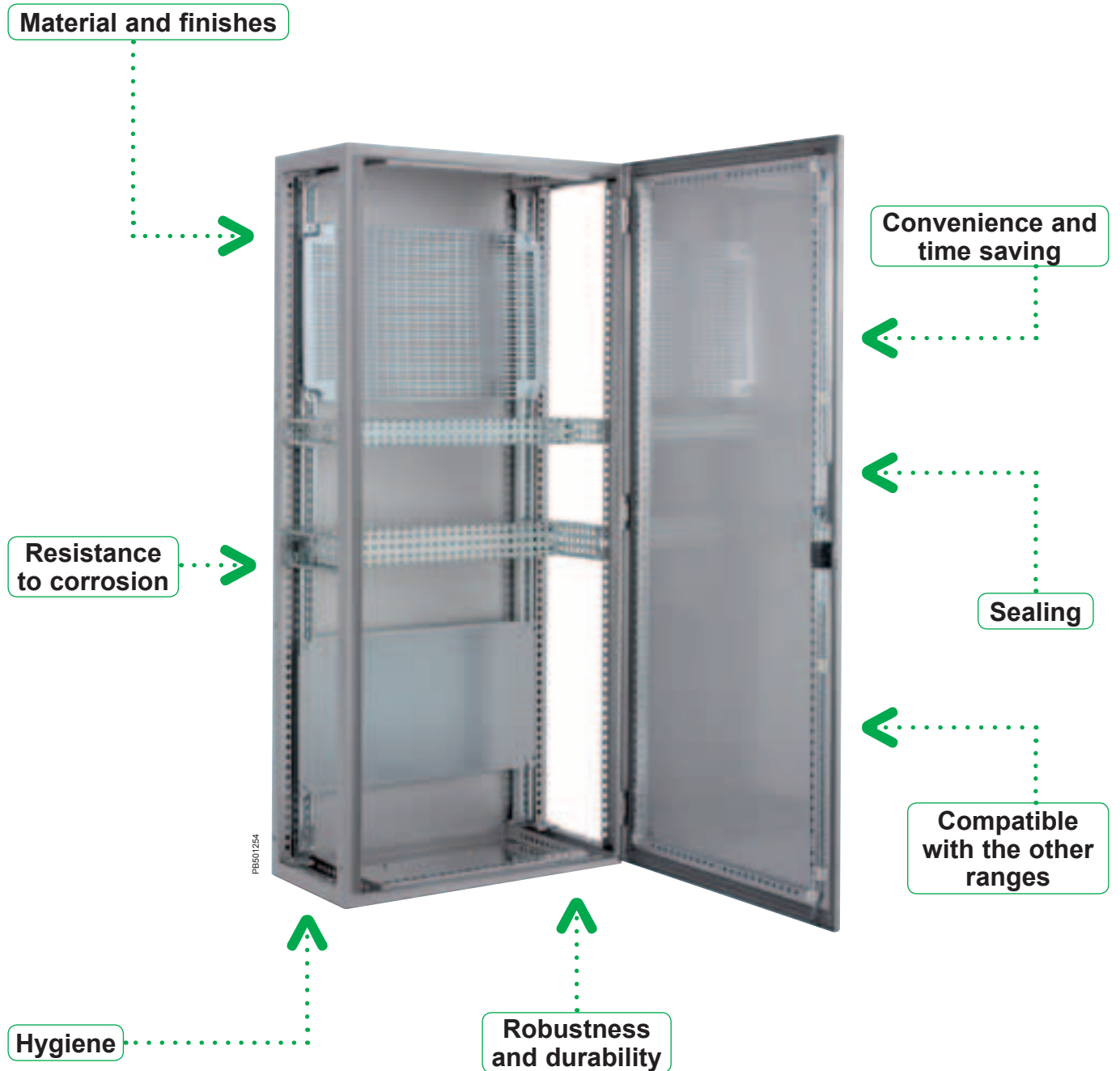


Brushed 316L stainless-steel plinth height 100 mm		Brushed 316L stainless-steel plinth height 200 mm	
Kit (4 coins + front and back)	Set of 2 side panels	Kit (4 coins + front and back)	Set of 2 side panels
NSYSPXF10100H	NSYSPXS3100H	NSYSPXF10200H	2 x NSYSPXS3100H
NSYSPXF8100H	NSYSPXS4100H	NSYSPXF8200H	2 x NSYSPXS4100H
NSYSPXF6100H	NSYSPXS4100H	NSYSPXF6200H	2 x NSYSPXS4100H
NSYSPXF8100H	NSYSPXS4100H	NSYSPXF8200H	2 x NSYSPXS4100H
NSYSPXF12100H	NSYSPXS4100H	NSYSPXF12200H	2 x NSYSPXS4100H
NSYSPXF16100H	NSYSPXS4100H	NSYSPXF16200H	2 x NSYSPXS4100H
NSYSPXF8100H	NSYSPXS5100H	NSYSPXF8200H	2 x NSYSPXS5100H
NSYSPXF10100H	NSYSPXS4100H	NSYSPXF10200H	2 x NSYSPXS4100H
NSYSPXF12100H	NSYSPXS5100H	NSYSPXF12200H	2 x NSYSPXS5100H
NSYSPXF16100H	NSYSPXS6100H	NSYSPXF16200H	2 x NSYSPXS6100H

Eyebolts	Plastic document pocket	Cable entries	Closure option	Multi-fixing lamp
				
NSYSMEB	NSYDPA44		NSYATP72MS	NSYLAMCS
Page 227	Page 483	Page 435	Page 227	Page 475

Plain mounting plate screw			
	Self-tapping screw		
	M6 x 16	NSYS16M6HS	100
	M5 x 13	NSYS13M5HS	100
	Self-tapping screw		
	M5 x 16	NSYS16M5HS	100

Stainless-steel suitable enclosures



Material and finishes:

Stainless-steel grade:
AISI 304L as standard.
AISI 316L (on request).

Finishes:
Scotch-Brite® brushed (standard).
Micro-beaded (on request).
Painted (on request).

Resistance to corrosion:

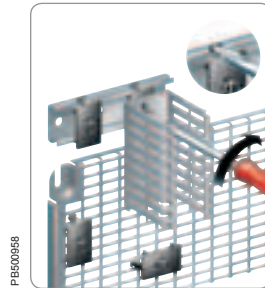
High resistance to corrosion. 304L and 316L stainless steels provide the best solutions for applications in extremely demanding environments.



PE501232

Convenience and time saving:

Complete range of accessories for installation, cable management, etc.
304L or 316L stainless-steel plinth: easy cable entry.
Reversible door opening to 120°.
Padlock lock with key or form insert.
Adjustment rails perforated with a pitch of 25 mm.
Perforated reinforcement frame allowing accessories to be mounted on the door.



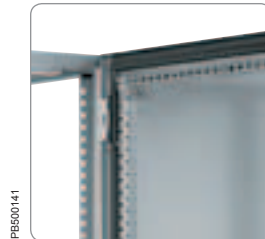
PE500968

Sealing:

Protection rating of IP 55 (IEC 60529): complete protection against dust and water sprays.
3-point closures.
Canopy (optional):

- protects the sealing plane of the door,
- guarantees correct water drainage,
- no stagnation on the top.

 Single-piece cable-gland plate with polyurethane gasket.



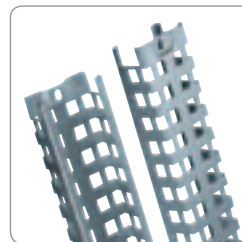
PE500141

Compatible with the other ranges:

The mounting plates and other accessories of the Spacial SF standard metal offer.



PE501255



PE501256

Hygiene:

The high quality of the standard finish enables very easy maintenance while avoiding contamination.
The hygienic feet made from 316L stainless steel, 100 mm and 200 mm high, make it easier to clean under the enclosures.



PE501228

Robustness and durability:

Resistance to external mechanical impacts:
IK 10 according to IEC 62262.
3 hinges made entirely from stainless steel.
Door reinforcement frame.



PE501241

Stainless-steel suitable enclosures

Introduction



PB500141

Technical characteristics

These enclosures have been specially designed for the chemical, oil and food and beverage industries, among others, which are particularly demanding in terms of hygiene and resistance to corrosion.

- Enclosure made up of a structure, consisting of top and bottom, rear panel and vertical profiles.
- Made from AISI 304L stainless steel with Scotch-Brite® brushed finish.
- Available on request:
 - 316L version.
 - Micro-beaded and painted finish.
- Protection rating of IP55 according to standard IEC 60529.
- High resistance to mechanical impacts: IK 10 according to standard IEC 62262.
- Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure.
- Plain front door. Opening to left or right to 120° with reinforcement frame installed.
 - 3 stainless-steel hinges.
 - 3-point closure with handle made from painted zamak, 5-mm double bar.
 - Acceptable load of 50 kg.
- Single-piece cable-gland plate delivered.
- Optional 316L stainless-steel plinths, heights of 100 and 200 mm.
- Optional stainless-steel canopies.
- Optional eyebolt.
- Maximum load: 830 kg when slinging at 60°.

Basic composition

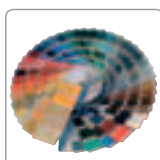
- Structure consisting of top and bottom, rear panel and vertical profiles.
- Single front door, with reinforcement frame.
- Sash-bolt handle made from painted zamak, 3 mm double bar.
- 4 mounting plate-supporting brackets.
- Single-piece cable-gland plate with sealing gasket.

Note: the panels and plinths can be installed and the enclosures can be assembled (on request).

Customised service: All standard dimensions from our catalogue on request and more...



Specific



PB501688

Paints



PB500359

Holes & Cutouts



PB501680

Mounting



PB501691

Construction changes



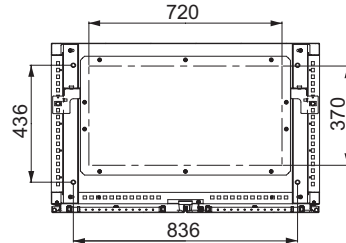
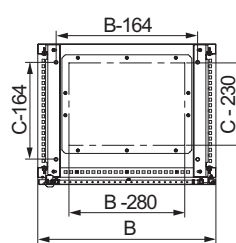
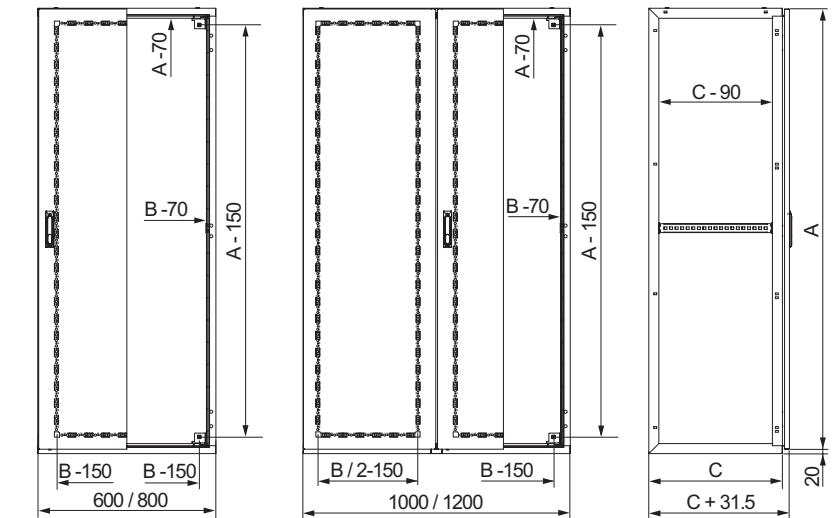
PB501692

Accessories

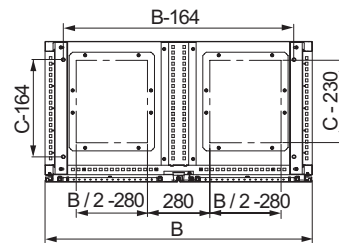
Stainless-steel suitable enclosures

Dimensions

External dimensions (mm)			Number of front doors
Height (A)	Width (B)	Depth (C)	
1800	600	400	1
1800	800	400	1
1800	1200	400	2
2000	600	500	1
2000	800	400	1
2000	800	600	1
2000	1000	600	2
2000	1200	600	2



Enclosure width 1000 mm.

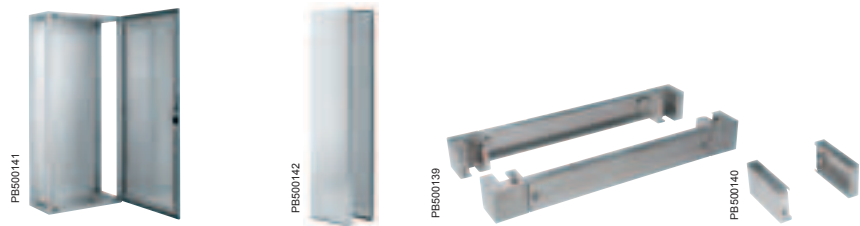


Enclosure width 1200 mm.

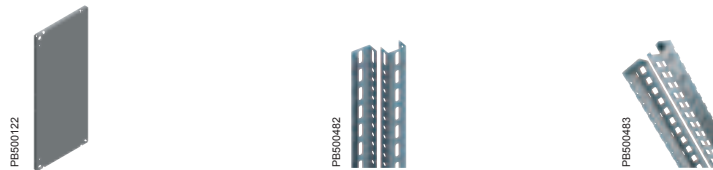
DB300588EN

Stainless-steel suitable enclosures

Selection guide



External dimensions (mm)			Number of front doors	References in 304L stainless steel		Brushed 316L stainless-steel plinth height 100 mm	
Height (A)	Width (B)	Depth (C)		Suitable enclosure	Side panels	Kit (4 coins + front and back)	Set of 2 side panels
1800	600	400	1	NSYSFX18640	NSY2SPX184	NSYSPXF6100H	NSYSPXS4100H
1800	800	400	1	NSYSFX18840	NSY2SPX184	NSYSPXF8100H	NSYSPXS4100H
1800	1200	400	2	NSYSFX181240	NSY2SPX184	NSYSPXF12100H	NSYSPXS4100H
2000	600	500	1	NSYSFX20650	NSY2SPX205	NSYSPXF6100H	NSYSPXS5100H
2000	800	400	1	NSYSFX20840	NSY2SPX204	NSYSPXF8100H	NSYSPXS4100H
2000	800	600	1	NSYSFX20860	NSY2SPX206	NSYSPXF8100H	NSYSPXS6100H
2000	1000	600	2	NSYSFX201060	NSY2SPX206	NSYSPXF10100H	NSYSPXS6100H
2000	1200	600	2	NSYSFX201260	NSY2SPX206	NSYSPXF12100H	NSYSPXS6100H

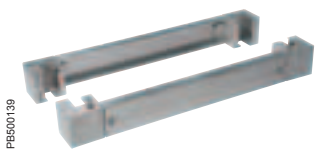


External dimensions (mm)			Plain mounting plate	Standard vertical uprights	Technical vertical uprights
Height (A)	Width (B)	Depth (C)			
1800	600	400	NSYMP186	NSYVR18	NSYVR18
1800	800	400	NSYMP188	NSYVR18	NSYVR18
1800	1200	400	NSYMP1812	NSYVR18	NSYVR18
2000	600	500	NSYMP206	NSYVR20	NSYVR20
2000	800	400	NSYMP208	NSYVR20	NSYVR20
2000	800	600	NSYMP208	NSYVR20	NSYVR20
2000	1000	600	NSYMP2010	NSYVR20	NSYVR20
2000	1200	600	NSYMP2012	NSYVR20	NSYVR20

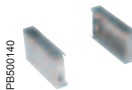
Multi-fixing lamp	Hygienic feet	Coupling kit for SFX	Closure option
<p>PB501706</p>	<p>PB500220</p>	<p>PB500143</p>	<p>PB501259 PB501200</p>
<p>NSYLAMCS</p> <p>Page 475</p>	<p>100 mm: NSYPHX100 200 mm: NSYPHX200</p> <p>Page 228</p>	<p>NSYKNM6</p> <p>Page 226</p>	<p>NSYATP72MS</p> <p>Page 227</p>

Stainless-steel suitable enclosures

Selection guide



PB500139

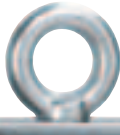
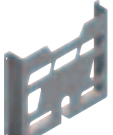

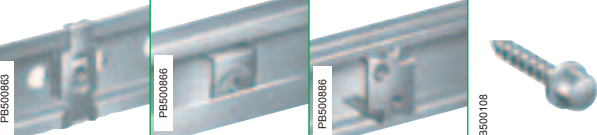


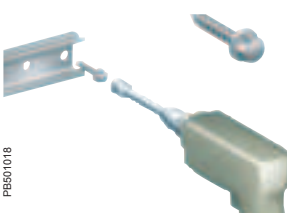


PB500140



PB501239

Brushed 316L stainless-steel plinth height 200 mm		Brushed 316L stainless-steel canopy
Kit (4 coins + front and back)	Set of 2 side panels	
NSYSPXF6200H	2 x NSYSPXS4100H	NSYSCX6040
NSYSPXF8200H	2 x NSYSPXS4100H	NSYSCX8040
NSYSPXF12200H	2 x NSYSPXS4100H	NSYSCX12040
NSYSPXF6200H	2 x NSYSPXS5100H	NSYSCX6050
NSYSPXF8200H	2 x NSYSPXS4100H	NSYSCX8040
NSYSPXF8200H	2 x NSYSPXS6100H	NSYSCX8060
NSYSPXF10200H	2 x NSYSPXS6100H	NSYSCX10060
NSYSPXF12200H	2 x NSYSPXS6100H	NSYSCX12060

Eyebolts	Plastic document pocket	Cable entries	Nuts and screws for rails
			
NSYSMEB	NSYDPA44		
Page 227	Page 483	Page 435	Page 391

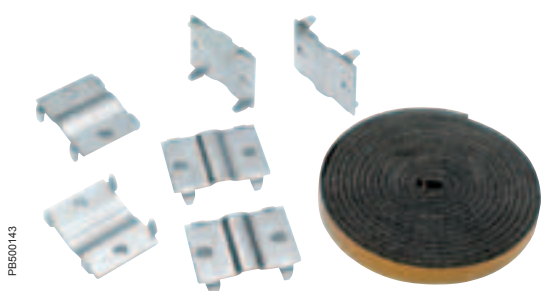
Plain mounting plate screw			
	Self-tapping screw		
	M6 x 16	NSYS16M6HS	100
	M5 x 13	NSYS13M5HS	100
	Self-tapping screw		
	M5 x 16	NSYS16M5HS	100



Side panels for stainless-steel suitable enclosure for SFX

- Side panels including a polyurethane sealing gasket.
- Their special design guarantees the protection of the door gasket.

For suitable enclosure (mm)		Reference
Height	Depth	
1800	400	NSY2SPX184
2000	400	NSY2SPX204
2000	500	NSY2SPX205
2000	600	NSY2SPX206



Coupling kit for SFX

- Used for joining enclosures side by side.
- Fixing from the inside of the enclosures.
- Degree of protection: IP55.
- Material:
 - Flat connectors and brackets: zinc-coated steel.
 - Sealing gasket: EPDM.

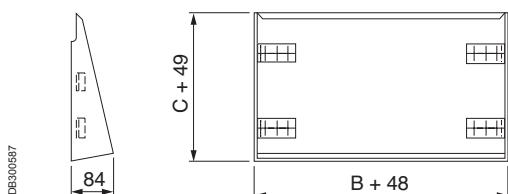
Reference
NSYSFBK19



Top-mounting accessories Canopy for SMX and SFX

- Guarantees very high protection of the enclosure when used outdoors.
- It is fixed in the same holes as the eyebolt. Delivered with fixings.
- Material: 304L stainless-steel sheet, 1.5 mm thick, Scotch-Brite® brushed finish.
- Other finishes or other types of stainless steel: contact us.

For enclosures with dimensions (mm)		Reference
Width (B)	Depth (C)	
600	400	NSYSCX6040
600	500	NSYSCX6050
800	400	NSYSCX8040
800	500	NSYSCX8050
800	600	NSYSCX8060
1000	300	NSYSCX10030
1000	400	NSYSCX10040
1000	600	NSYSCX10060
1200	400	NSYSCX12040
1200	500	NSYSCX12050
1200	600	NSYSCX12060
1600	400	NSYSCX16040
1600	600	NSYSCX16060



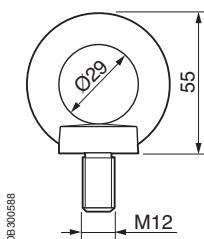


PB501257

Eyebolts

- Set of four M12 eyebolts.
- Material: treated moulded steel.
- It is fixed using fixing nuts supplied with the enclosure.
- Maximum load: 830 kg when slinging at 60°.

Reference
NSYSMEB



DB3300588

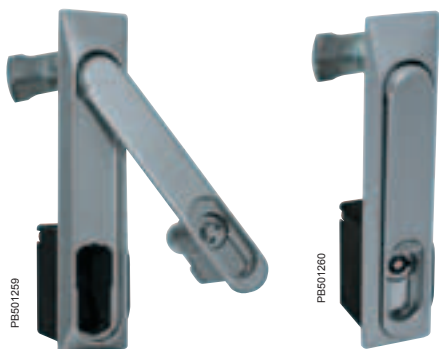


PB501262

Lifting bracket for stainless-steel suitable enclosure for SFX

- Set of four lifting brackets.
- Material: treated steel.
- They are fixed instead of the eyebolts on two suitable enclosures side-by-side, guaranteeing the rigidity of the enclosure when lifted.
- Maximum load: 2000 kg when slinging at 60°.

Reference
NSYPUNX



PB501259

PB501260

Closure option

- The enclosures are delivered as standard with handle made from painted zamak, 5 mm double bar (1242E, 405E, 455E, 6.5 mm triangle available).
- Large range of standard inserts available.

Description	Pack.	Reference
Spare handle	1	NSYMCSX
5 mm double-bar insert	1	NSYTDB5ME
6 mm square insert	1	NSYTC6ME
7 mm square insert	1	NSYTC7ME
8 mm square insert	1	NSYTC8ME
6.5 mm triangular insert	1	NSYTT6ME
8 mm triangular insert	1	NSYTT8ME
Padlocking device	1	NSYBCME

Stainless-steel composition accessories

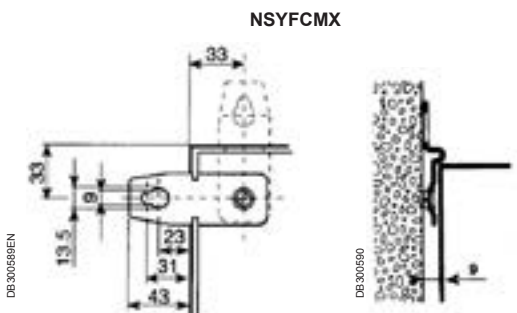


PB501242

Wall-fixing lugs for SMX

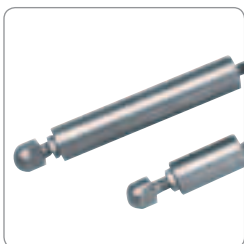
- Set of four 304 stainless-steel wall-fixing lugs.
- Mounting of the wall-fixing lugs in horizontal or vertical position.
- Fixing from the outside.
- Maximum load: horizontal 180 kg and vertical 350 kg.

Reference
NSYFCMX



DB:300589EN

DB:300590



PB500220

Hygienic feet

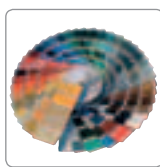
- Set of 4 adjustable feet.
- Made from 316L stainless steel, making it easier to clean under the enclosure.
- Recommended for applications that require special hygiene conditions.
- Available in heights of 100 or 200 mm.
- Maximum admissible load per foot: 100 kg.

Height (mm)	Reference
100	NSYPHX100
200	NSYPHX200

Customised service: All standard dimensions from our catalogue on request and more...



Configured



PB501688

Paints



PB500359

Holes & Cutouts



PB501680

Mounting



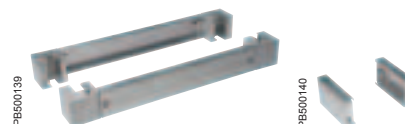
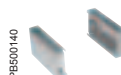
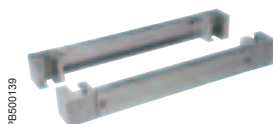
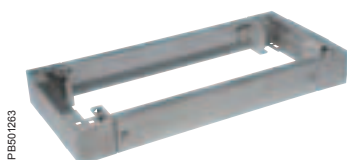
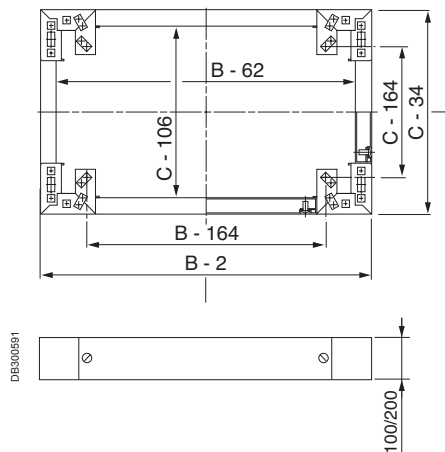
PB501692

Accessories

Stainless-steel composition accessories

Stainless-steel plinths

- Mounting in the holes for fixing the enclosures to the floor.
- Made from high quality stainless steel, AISI 316L Scotch-Brite® brushing, to guarantee the durability in application where the contact with the floor increase the risk of corrosion.
- Available in two heights: 100 and 200 mm.



External dimensions (mm)		Brushed 316L stainless-steel plinth height 100 mm		Brushed 316L stainless-steel plinth height 200 mm	
Width (B)	Depth (C)	Front + corner	Side	Front + corner	Side
600	400	NSYSPXF6100H	NSYSPXS4100H	NSYSPXF6200H	2 x NSYSPXS4100H
600	500	NSYSPXF6100H	NSYSPXS5100H	NSYSPXF6200H	2 x NSYSPXS5100H
600	600	NSYSPXF6100H	NSYSPXS6100H	NSYSPXF6200H	2 x NSYSPXS6100H
600	800	NSYSPXF6100H	NSYSPXS8100H	NSYSPXF6200H	2 x NSYSPXS8100H
800	400	NSYSPXF8100H	NSYSPXS4100H	NSYSPXF8200H	2 x NSYSPXS4100H
800	500	NSYSPXF8100H	NSYSPXS5100H	NSYSPXF8200H	2 x NSYSPXS5100H
800	600	NSYSPXF8100H	NSYSPXS6100H	NSYSPXF8200H	2 x NSYSPXS6100H
1000	300	NSYSPXF10100H	NSYSPXS3100H	NSYSPXF10200H	2 x NSYSPXS3100H
1000	400	NSYSPXF10100H	NSYSPXS4100H	NSYSPXF10200H	2 x NSYSPXS4100H
1000	500	NSYSPXF10100H	NSYSPXS5100H	NSYSPXF10200H	2 x NSYSPXS5100H
1000	600	NSYSPXF10100H	NSYSPXS6100H	NSYSPXF10200H	2 x NSYSPXS6100H
1200	400	NSYSPXF12100H	NSYSPXS4100H	NSYSPXF12200H	2 x NSYSPXS4100H
1200	500	NSYSPXF12100H	NSYSPXS5100H	NSYSPXF12200H	2 x NSYSPXS5100H
1200	600	NSYSPXF12100H	NSYSPXS6100H	NSYSPXF12200H	2 x NSYSPXS6100H
1600	400	NSYSPXF16100H	NSYSPXS4100H	NSYSPXF16200H	2 x NSYSPXS4100H
1600	600	NSYSPXF16100H	NSYSPXS6100H	NSYSPXF16200H	2 x NSYSPXS6100H

Insulating boxes

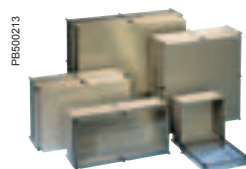


Thalassa TBS - TBP Insulating industrial boxes 232

Selection guide	234
Selection table	235

Thalassa TBS - TBP Thermoplastic industrial boxes 236

Introduction	236
Certification	237
Dimensions	239
Selection guide	245
Accessories	247

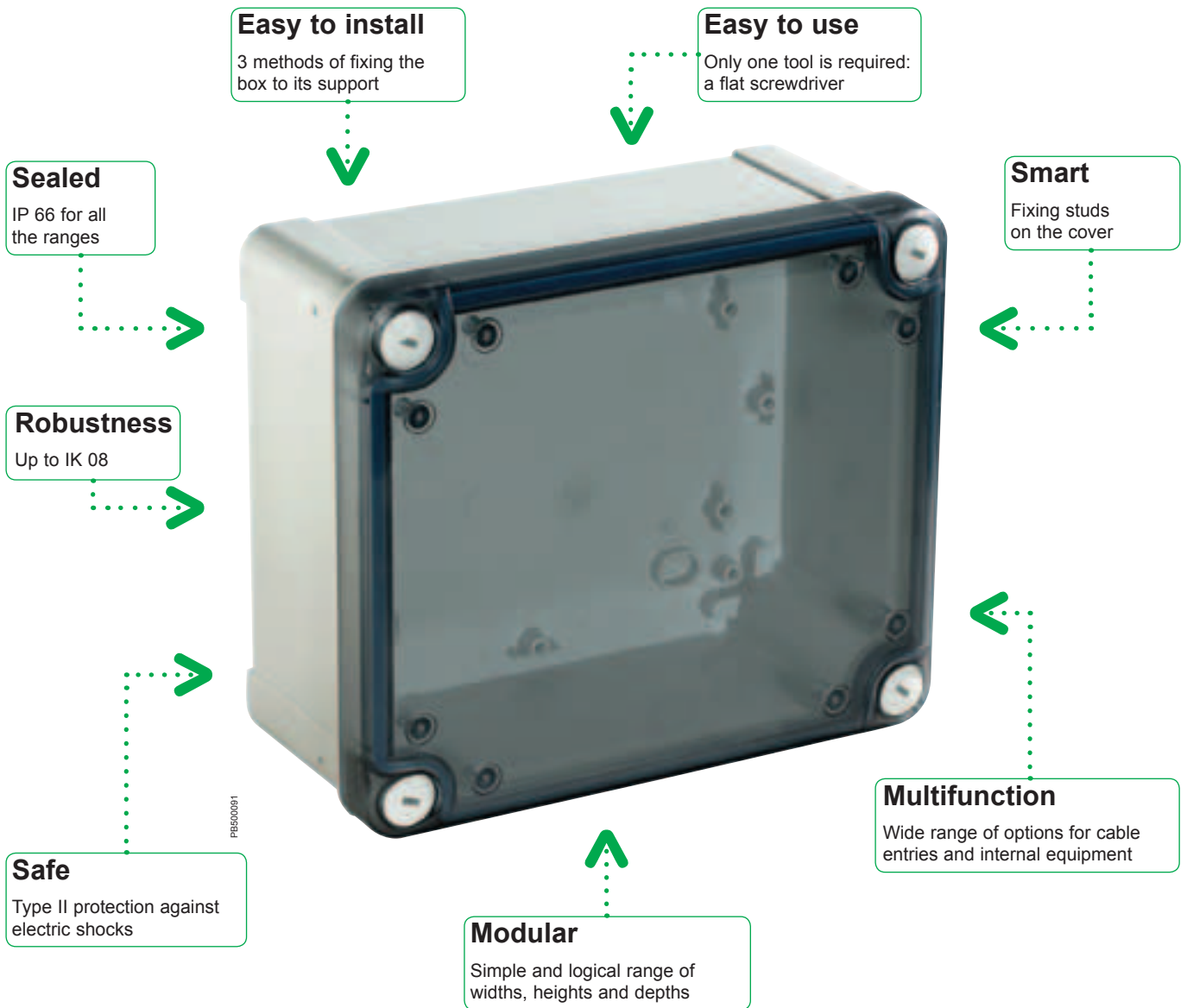


Thalassa PLS Insulating modular boxes 258

Introduction	259
Selection guide	260
Dimensions	261
Accessories	262
Modular distribution application	266



Your industrial boxes IP 66, IK 07 and IK 08, ideal in any conditions!



Customisation service

Complementing our standard solutions, Thalassa industrial boxes can be adapted and transformed to your specific needs:

- For easy and direct use in your industrial process.
- To reduce your production times and reduce logistics constraints.
- To blend in with the aesthetics and ergonomics of your equipment.
- To have the guarantee of quality customisation.

Customisation offer

- Accessory installation.
- Machining: cut-outs, drill holes.
- Marking.
- Colours.
- Packaging alternatives.



Specific

Adaptability

Good flame resistance:
ABS: 650 °C.
PC (UL): 960 °C, UL94V0.

Equipment

The various installation studs all have the same diameter. Only one type of screw is used to fix all the accessories: batch of 100 self-tapping screws, ref. **NSYAMFSTB**.

Well designed

Fixing studs in the cover for accommodating equipment.
Corners for centring the cover on the body.

Aesthetics

Rounded design intended to maximise robustness and sealing.

Choice

- 22 models from 74 x 74 x 54 to 341 x 291 x 168 mm in ABS or polycarbonate (PC) with low or high, opaque or transparent covers.
- Multiple installation accessories.

Installation

Various options for fixing the box, outside the sealed volume, through the rear of the box or using external lugs.

Modularity

Logical and simple range of width, height and depth dimensions, with the particularity of allowing the boxes to be coupled.

Safety

Protection against electric shocks: class II.

Performance

- Sealing:
 - IP 66 guaranteed by a polyurethane seal.
 - NEMA 4.4X (NEMA 250).
- Mechanical strength:
 - ABS: IK 07 (2J).
 - Polycarbonate: IK 08 (5J).

Light and resistant

Boxes weighing only some dozens of grams can withstand impacts of several kilograms.

Practical

Cardboard packaging reusable once the box is equipped.

Standards

IEC 62208 Certified TÜV (report available on our websites).

Environment


Respect for eco-design rules (Product environmental profile).
Halogen-free plastic materials.


Approval

SEMKO, DEMKO, TÜV and UL.

Insulating industrial boxes

Selection guide

 PB500080	 PB500239	 PB500240
ABS Page 238	Polycarbonate Page 238	Polyester Page 258

Criteria	Materials	ABS	Polycarbonate	Polyester loaded with fibreglass
Outdoor use		• (1)	•	•
Aggressive environment		•	•	• (2)
Protection rating		IP 66 IK 07	IP 66 IK 08	IP 65 IK 10
Fire resistance: glow wire IEC 60695-2-11.		650 °C	960 °C	960 °C
External dimensions (mm)	 DB300032	H 74 to 341 W 74 to 291 D 54 to 168	H 74 to 341 W 74 to 291 D 54 to 168	H 180 to 540 W 270 to 720 D 180 to 230
Universal application		•	•	•
Coupling boxes		• (3)	• (3)	•

(1) ABS boxes can be installed in outdoor if they are protected from the solar radiation and the effects of UV.

(2) See Thalassa PLS section.

(3) See accessories on pages 246 to 255.



Specific



PB500241

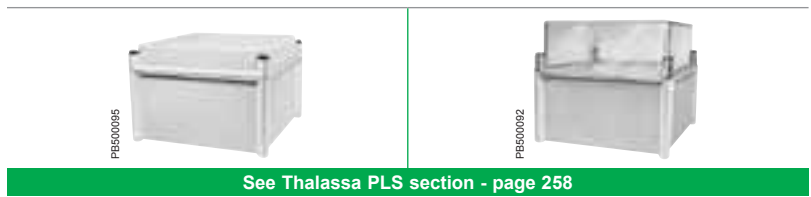
For our customized offer,
please contact us.

Universal, electronic and junction applications

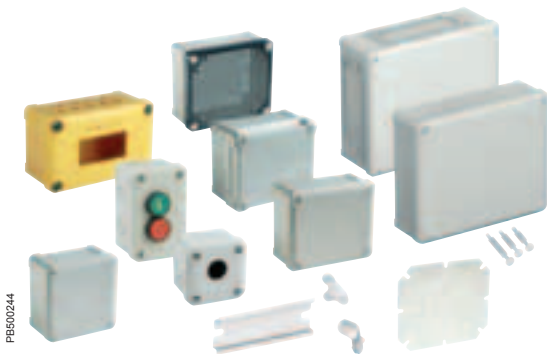


Dimensions (mm)								ABS boxes IP 66-IK 07	PC UL boxes IP 66-IK 08	Boxes with buttons
External			Internal							
Height	Width	Depth	Height	Width	Depth	Body	Lid			
74	74	54	65	65	47	37	10	•	•	•
89	89	54	80	80	47	37	10	•	•	
116	74	62	105	65	55	45	10	•	•	•
116	74	94	105	65	85	45	40	•		
116	116	62	105	105	55	45	10	•	•	
116	116	133	105	105	125	45	80	•		
138	93	72	125	80	65	45	20	•	•	
164	121	87	150	105	80	60	20	•	•	
192	121	87	175	105	80	60	20	•	•	
192	121	105	175	105	100	60	40	•	•	
192	164	87	175	150	80	60	20	•	•	
192	164	105	175	150	100	60	40	•	•	
241	194	87	225	175	80	60	20	•	•	
241	194	107	225	175	100	60	40	•	•	
241	194	107	225	175	100	80	20	•	•	
241	194	127	225	175	120	80	40	•	•	
291	241	88	275	225	80	60	20	•	•	
291	241	128	275	225	120	60	60	•	•	
291	241	128	275	225	120	100	20	•	•	
291	241	168	275	225	160	100	60	•	•	
341	291	128	325	275	120	100	20	•	•	
341	291	168	325	275	160	100	60	•	•	

Power distribution and infrastructures



External dimensions (mm)			PLS boxes IP 65 - IK 10	
Height	Width	Depth	Opaque covers	Transparent covers
180	270	180	•	•
270	270	180	•	•
270	270	230	•	•
270	360	180	•	•
270	360	230	•	•
270	540	180	•	•
270	540	230	•	•
380	360	180	•	•
380	540	180	•	•
380	540	230	•	•
380	720	230	•	•
540	540	180	•	•
540	540	230	•	•
540	720	230	•	•



PBE00244

General features

- Large range of dimensions (H, W, D).
- High or low, opaque or transparent cover.
- Boxes that can be coupled (exactly the same dimensions) with kit ref. **13934AB**.
- Locks from box size of 116 x 116 x 62 mm:
 - Cover locking by 4 plastic captive screws with coarse thread outside the sealed area.
 - Plumbable lock.
- Locks from box size of 138 x 93 x 72 mm:
 - The standard screws (flat screwdriver) can be replaced with other standardised screws (page **252**).
- The 4 “legs” of the cover ensure its robustness and perfect support during customisation operations.
- Adaptable hinges on all the 20- and 40-mm covers (page **251**).

Materials

- ABS boxes:
 - IK 07 (2J) according to IEC 62262.
 - Glow wire resistance: 650 °C according to IEC 60695-2-11.
 - Usage temperature: –25 °C...+60 °C.
 - Installation temperature: –15 °C...+40 °C.
- Polycarbonate boxes:
 - IK 08 (5J) according to IEC 62262.
 - Glow wire resistance: 960 °C.
 - Usage temperature: –25 °C...+80 °C.
 - Installation temperature: –15 °C...+60 °C.
 - Certified according to UL 508A.
- Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure.

Fixing the box

- Outside the sealed sensitive volume by the 4 chimneys in the corners from box size of 138 x 93 x 72 mm.
- Through the rear of the box by 2 or 4 elongated holes to be perforated.
- With fixing lugs from box size of 116 x 116 x 62 mm (ref. **NSYAEFTB**).

Equipment installation

- Studs for fixing the equipment in the body and the cover of the box by means of a Ø 4-mm self-tapping screw (ref. **NSYAMFSTB**, screw Ø 4 x 10 mm with Pozidriv and slotted head).
- Option of installing rails, plates (page **254**) or other types of supports (card, etc.).
- Spacers and stand-offs to be installed on the studs, for adjusting the height of the equipment.

Technical features

- IP 66 according to IEC 60529.
- NEMA 4.4X according to Nema 250.
- Class II according to IEC 61140.
- Colour:
 - Body: RAL 7035 grey.
 - Cover: RAL 7035 grey or tinted transparent.
- Insulating, halogen-free plastic materials.
- Resistance to chemical and atmospheric agents: see technical appendices.

Thermal dissipation

- Use a suitable calculation method according to IEC 60890.
- Anti-condensation valves available as an accessory, prevent the build-up of moisture inside the box.

Certifications

- IEC 62208 certified by TÜV.
- SEMKO, DEMKO.
- UL: polycarbonate range.
- Product Environmental Profile.

Choose the material according to the environment

- ABS for conventional applications (IK 07) with the usual constraints.
- Polycarbonate for enhanced impact resistance and for outdoor applications or applications directly exposed to UV.
- Polycarbonate certified UL.

Materials	ABS	Polycarbonate
IP	66	66
IK	07	08
Glow wire resistance	650 °C	960 °C
Standard	IEC 62208	UL 508A / IEC 62208
Usage temperature (°C)	- 25 ... + 60 °C	- 25 ... + 80 °C
UV	+	+++
Chemical	+	+++
Halogen	None	Very low
Self-extinguishing	-	UL 94 V0

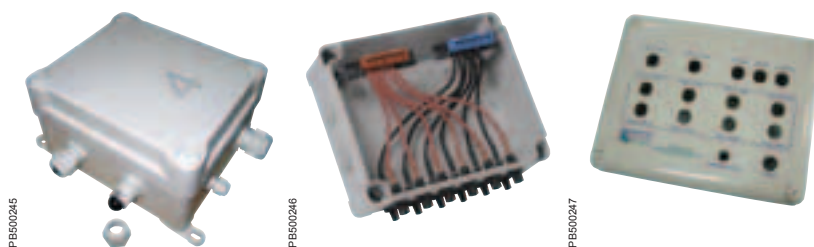


Specific

Customisation:

The boxes can be customised on request.

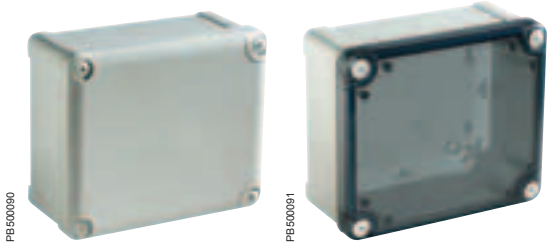
Choose the material according to the environment.



PB500245

PB500246

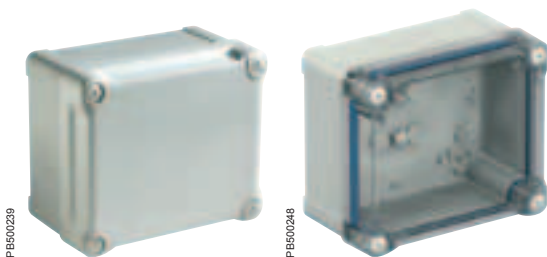
PB500247



ABS or polycarbonate boxes with low cover

- IP 66 - NEMA 4.4X.
- IK 07 (ABS) - IK 08 (PC).
- RAL 7035 grey.
- Boxes 54 to 128 mm deep with 10- to 20-mm covers.
- Opaque or transparent cover.
- Hinges: as accessories and only for the 20-mm covers.

Overall external dimensions (mm)			Overall internal dimensions (mm)			Body (mm)	Cover (mm)	Minor pack.	Cover screw	ABS boxes IP 66 - IK 07		PC-UL boxes IP 66 - IK 08	
Height	Width	Depth	Height	Width	Depth					Cover		Cover	
						Opaque	Transparent	Opaque	Transparent				
74	74	54	65	65	47	37	10	5	Metal	NSYTBS775	-	NSYTBP775	-
89	89	54	80	80	47	37	10	5	Metal	NSYTBS885	-	NSYTBP885	-
116	74	62	105	65	55	45	10	5	Metal	NSYTBS1176	-	NSYTBP1176	-
116	116	62	105	105	55	45	10	5	Plastic	NSYTBS11116	-	NSYTBP11116	-
138	93	72	125	80	65	45	20	2	Plastic	NSYTBS1397	NSYTBS1397T	NSYTBP1397	NSYTBP1397T
164	121	87	150	105	80	60	20	2	Plastic	NSYTBS16128	NSYTBS16128T	NSYTBP16128	NSYTBP16128T
192	121	87	175	105	80	60	20	2	Plastic	NSYTBS19128	NSYTBS19128T	NSYTBP19128	NSYTBP19128T
192	164	87	175	150	80	60	20	1	Plastic	NSYTBS19168	NSYTBS19168T	NSYTBP19168	NSYTBP19168T
241	194	87	225	175	80	60	20	1	Plastic	NSYTBS24198	NSYTBS24198T	NSYTBP24198	NSYTBP24198T
241	194	107	225	175	100	80	20	1	Plastic	NSYTBS241910	NSYTBS241910T	NSYTBP241910	NSYTBP241910T
291	241	88	275	225	80	60	20	1	Plastic	NSYTBS29248	NSYTBS29248T	NSYTBP29248	NSYTBP29248T
291	241	128	275	225	120	100	20	1	Plastic	NSYTBS292412	NSYTBS292412T	NSYTBP292412	NSYTBP292412T
341	291	128	325	275	120	100	20	1	Plastic	NSYTBS342912	NSYTBS342912T	NSYTBP342912	NSYTBP342912T

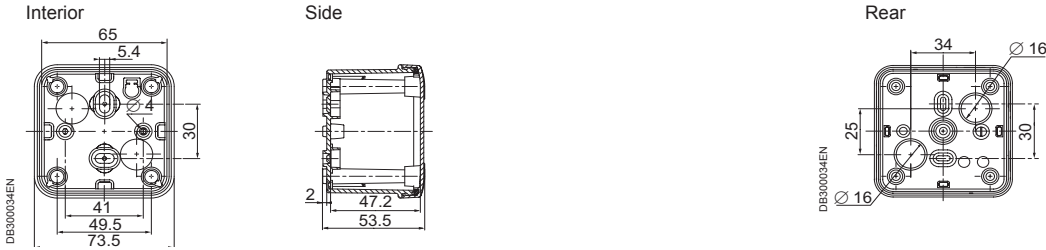


ABS or polycarbonate boxes with high cover

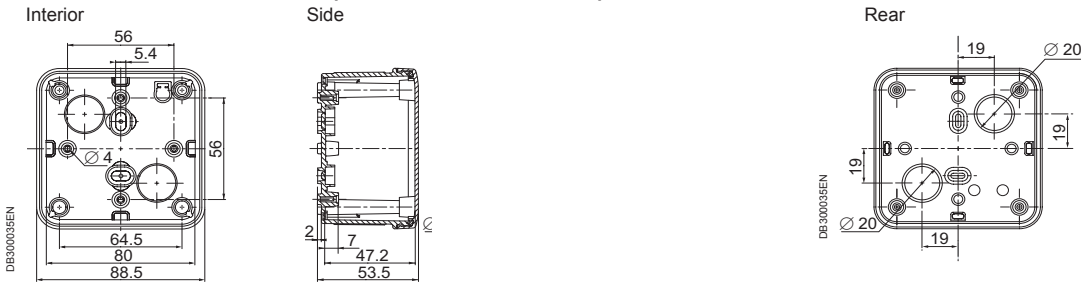
- IP 66 - NEMA 4.4X.
- IK 07 (ABS) - IK 08 (PC).
- RAL 7035 grey.
- Boxes 94 to 168 mm deep with 40- to 80-mm covers.
- Opaque or transparent cover.
- Hinges: as accessories and only for the 40-mm covers.

Overall external dimensions (mm)			Overall internal dimensions (mm)			Body (mm)	Cover (mm)	Minor pack.	Cover screw	ABS boxes IP 66 - IK 07		PC-UL boxes IP 66 - IK 08	
Height	Width	Depth	Height	Width	Depth					Cover		Cover	
						Opaque	Transparent	Opaque	Transparent				
116	74	94	105	65	85	45	40	3	Metal	NSYTBS1179H	-	-	-
116	116	133	105	105	125	45	80	2	Plastic	NSYTBS111113H	-	-	-
192	121	105	175	105	100	60	40	2	Plastic	NSYTBS191210H	NSYTBS191210HT	NSYTBP191210H	NSYTBP191210HT
192	164	105	175	150	100	60	40	1	Plastic	NSYTBS191610H	NSYTBS191610HT	NSYTBP191610H	NSYTBP191610HT
241	194	107	225	175	100	60	40	1	Plastic	NSYTBS241910H	NSYTBS241910HT	NSYTBP241910H	NSYTBP241910HT
241	194	127	225	175	120	80	40	1	Plastic	NSYTBS241912H	NSYTBS241912HT	NSYTBP241912H	NSYTBP241912HT
291	241	128	275	225	120	60	60	1	Plastic	NSYTBS292412H	NSYTBS292412HT	NSYTBP292412H	NSYTBP292412HT
291	241	168	275	225	160	100	60	1	Plastic	NSYTBS292416H	NSYTBS292416HT	NSYTBP292416H	NSYTBP292416HT
341	291	168	325	275	160	100	60	1	Plastic	NSYTBS342916H	NSYTBS342916HT	NSYTBP342916H	NSYTBP342916HT

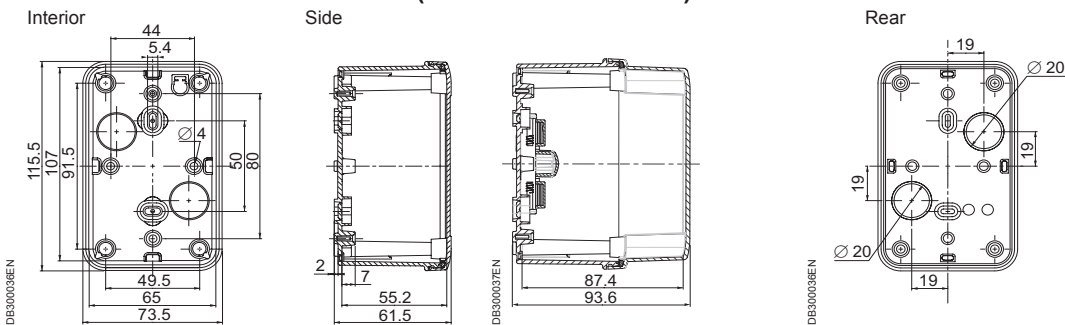
Box of 74 x 74 x 54 mm (external dimensions) NSYTB...775



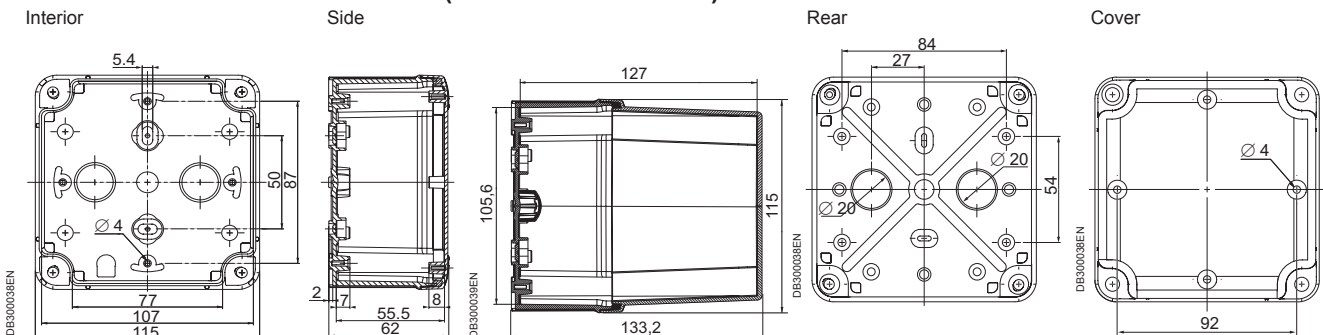
Box of 89 x 89 x 54 mm (external dimensions) NSYTB...885



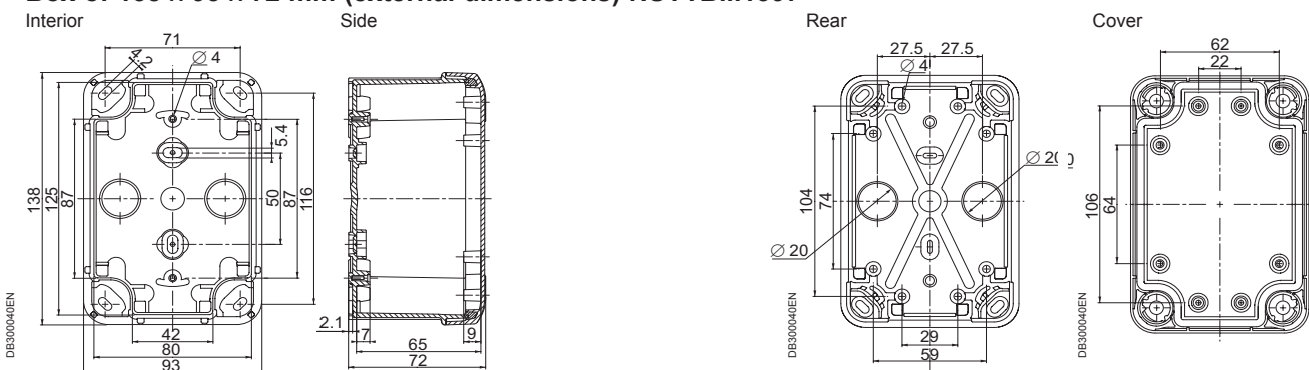
Box of 116 x 74 x 62 or 94 mm (external dimensions) NSYTB...1176 or NSYTB...1179



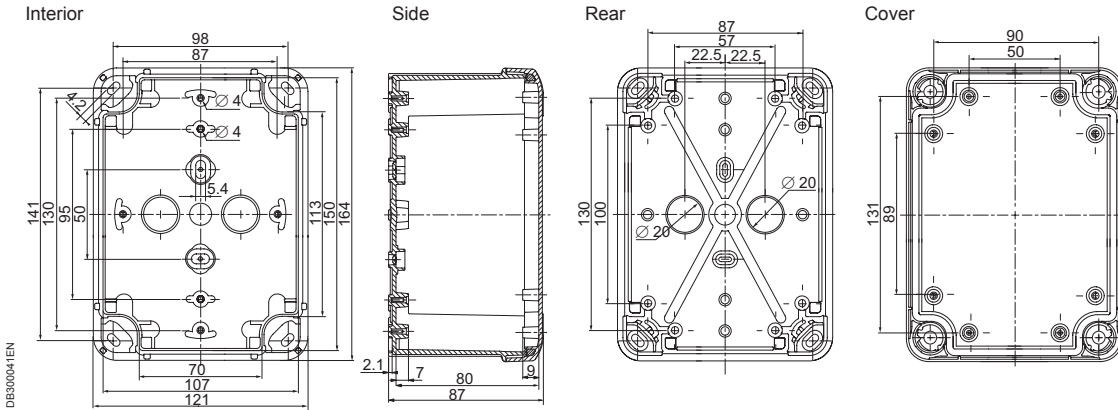
Box of 116 x 116 x 62 or 133 mm (external dimensions) NSYTB...11116 or NSYTB...11113



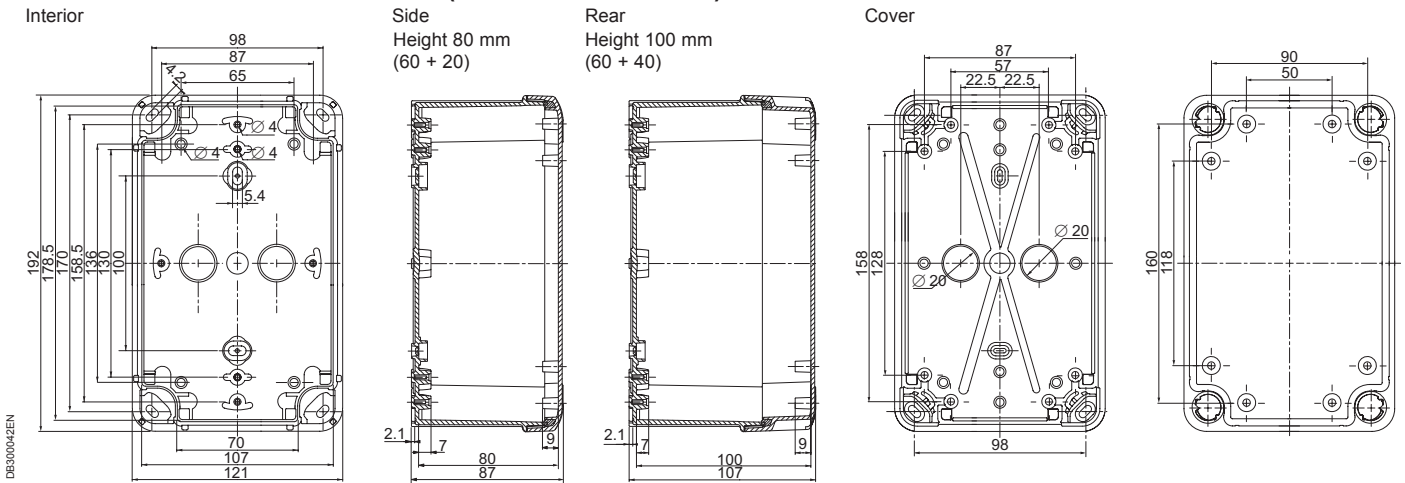
Box of 138 x 93 x 72 mm (external dimensions) NSYTB...1397



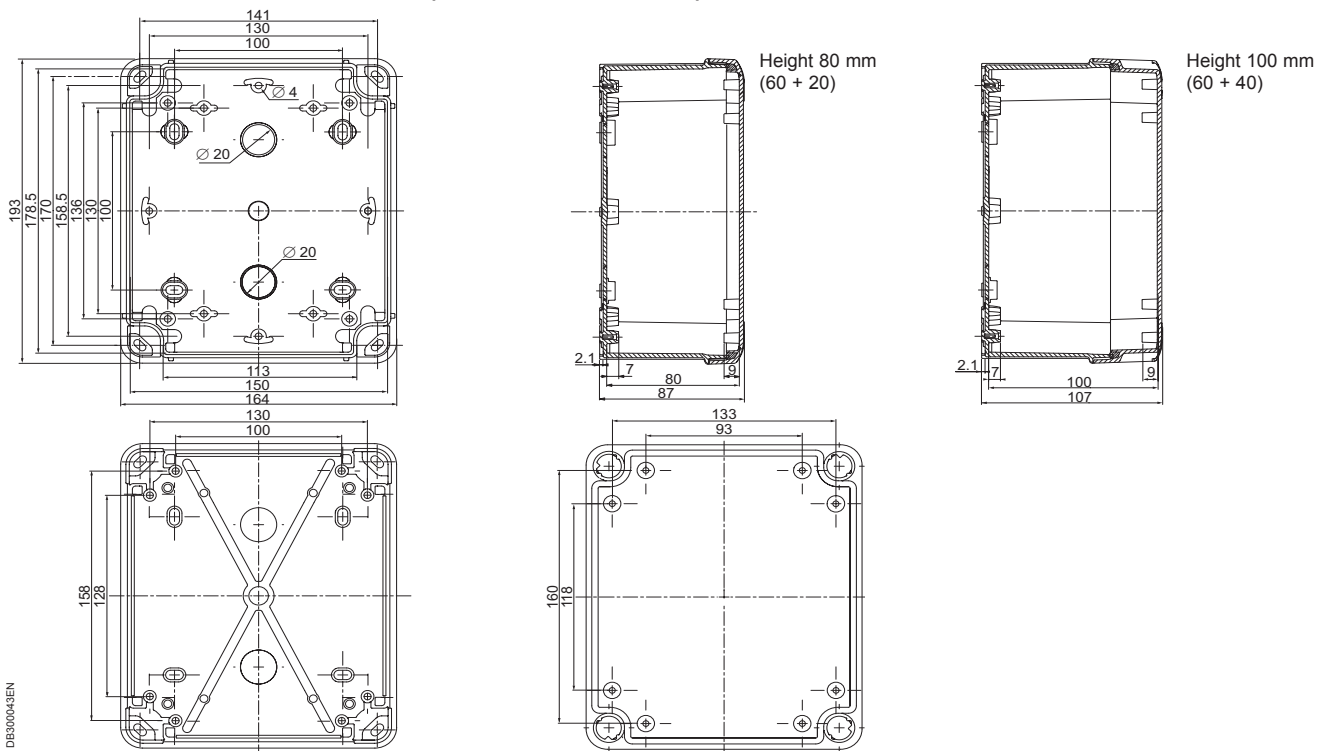
Box of 164 x 121 x 87 mm (external dimensions) NSYTB...16128



Box of 192 x 121 x 87 or 105 mm (external dimensions) NSYTB...19128 or NSYTB...191210



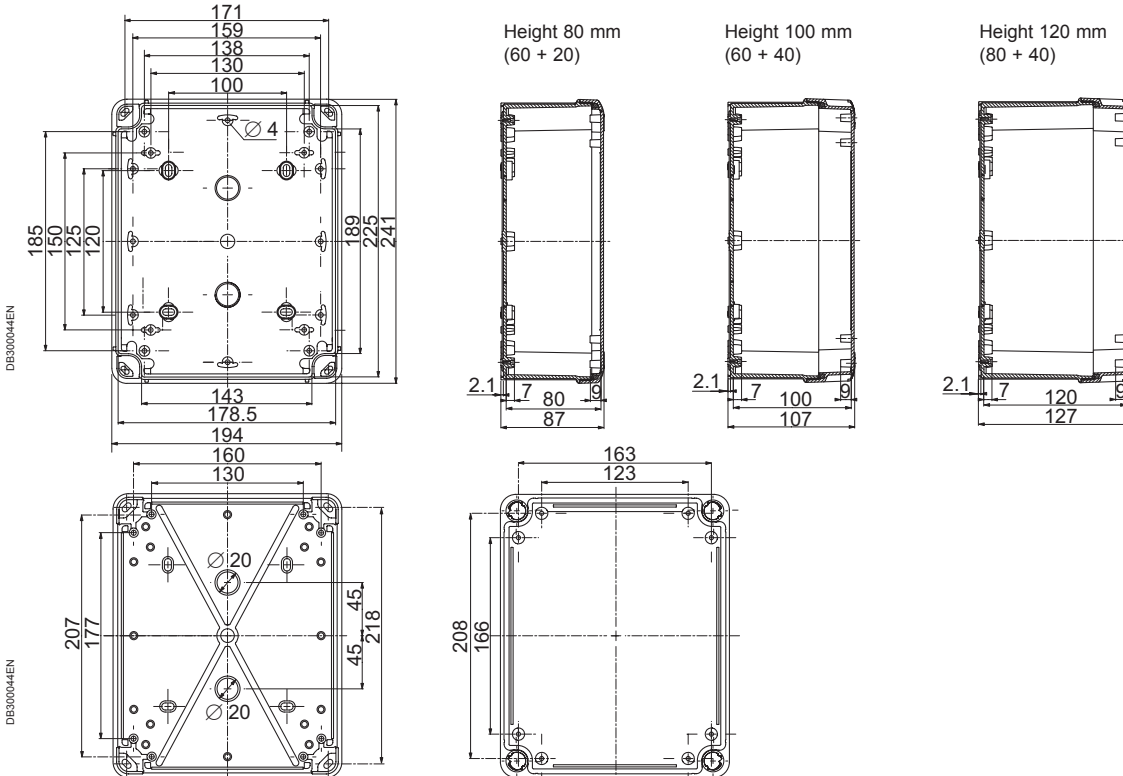
Box of 192 x 164 x 87 or 105 mm (external dimensions) NSYTB...19168 or NSYTB...191610



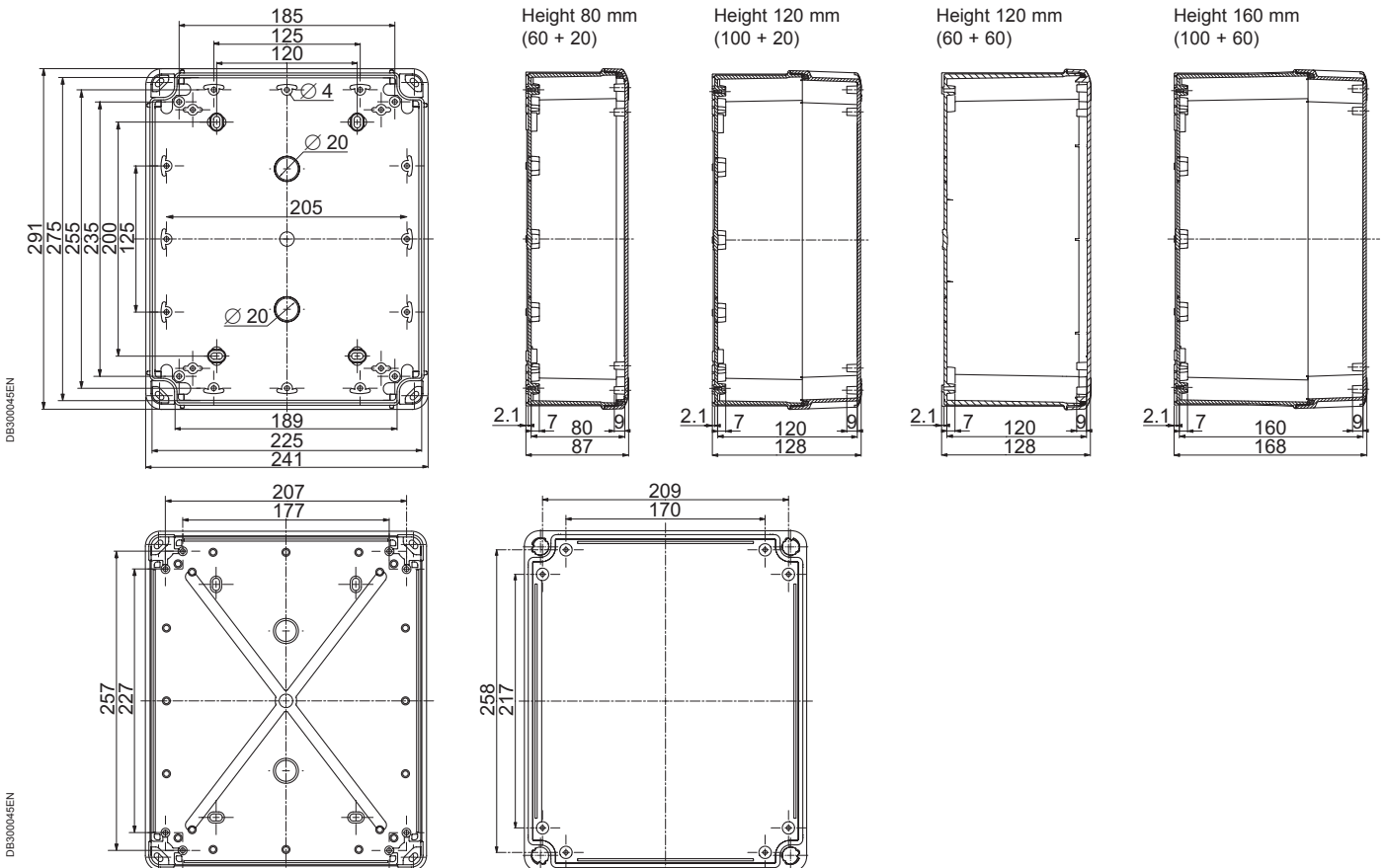
Thermoplastic industrial boxes

Dimensions

Box of 241 x 194 x 87, 107 or 127 mm (external dimensions) NSYTB...24198, NSYTB...241910 or NSYTB...241912



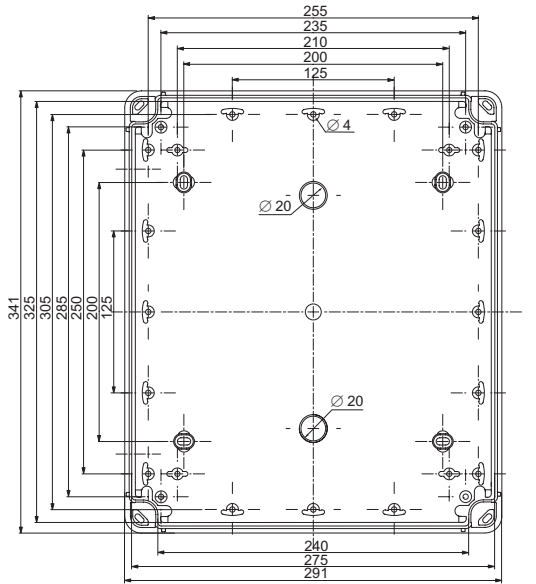
Box of 291 x 241 x 88, 128 or 168 mm (external dimensions) NSYTB...29248, NSYTB...292412 or NSYTB...292416



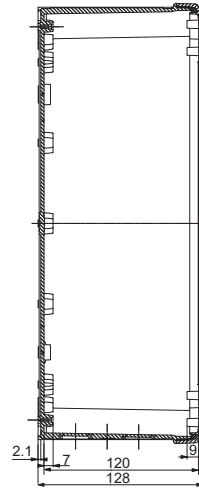
Thermoplastic industrial boxes

Dimensions

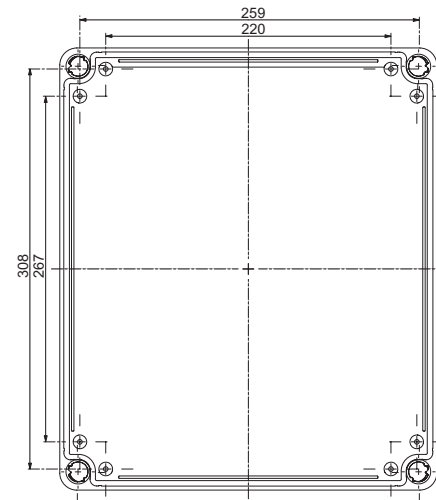
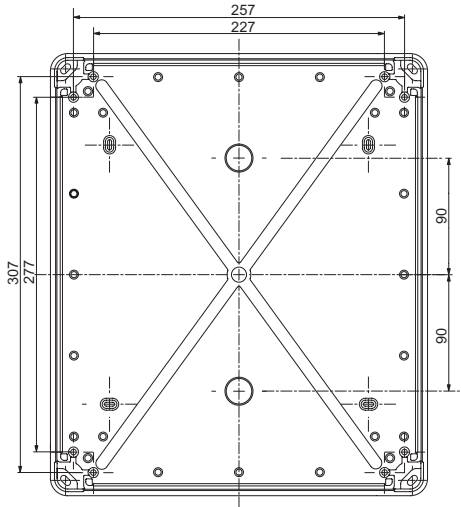
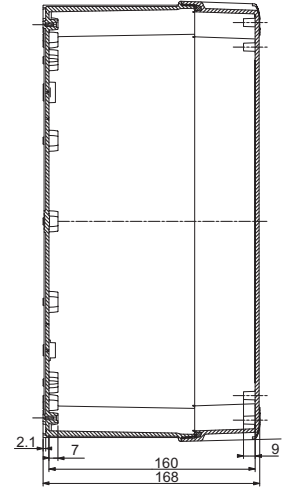
Box of 341 x 291 x 128 or 168 mm (external dimensions) NSYTB...342912 or NSYTB...342916



Height 120 mm
(100 + 20)



Height 160 mm
(100 + 60)



DB300046EN

Thermoplastic industrial boxes

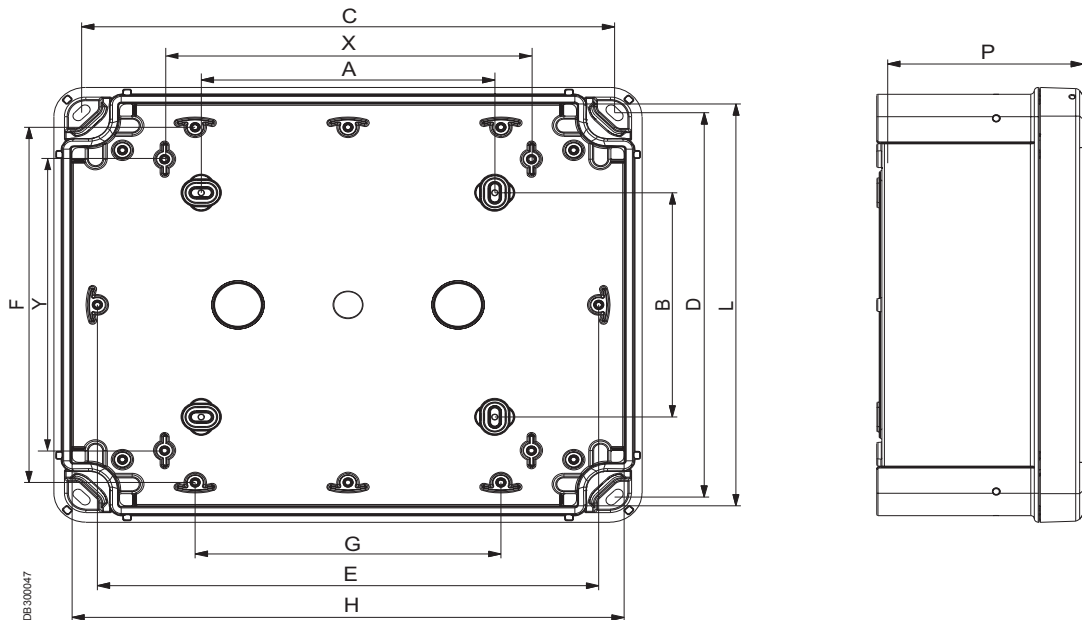
Dimensions summary table

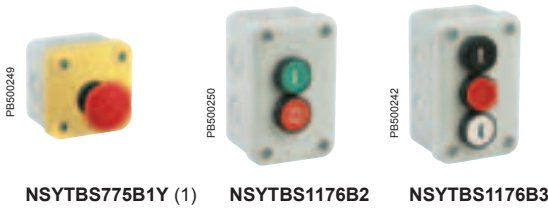
For box dimensions 125 x 80 x 65 to 325 x 275 x 160
(internal dimensions)

Internal dimensions (mm)			Fixing of the box (mm) (marking on the outside)				Fixing of accessories (mm) (marking on the inside)					Box reference base with and without transparent cover*	
H	L	P	A	B	C	D	E	F	G	X	Y		
65	65	47	30	-	-	-	-	41	-	-	-	NSYTBS775	NSYTBP775
80	80	47	30	-	-	-	56	56	-	-	-	NSYTBS885	NSYTBP885
105	65	55	50	-	-	-	80	44	-	-	-	NSYTBS1176	NSYTBP1176
105	65	85	50	-	-	-	80	44	-	-	-	NSYTBS1179H	-
105	105	55	50	-	-	-	87	87	-	-	-	NSYTBS11116	NSYTBP11116
105	105	125	50	-	-	-	87	87	-	-	-	NSYTBS111113H	-
125	80	65	50	-	116	71	87	-	-	-	-	NSYTBS1397	NSYTBP1397
150	105	80	50	-	141	98	130	87	-	95	-	NSYTBS16128	NSYTBP16128
175	105	80	100	-	170	98	158.5	87	-	136	-	NSYTBS19128	NSYTBP19128
175	105	100	100	-	170	98	158.5	87	-	136	-	NSYTBS191210H	NSYTBP191210H
175	150	80	100	100	170	141	158.5	130	-	136	65	NSYTBS19168	NSYTBP19168
175	150	100	100	100	170	141	158.5	130	-	136	65	NSYTBS191610H	NSYTBP191610H
225	175	80	120	100	218	171.5	205	158.5	125	150	130	NSYTBS24198	NSYTBP24198
225	175	100	120	100	218	171.5	205	158.5	125	150	130	NSYTBS241910H	NSYTBP241910H
225	175	100	120	100	218	171.5	205	158.5	125	150	130	NSYTBS241910	NSYTBP241910
225	175	120	120	100	218	171.5	205	158.5	125	150	130	NSYTBS241912H	NSYTBP241912H
275	225	80	200	120	268.5	218.5	255	205	125	221	161	NSYTBS29248	NSYTBP29248
275	225	120	200	120	268.5	218.5	255	205	125	221	161	NSYTBS292412H	NSYTBP292412H
275	225	120	200	120	268.5	218.5	255	205	125	221	161	NSYTBS292412	NSYTBP292412
275	225	160	200	120	268.5	218.5	255	205	125	221	161	NSYTBS292416H	NSYTBP292416H
325	275	120	200	200	319	269	305	255	125	250	210	NSYTBS342912	NSYTBP342912
325	275	160	200	200	319	269	305	255	125	250	210	NSYTBS342916H	NSYTBP342916H

*Identical features for the boxes with transparent covers. Add a T at the end of the reference.

H: Height
L: Width
P: Depth



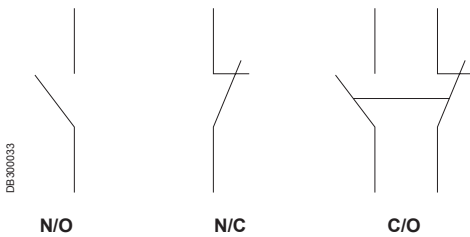


Boxes equipped with IP 54 ABS buttons

Overall external dimensions (mm)			Minor pack.	Reference
Height	Width	Depth		
74	74	83	1	NSYTBS775B1Y (1)
116	74	75	1	NSYTBS1176B2
116	74	75	1	NSYTBS1176B3

(1) Ref. **NSYTBS775B1Y** houses an emergency switching off palm button with mechanical locking according to standards IEC 60364-5-53 and 60947-5-5.

- Emergency switching off function with a red, Ø 40 mm, "turn to unlock" palm button.
- Start / Stop function with 2 push buttons.
- Up / Down / Stop function with 3 push buttons.
- Technical features of the switches:
 - "NC" switch with positive opening manoeuvre according to IEC 60947-5-1 appendix K.
 - Mechanical durability of the emergency switch: 0.1 million cycles.
 - Mechanical durability of the "NC" and "NO" switches: 5 million cycles.
 - Protection against short circuits: 10 A.



Function	Type			Type of push
	"NO"	"NC"	"C / O"	
Emergency switching off	1	1	-	Latching, red
Start/stop				
Start	1	-	-	Flush, green
Stop	-	1	-	Projecting, red
Up / down / stop				
Up	-	-	1	Flush, black
Down	-	-	1	Flush, white
Stop	-	1	-	Projecting, red



ABS button boxes, to be equipped

Overall internal dimensions (mm)					Overall external dimensions (mm)			Minor pack.	Grill	
H.	W.	D.	Body	Cover	H.	W.	D.			
65	65	45	35	10	74	74	54	1 hole	5	NSYTBS775C1
65	65	45	35	10	74	74	54	1 hole	5	NSYTBS775C1Y (1)
105	65	55	45	10	116	74	62	2 holes	5	NSYTBS1176C2
105	65	55	45	10	116	74	62	3 holes	5	NSYTBS1176C3

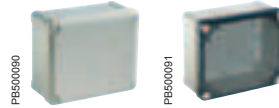
(1) Yellow "emergency switching off" box.

- IK 07.
- RAL 7035 grey and RAL 1021 yellow, "emergency switching off".
- Diameter of the button holes: 22.5 mm.
- Flush-mounting cable entries for ISO cable gland (page 249).
- 4 entries with 20-mm diameter on the 1-button box.
- 6 entries with 20-mm diameter on the 2 and 3-button boxes.

Practical

- Ready-to-use boxes.

Universal boxes with IP 66



Page 238

Overall external dimensions (mm)			Overall internal dimensions (mm)			Body (mm)	Cover (mm)	Material			
Height	Width	Depth	Height	Width	Depth			ABS IP 66 IK 07		PC-UL IP 66 IK 08	
								Opaque cover	Transparent cover	Opaque cover	Transparent cover
74	74	54	65	65	47	37	10	NSYTBS775	-	NSYTBP775	-
89	89	54	80	80	47	37	10	NSYTBS885	-	NSYTBP885	-
116	74	62	105	65	55	45	10	NSYTBS1176	-	NSYTBP1176	-
116	74	94	105	65	85	45	40	NSYTBS1179H	-	-	-
116	116	62	105	105	55	45	10	NSYTBS11116	-	NSYTBP11116	-
116	116	133	105	105	125	45	80	NSYTBS11113H	-	-	-
138	93	72	125	80	65	45	20	NSYTBS1397	NSYTBS1397T	NSYTBP1397	NSYTBP1397T
164	121	87	150	105	80	60	20	NSYTBS16128	NSYTBS16128T	NSYTBP16128	NSYTBP16128T
192	121	87	175	105	80	60	20	NSYTBS19128	NSYTBS19128T	NSYTBP19128	NSYTBP19128T
192	121	105	175	105	100	60	40	NSYTBS191210H	NSYTBS191210HT	NSYTBP191210H	NSYTBP191210HT
192	164	87	175	150	80	60	20	NSYTBS19168	NSYTBS19168T	NSYTBP19168	NSYTBP19168T
192	164	105	175	150	100	60	40	NSYTBS191610H	NSYTBS191610HT	NSYTBP191610H	NSYTBP191610HT
241	194	87	225	175	80	60	20	NSYTBS24198	NSYTBS24198T	NSYTBP24198	NSYTBP24198T
241	194	107	225	175	100	80	20	NSYTBS241910	NSYTBS241910T	NSYTBP241910	NSYTBP241910T
241	194	107	225	175	100	60	40	NSYTBS241910H	NSYTBS241910HT	NSYTBP241910H	NSYTBP241910HT
241	194	127	225	175	120	80	40	NSYTBS241912H	NSYTBS241912HT	NSYTBP241912H	NSYTBP241912HT
291	241	88	275	225	80	60	20	NSYTBS29248	NSYTBS29248T	NSYTBP29248	NSYTBP29248T
291	241	128	275	225	120	100	20	NSYTBS292412	NSYTBS292412T	NSYTBP292412	NSYTBP292412T
291	241	128	275	225	120	60	60	NSYTBS292412H	NSYTBS292412HT	NSYTBP292412H	NSYTBP292412HT
291	241	168	275	225	160	100	60	NSYTBS292416H	NSYTBS292416HT	NSYTBP292416H	NSYTBP292416HT
341	291	128	325	275	120	100	20	NSYTBS342912	NSYTBS342912T	NSYTBP342912	NSYTBP342912T
341	291	168	325	275	160	100	60	NSYTBS342916H	NSYTBS342916HT	NSYTBP342916H	NSYTBP342916HT

ABS boxes for buttons, to be equipped



Page 244

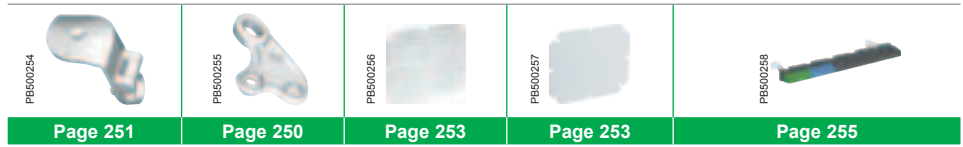
External dimensions (mm)			Number of holes	Cover	Ref.
Height	Width	Depth			
74	74	54	1	Grey	NSYTBS775C1
74	74	54	1	Yellow	NSYTBS775C1Y
116	74	62	2	Grey	NSYTBS1176C2
116	74	62	3	Grey	NSYTBS1176C3

Equipped button boxes, in ABS with IP 54



Page 244

External dimensions (mm)				
Height	Width	Depth		Reference
74	74	83	Emergency switching off	NSYTBS775B1Y
116	74	75	Start/stop	NSYTBS1176B2
116	74	75	Up / down / stop	NSYTBS1176B3



Overall external dimensions (mm)			Overall internal dimensions (mm)			Set of 2 hinges	Set of 4 fixing lugs	Galvanised-steel plate	Insulating plate	Terminal-block support bar
Height	Width	Depth	Height	Width	Depth					
74	74	54	65	65	47	-	-	-	-	-
89	89	54	80	80	47	-	-	-	-	-
116	74	62	105	65	55	-	-	-	-	-
116	116	62	105	105	55	-	NSYAEFTB	-	-	-
138	93	72	125	80	65	NSYAEHDH20TB	NSYAEFTB	-	-	-
164	121	87	150	105	80	NSYAEHDH20TB	NSYAEFTB	-	-	-
192	121	87	175	105	80	NSYAEHDH20TB	NSYAEFTB	-	-	IMT34000
192	121	105	175	105	100	NSYAEHDH40TB	NSYAEFTB	-	-	IMT34000
192	164	87	175	150	80	NSYAEHDH20TB	NSYAEFTB	NSYAMP1916TB	NSYAMPA1916TB	IMT34000
192	164	105	175	150	100	NSYAEHDH40TB	NSYAEFTB	NSYAMP1916TB	NSYAMPA1916TB	IMT34000
241	194	87	225	175	80	NSYAEHDH20TB	NSYAEFTB	NSYAMP2419TB	NSYAMPA2419TB	IMT34000 or IMT34001
241	194	107	225	175	100	(1) NSYAEHDH20TB or NSYAEHDH40TB	NSYAEFTB	NSYAMP2419TB	NSYAMPA2419TB	IMT34000 or IMT34001
241	194	127	225	175	120	NSYAEHDH40TB	NSYAEFTB	NSYAMP2419TB	NSYAMPA2419TB	IMT34000 or IMT34001
291	241	88	275	225	80	NSYAEHDH20TB	NSYAEFTB	NSYAMP2924TB	NSYAMPA2924TB	IMT34001 or IMT34002
291	241	128	275	225	120	-	NSYAEFTB	NSYAMP2924TB	NSYAMPA2924TB	IMT34001 or IMT34002
291	241	128	275	225	120	(1) NSYAEHDH20TB or -	NSYAEFTB	NSYAMP2924TB	NSYAMPA2924TB	IMT34001 or IMT34002
291	241	168	275	225	160	-	NSYAEFTB	NSYAMP2924TB	NSYAMPA2924TB	IMT34001 or IMT34002
341	291	128	325	275	120	NSYAEHDH20TB	NSYAEFTB	NSYAMP3429TB	NSYAMPA3429TB	IMT34002
341	291	168	325	275	160	-	NSYAEFTB	NSYAMP3429TB	NSYAMPA3429TB	IMT34002

(1) Several cover depths for the same external dimensions.

Anti-corrosion valve and coupling kit



Page 256 and page 247

IP66 ventilation and coupling accessories	Ref.
Valve, 16 litres/h, Ø 12	NSYCAG12LPH1
Valve, 120 litres/h, Ø 12	NSYCAG12LPH2
Coupling kit, Ø 32	13934

Fixings



Page 254

Stand-offs and spacers	Ref.
Set of four 15-mm spacers	NSYAMFEP154TB
Set of four 20-mm spacers	NSYAMFEP204TB
Set of four 30-mm spacers	NSYAMFEP304TB
Set of four 15-mm self-tapping stand-offs	NSYAMFET154TB
Set of four 20-mm self-tapping stand-offs	NSYAMFET204TB
Set of four 30-mm self-tapping stand-offs	NSYAMFET304TB
Batch of 50 M4 screws for stand-offs and spacers	NSYAMFESTB

Screws for accessories	Ref.
Pack of 100 4-mm Pozidrive and slotted self-tapping screws	NSYAMFSTB

Cable glands and quick entries



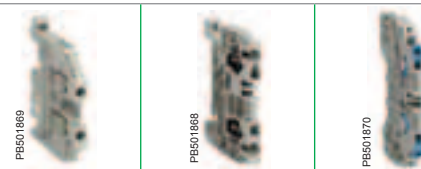
Page 450

Page 449

	M12	M16	M20	M25	M32	M40
IP 68 cable glands (1)	ISM71501	ISM71502	ISM71503	ISM71504	ISM71505	ISM71506
IP 67 quick entries (2)	IMT36179	IMT36180	IMT36181	IMT36182	IMT36183	IMT36184

(1) Other dimensions (see page 249).
 (2) Other dimensions (see page 248).

Terminal blocks



DIN rail terminal blocks	Screw connection	Spring connection	Insulation displacement connection
Passthrough, 2 x 2.5 mm ² , grey	AB1VV235U	AB1RRN235U2GR	AB1AA235U2GR
Passthrough, 2 x 4 mm ² , grey	AB1VV435U	AB1RRN435U2GR	-
Protective earth, 2 x 2.5 mm ²	AB1TP235U	AB1RRNTP235U2	AB1AATP235U2

4-hole terminal blocks	Black (live)	Blue (neutral)	Green (earth)
2 x 10 ² + 2 x 16 ²	IMT34003	IMT34005	IMT34007
3 x 16 ² + 1 x 25 ²	IMT34004	IMT34006	IMT34008

Composition accessories

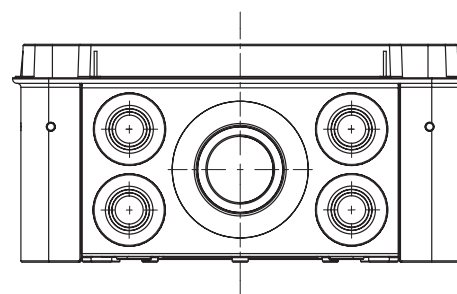
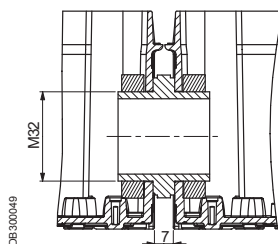
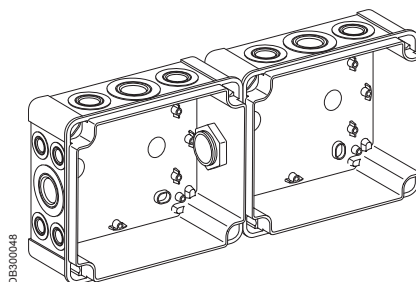
Coupling accessories



Coupling kit

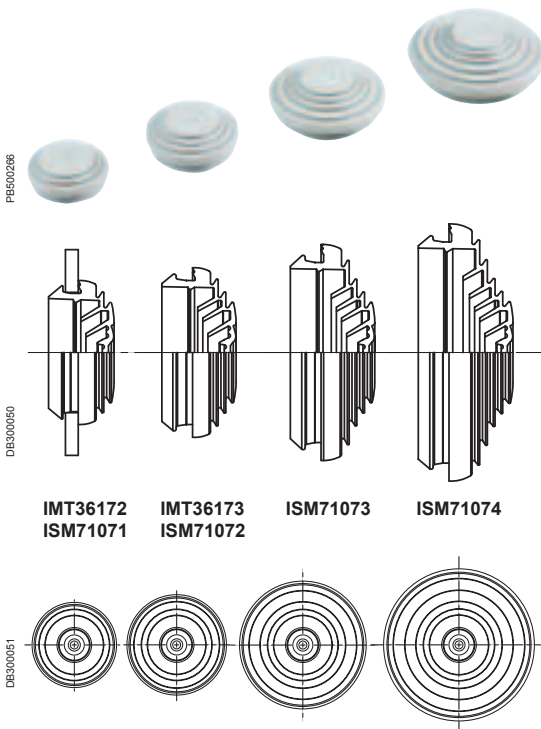
- The coupling kit allows you to join several boxes with dimensions from 138 x 93 mm, while keeping IP 66.
- The kit is installed by drilling a hole with Ø 32 mm in the boxes to be coupled.
- The kit consists of 2 linking parts, nuts and seals.

Description	Minor pack.	Reference
Coupling kit	1	13934



Composition accessories

Cable-entry accessories



Mixed membrane entries for IP 55 direct cable entries

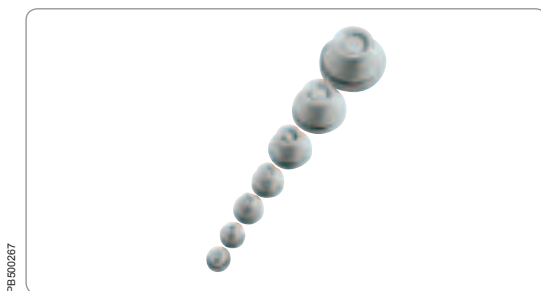
Common accessories for the Thalassa and Spacial offers

- Membrane entries with multiple membranes.
- IP 55.
- RAL 7035.
- Patented concentric cutting. A simple screwdriver is enough. Enables ultra-quick connection with the choice of several cable diameters for the same membrane entry.
- Material: SBS.
- Minor packaging of 10 pieces.
- Warning: The IP becomes 55.
- Suitable for walls from 2 to 3.2 mm.

Ø (mm)		Minor pack.	References and colours	
Drill hole	Cable / conduit		RAL 9010 white	RAL 7035 light grey
23	4 - 20	10	IMT36172	ISM71071
29	4 - 25	10	IMT36173	ISM71072
36	4 - 32	10	-	ISM71073
44	4 - 40	10	-	ISM71074

Installation of IP 55 entries

- Insertion of rigid cables:
 - Strip at least 100 mm.
 - Push the wires through the membrane.
- Insertion of flexible cables:
 - Pierce partially and soften the membrane with a 4 to 5.5-mm screwdriver.
 - Pass the cable through the membrane.
- Insertion of conduits:
 - Peel the necessary step: 16, 20, 25, 32 or 40 mm.
 - Push the conduit.



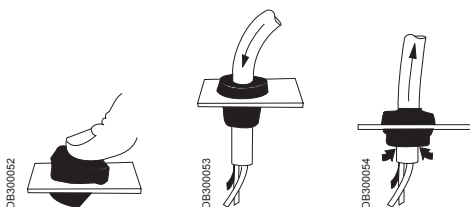
IP 67 quick cable entries

- IP 67.
- Material: EPDM plastic.
- Suitable for walls from 1 to 4 mm (0.5 to 2 mm for ref. **IMT36179**).
- Quick installation with no tools.
- Installation direction: the conical part is inside the box.

ISO	Ø of drill hole	Cable Ø (mm)	Minor pack.	Reference
M12	12.5	3 - 5	50	IMT36179
M16	16	5 - 7	50	IMT36180
M20	20.3	7 - 10	50	IMT36181
M25	25.3	10 - 14	50	IMT36182
M32	32.4	14 - 20	50	IMT36183
M40	40.7	20 - 26	25	IMT36184
M50	50.7	26 - 35	25	IMT36185

Application

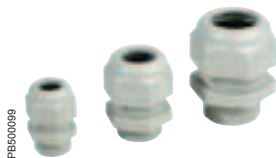
- Push the cable entry into the hole. The conical part must be inserted into the box.
- Prepare and loosen the cable entry with a screwdriver. Pass the cable through the cable entry.
- Pull the cable back slightly to fix it in place. The installation is complete.



Cable-gland, disc and plug selection table

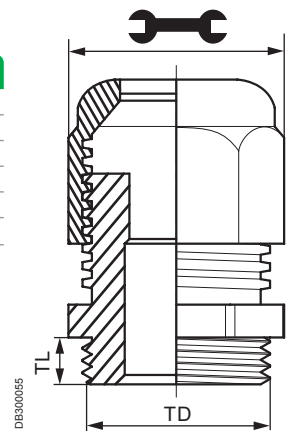
Ø	1-cable cable gland			Multi-cable disc		Gasket	Blanking plug	Transport plug
	Ref.	Ø min / max (mm)	drill \ (2)	Ref.	Number / Ø (mm)			
M12	ISM71501	3 / 6.5	12.2 (0 + 0.2)	-	-	IMT36151	IMT36161	-
M16	ISM71502	4 / 8	16.2 (0 + 0.2)	IMT36157	2 x Ø 4	IMT36152	IMT36162	IMT36167
M20	ISM71503	6 / 12	20.2 (0 + 0.2)	IMT36158	3 x Ø 4	IMT36153	IMT36163	IMT36168
M20 (1)	IMT36150	6 / 12	20.2 (0 + 0.2)	IMT36158	3 x Ø 4	IMT36153	IMT36163	IMT36168
M25	ISM71504	11 / 17	25.2 (0 + 0.2)	IMT36159	4 x Ø 5	IMT36154	IMT36164	IMT36169
M32	ISM71505	15 / 21	32.2 (0 + 0.3)	IMT36160	6 x Ø 5	IMT36155	IMT36165	IMT36170
M40	ISM71506	19 / 28	40.5 (0 + 0.3)	-	-	IMT36156	IMT36166	IMT36171

(1) Cable-gland with high resistance to fire.
 (2) In brackets: tolerance.



ISO cable-gland

Ø	Reference	TD	TL	⊠	Thread
M12	ISM71501	12	6	15	1.5
M16	ISM71502	16	8	19	1.5
M20	ISM71503 - IMT36150	20	10	24	1.5
M25	ISM71504	25	8	29	1.5
M32	ISM71505	32	10	36	1.5
M40	ISM71506	40	10	46	1.5



- IP 68, 5 bars.
- According to standard IEC 62208.
- RAL 7035 grey.
- Material: PA6, neoprene gasket.
- Usage temperature: - 30 ... + 80 °C up to + 150 °C intermittently.
- The cable-glands are supplied with nuts.
- The IP is guaranteed with no gasket between the cable-gland and the thermoplastic box. A gasket available as an accessory guarantees the seal in the event of installation on a steel enclosure.
- The cable-gland (ref. **IMT36150**) is especially recommended for security circuits (glow wire resistance: 960 °C).
- Pack of 20 (M12 to M20), 10 (M25 and M32), 5 (M40).

Cable-gland gasket

- Batch of 100 (M12 to M25), 50 (M32), 25 (M40).

Multi-cable disc

- It is possible to pass several cables through a single cable-gland using the multi-cable bushing.

Blanking plug

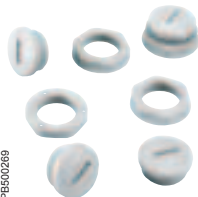
- It is screwed into the cable-gland's place.
- Pack of 20 plugs (M12 to M15), 10 plugs (M32), 5 plugs (M40).

Transport plug

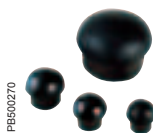
- It is installed to block the cable-gland during transport or during maintenance operations.
- Pack of 20 plugs (M16 to M25), pack of 10 (M32), pack of 5 (M40).



Multi-cable disc



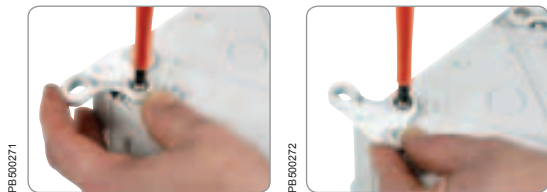
Blanking plug



Transport plug

Composition accessories

Fixing accessories

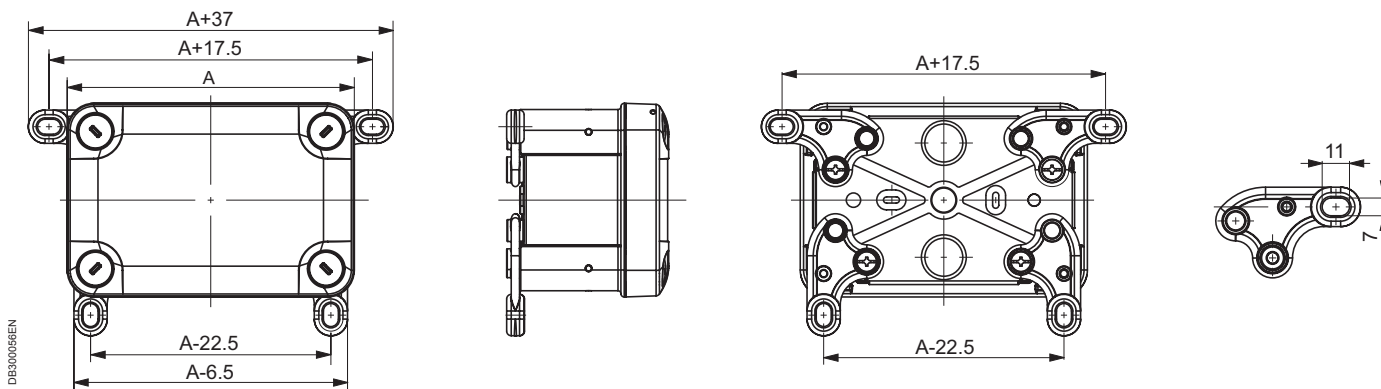


Set of four fixing lugs

- They maintain IP 66.
- Plastic fixing lugs for installation on boxes with dimensions from 116 x 116 mm.
- Option of vertical or horizontal installation.
- Kit made up of 4 legs + screws.
- Installation by a single screw at the last moment, with the box closed and equipped.
- Loading capacity on the body: 30 kg/m², on the cover: 10 kg/m².
- See compatibility with the boxes in the table for quick selection of Thalassa accessories on page 246.

Description	Minor pack.	Reference
Set of 4 fixing lugs	1	NSYAEFTB

Fixing lugs (internal dimensions)



Composition accessories

Cover accessories

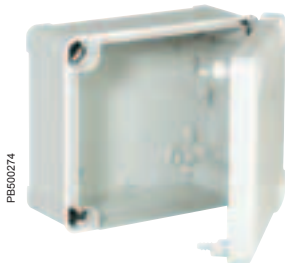


PB500273

Set of 2 hinges

- These hinges maintain IP 66.
- The hinges can be adapted to all covers with a height of 20 and 40 mm with dimensions from 138 x 93 mm.
- The hinge allows the lid to open fully to 200°.
- Maximum admissible load on the hinged cover 10 kg / m².
- The hinges (2 per set) are delivered with the fixings and instructions required for installation.
- See compatibility with the boxes in the quick selection table on page 246.

Name	Minor pack.	Height of the lid (mm)	
		20	40
Set of 2 hinges	1	NSYAEDH20TB	NSYAEDH40TB

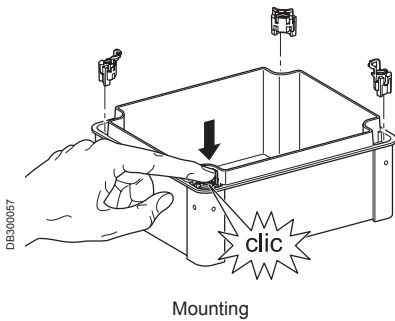


PB500274

Practical

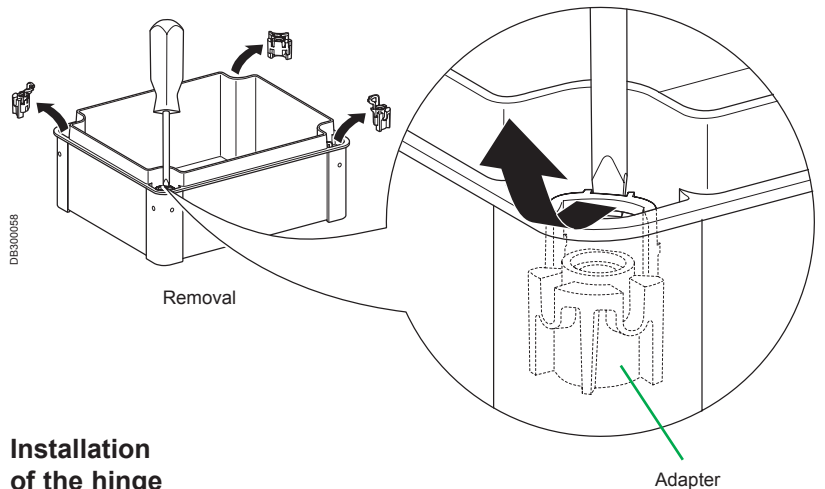
- The hinge allows an opening angle > 200°.
- The hinge does not require any machining and is installed easily even with the box already equipped.

Use of cover adapter clips



DB300057

Mounting

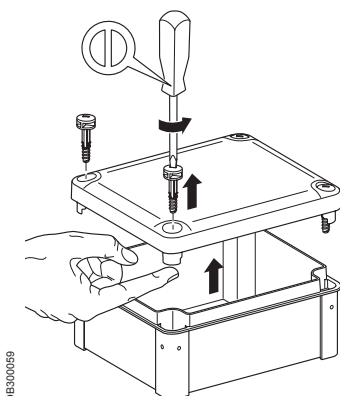


DB300058

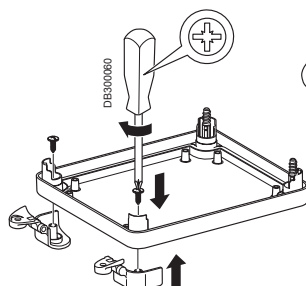
Removal

Adapter

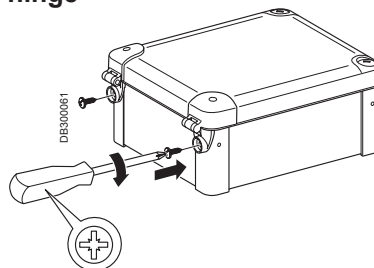
Installation of the hinge



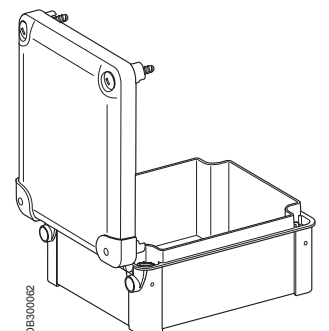
DB300059



DB300060



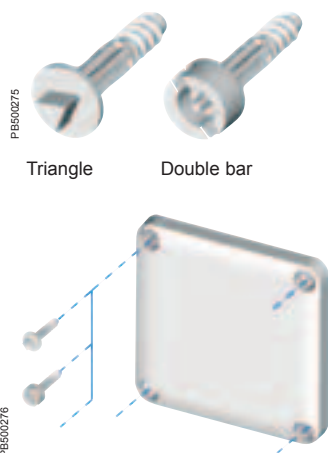
DB300061



DB300062

Composition accessories

Cover accessories



Set of 4 shape screws

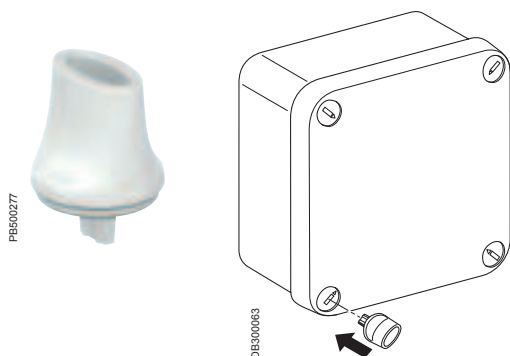
- The Thalassa boxes are delivered as standard with slotted-head screws for flat screwdrivers from 4 to 5.5 mm.
- With box sizes from 138 x 93 x 72 mm, these screws can be replaced for screws with different standardised heads, to comply with most cases.
- After removing the standard screw, simply position the new screw by pressing on it.
- The adapter clips (intermediate parts for tightening the cover on the body of the box) are the same as those for the standard screws. They are not delivered with the shape screws (see drawing on page 251).

Smart

- A single key for opening the boxes as well as the other enclosures of your installation.

Description		Minor pack.	Height of the lid (mm)		
			20	40	60
Triangle	6.5 mm	1	NSYAEDST620TB (1)	-	-
	8 mm	1	NSYAEDST820TB	-	-
Double bar	3 mm	1	NSYAEDSB320TB	-	-
	5 mm	1	NSYAEDSB520TB	-	-
Spare standard plastic screw		1	NSYAEDS20TB	NSYAEDS40TB	NSYAEDS60TB

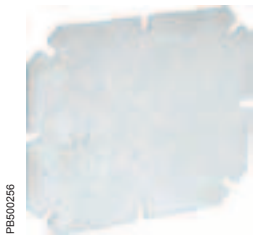
(1) CNOMO.



Pack of 4 handles

- The handle (or thumbwheel) allows the screws to be handled without any tools. It is ideally associated with a box equipped with hinges.
- It snaps onto the head of the standard plastic screw.

Description	Minor pack.	Reference
Pack of 4 handles	1	NSYAEDKTB



Galvanised-steel plate.

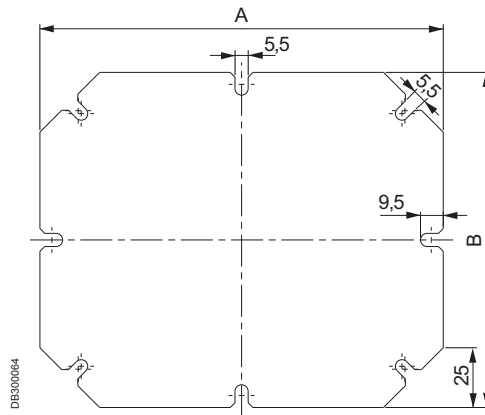


Insulating polyester plate reinforced with fibreglass, halogen-free: glow wire resistance 750 °C.

Mounting plates

- Mounting plates made from galvanised-steel (thickness: 1.5 mm) and an insulating material (polyester thickness: 2.5 mm) to adapt to all usage scenarios. Plates supplied without screws.
- Fixing by means of \varnothing 4-mm self-tapping screws, Pozidrive and slotted head, ref. **NSYAMFSTB**.
- To raise the plate, use the stand-offs ref. **NSYAMFET154TB**, **NSYAMFET204TB**, **NSYAMFET304TB** and the screw **NSYAMFESTB**.
- To stack several mounting plates, use the spacers, ref. **NSYAMFEP154TB**, **NSYAMFEP204TB**, **NSYAMFEP304TB** and the screw **NSYAMFESTB**.

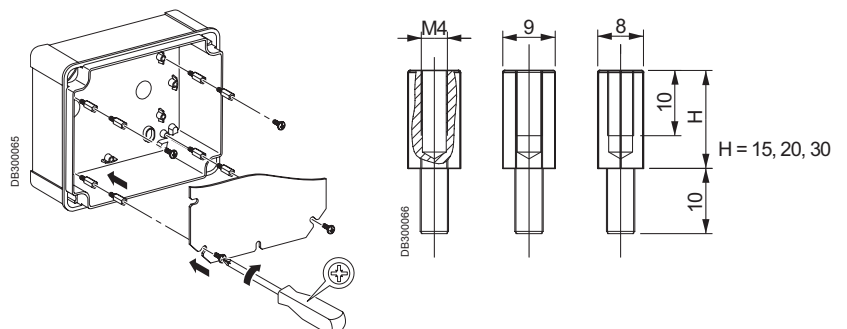
Box (mm)		Mounting plate				Minor pack.
Height	Width	Steel	Insulating	Dimensions (mm)		
				A	B	
192	164	NSYAMP1916TB	NSYAMPA1916TB	168.5	140	1
241	194	NSYAMP2419TB	NSYAMPA2419TB	215	168.5	1
291	241	NSYAMP2924TB	NSYAMPA2924TB	265	215	1
341	291	NSYAMP3429TB	NSYAMPA3429TB	315	265	1
Pack of 100 screws \varnothing 4 x 10 mm		NSYAMFSTB	NSYAMFSTB	-	-	1

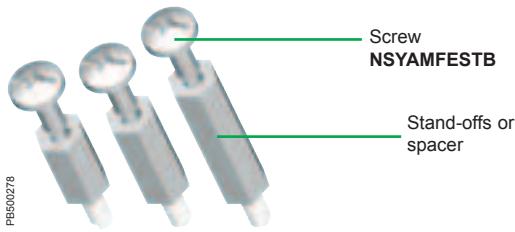


Stand-offs and spacers

- Steel stand-offs consisting of a \varnothing 4-mm self-tapping thread at one end (for direct screwing into the rivets of the box) and an M4 tapping on the other end, for direct installation of a card with an M4 screw, ref. **NSYAMFESTB**, or of a spacer.
- Steel spacer for installation on the stand-offs. M4 thread and tapping.

Height (mm)	Set of four M4 self-tapping stand-offs	Set of four M4 spacers	Minor pack.
15	NSYAMFET154TB	NSYAMFEP154TB	1
20	NSYAMFET204TB	NSYAMFEP204TB	1
30	NSYAMFET304TB	NSYAMFEP304TB	1





Screw for stand-offs and spacers

- M4 x 10 mm screw for fixing cards on the spacers and stand-offs.
- Batch of 50 screws.

Smart

- The plate always at the right level.
- A single Ø 4-mm screw for fixing any element.

Description	Minor pack.	Reference
Batch of 50 ISO screws, Ø 4 x 100, for M4 spacer and stand-offs	1	NSYAMFESTB



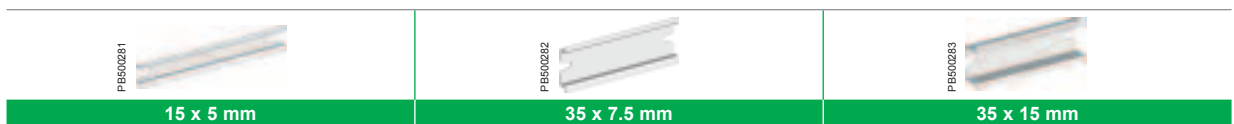
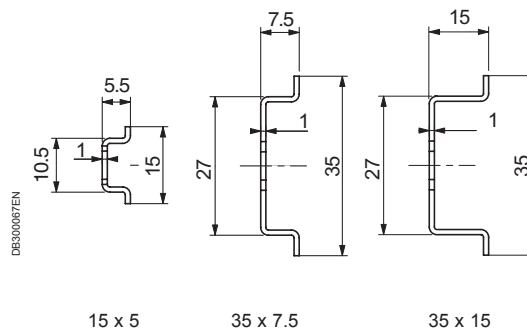
Rails

Smart

- A 15 x 5-mm rail is provided for the compact terminal blocks.
- To raise the rail, use stand-offs ref. NSYAMFET154TB, NSYAMFET204TB, NSYAMFET304TB and the screw NSYAMFESTB.

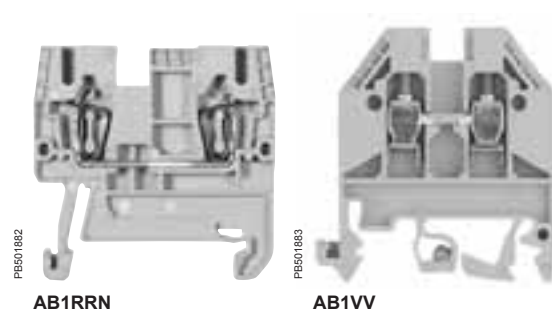
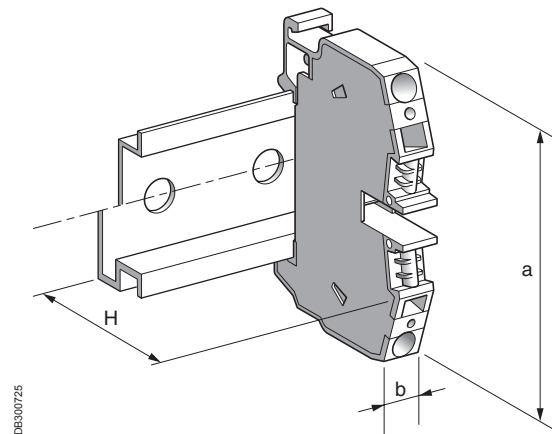
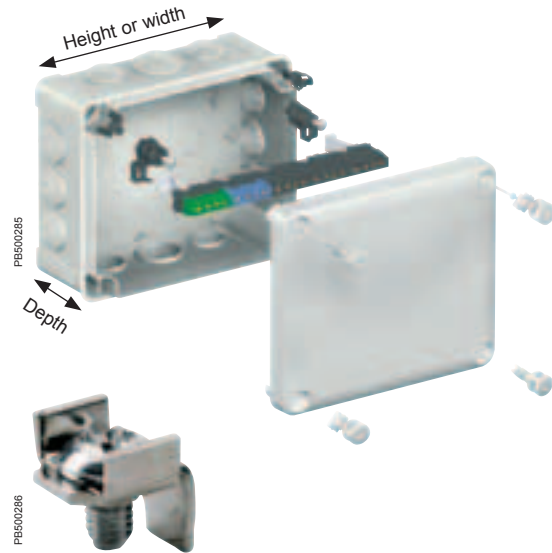
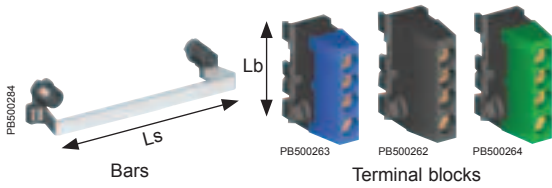
Rails

- Symmetric DIN rails (15 x 5 mm, 35 x 7.5 mm, 35 x 15 mm). Supplied without screws (except for the 15 x 5 mm rails).
- Fixing of the rails with Ø 4-mm self-tapping screws, (not included), Pozidrive and slotted head, ref. NSYAMFSTB.



For boxes with height or width						
(mm)	Ref.	Minor pack.	Ref.	Minor pack.	Ref.	Minor pack.
105	NSYAMRD11155TB	10	NSYAMRD11357TB	10	-	-
150	NSYAMRD16155TB	10	NSYAMRD16357TB	10	-	-
175	NSYAMRD19155TB	10	NSYAMRD19357TB	10	-	-
225	NSYAMRD24155TB	10	NSYAMRD24357TB	10	NSYAMRD243515TB	10
275	NSYAMRD29155TB	10	NSYAMRD29357TB	10	NSYAMRD293515TB	10
325	NSYAMRD34155TB	10	NSYAMRD34357TB	10	NSYAMRD343515TB	10

Pack of 100 screws Ø 4 x 10 mm: ref. NSYAMFSTB.



Discover our complete terminal blocks range in **MKTED207011EN**.

IP 2X terminal blocks

- The terminal-block support bar is particularly well suited to the thermoplastic boxes.
- Boxes with sizes from 192 x 116 mm can accommodate a terminal-block support bar of 12 x 2 mm.
- The screwing terminal blocks are easily clipped onto this bar.
- Terminal-block connection capacity: see the selection table below.

Description	Height or width	Min. depth	Minor pack.	Ref.
Terminal-block support bar	192	87	1	IMT34000
	241	87	1	IMT34001
	291	128	1	IMT34002

Description	Terminal-block length Lb (mm)	Black (live)	Blue (neutral)	Green (earth)
4-hole terminal blocks 2 x 10 ² + 2 x 16 ²	30	IMT34003	IMT34005	IMT34007
4-hole terminal blocks 3 x 16 ² + 1 x 25 ²	36	IMT34004	IMT34006	IMT34008
Earth terminal block (*) 2 x 25 ²		IMT34009		
Minor pack		10	5	5

(*) The earth terminal snap fits into boxes with dimensions of less than 116 x 116 mm.

Selection table

- Number of terminal blocks per support.

	Terminal blocks 2 x 10 ² + 2 x 16 ² 4 holes	Terminal blocks 3 x 16 ² + 1 x 25 ² 4 holes	Support length Ls (mm)
Support for 192 mm	4	4	140
Support for 241 mm	6	5	185
Support for 291 mm	8	6	235

DIN rail terminal blocks

- The AB1 terminal blocks have 3 types of connections: screw, spring or insulation displacement and they can be mounted on a DIN rail.
- Connection capacity from 2,5 mm² up to 150 mm².
- Available in grey, blue, orange, red, green or white color.

Technology	Description	Minor pack.	H (mm)	W (mm)	D (mm)	Reference
Screw	Passthrough, 2.5 mm ² , grey	100	48.5	5	45	AB1VV235U
	Passthrough, 2.5 mm ² , blue	100	48.5	5	45	AB1VV235UBL
	Protective earth, 2.5 mm ²	100	56	5	48.6	AB1TP235U
	Passthrough, 4 mm ² , grey	100	48.5	6	45	AB1VV435U
	Passthrough, 4 mm ² , blue	100	48.5	6	45	AB1VV435UBL
	Protective earth, 4 mm ²	100	56	6	51	AB1TP435U
Spring	Passthrough, 2.5 mm ² , grey	100	38.1	5	47.1	AB1RRN235U2GR
	Passthrough, 2.5 mm ² , blue	100	38.1	5	47.1	AB1RRN235U2BL
	Protective earth, 2.5 mm ²	100	38.1	5	47.1	AB1RRNTP235U2
	Passthrough, 4 mm ² , grey	100	38.1	6	51	AB1RRN435U2GR
	Passthrough, 4 mm ² , blue	100	38.1	6	51	AB1RRN435U2BL
	Protective earth, 4 mm ²	100	38.1	6	51	AB1RRNTP435U2



Sealed anti-condensation valve

- Controls the pressure to avoid condensation following an internal temperature increase.
- Maintains IP 68.
- Material: PA6-V2, acrylic co-polymer membrane, water and oil repellent.
- Usage temperature: -40...+105 °C.

Drill Ø	Permeability (1)	Pressure difference (2)	Minor pack.	Reference
M12	16 litres/h	$\Delta P < 1$ bar	10	NSYCAG12LPH1
M12	120 litres/h	$\Delta P < 0.1$ bar	10	NSYCAG12LPH2

(1) Air flow under $\Delta P = 0.7$ bar.
 (2) Condition for IP 68.

Applications

- Protection of equipment for luminaires, industrial control, transportation, pumps, etc.

Polyester enclosures

Installation examples



PB501273

Outdoor installation, with exposure to atmospheric conditions: mist, solar radiation, extreme temperatures, etc.

Schneider Electric enclosures made from insulating materials are designed to protect your equipment in harsh environments or in contact with the public:

- Infrastructures: protection against bad weather (solar radiation, rain, etc.), impacts, saline atmospheres, etc.
- Transport: resistance to UV, salt mist, tightness and impact resistance, etc.
- Water: resistance to corrosion, resistance to impact and UV, resistance to chemical substances, etc.
- Outdoor telecom and networks: resistance to UV, resistance to corrosion, protection of 19-inch accessories, etc.
- Power: resistance to impact, to salt mist, etc.
- Public lighting: anti-vandalism, anti-posting, UV resistance, etc.
- Industries in aggressive environments: resistance to corrosion, to chemical substances and protection against electrical hazards.



PB501274

Self-ventilated enclosure with anti-posting doors and canopy.



PB501275

Indoor or outdoor installation on industrial zones in aggressive environments.

Insulating modular boxes

Modular

The dimensions of the sides, multiples of 9 cm, allow the creation of assemblies.

Protection

- IP 65.
- Gasket between body and cover.

Choice

- 14 sizes.
- 9 combinations of length x width.
- 2 cover heights.
- Transparent cover.
- Opaque cover made from polycarbonate or polyester.

Industry or infrastructure

- Energy, automatism.
- Accessories for modular distribution.



Safety

- Full insulation for class II equipment.
- Locking with 4, 6 or 8 points.

Customisation

- Various machining operations of the rear and the cover.
- Option of colour in the mass.

Easy

Bosses with inserts, at the rear of the body, for fixing plates or various supports.

IP 65 insulating modular boxes

Introduction



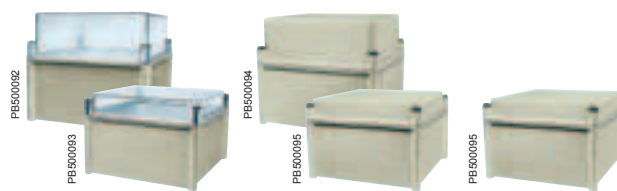
PB500213

- The product references show the two lateral dimensions in cm.
- 14 sizes of insulating boxes; the sides are multiples of 9 cm.
- Insulating boxes that can be coupled by all their side surfaces, allowing the creation of the greatest variety of modular assemblies.
- Rear made from polyester reinforced with fibreglass, moulded by hot compression, 9 sizes.
- 3 types of cover available according to the sizes:
 - Standard cover, made from transparent polycarbonate with neoprene gasket, 45 mm high, or 95 mm high (final index A) according to the sizes.
 - Opaque polycarbonate cover (index C), with neoprene gasket, 45 mm high, or 95 mm high (final index A) according to the sizes.
 - Polyester reinforced with fibreglass cover (index P) with PUR gasket, 45 mm high.
- Complete box includes rear, cover, locking screws and sealing device.
- The rears (prefix F) and the covers (prefix T) are supplied separately as standard references. The separate covers are supplied without locking screws or sealing accessories.
- The PLS enclosures with transparent cover are also offered in batches; the reference refers to the complete batch.

Technical characteristics

- Degree of protection: IP 65.
- Resistance to external mechanical impacts: IK 09.
- RAL 7032 grey colour (opaque rears and cover).
- Excellent resistance to corrosion; can withstand most chemical agents.
- Full insulation to create class II assemblies.
- Standard lock with slot screws outside the volume of the boxes. Delivered with sealing system.
- External wall mounting by 4 lugs, to be ordered separately.
- Service temperature: – 30 to + 90 °C.
- Bosses with M6 inserts for fixing the mounting plate.
- Halogen-free and compliant with the RoHS directive.
- Certification according to standard IEC 62208, guaranteeing IP, IK, resistance to heat and fire (self-extinguishing), insulation to 5000 V, and load of the mounting plate, 100 kg/m².
- Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure.
- UL certification and NEMA classification 4X and 13.

Selection guide

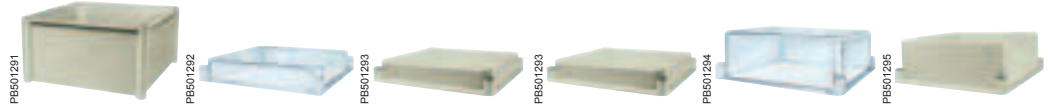


Dimensions (mm)			Complete box			Complete boxes in batches	
Height	Width	Depth	Transparent cover	Opaque cover	Polyester cover	Transparent cover	Amount per batch
180	270	180	NSYPLS1827	NSYPLSC1827	NSYPLSP1827	NSYPLS1827L	56
270	270	180	NSYPLS2727	NSYPLSC2727	NSYPLSP2727	NSYPLS2727L	56
270	270	230	NSYPLS2727A	NSYPLSC2727A	-	NSYPLS2727AL	56
270	360	180	NSYPLS2736	NSYPLSC2736	NSYPLSP2736	NSYPLS2736L	56
270	360	230	NSYPLS2736A	NSYPLSC2736A	-	NSYPLS2736AL	56
270	540	180	NSYPLS2754	NSYPLSC2754	NSYPLSP2754	NSYPLS2754L	28
270	540	230	NSYPLS2754A	NSYPLSC2754A	-	NSYPLS2754AL	28
360	360	180	NSYPLS3636	NSYPLSC3636	NSYPLSP3636	NSYPLS3636L	28
360	540	180	NSYPLS3654	NSYPLSC3654	NSYPLSP3654	NSYPLS3654L	28
360	540	230	NSYPLS3654A	NSYPLSC3654A	-	NSYPLS3654AL	28
360	720	230	NSYPLS3672A	NSYPLSC3672A	-	NSYPLS3672AL	27
540	540	180	NSYPLS5454	NSYPLSC5454	NSYPLSP5454	NSYPLS5454L	14
540	540	230	NSYPLS5454A	NSYPLSC5454A	-	NSYPLS5454AL	14
540	720	230	NSYPLS5472A	NSYPLSC5472A	-	NSYPLS5472AL	14

IP 65 insulating modular boxes

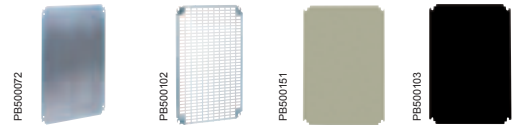
Introduction

Selection guide for rears and covers (without screws)



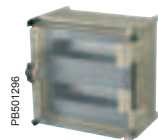
Dimensions (mm)		Rear 135 mm	Low covers			High covers	
Height	Width		Transparent 45 mm	Opaque 45 mm	Polyester 45 mm	Transparent 95 mm	Opaque 95 mm
180	270	NSYFPLS1827	NSYTPLS1827	NSYTPLSC1827	NSYTPLSP1827	-	-
270	270	NSYFPLS2727	NSYTPLS2727	NSYTPLSC2727	NSYTPLSP2727	-	-
270	270	NSYFPLS2727	-	-	-	NSYTPLS2727A	NSYTPLSC2727A
270	360	NSYFPLS2736	NSYTPLS2736	NSYTPLSC2736	NSYTPLSP2736	-	-
270	360	NSYFPLS2736	-	-	-	NSYTPLS2736A	NSYTPLSC2736A
270	540	NSYFPLS2754	NSYTPLS2754	NSYTPLSC2754	NSYTPLSP2754	-	-
270	540	NSYFPLS2754	-	-	-	NSYTPLS2754A	NSYTPLSC2754A
360	360	NSYFPLS3636	NSYTPLS3636	NSYTPLSC3636	NSYTPLSP3636	-	-
360	540	NSYFPLS3654	NSYTPLS3654	NSYTPLSC3654	NSYTPLSP3654	-	-
360	540	NSYFPLS3654	-	-	-	NSYTPLS3654A	NSYTPLSC3654A
360	720	NSYFPLS3672	-	-	-	NSYTPLS3672A	NSYTPLSC3672A
540	540	NSYFPLS5454	NSYTPLS5454	NSYTPLSC5454	NSYTPLSP5454	-	-
540	540	NSYFPLS5454	-	-	-	NSYTPLS5454A	NSYTPLSC5454A
540	720	NSYFPLS5472	-	-	-	NSYTPLS5472A	NSYTPLSC5472A

Selection guides for mounting plates



For installing in the boxes (mm)		Metallic mounting plates		Insulating mounting plates	
Height	Width	Plain	Telequick	Polyester	Bakelite
180	270	NSYPMM1827	NSYPMR1827	NSYPMA1827	NSYPMB1827
270	270	NSYPMM2727	NSYPMR2727	NSYPMA2727	NSYPMB2727
270	360	NSYPMM2736	NSYPMR2736	NSYPMA2736	NSYPMB2736
270	540	NSYPMM2754	NSYPMR2754	NSYPMA2754	NSYPMB2754
360	360	NSYPMM3636	-	NSYPMA3636	NSYPMB3636
360	540	NSYPMM3654	NSYPMR3654	NSYPMA3654	NSYPMB3654
360	720	NSYPMM3672	NSYPMR3672	NSYPMA3672	NSYPMB3672
540	540	NSYPMM5454	NSYPMR5454	NSYPMA5454	NSYPMB5454
540	720	NSYPMM5472	NSYPMR5472	NSYPMA5472	NSYPMB5472

Selection guides for modular distribution chassis



For installing in the boxes (mm)		Modular distribution chassis	No. of rows	No. of 18 mm modules
Height	Width	Page 266		
180	270	NSYDLS12	1	12
270	270	NSYDLS24	2	24
360	270	NSYDLS242	2	24
		NSYDLS36	3	36
540	270	NSYDLS48	4	48

Selection guides for modular distribution application offer: box and chassis. See pages 266 and 267.

External dimensions (mm)			Number of 18 mm modules	Number of rows	Approximate weight (kg)	References
Height (A)	Width (B)	Depth (C)				
180	270	180	12	1	1.7	NSYPLS1827DLS12
270	270	180	24	2	2.5	NSYPLS2727DLS24
360	270	180	24	2	2.7	NSYPLS3627DLS24
360	270	180	36	3	2.8	NSYPLS3627DLS36
540	270	180	48	4	3.8	NSYPLS5427DLS48

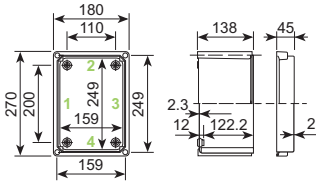
IP 65 insulating modular boxes

Dimensions

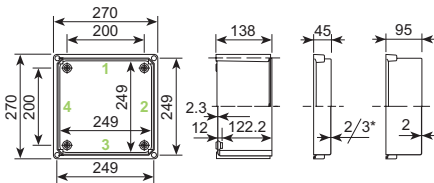
Dimensions (mm)

The surfaces are numbered to enable identification of the surfaces to be drilled in the customised offer.

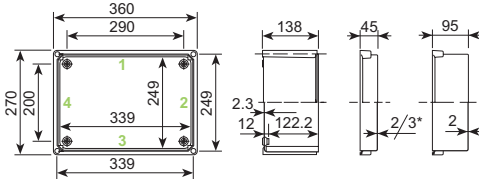
NSYPLS...1827



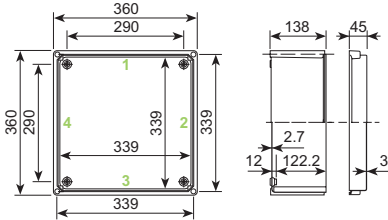
NSYPLS...2727



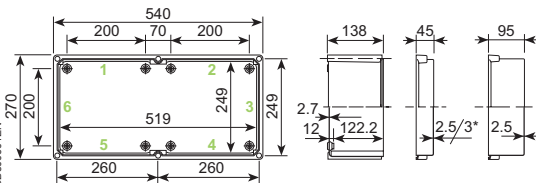
NSYPLS...2736



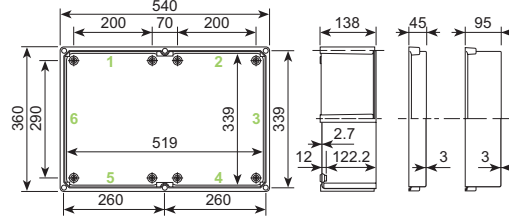
NSYPLS...3636



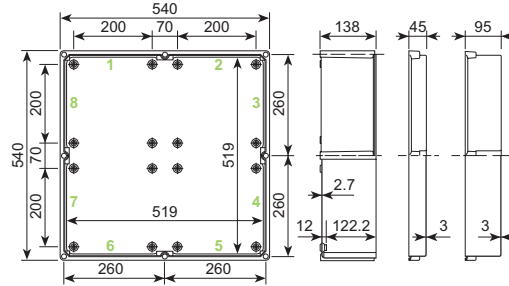
NSYPLS...2754



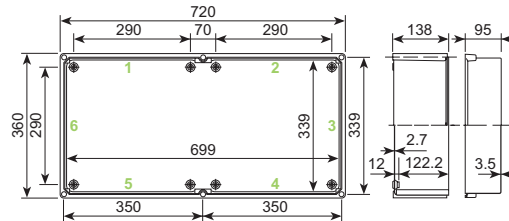
NSYPLS...3654



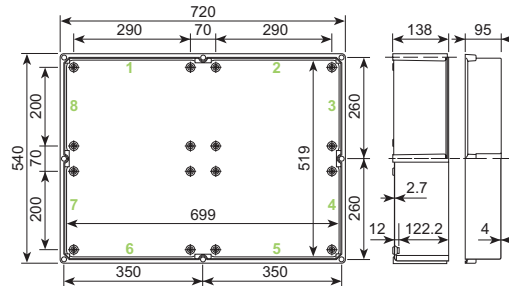
NSYPLS...5454



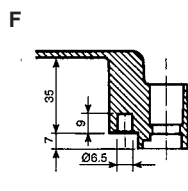
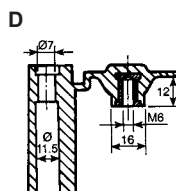
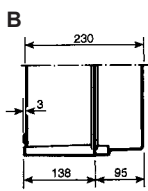
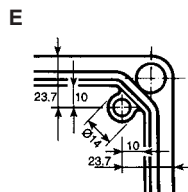
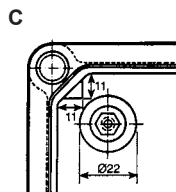
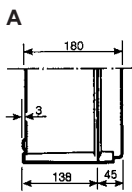
NSYPLS...3672



NSYPLS...5472



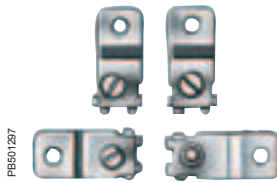
* Thickness of 3 mm for the polyester cover.



A Bottom and bottom cover.
 B Bottom and top cover.
 C D Internal view of the corners, details of the bosses with M6 inserts.
 E F Internal view of the corners of the polyester covers with bosses for inserts ref. **NSYTEX5** for M5 screws.

DB300801EN

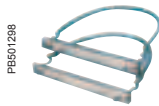
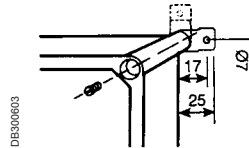
DB300802EN



Wall-fixing lugs

- Set of 4 lugs and fixings.
- Material: passivated zinc-coated or stainless steel.

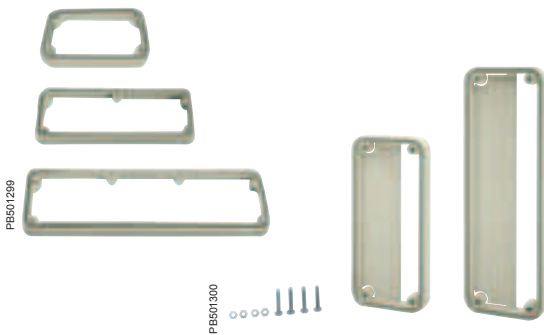
Name	References
Steel mounting lugs	NSYFP27N
Stainless-steel mounting lugs	NSYFP27X



Post-fixing device

- Contains all the elements required for mounting on a post.

For installation on a surface with dimensions (mm)	References
270	NSYFSP27270
360	NSYFSP27360
540	NSYFSP27540



Coupling frames

- Coupling frame for an opening of 110 mm (for 180 mm surfaces).
- Coupling frame for an opening of 200 mm (for 270 mm surfaces).
- Coupling frame for an opening of 290 mm (for 360 mm surfaces).
- A sealing gasket is built into the frame with full opening to maintain the protection rating of IP 65.
- Frame with partial opening: without gasket and IP 44.

Opening (mm)	References	
	Full-opening frame	Partial-opening frame
110	NSYUM27180	-
200	NSYUM27270	NSYUCC270 (1)
290	NSYUM27360	NSYUCC360 (1)

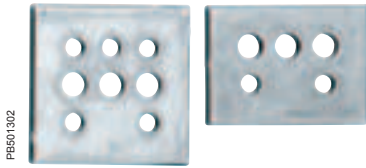
(1) References by unit. Order by multiples of 10 units (10, 20, 30, etc.).



Side plates

- 200 mm cable-gland plate or locking plate for the 270 mm surfaces.
- 290 mm cable-gland plate or locking plate for the 360 mm surfaces.
- IP 65 maintained by a sealing gasket.

Side plates (mm)	References
200	NSYTL27270
290	NSYTL27360

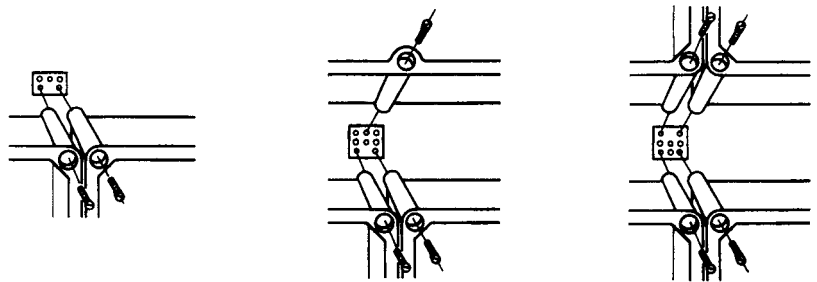


PB501302

Box coupling unit piece

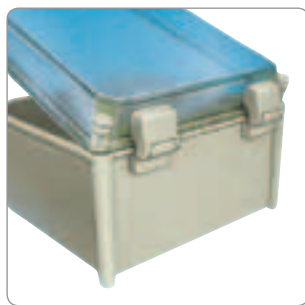
- For coupling 2, 3 or 4 boxes, with optional wall mounting.
- To be ordered in multiples of 25.

For coupling	References
2 boxes	NSYPS2C27
3 or 4 boxes	NSYPS4C27

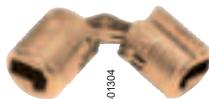


DB300804

M6 x 8 screw with cylindrical head.



PB501303



PB501304

Hinges

- Set of 2 external hinges made from plastic or internal hinges made from brass.
- To open the door to 180°.

Name	References
External plastic hinges	NSYBE27
Internal brass hinges	NSYBL27



PB501314

NSYAE25



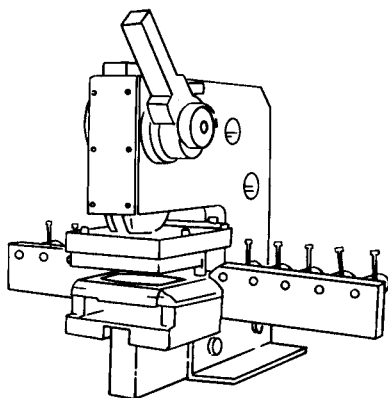
PB501315

NSYAS25

Insulators for busbar

- Ref. NSYAE25 for 4 bars of 15 or 20 mm. Utilisation on the 270 mm side.
- Ref. NSYAS25* for 1 bar of 15, 20 or 30 mm.

* References by unit. Order by multiples of 5 units (5, 10, 15, etc.).



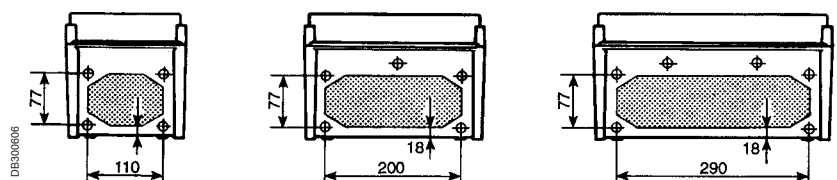
DB300805

Side cut-out press, ref. NSYPUC27.



Drill holes

- The machining operations on the dimensions of the lateral plates or frames can be specifically produced in our factory.
- The surfaces can be identified by the numbers provided on page 261.



DB300806

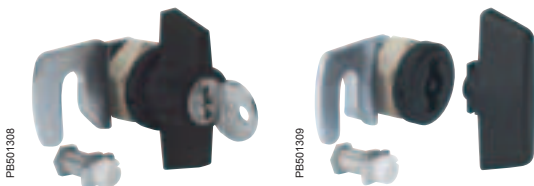


Closing for PLS boxes

- Set of 4, 6 or 8 screws.
- Three types of screws are available:
 - With slotted head.
 - With wings.
 - With plumbable triangular head.
- The references also include 4 M6 screws for fixing mounting plates and 2 steel sealing accessories.

Name	Tool	References
Set of 4 slotted screws (1)	Flat-blade screwdriver	NSYTCD274
Set of 6 slotted screws (1)	Flat-blade screwdriver	NSYTCD276
Set of 8 slotted screws (1)	Flat-blade screwdriver	NSYTCD278
Set of 4 wing screws (2)	Manual	NSYTTCM274
Set of 6 wing screws (2)	Manual	NSYTTCM276
Set of 8 wing screws (2)	Manual	NSYTTCM278
Set of 4 triangular screws	NSYLT27	NSYTCT274
Set of 6 triangular screws		NSYTCT276
Set of 8 triangular screws		NSYTCT278

(1) Included in the standard references of boxes NSYPLS...
(2) Included in the standard references of modular distribution boxes NSYPLS...DLS...



Closing locks

- Option of installing a side lock, on the opposite side to where the hinges are installed.

Name	Tool	References
Double-bar side lock and handle	NSYDBP	NSYCL27M
Side lock with key 405		NSYCL27L405
Side lock with key 1242E		NSYCL27L1242E



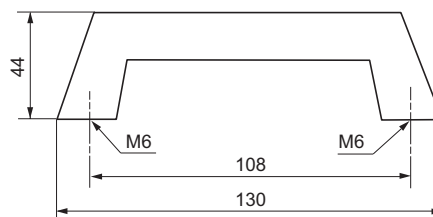
Sealing and opening

Name	References
Plastic-coated sealing triangle*	NSYPPS27
Triangular key for PLS	NSYLT27

* References by unit. Order by multiples of 10 units (10, 20, 30, etc.).

Plastic carrying handle

Name	Reference
Carrying handle	NSYATM27



See also the accessories

Cable management page 435

Distribution blocks page 420

Ventilation louvres page 699

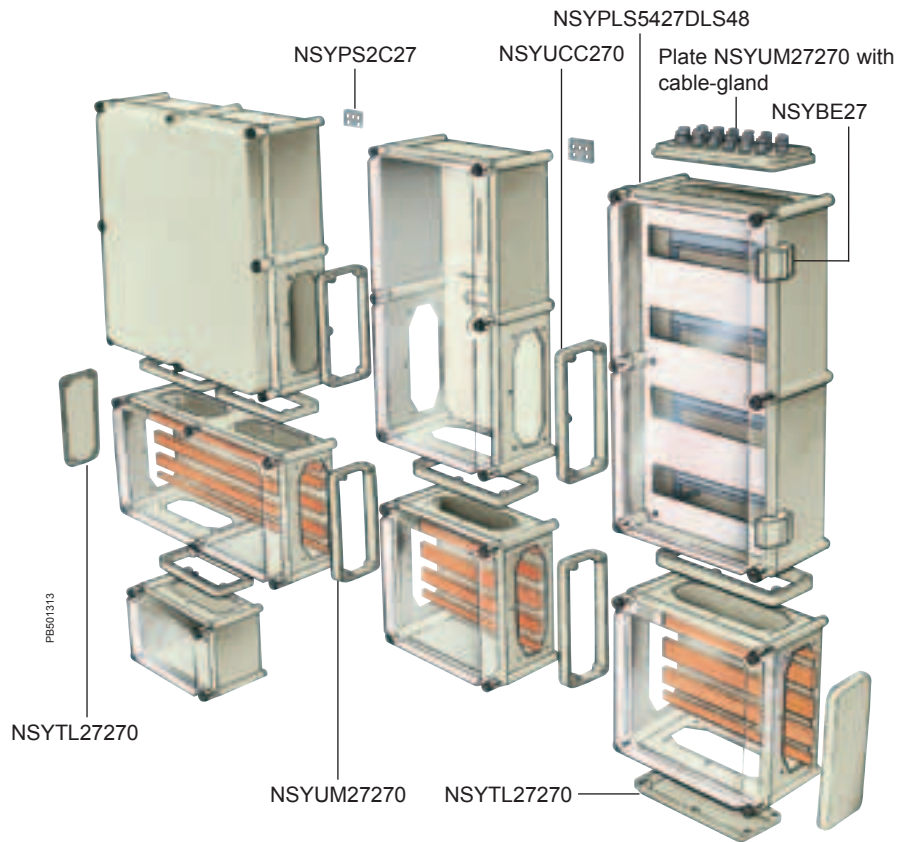
Modular access window page 487

Door window page 487

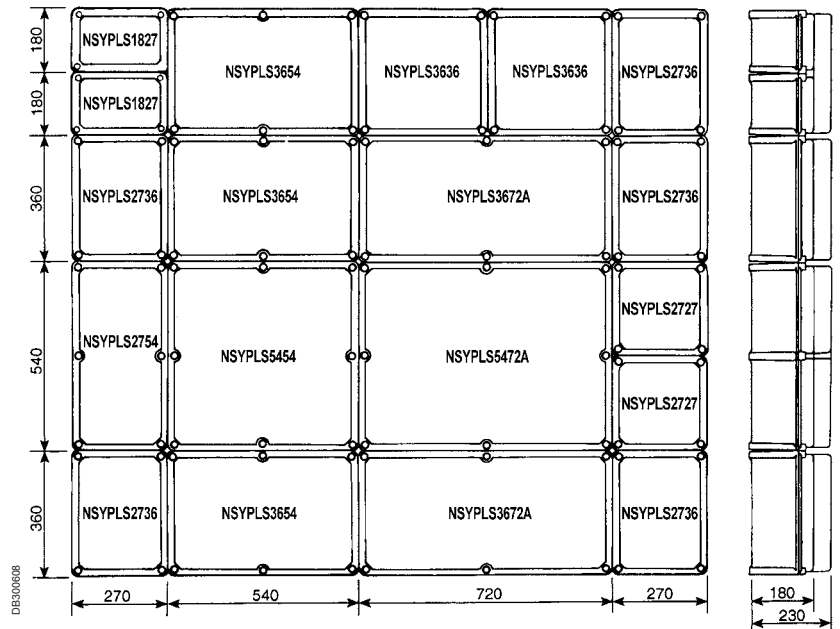
Insulating modular boxes

Accessories

Examples of assembly



All the boxes can be joined by their lateral surfaces, using the coupling frames **NSYUM...** or **NSYUCC...**, and the joining and fixing pieces **NSYPS2C27** and **NSYPS4C27**.



Insulating modular boxes

Modular distribution application



NSYPLS5427DLS48

Insulating modular boxes with modular distribution chassis

PLS boxes, polyester rear and PC transparent cover with hinges and wing screws for manual opening.

Built-in DLS modular chassis, made up of an insulating protection panel, RAL 7011 colour, 35-mm DIN rails and a 2 x 16 + 5 x 6 mm² neutral/earth connection strip.

- Opening for cable entry, delivered with lock plate, ref. **NSYTL27270**.
- Double-insulating installation.
- Plastic external hinges, allowing opening to 180°.
- Removable 36-mm blanking covers (2 modules): 1 per row in the standard offer.
- The modular chassis can be ordered separately, see references page **260**.



Specific

- The boxes can be equipped with a double-bar lock and handle ref. **NSYCL27M**, or a lock with key ref. **NSYCL27L405**, by specific demand.



See also
the accessories

Modular distribution
page **399**

Insulating modular boxes

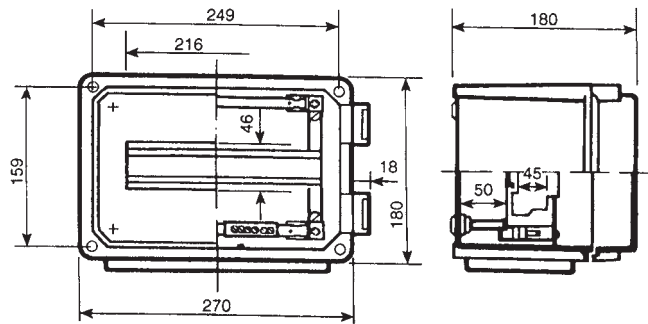
Modular distribution application

Selection guide

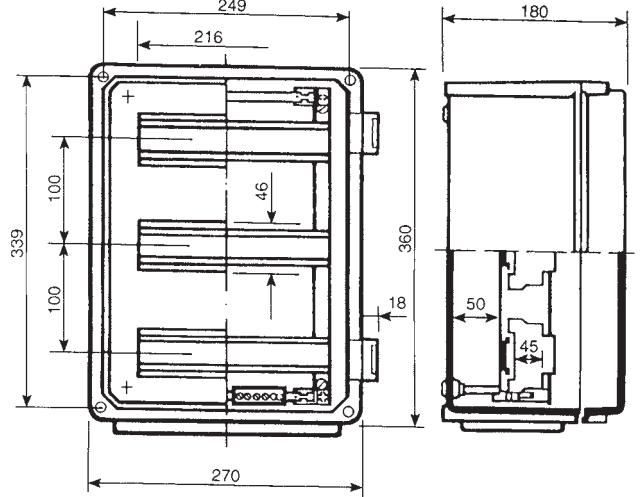
External dimensions (mm)			Number of 18 mm modules	Number of rows	Approximate weight (kg)	References
Height (A)	Width (B)	Depth (C)				
180	270	180	12	1	1.7	NSYPLS1827DLS12
270	270	180	24	2	2.5	NSYPLS2727DLS24
360	270	180	24	2	2.7	NSYPLS3627DLS24
360	270	180	36	3	2.8	NSYPLS3627DLS36
540	270	180	48	4	3.8	NSYPLS5427DLS48

Dimensions (mm)

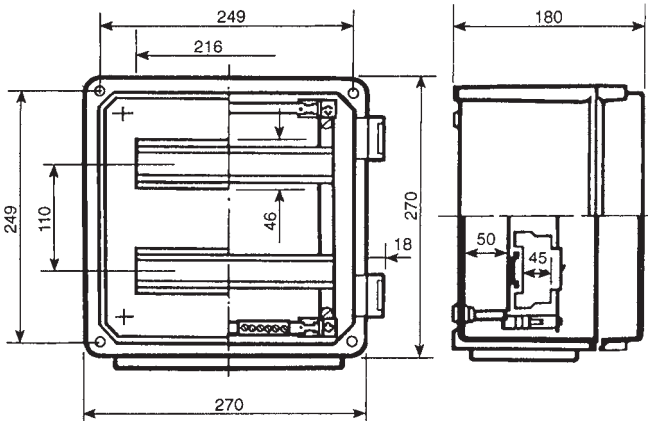
NSYPLS1827DLS12



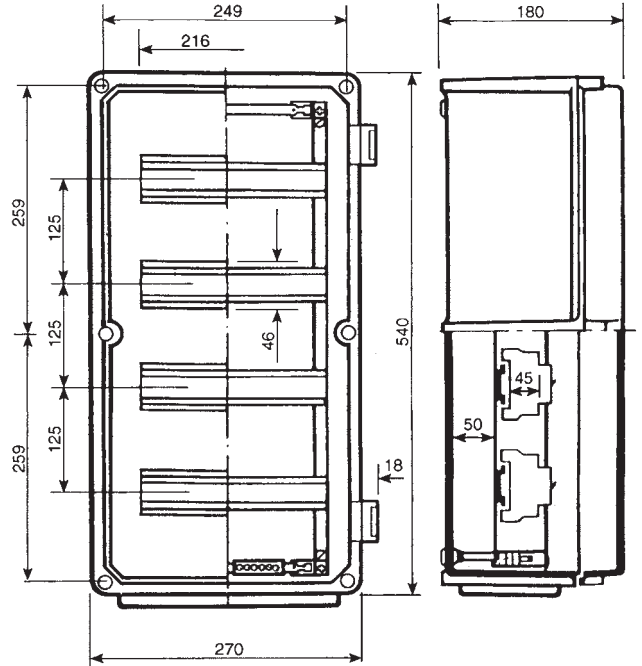
NSYPLS3627DLS36



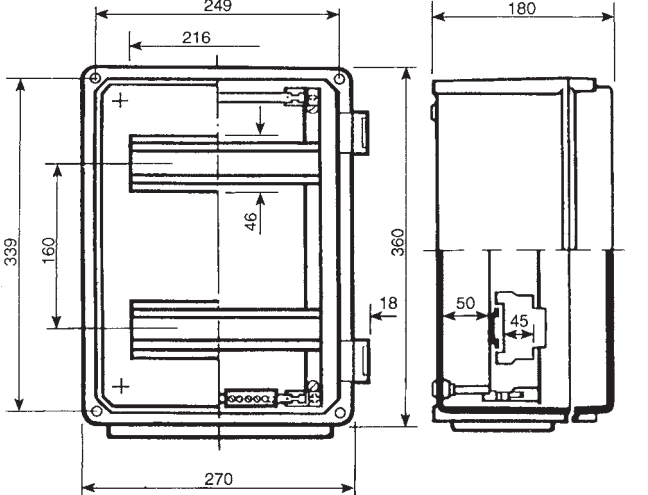
NSYPLS2727DLS24



NSYPLS5427DLS48



NSYPLS3627DLS24

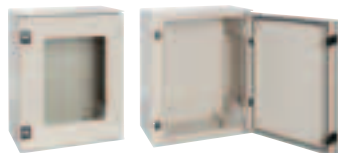


Insulating wall-mounting enclosures

Insulating wall-mounting enclosures

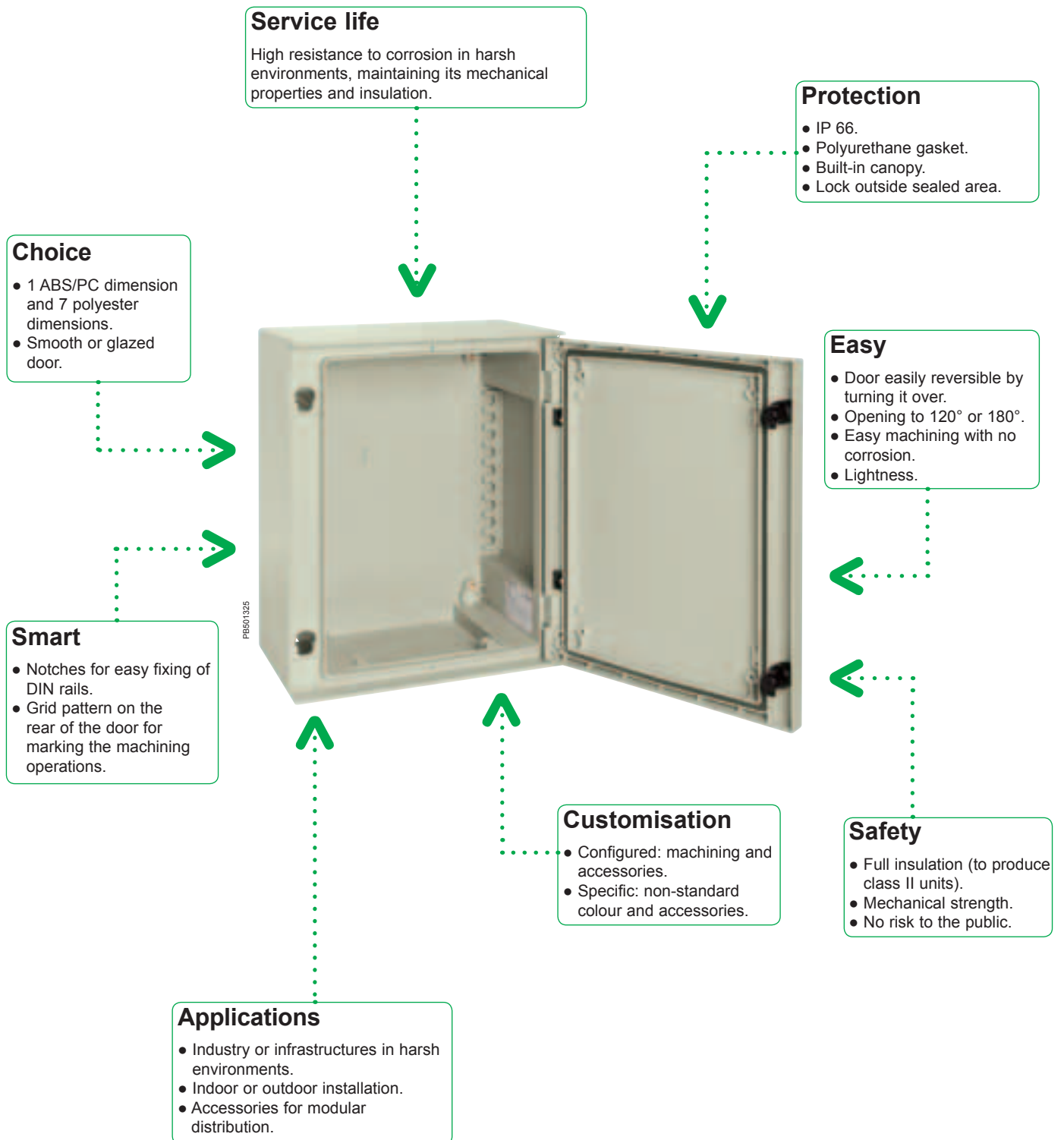
Contents

PE500076



Thalassa PLM Wall-mounting in polyester	270
Introduction	272
Dimensions	275
Selection guide	276
Accessories	278

Polyester wall-mounting enclosures



General characteristics of the Thalassa PLM wall-mounting enclosures:

- Indoor or outdoor use.
- Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure.
- 1 size for the ABS/PC wall-mounting enclosure (310 x 215 x 160 mm).
- 7 sizes of polyester wall-mounting enclosures.
- Monobloc body including the canopies (gasket protection), except for wall-mounting enclosure ref. **NSYPLM3025**.
- Doors with polyurethane gasket.
- 2 types of doors.
 - Smooth.
 - Transparent (for the ABS/PC enclosure) or glazed (for the polyester enclosures).
- Reversible door opening direction by turning the enclosure over.
- Degree of protection IP 66 according to standard IEC 60529.
- Impact resistance IK 10 for the plain doors and surfaces and IK 08 for the glazed doors of the polyester versions, according to standard IEC 62262.
- Many accessories in common with the range of steel wall-mounting enclosures, Spacial S3D or Spacial CRN.

Properties of the material of the polyester versions

The wall-mounting enclosures are made from polyester reinforced with fibreglass, moulded by hot compression, RAL 7032 colour.

This material:

- Is insulating: >15 kV per mm.
- Withstands cold and heat in the range of -50 °C...+150 °C.
- Does not soften under intense heat (ball resistance at +150 °C).
- Is self-extinguishing (does not propagate fire): HB40 classification and self-extinguishing in several seconds during the glow-wire test at 960 °C –30 sec.
- Does not contain halogens.
- Releases little smoke and no toxic smoke in the event of combustion.
- Is light.
- Can be machined easily.
- Is corrosion-resistant: no rusting, and can withstand many chemical agents.
- Can resist bad weather.

Characteristics of the production process of the polyester version

The components of the enclosure (body and doors) are moulded by hot compression: the parts have an excellent finish on both sides and can include bosses for accommodating inserts and accessories for mounting or cable management.

Certificate of conformity with enclosure standard IEC 62208 for:

IP, IK, resistance to heat and fire, insulation 5000 V, resistance to bad weather and corrosion and resistance to internal loads (150 kg/m²) and loads on the door (30 kg/m²).

UL certification and NEMA classification 4x and 13 for the polyester wall-mounting enclosures

Total insulation to produce class II units according to IEC 61439-1

Complies with RoHS and REACH Directives

ABS/PC wall-mounting enclosures 310 x 215 mm IP 66

Introduction



P6500144

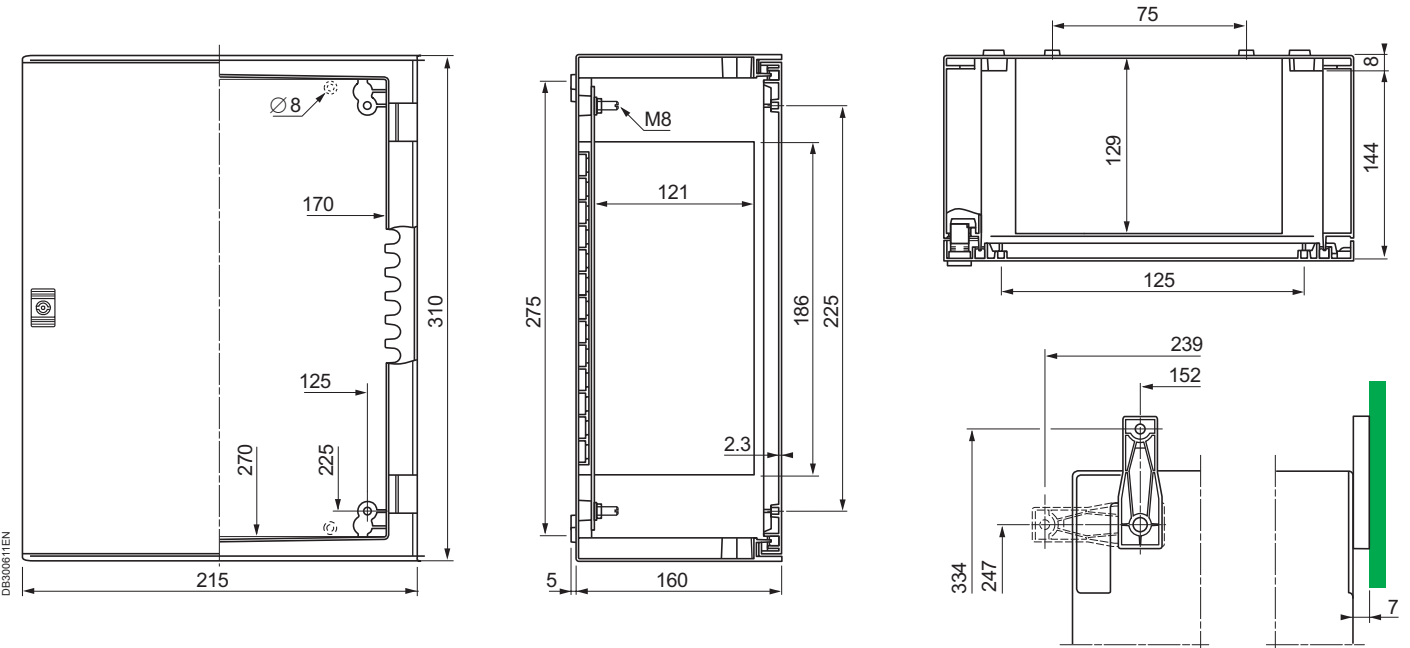
Technical characteristics

- Monobloc wall-mounting enclosure made from ABS/PC, RAL 7032 colour.
- Version with transparent polycarbonate door.
- Closes with a 3-mm double-bar lock.
- Door opening: 180°.
- Degree of protection: -35 °C...+90 °C.
- Protection rating IP 66 according to IEC 60529.
- Resistance to external mechanical impacts of IK 10 (20 joules) according to IEC 62262.
- Direct fixing of symmetrical rails ref. **NSYCS200PLM** with plastic nuts ref. **NSYCSPLM**, to be installed in the notches on the rear of the body, with a pitch of 25 mm.
- Fixing of installation plates on the studs at the rear of the enclosure.
- Back of the door with a 25-mm grid pattern.

External dimensions (mm)			References of wall-mounting enclosures with door	
Height	Width	Depth	Plain*	Transparent
310	215	160	NSYPLM32	NSYPLM32T

*These enclosures are also available equipped with metallic or insulating mounting plates. See summary guide of the references on page 276.

Dimensions



DB300611EN

Polyester wall-mounting enclosures 308 x 255 mm IP 66

Introduction



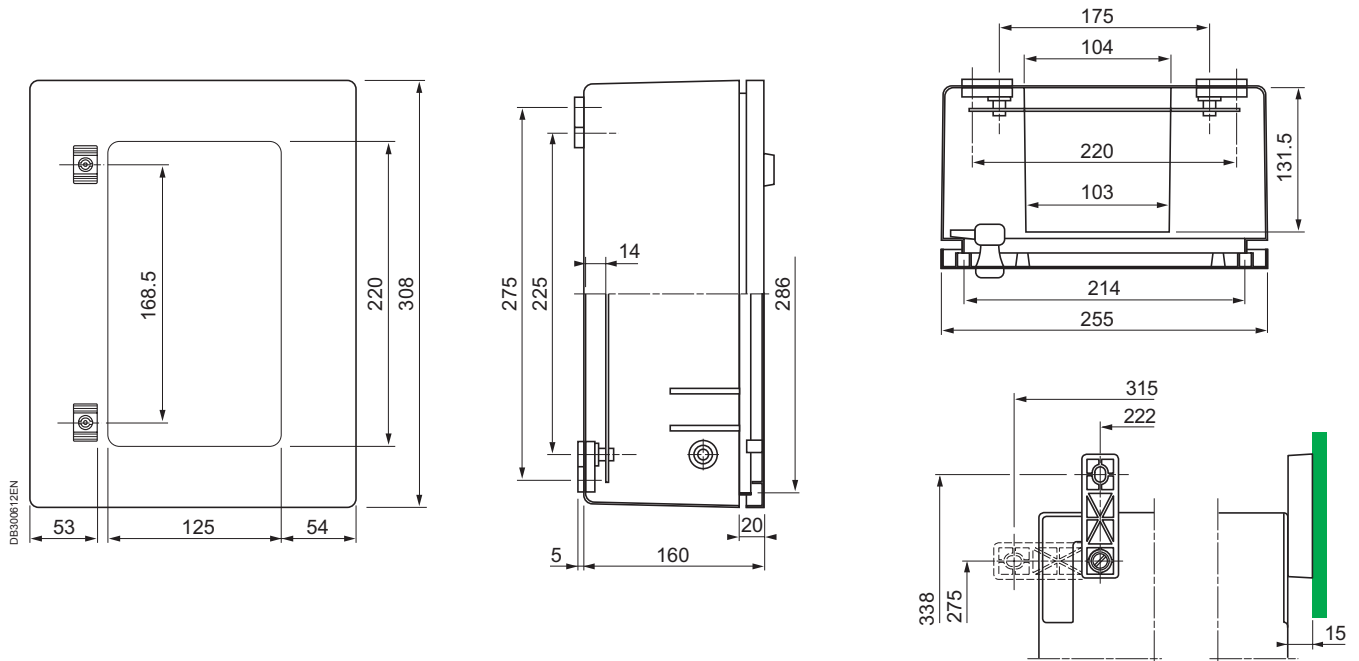
Technical characteristics

- Monobloc wall-mounting enclosure made from polyester reinforced with fibreglass, moulded by hot compression, RAL 7032 grey colour.
- Version with transparent tempered-glass door.
- Degree of protection IP 66 according to IEC 60529.
- Resistance to external mechanical impacts:
 - Plain door enclosures IK 10 (20 joules).
 - Glazed door enclosures IK 08 (5 joules) according to IEC 62262.
- Closes with two 3-mm double-bar locks.
- Door opening angle: 120°.
- Fixing of rear accessories on 4 M8 x 18 studs.
- Grid pattern with a pitch of 50 mm on the back of the door.

External dimensions (mm)			References of wall-mounting enclosures with door	
Height	Width	Depth	Plain*	Transparent
308	255	160	NSYPLM3025	NSYPLM3025T

*These enclosures are also available equipped with metallic or insulating mounting plates. See summary guide of the references on page 276.

Dimensions



Polyester wall-mounting enclosures IP 66

Introduction



Technical characteristics

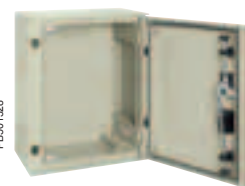
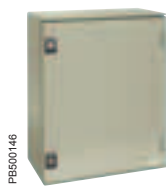
- Monobloc wall-mounting enclosure made from polyester reinforced with fibreglass, moulded by hot compression, RAL 7032 grey colour.
- Version with transparent tempered-glass door.
- Degree of protection IP 66 according to IEC 60529.
- Resistance to external mechanical impacts:
 - Plain door enclosures IK 10 (20 joules).
 - Glazed door enclosures IK 08 (5 joules) according to IEC 62262.
- Locking device outside the sealed area, guaranteeing the tightness of IP 66 over time.
- Locking system:
 - Enclosure height ≤ 847 mm: 2 locks with double-bar insert or 1 handle with key lock and 3-point closure.
 - Enclosure height 1056 mm: 1 lock with double-bar insert and 4-point closure.
- Door opening angle: 180°.
- Bosses for accessory-fixing inserts: M6 inside the enclosure, M5 in the door for enclosure heights of 430 and 530 mm, M6 in the door for enclosure heights ≥ 647 mm.
- Fixing of rear accessories on 4 M8 studs, included in the standard supply.
- Direct fixing of symmetrical rails ref. **NSYCS●●●PLM**, with plastic nuts, ref. **NSYTCSPLM**, to be installed in the notches on the rear of the body, with a pitch of 25 mm.
- Grid pattern with a pitch of 25 mm on the back of the door.



Built-in canopy protecting the door and the sealing gasket.
Two double-bar 3 mm locks outside the sealed zone.



Polyamide hinge pin, easily removable and captive.



External dimensions (mm)			References of wall-mounting enclosures with door			
Height (A)	Width (B)	Depth (C)	Plain (3)	Plain (1)	Transparent	Transparent (1)
430	330	200	NSYPLM43	NSYPLM43V	NSYPLM43T	NSYPLM43TV
530	430	200	NSYPLM54	NSYPLM54V	NSYPLM54T	NSYPLM54TV
647	436	250	NSYPLM64	NSYPLM64V	NSYPLM64T	NSYPLM64TV
747	536	300	NSYPLM75	NSYPLM75V	NSYPLM75T	NSYPLM75TV
847	636	300	NSYPLM86	NSYPLM86V	NSYPLM86T	NSYPLM86TV
1056	852	350	NSYPLM108 (2)	-	NSYPLM108T (2)	-

(1) Wall-mounting enclosure with handle and lock with 3-point closure and key 1242 E delivered as standard.

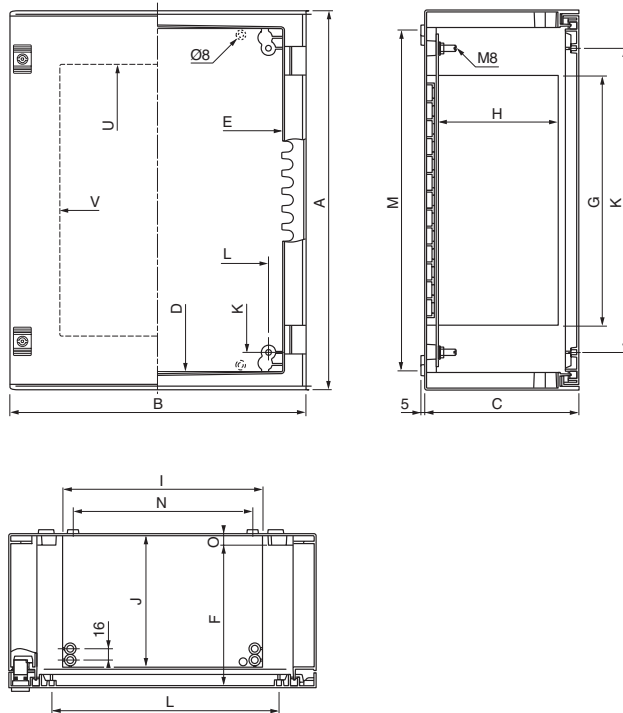
(2) Wall-mounting enclosure with standard 5 mm double-bar lock and lock with 4-point closure.

(3) These enclosures are also available equipped with metallic or insulating mounting plates. See summary guide of the references table on page 276.

Polyester wall-mounting enclosures IP 66

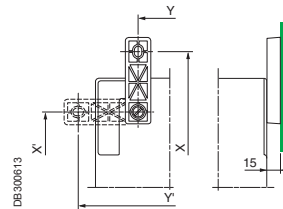
Dimensions

A: Height
B: Width
C: Depth



Dimensions (mm)										Bottom screw and door bosses (mm)		Internal fixing (mm)			References
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	
430	330	200	380	260	181	247	150	179	168	325	225	375	150	13	NSYPLM43
530	430	200	480	360	181	347	150	279	168	425	325	475	250	13	NSYPLM54
647	436	250	580	360	228	388	192	279	212	525	325	575	250	13	NSYPLM64
747	536	300	680	460	278	487	241	379	261	625	425	675	350	15	NSYPLM75
847	636	300	780	560	278	587	241	479	261	725	525	775	450	15	NSYPLM86
1056	852	350	980	760	327	775	280	680	300	925	725	975	650	15	NSYPLM108

Glazed door opening (mm)		References	Glazed door opening (mm)		References
U	V		U	V	
273	194	NSYPLM43T	273	151	NSYPLM43TV
373	294	NSYPLM54T	373	251	NSYPLM54TV
463	294	NSYPLM64T	463	252	NSYPLM64TV
563	394	NSYPLM75T	563	352	NSYPLM75TV
663	494	NSYPLM86T	663	452	NSYPLM86TV
854	661	NSYPLM108T			



External fixing with lugs (mm)				References
Vertical		Horizontal		
X	Y	X'	Y'	
490	225	355	360	NSYPLM43
590	325	455	460	NSYPLM54
690	330	555	465	NSYPLM64
790	430	655	565	NSYPLM75
890	530	755	665	NSYPLM86
1090	750	955	885	NSYPLM108

Polyester wall-mounting enclosure

Selection guide

Summary guide of the references



External dimensions (mm)			ABS/PC wall-mounting enclosures IP 66		Polyester wall-mounting enclosures IP 66				Wall-mounting enclosures with plain door and mounting plate (1)	
H	W	D	Plain door	Transp. door	Plain door	Transp. door	Plain door 3-point closure	Transp. door 3-point closure	Plain	Bakelite
			Page 272		Page 273 and 274		Page 274			
310	215	160	NSYPLM32	NSYPLM32T	-	-	-	-	NSYPLM32P	NSYPLM32B
308	255	160	-	-	NSYPLM3025	NSYPLM3025T	-	-	NSYPLM3025P	NSYPLM3025B
430	330	200	-	-	NSYPLM43	NSYPLM43T	NSYPLM43V	NSYPLM43TV	NSYPLM43P	NSYPLM43B
530	430	200	-	-	NSYPLM54	NSYPLM54T	NSYPLM54V	NSYPLM54TV	NSYPLM54P	NSYPLM54B
647	436	250	-	-	NSYPLM64	NSYPLM64T	NSYPLM64V	NSYPLM64TV	NSYPLM64P	NSYPLM64B
747	536	300	-	-	NSYPLM75	NSYPLM75T	NSYPLM75V	NSYPLM75TV	NSYPLM75P	NSYPLM75B
847	636	300	-	-	NSYPLM86	NSYPLM86T	NSYPLM86V	NSYPLM86TV	NSYPLM86P	NSYPLM86B
1056	852	350	-	-	NSYPLM108	NSYPLM108T	-	-	-	NSYPLM108B

(1) Not mounted.

Summary guide of the characteristics

References	NSYPLM32	NSYPLM3025	NSYPLM43/54/64/75/86	NSYPLM108
Dimensions (mm)	310 x 215 x 160	308 x 255 x 160	430 x 330 x 200 to 847 x 636 x 300	1056 x 852 x 350
Material	ABS/PC	Polyester	Polyester	Polyester
Degree of protection	IP 66	IP 66	IP 66	IP 66
Impact protection (1)	IK 10	IK 10	IK 10	IK 10
Built-in canopy	Yes	No	Yes	Yes
Lock (2)	1	2	2	1 (4-point closure)
Closing with handle (3)	-	-	1 (3-point closure)	-
Lock outside the sealed area	No	No	Yes	Yes
Door opening	180°	120°	180°	180°
Notches every 25 mm (4)	Yes	No	Yes	Yes
Grid pattern on the back of the door	25 mm	50 mm	25 mm	25 mm

(1) IK 08 glazed door of the polyester enclosures.

(2) With double-bar insert.

(3) Handle with insert for key 1242 E.

(4) Notches in the rear of the enclosure for quick installation of DIN rails.



Specific



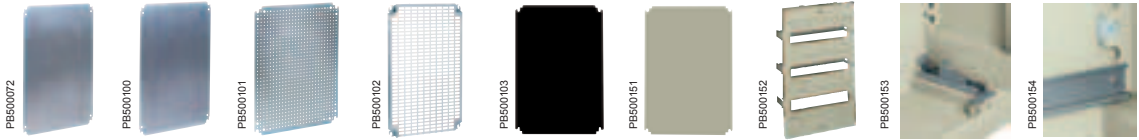
Configured

Wall-mounting enclosures with polyester mounting plate, machined or not, see customised offer.

Polyester wall-mounting enclosure

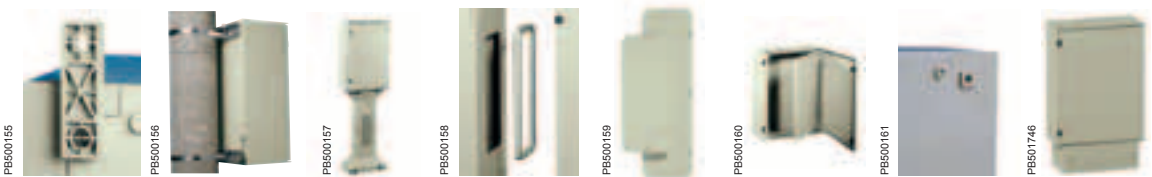
Selection guide

Mounting accessories

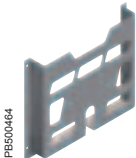

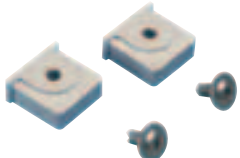



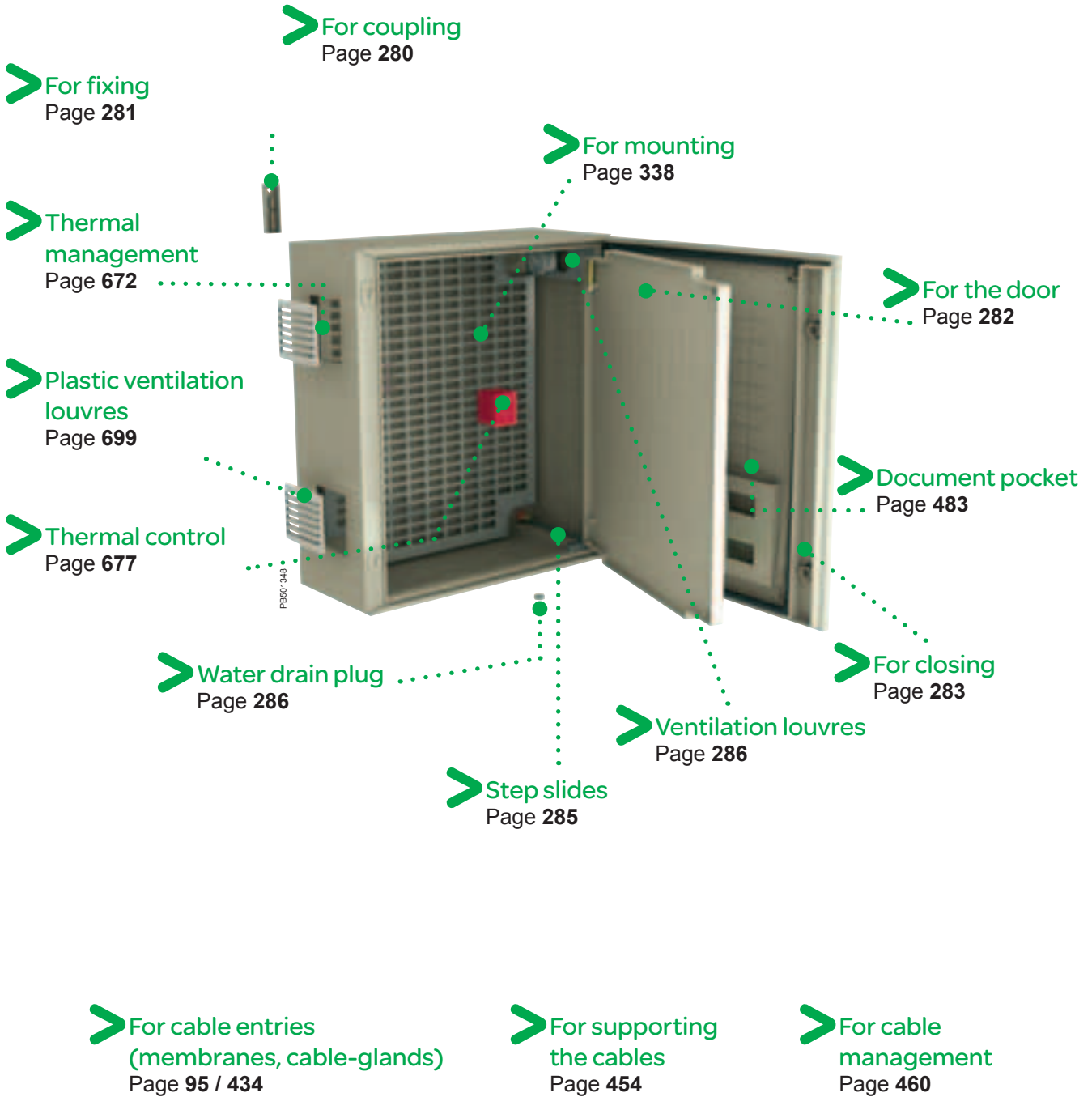
External dimensions of the enclosures (mm)			Metallic mounting plates				Insulating mounting plates		Modular distribution chassis	Step slides	Symmetrical DIN rail
H	W	D	Plain	Silkscreened	Microperforated	Telequick	Bakelite	Polyester			
			Page 338		Page 339	Page 340	Page 342		Page 287	Page 285	Page 285
310	215	160	NSYMM32	-	-	NSYMR32	NSYMB32	NSYMPP32	-	-	NSYCS200PLM
308	255	160	NSYMM3025	-	-	NSYMR3025	NSYMB3025	NSYMPP3025	NSYDLPLM18	-	-
430	330	200	NSYMM43	NSYMS43	NSYMF43	NSYMR43	NSYMB43	NSYMPP43	NSYDLA24	NSYDPLM200	NSYCS300PLM
530	430	200	NSYMM54	NSYMS54	NSYMF54	NSYMR54	NSYMB54	NSYMPP54	NSYDLA48	NSYDPLM200	NSYCS400PLM
647	436	250	NSYMM64	NSYMS64	NSYMF64	NSYMR64	NSYMB64	NSYMPP64	NSYDLA48P	NSYDPLM250	NSYCS400PLM
747	536	300	NSYMM75	NSYMS75	NSYMF75	NSYMR75	NSYMB75	NSYMPP75	NSYDLA66 and NSYDLA88	NSYDPLM300	NSYCS500PLM
847	636	300	NSYMM86	NSYMS86	NSYMF86	NSYMR86	NSYMB86	NSYMPP86	NSYDLA84 and NSYDLA112	NSYDPLM300	NSYCS600PLM
1056	852	350	NSYMM108	-	NSYMF108	NSYMR108	NSYMB108	NSYMPP108	NSYDLA234	NSYDPLM350	NSYCS800PLM

Main accessories

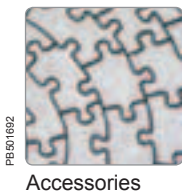
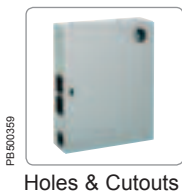
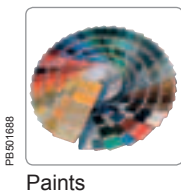


External dimensions (mm)			Fixing lugs	Post-fixing device	Floor-mounting pillar	Coupling frame	Cable-gland plate	Internal door	Blanking plates	Plinth ZM RAL 7032
H	W	D	Page 281	Page 281	Page 280	Page 280	Page 280	Page 282	Page 281	Page 279
310	215	160	NSYPFPLM32	-	-	-	-	-	NSYCEPLMA	-
308	255	160	NSYPFPLM	-	-	-	-	NSYPA3025PLM	-	-
430	330	200	NSYPFPLM	NSYSFP300	-	-	-	NSYPAP43	NSYCEPLMB	-
530	430	200	NSYPFPLM	NSYSFP400	NSYSFSPLM	-	-	NSYPAP54	NSYCEPLMB	-
647	436	250	NSYPFPLM	NSYSFP400	NSYSFSPLM	-	-	NSYPAP64	NSYCEPLMC	-
747	536	300	NSYPFPLM	NSYSFP500	-	NSYBUPLM	NSYTLA4420	NSYPAP75	NSYCEPLMC	NSYZM253
847	636	300	NSYPFPLM	NSYSFP600	-	NSYBUPLM	NSYTLA4420	NSYPAP86	NSYCEPLMC	NSYZM263
1056	852	350	NSYPFPLM	-	-	NSYBU108PLM	NSYTLA6420	NSYPAP108	-	NSYZM283

<p>Document pocket</p>  <p>Page 483</p>	<p>Water drain plug</p>  <p>Page 286</p>	<p>Rail-fixing nuts</p>  <p>Page 285</p>	<p>Ventilation louvre</p>  <p>Page 286</p>
---	--	---	--



Customised service: All standard dimensions from our catalogue on request and more...



Composition accessories

Base accessories



ZM plinth for PLM enclosure

Designed to support and raise enclosures NSYPLM75, NSYPLM86 and NSYPLM108.

- Polyester material reinforced with fibreglass, moulded by hot compression.
- Guarantees total insulation according to IEC 61439-1.
- Ensures a degree of protection of IP 44 and impact resistance of IK 10.
- Plinth height of 200 mm; stackable to obtain a 400-mm plinth.
- Four floor-attachment points; the symmetry of the parts prevents incorrect assembly.

The frontal parts of the plinth (front and rear) have two stainless-steel screws protected by a plastic cap; these screws make it possible (using an Allen key) to open and remove the frontal parts for easier cable installation.

In stacked position, the bottom plinth can be partially buried.

It is provided with one transverse reinforcement rail, adjustable to adapt to the position of the cables.

The reference of the plinth contains all the accessories required for attaching the enclosure to the plinth and for stacking two plinths.

For enclosure				Plinth				Cabling area	
Height	Width	Depth	Reference	Height	Width	Depth	Reference	Width	Depth
747	536	300	NSYPLM75	200	456	302	NSYZM253	256	252
847	636	300	NSYPLM86	200	556	302	NSYZM263	356	252
1056	852	350	NSYPLM108	200	772	352	NSYZM283	572	302



Cable supporting cross-rail

The lateral sides of the plinths are provided with bosses for attaching cross-rails with cut-out profiles, for supporting cables.

The reference of the cross-rail includes all the elements required for assembly.

For plinth	Cross-rail
NSYZM253	NSYAC280
NSYZM263	NSYAC360
NSYZM283	NSYAC600

Kit for IP 54

Makes it possible to obtain IP 54 for the plinth and the plinth-enclosure coupling. Ref. **NSYAEPZM**.

Feet for partially buried installation

Allows the partially buried installation of plinths before completion of the floor.

The plinths are attached by four feet with a standard length of 750 mm.

Possibility of horizontal adjustment of the plinth.

The reference includes a kit made up of four feet and fixings.

Ref. **NSYAEBFZ**.



PE500158



Coupling accessories

Coupling frame

- Allows the lateral coupling of 2 enclosures.
- Polyester frame, RAL 7032 colour and fixings.
- A built-in sealing gasket guarantees a protection rating of IP 66.

External dimensions (mm)	Entry	For wall-mounting enclosure	References
435 x 185 x 15	398 x 148	NSYPLM75 and NSYPLM86	NSYBUPLM
635 x 185 x 15	598 x 148	NSYPLM108	NSYBU108PLM

Base accessories

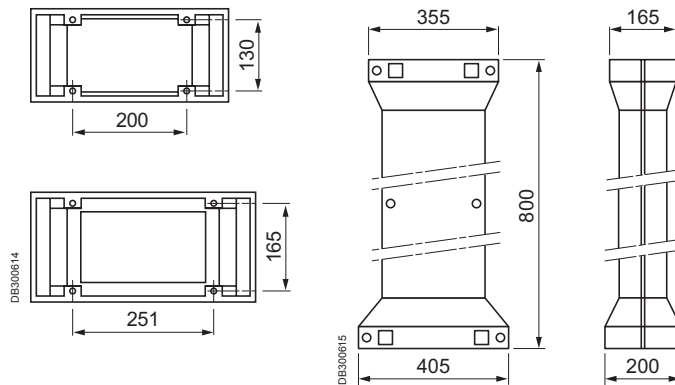
Floor-mounting pillar

- To protect cables entering the enclosure in outdoor installations.
- Material: polyester reinforced with fibreglass. RAL 7032 grey colour.
- Delivered with steel frame for secure fixing to the floor.
- Cable entry section: 165 x 100 mm.
- For enclosures ref. **NSYPLM54**, **NSYPLM54T**, **NSYPLM64** and **NSYPLM64T**.

Name	Reference
Floor-mounting pillar	NSYSFSPLM



PB501333



Cable-entry accessories

Cable-gland plates

- Material: polyester.
- Dimensions: 435 x 185 mm and 635 x 185 mm.

For wall-mounting enclosures	References
NSYPLM75 and NSYPLM86	NSYTLA4420
NSYPLM108	NSYTLA6420

PE500159



See also the accessories

Cable management
Cable entries
page 435

Composition accessories

Fixing accessories



PE501330

The enclosures can be mounted directly on the walls. The seals and caps supplied as standard with the enclosure guarantee that it maintains its degrees of protection and insulation.



PE501331

NSYPFPLM32



PE500155

NSYPFPLM



PE501332

NSYPFXPLM

Wall-fixing lugs

- Set of 4 wall-fixing lugs.
- Mounted directly on the enclosure, either in horizontal position or in vertical position.
- Available in 2 versions, polyamide loaded with fibreglass or stainless steel.
- Delivered with fixings.
- Acceptable load of 300 kg in vertical position and 100 kg in horizontal position.

Material	References
Polyamide	NSYPFPLM (1)
Stainless steel	NSYPFXPLM (1)

(1) Single reference in polyamide, ref. **NSYPFPLM32**, for enclosure ref. **NSYPLM32** and **NSYPLM32T**.



PE500156

Post-fixing device

- For outdoor installations on a post with a maximum circumference of 675 mm, Ø 215 mm.
- Material: galvanised steel.
- Supply of the rail, the strips and the fixings.
Maximum load: 100 kg.

For wall-mounting enclosure	References
NSYPLM43	NSYSFP300 (1)
NSYPLM54 and NSYPLM64	NSYSFP400
NSYPLM75	NSYSFP500
NSYPLM86	NSYSFP600

(1) **NSYSFP300** can be used for fixation of **NSYPLM32**; the length of the cross rail is slightly larger than enclosure.



PE501334

Blanking plates

- Made from thermoplastic material, they are positioned on the rear surface of the enclosures to block the openings in the corners in order to improve their appearance or prevent the entry of unwanted elements in the ventilation shaft.
- Supplied as standard for enclosure, ref. **NSYPLM108**.

For wall-mounting enclosure	References
NSYPLM32	NSYCEPLMA
NSYPLM43 and NSYPLM54	NSYCEPLMB
NSYPLM64, 75 and 86	NSYCEPLMC

Composition accessories

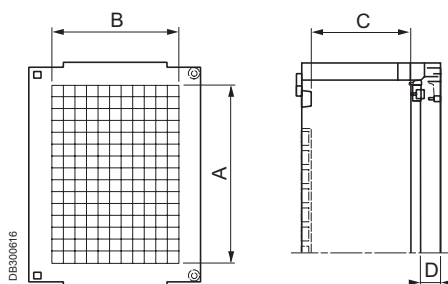
Door and door accessories



PB501335

Internal door

- Reversible door made from polyester reinforced with fibreglass, self-extinguishing, RAL 7032 grey.
- Grid pattern with a pitch of 25 mm for easier marking out before drilling.
- Closes with 2 double-bar locks.
- Door handle.
- Delivered with fixings and brass inserts.
- Steel internal door, without grid pattern and locking by a screw, for enclosures ref. **NSYPLM3025**.
- Incompatible with the modular distribution chassis.



For wall-mounting enclosure (mm)		Dimensions (mm)					References
Height	Width	A	B	C	Plain door	Transp. door	
					D	D	
308	255	248	165	62	76	71	NSYPA3025PLM
430	330	315	205	152	26	21	NSYPAP43
530	430	415	305	152	26	21	NSYPAP54
645	435	515	305	194	32	27	NSYPAP64
745	535	615	405	244	32	27	NSYPAP75
845	635	715	505	244	32	27	NSYPAP86
1055	850	850	650	269	37	32	NSYPAP108

Composition accessories

Locking system



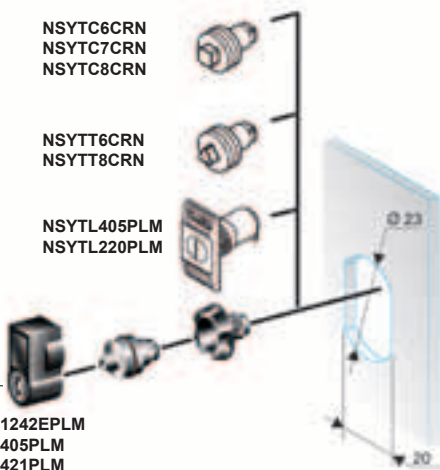
Locks and inserts for enclosures with H ≤ 847 mm

- The ABS/PC 310 x 215 mm enclosure is supplied with a lock with a double-bar insert as standard.
- The 308 x 255 mm enclosure is supplied with two locks with a double-bar insert as standard.
- The polyester enclosures from 430 to 847 mm high are delivered as standard with:
 - 2 locks with double-bar insert, ref. **NSYCDBPLM**.
 - Or a 3-point closure with handle and lock with key 1242 E (enclosures **NSYPLM●●V**).
- Double-bar insert ref. **NSYTDBCRN**, is placed in a rectangular escutcheon.
- A plastic key, ref. **NSYDBP**, enabling the opening of the double-bar insert, is included in the standard supply. This key can be fixed to the double-bar system to remain on the enclosure and be used as a handle.

NSYTC6CRN
NSYTC7CRN
NSYTC8CRN

NSYTT6CRN
NSYTT8CRN

NSYTL405PLM
NSYTL220PLM



NSYTHL1242EPLM
NSYTHL405PLM
NSYTHL421PLM
NSYTHL455PLM
NSYTHL2331APLM
NSYTHL2433APLM
NSYTHL3113APLM
NSYTHPLM

Options to transform the locks with double-bar inserts

- Changing the shape inserts for locks with keys according to the following table:

Name	References
6 mm male square	NSYTC6CRN
7 mm male square	NSYTC7CRN
8 mm male square	NSYTC8CRN
6.5 mm male triangle	NSYTT6CRN
8 mm male triangle	NSYTT8CRN
Lock and key 405	NSYTL405PLM
Lock and key 220	NSYTL220PLM

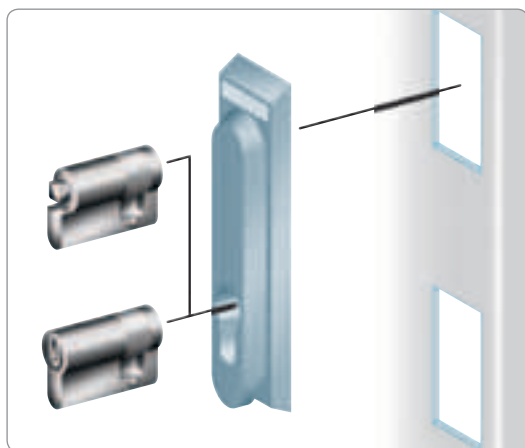
- Replacement for locking handle with cylindrical barrel, delivered with all the parts required to change the lock.

Type of barrel	References
Key 1242 E	NSYTHL1242EPLM
Key 405	NSYTHL405PLM
Key 421	NSYTHL421PLM
Key 455	NSYTHL455PLM
Key 2331 A	NSYTHL2331APLM
Key 2433 A	NSYTHL2433APLM
Key 3113 A	NSYTHL3113APLM
Manual	NSYTHPLM

Options to transform versions NSYPLM●●V, with retractable handle and 3-point closure

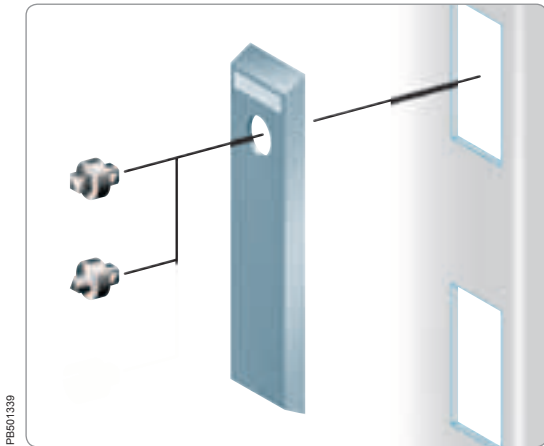
- Transformation of the standard insert (barrel for key 1242E, ref. **NSYTL1242EME**) for other shape inserts or barrels according to the following table:

Name	References
5 mm double bar	NSYTDB5ME
6 mm male square	NSYTC6ME
7 mm male square	NSYTC7ME
8 mm male square	NSYTC8ME
6.5 mm male triangle	NSYTT6ME
8 mm male triangle	NSYTT8ME
Barrel and key 405	NSYTCL405ME
Reinforced key and barrel	NSYTLRME
JIS key and barrel	NSYTLJISME
Manual	NSYTMME



Composition accessories

Locking system



PE901339

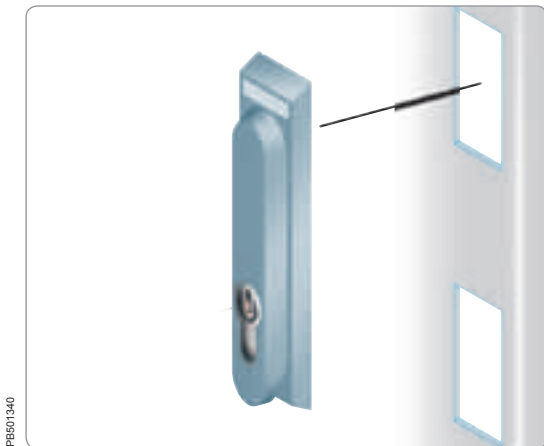
Locks and inserts for enclosures NSYPLM108/T

- Enclosures delivered as standard with 5 mm double-bar insert.
- Insert ref. **NSYTDB5PL**, placed in a long rectangular escutcheon, activates a 4-point closure system.

Options to transform the insert

- The standard insert can be replaced with other shape inserts, according to the following table:

Name	References
6 mm male square	NSYTC6PL
7 mm male square	NSYTC7PL
8 mm male square	NSYTC8PL
6.5 mm male triangle	NSYTT6PL
7 mm male triangle	NSYTT7PL
8 mm male triangle	NSYTT8PL



PE901340

Options to transform for a retractable handle

- The escutcheon and rosette assembly can be replaced with a lock with retractable handle equipped with inserts or barrels, according to the following table:

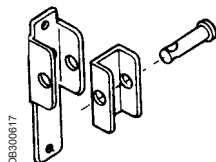
Name	References
5 mm double bar	NSYTDB5PL
6 mm male square	NSYTEC6PL
7 mm male square	NSYTEC7PL
8 mm male square	NSYTEC8PL
6.5 mm male triangle	NSYTET6PL
7 mm male triangle	NSYTET7PL
8 mm male triangle	NSYTET8PL
Lock key 1242 E	NSYTEL1242EPL
Barrel and key 405	NSYTEL405PL
Reinforced key and barrel	NSYTERPL
JIS key and barrel	NSYTELJISPL
FAC key and barrel	NSYTELFACPL
Manual	NSYTEMPL



PE901341

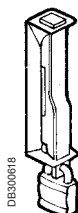
Padlocking accessories

- Padlocking system, ref. **NSYKPLM**, positioned around the rectangular escutcheon of the enclosures with a height of ≤ 847 mm to block access to the lock; for a $\varnothing 9$ mm padlock.



DE300617

- Padlocking system, ref. **NSYBCPL**, positioned around the long rectangular escutcheon of the enclosures ref. **NSYPLM108/T**, to block access to the lock; for a $\varnothing 9$ mm padlock.



DE300618

- Padlocking system, ref. **NSYBCME**, to block access to the retractable handle, for the versions **NSYPLM●●V** or optionally for enclosures ref. **NSYPLM108/T**, for a $\varnothing 9$ mm padlock.



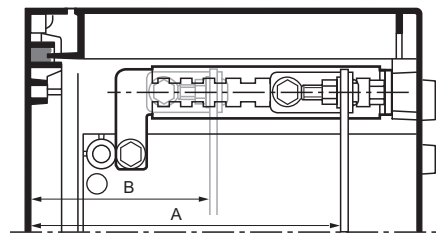
PB500149

Step slides

For depth adjustment of the mounting plate

- Kit including 4 step slides with brackets, allowing depth adjustment with a pitch of 12.5 mm, and the fixings required for the installation.
- Material: galvanised steel.
- Incompatible with the modular distribution chassis.

For wall mounting enclosure	Depth adjustment		References	
	Depth (mm)	Dimension A (mm)		Dimension B (mm)
	200	156	94	NSYDPLM200
	250	200	100	NSYDPLM250
	300	250	100	NSYDPLM300
	350	306	106	NSYDPLM350

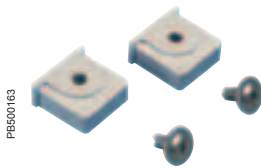


DB300819

Plastic nuts for rail fixing

- They slide directly into the notches, with a pitch of 25 mm, which are located on the rear of the enclosures, except enclosure ref. **NSYPLM3025/T**. They allow direct fixing of symmetrical DIN rails by self-tapping screws. Option of raising the rails with an M6 spacer using a plastic nut containing an M6 nut.

References by unit. Order by multiples of 20 units (20, 40, 60, etc.).



PB500163

Name	References
Plastic nut with self-tapping screw	NSYTCSPLM
Plastic nut containing an M6 metal nut	NSYTCSM6PLM



PB501342

35 mm symmetrical DIN rails

- They are fixed to the rear of the enclosure without uprights, with a pitch of 25 mm for the notches on the rear of the enclosure, with the help of direct-fixing nuts ref. **NSYTCSPLM** or **NSYTCSM6PLM**.
- Treated steel.

References by unit. Order by multiples of 2 units (2, 4, 6, etc.).

Rail length (mm)	For wall mounting enclosure	References
	Width (mm)	
180	215	NSYCS200PLM
280	330	NSYCS300PLM
380	430 / 436	NSYCS400PLM
480	536	NSYCS500PLM
580	636	NSYCS600PLM
795	852	NSYCS800PLM



See also the accessories

Vertical rails page 345

Rails page 379

Screws page 391

Cable management
Cable holding page 454



Fixing inserts

- Expanding inserts for addition to the M6 bosses of the enclosure, the M5 or M6 bosses of the door and the M8 bosses of the external rear part of the enclosure.
- M5 and M6 inserts to be ordered in multiples of 20.

References by unit. Order by multiples of 8 units (8, 16, 24, etc.).

Insert size	For wall-mounting enclosure	References
M5	NSYPLM43 and NSYPLM54	NSYTEX5
M6	NSYPLM64 and NSYPLM108	NSYTEX6
M8	For the rear of the enclosure	NSYTEX8



Ventilation louvres

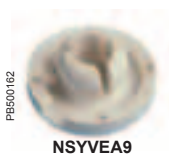
- They can be positioned inside the wall-mounting enclosures with heights of 430 to 846 mm, allowing ventilation through the channels of the enclosure.
- The IP on the rear of the enclosures is IP 44.

References by unit. Order by multiples of 2 units (2, 4, 6, etc.).

Name	Reference
Ventilation louvres	NSYCAG35LP



Ventilation louvres, airing devices with filters, fans and thermal adjustment accessories, see ClimaSys section.



Water drain plug

- For drainage of condensation water.
- It is placed in the Ø 9 mm housing at the bottom of the enclosure.
- IP 55.

References by unit. Order by multiples of 10 units (10, 20, 30, etc.).

Name	Reference
Water drain plug	NSYVEA9



Renovation and anti-graffiti paint

- Paint system with 2 components (base 80% + hardener 20%), specially designed for polyester enclosures, for their renovation and/or as prevention to allow easy removal of graffiti.
- The 1 kg reference includes 1 pot with 800 g of base paint and 200 g of hardener. It is enough to paint a surface of around 5 m².
- The 5 kg reference includes 1 pot with 4 kg of base paint and 1 kg of hardener. It is enough to paint a surface of around 25 m².
- RAL 7032 colour.
- Solvent for diluting the paint and cleaning the utensils.

Name	References
Anti-graffiti paint 1 kg	NSYAUPG1
Anti-graffiti paint 5 kg	NSYAUPG5
Anti-graffiti paint solvent 500 g	NSYAUPGS



See also the accessories

Power distribution rails
page 474

Lighting
page 473



PB501344



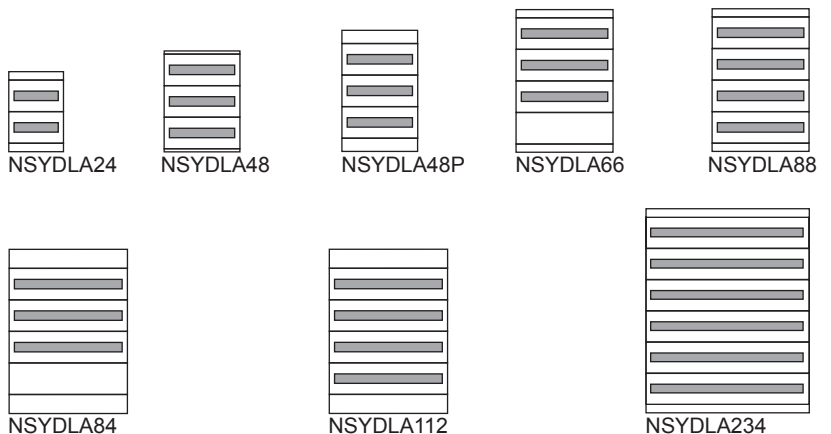
* Minimum depth 200 mm.

Technical characteristics

Dinimel DLA modular chassis

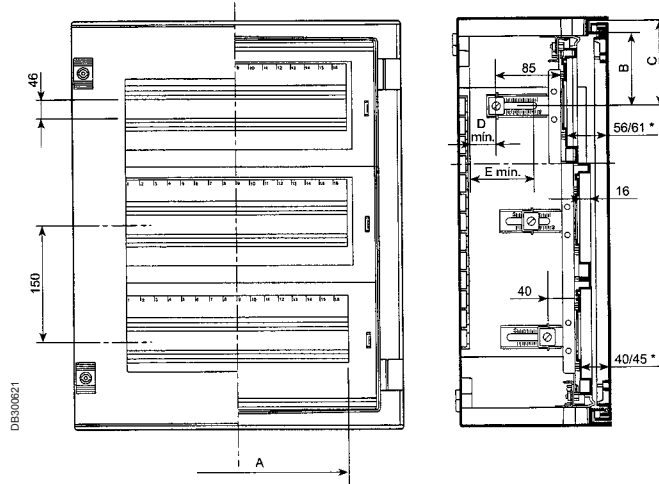
- Front panels and finish covers, made from self-extinguishing insulating material RAL 7032 colour. Rigid galvanised-steel structure, for the installation of modular devices.
- Front panels and covers installed in the front part, are not depth adjustable.
- Open front panels with 35 mm DIN rail and plain front panels with mounting plate, according to the model.
- Quick installation with no fixings.
- Shoulder height adjustable from 40 to 85 mm.
- System for standard circuit marking.
- Incompatible with the internal doors and the step slides.
- Neutral / earth strip: 2 x 16 mm² + 5 x 6 mm².

Dimensions (mm)					Distribution rows				For installation in the enclosures				References
A	B	C	D min.	E min.	N° of useful rows	No. of 18 mm modules per row	No. of 18 mm modules	No. of plates	PLM enclosure		S3D (depth ≥ 200 mm) or CRN enclosure		
									References		Height	Width	
216	115	137	38	88	2	12	24	–	NSYPLM43	NSYPLM43T	400	300	NSYDLA24
286	90	112	38	88	3	16	48	–	NSYPLM54	NSYPLM54T	500	400	NSYDLA48
286	140	170	80	130	3	16	48	–	NSYPLM64	NSYPLM64T	600	400	NSYDLA48P
395	115	145	129	179	3	22	66	1	NSYPLM75	NSYPLM75T	700	500	NSYDLA66
395	115	145	129	179	4	22	88	–	NSYPLM75	NSYPLM75T	700	500	NSYDLA88
504	165	195	129	179	3	28	84	1	NSYPLM86	NSYPLM86T	800	600	NSYDLA84
504	165	195	129	179	4	28	112	–	NSYPLM86	NSYPLM86T	800	600	NSYDLA112
704	115	146	170	220	6	39	234	–	NSYPLM108	NSYPLM108T	1000	800	NSYDLA234



DB 300620

Dimensions (mm)



* Models NSYDLA48P, 66, 88, 84 and 112.

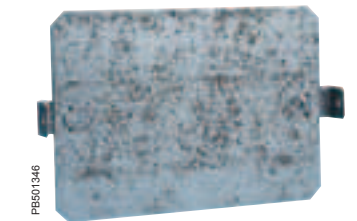


PB601345

Plain front panels for Dinimel DLA chassis

- Front panel made from RAL 7032 self-extinguishing insulating material for non-modular device protection, on one row.
- To be ordered in multiples of 2.

For installing on the chassis	Width (mm)	References
NSYDLA24	256	NSYCTL300DLA
NSYDLA48 and NSYDLA48P	356	NSYCTL400DLA
NSYDLA66 and NSYDLA88	456	NSYCTL500DLA
NSYDLA84 and NSYDLA112	555	NSYCTL600DLA
NSYDLA234	755	NSYCTL800DLA



PB601346

Mounting plate for Dinimel DLA chassis

- Galvanised-steel mounting plate for mounting non-modular devices, on one row.
- To be ordered in multiples of 2.

For installing on the chassis	Width (mm)	References
NSYDLA48 and NSYDLA48P	315	NSYPMP400DLA
NSYDLA66 and NSYDLA88	415	NSYPMP500DLA
NSYDLA84 and NSYDLA112	514	NSYPMP600DLA
NSYDLA234	714	NSYPMP800DLA

Modular distribution chassis for enclosure ref. PLM3025/T

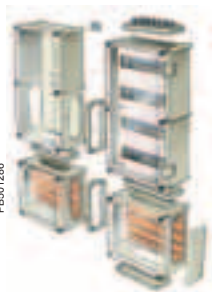
- Metal chassis and protective plate in insulating material.
- For mounting modular devices on two rows of nine 18-mm modules.

Name	Reference
Modular distribution chassis	NSYDLPLM18



See also
the accessories

Modular distribution
accessories
page 399



PB501286

Machined, coupled and equipped Thalassa PLS boxes



PB501287

Thalassa PLM wall-mounting enclosure machined in the factory to accommodate cable glands



PB501288

Thalassa PLA floor-standing enclosure with accessories installed in the factory



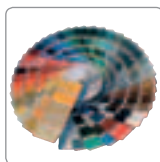
PB501289

Coupled Thalassa PLA floor-standing enclosures with accessories installed in the factory

Customised service: All standard dimensions from our catalogue on request and more...



Specific



PB501688

Paints



PB500359

Holes & Cutouts



PB501690

Mounting



PB501691

Construction changes



PB501692

Accessories

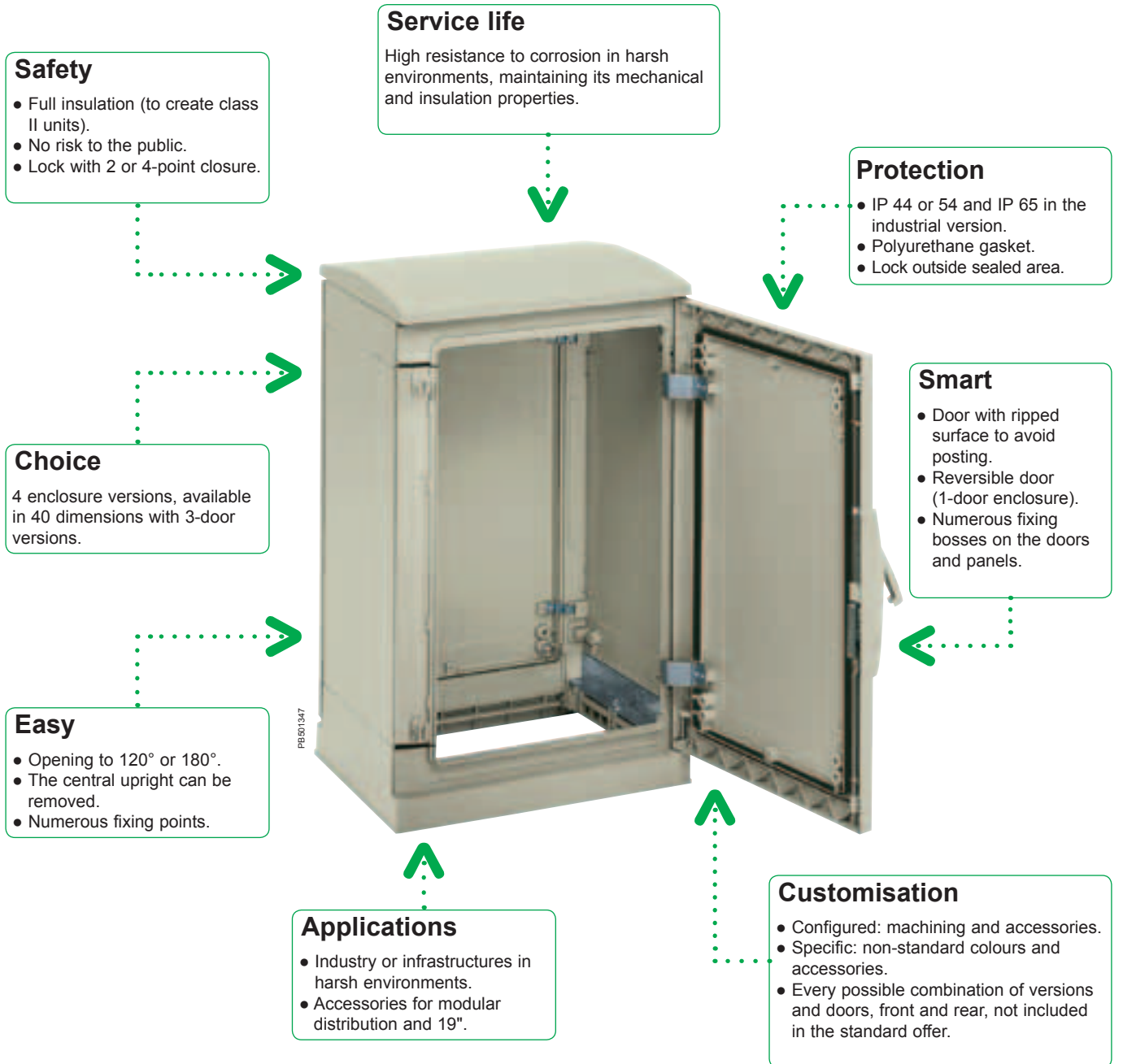
Insulating floor-standing enclosures

Insulating floor-standing enclosures

Contents

		Thalassa PLA Floor-standing in polyester	292
			
		PLA version: Completely sealed enclosure	294
			
		PLAT version: Ventilated canopy	295
			
		PLAZ version: Plinth-type open bottom	296
			
		PLAZT version: Plinth-type open bottom and ventilated canopy	297
		Dimensions	298
		Accessories	300
<hr/>			
		Thalassa PLD Floor-standing DIN in polyester	327
			
		Introduction	328
		Dimensions	330
		Accessories	331

Polyester floor-standing enclosures



General characteristics of the floor-standing enclosure

- Indoor or outdoor use.
- 4 versions:
 - Completely sealed enclosure (PLA version).
 - Enclosure with ventilated canopy (PLAT version).
 - Enclosure with plinth-type open bottom (PLAZ version).
 - Enclosure with plinth-type open bottom and ventilated canopy (PLAZT version).
- Note: The first letters of the references relate to the version.
- 40 dimensions:
 - 5 heights: 500, 750, 1000, 1250, 1500 mm.
 - 4 widths: 500 and 750 (1 door), 1000 and 1250 mm (2 doors).
 - 2 depths: 320 and 420 mm.
- Note: The figures included in the references of the enclosures and products of the range represent the dimension in dm of the product in question.
- The 2-door enclosures comprise a central upright, which can be removed in certain conditions. Please contact us.
- 3 types of door:
 - Plain door.
 - Door with transparent window (index T at the end of the reference).
 - Door with anti-posting surface (index R at the end of the reference).
- Protection degree IP 65 or IP 54 according to standard IEC 60529.
- Impact resistance IK 10 for the plain doors and all sides and IK 08 for the glazed door.
- Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure.
- 2-point closure for heights of 500 and 750 mm and 4-point closure points for heights \geq 1000 mm.

Characteristics of the material

The floor-standing enclosures are made from polyester reinforced with fibreglass, moulded by hot compression, RAL 7032 grey. This material:

- Is insulating: > 15 kV per mm.
- Can be machined easily.
- Is resistant to corrosion: does not rust and can withstand many chemical substances.
- Resists bad weather (rain, UV).
- Withstands cold and heat in the range of -50 °C... $+150$ °C.
- Does not soften under heat (ball resistance at $+150$ °C).
- Is self-extinguishing (does not propagate fire: HB40 classification and self-extinguishing in several seconds during the glow-wire test at 960 °C during 30 s.).
- Does not contain halogens.
- Releases little smoke and nontoxic smoke in the case of combustion.
- Is light.

Characteristics of the production process

The components of the enclosures (the various sides and doors) are moulded by hot compression: the pieces have an excellent finish on both sides and can include numerous bosses for accommodating inserts and mounting or cable management accessories.

Complies with enclosure standard IEC 62208 for:

IP, IK, resistance to heat and fire, insulation 5000 V, resistance to bad weather and corrosion and resistance to internal loads (150 kg/m²) and loads on the door (30 kg/m²).

Full insulation to create class II units according to IEC 64139-1

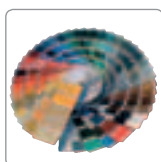
UL certification and NEMA classification 4X, 5, 12 and 13, depending on the version

Complies with RoHS and REACH Directives

Customised service: All standard dimensions from our catalogue on request and more...



Specific



PB501688

Paints



PB500359

Holes & Cutouts



PB501680

Mounting



PB501691

Construction changes



PB501692

Accessories

Completely sealed enclosures, IP 65

Introduction



PB501363

Completely sealed enclosure with plain door.



PB501364

Transparent door made from polyester and tempered glass.



PB501192

Escutcheon with double-bar insert.

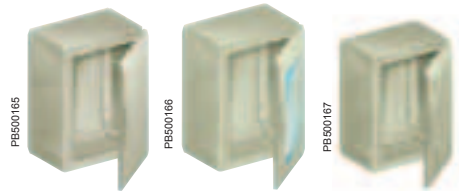


PB501365

Detail from the internal locking system.

Characteristics of the PLA version

- Enclosure obtained by assembling:
 - 1 sealed top part.
 - 1 sealed bottom part.
 - 2 side parts.
 - 1 or 2 rear panels (according to width).
 - 1 or 2 doors (according to width).
- Indoor use.
- Outdoor use possible with a canopy (to be ordered separately).
- Protection degree IP 65 according to IEC 60529.
- Locking system with escutcheon and 5-mm double-bar insert, included in the standard supply. Other inserts or locks with handles optionally available.
- Door opening to 120°.
- Direct fixing to the floor or by means of a plinth with a height of 60 mm, as an option, see page 305.
- Possibility of fixing on a semi-embedded plinth, see page 306.
- Optional wall-fixing lugs.



PB500165

PB500166

PB500167

External dimensions (mm)				References of enclosures with door		
Height	Width	Depth	N° of doors	Plain	Glazed	Anti-posting
500	500	320	1	NSYPLA553	NSYPLA553T	NSYPLA553R
500	500	420	1	NSYPLA554	NSYPLA554T	NSYPLA554R
500	750	320	1	NSYPLA573	NSYPLA573T	NSYPLA573R
500	750	420	1	NSYPLA574	NSYPLA574T	NSYPLA574R
500	1000	320	2	NSYPLA5103	NSYPLA5103T	NSYPLA5103R
500	1000	420	2	NSYPLA5104	NSYPLA5104T	NSYPLA5104R
500	1250	320	2	NSYPLA5123	NSYPLA5123T	NSYPLA5123R
500	1250	420	2	NSYPLA5124	NSYPLA5124T	NSYPLA5124R
750	500	320	1	NSYPLA753	NSYPLA753T	NSYPLA753R
750	500	420	1	NSYPLA754	NSYPLA754T	NSYPLA754R
750	750	320	1	NSYPLA773	NSYPLA773T	NSYPLA773R
750	750	420	1	NSYPLA774	NSYPLA774T	NSYPLA774R
750	1000	320	2	NSYPLA7103	NSYPLA7103T	NSYPLA7103R
750	1000	420	2	NSYPLA7104	NSYPLA7104T	NSYPLA7104R
750	1250	320	2	NSYPLA7123	NSYPLA7123T	NSYPLA7123R
750	1250	420	2	NSYPLA7124	NSYPLA7124T	NSYPLA7124R
1000	500	320	1	NSYPLA1053	NSYPLA1053T	NSYPLA1053R
1000	500	420	1	NSYPLA1054	NSYPLA1054T	NSYPLA1054R
1000	750	320	1	NSYPLA1073	NSYPLA1073T	NSYPLA1073R
1000	750	420	1	NSYPLA1074	NSYPLA1074T	NSYPLA1074R
1000	1000	320	2	NSYPLA10103	NSYPLA10103T	NSYPLA10103R
1000	1000	420	2	NSYPLA10104	NSYPLA10104T	NSYPLA10104R
1000	1250	320	2	NSYPLA10123	NSYPLA10123T	NSYPLA10123R
1000	1250	420	2	NSYPLA10124	NSYPLA10124T	NSYPLA10124R
1250	500	320	1	NSYPLA1253	NSYPLA1253T	NSYPLA1253R
1250	500	420	1	NSYPLA1254	NSYPLA1254T	NSYPLA1254R
1250	750	320	1	NSYPLA1273	NSYPLA1273T	NSYPLA1273R
1250	750	420	1	NSYPLA1274	NSYPLA1274T	NSYPLA1274R
1250	1000	320	2	NSYPLA12103	NSYPLA12103T	NSYPLA12103R
1250	1000	420	2	NSYPLA12104	NSYPLA12104T	NSYPLA12104R
1250	1250	320	2	NSYPLA12123	NSYPLA12123T	NSYPLA12123R
1250	1250	420	2	NSYPLA12124	NSYPLA12124T	NSYPLA12124R
1500	500	320	1	NSYPLA1553	NSYPLA1553T	NSYPLA1553R
1500	500	420	1	NSYPLA1554	NSYPLA1554T	NSYPLA1554R
1500	750	320	1	NSYPLA1573	NSYPLA1573T	NSYPLA1573R
1500	750	420	1	NSYPLA1574	NSYPLA1574T	NSYPLA1574R
1500	1000	320	2	NSYPLA15103	NSYPLA15103T	NSYPLA15103R
1500	1000	420	2	NSYPLA15104	NSYPLA15104T	NSYPLA15104R
1500	1250	320	2	NSYPLA15123	NSYPLA15123T	NSYPLA15123R
1500	1250	420	2	NSYPLA15124	NSYPLA15124T	NSYPLA15124R

Enclosures with ventilated canopy IP 44

Introduction

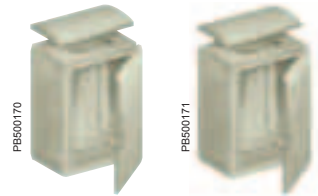


PB500215

Enclosure with ventilated canopy and plain door.

Characteristics of the PLAT version

- Enclosure obtained by assembling:
 - 1 open top part with canopy.
 - 1 sealed bottom part.
 - 2 side parts.
 - 1 or 2 rear panels (according to width).
 - 1 or 2 doors (according to width).
- Outdoor use.
- Protection degree IP 44 according to IEC 60529.
- Protection degree IP 54 with 1 or 2 internal grilles, ref. **NSYCAG125LPP**, to be ordered separately.
- Locking system with handle with a 5-mm double-bar insert block, included in the standard supply. Other blocks with inserts or barrels and keys optionally available.
- Door opening to 120°.
- Direct fixing to the floor or by means of a plinth with a height of 60 mm, as an option, see page **305**.
- Possibility of fixing on a semi-embedded plinth, see page **306**.
- Optional wall-fixing lugs.



PB500170

PB500171



PB501356

Open top part with canopy allowing for ventilation.

External dimensions (mm)				References of enclosures with door	
Height	Width	Depth	N° of doors	Plain	Anti-posting
500	500	320	1	NSYPLAT553	NSYPLAT553R
500	500	420	1	NSYPLAT554	NSYPLAT554R
500	750	320	1	NSYPLAT573	NSYPLAT573R
500	750	420	1	NSYPLAT574	NSYPLAT574R
500	1000	320	2	NSYPLAT5103	NSYPLAT5103R
500	1000	420	2	NSYPLAT5104	NSYPLAT5104R
500	1250	320	2	NSYPLAT5123	NSYPLAT5123R
500	1250	420	2	NSYPLAT5124	NSYPLAT5124R
750	500	320	1	NSYPLAT753	NSYPLAT753R
750	500	420	1	NSYPLAT754	NSYPLAT754R
750	750	320	1	NSYPLAT773	NSYPLAT773R
750	750	420	1	NSYPLAT774	NSYPLAT774R
750	1000	320	2	NSYPLAT7103	NSYPLAT7103R
750	1000	420	2	NSYPLAT7104	NSYPLAT7104R
750	1250	320	2	NSYPLAT7123	NSYPLAT7123R
750	1250	420	2	NSYPLAT7124	NSYPLAT7124R
1000	500	320	1	NSYPLAT1053	NSYPLAT1053R
1000	500	420	1	NSYPLAT1054	NSYPLAT1054R
1000	750	320	1	NSYPLAT1073	NSYPLAT1073R
1000	750	420	1	NSYPLAT1074	NSYPLAT1074R
1000	1000	320	2	NSYPLAT10103	NSYPLAT10103R
1000	1000	420	2	NSYPLAT10104	NSYPLAT10104R
1000	1250	320	2	NSYPLAT10123	NSYPLAT10123R
1000	1250	420	2	NSYPLAT10124	NSYPLAT10124R
1250	500	320	1	NSYPLAT1253	NSYPLAT1253R
1250	500	420	1	NSYPLAT1254	NSYPLAT1254R
1250	750	320	1	NSYPLAT1273	NSYPLAT1273R
1250	750	420	1	NSYPLAT1274	NSYPLAT1274R
1250	1000	320	2	NSYPLAT12103	NSYPLAT12103R
1250	1000	420	2	NSYPLAT12104	NSYPLAT12104R
1250	1250	320	2	NSYPLAT12123	NSYPLAT12123R
1250	1250	420	2	NSYPLAT12124	NSYPLAT12124R
1500	500	320	1	NSYPLAT1553	NSYPLAT1553R
1500	500	420	1	NSYPLAT1554	NSYPLAT1554R
1500	750	320	1	NSYPLAT1573	NSYPLAT1573R
1500	750	420	1	NSYPLAT1574	NSYPLAT1574R
1500	1000	320	2	NSYPLAT15103	NSYPLAT15103R
1500	1000	420	2	NSYPLAT15104	NSYPLAT15104R
1500	1250	320	2	NSYPLAT15123	NSYPLAT15123R
1500	1250	420	2	NSYPLAT15124	NSYPLAT15124R



PB500193

External handle.



PB501357

Door with anti-posting surface and additional reinforcement.



PB501398

Various bosses for M8 inserts.

Enclosures with plinth-type open bottom part, IP 54

Introduction



Enclosure with open bottom part.

Characteristics of the PLAZ version

- Enclosure obtained by assembling:
 - 1 sealed top part.
 - 1 plinth-type open bottom part.
 - 2 side parts.
 - 1 or 2 rear panels (according to width).
 - 1 or 2 doors (according to width).
- Indoor use.
- Outdoor use with a canopy (to be ordered separately).
- Protection degree IP 54 according to IEC 60529, for the 5 sides of the enclosure.
- Locking system with handle with a 5 mm double-bar insert block, included in the standard supply. Other blocks with inserts or barrels and keys optionally available.
- Door opening to 120°.
- The open bottom part forms a 60 mm plinth which is fixed to the floor directly or by means of an optional fixing frame, see page 305, or else it is installed on a semi-embedded plinth, see page 306.



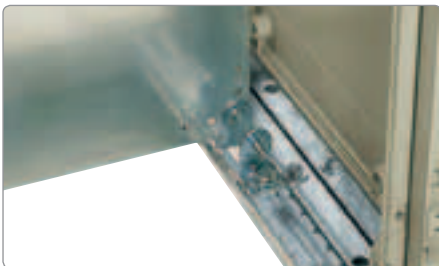
PB501360

Polyurethane sealing gasket and 120° hinge.



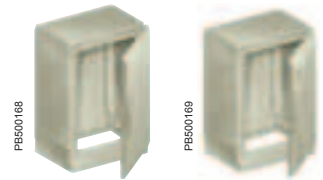
PB500183

Detail from the plinth-type bottom part, equipped with a cable-entry plate (optional).



PB501361

Plain mounting plate installed on step slides and compulsory adapter plates in all the enclosures with open bottom part.



External dimensions (mm)				References of enclosures with door	
Height	Width	Depth	N° of doors	Plain	Anti-posting
500	500	320	1	NSYPLAZ553	NSYPLAZ553R
500	500	420	1	NSYPLAZ554	NSYPLAZ554R
500	750	320	1	NSYPLAZ573	NSYPLAZ573R
500	750	420	1	NSYPLAZ574	NSYPLAZ574R
500	1000	320	2	NSYPLAZ5103	NSYPLAZ5103R
500	1000	420	2	NSYPLAZ5104	NSYPLAZ5104R
500	1250	320	2	NSYPLAZ5123	NSYPLAZ5123R
500	1250	420	2	NSYPLAZ5124	NSYPLAZ5124R
750	500	320	1	NSYPLAZ753	NSYPLAZ753R
750	500	420	1	NSYPLAZ754	NSYPLAZ754R
750	750	320	1	NSYPLAZ773	NSYPLAZ773R
750	750	420	1	NSYPLAZ774	NSYPLAZ774R
750	1000	320	2	NSYPLAZ7103	NSYPLAZ7103R
750	1000	420	2	NSYPLAZ7104	NSYPLAZ7104R
750	1250	320	2	NSYPLAZ7123	NSYPLAZ7123R
750	1250	420	2	NSYPLAZ7124	NSYPLAZ7124R
1000	500	320	1	NSYPLAZ1053	NSYPLAZ1053R
1000	500	420	1	NSYPLAZ1054	NSYPLAZ1054R
1000	750	320	1	NSYPLAZ1073	NSYPLAZ1073R
1000	750	420	1	NSYPLAZ1074	NSYPLAZ1074R
1000	1000	320	2	NSYPLAZ10103	NSYPLAZ10103R
1000	1000	420	2	NSYPLAZ10104	NSYPLAZ10104R
1000	1250	320	2	NSYPLAZ10123	NSYPLAZ10123R
1000	1250	420	2	NSYPLAZ10124	NSYPLAZ10124R
1250	500	320	1	NSYPLAZ1253	NSYPLAZ1253R
1250	500	420	1	NSYPLAZ1254	NSYPLAZ1254R
1250	750	320	1	NSYPLAZ1273	NSYPLAZ1273R
1250	750	420	1	NSYPLAZ1274	NSYPLAZ1274R
1250	1000	320	2	NSYPLAZ12103	NSYPLAZ12103R
1250	1000	420	2	NSYPLAZ12104	NSYPLAZ12104R
1250	1250	320	2	NSYPLAZ12123	NSYPLAZ12123R
1250	1250	420	2	NSYPLAZ12124	NSYPLAZ12124R
1500	500	320	1	NSYPLAZ1553	NSYPLAZ1553R
1500	500	420	1	NSYPLAZ1554	NSYPLAZ1554R
1500	750	320	1	NSYPLAZ1573	NSYPLAZ1573R
1500	750	420	1	NSYPLAZ1574	NSYPLAZ1574R
1500	1000	320	2	NSYPLAZ15103	NSYPLAZ15103R
1500	1000	420	2	NSYPLAZ15104	NSYPLAZ15104R
1500	1250	320	2	NSYPLAZ15123	NSYPLAZ15123R
1500	1250	420	2	NSYPLAZ15124	NSYPLAZ15124R

Enclosures with plinth-type open bottom part and ventilated canopy, IP 44: Introduction

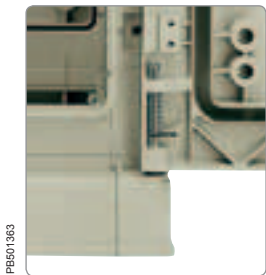


PB601362

Enclosure with plinth-type open bottom part, ventilated canopy and anti-posting door.

Characteristics of the PLAZT version

- Enclosure obtained by assembling:
 - 1 open top part with canopy.
 - 1 plinth-type open bottom part.
 - 2 side parts.
 - 1 or 2 rear panels (according to width).
 - 1 or 2 doors (according to width).
- Outdoor use.
- Protection degree IP 44 according to IEC 60529, for the 5 sides of the enclosure.
- Protection degree IP 54 with 1 or 2 internal grilles, ref. **NSYCAG125LPF**, to be ordered separately.
- Locking system with handle with a 5 mm double-bar insert block. Other blocks with inserts or barrels and keys optionally available.
- Door opening to 180°.
- Anti-lever system to prevent forcing of the door.
- The open bottom part forms a 60 mm plinth which is fixed to the floor directly or by means of an optional fixing frame, see page **305**, or else it is installed on a semi-embedded plinth, see page **306**.



PB601363

Door opening to 180°.



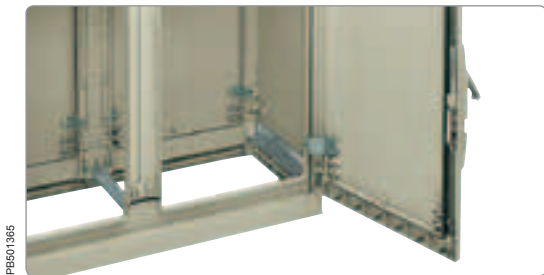
PB601364

Anti-lever security system.



PB600172

PB600173



PB601365

Bottom part open for underground cable access.



PB601366

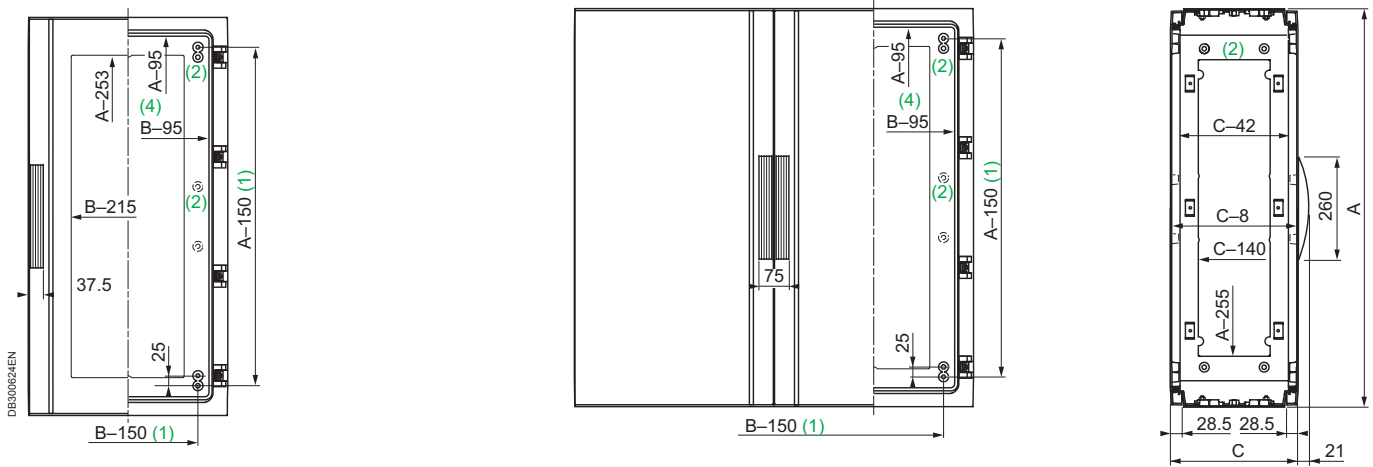
M8 fixing bosses on the inside of the door.

External dimensions (mm)				References of enclosures with door	
Height	Width	Depth	N° of doors	Plain	Anti-posting
500	500	320	1	NSYPLAZT553	NSYPLAZT553R
500	500	420	1	NSYPLAZT554	NSYPLAZT554R
500	750	320	1	NSYPLAZT573	NSYPLAZT573R
500	750	420	1	NSYPLAZT574	NSYPLAZT574R
500	1000	320	2	NSYPLAZT5103	NSYPLAZT5103R
500	1000	420	2	NSYPLAZT5104	NSYPLAZT5104R
500	1250	320	2	NSYPLAZT5123	NSYPLAZT5123R
500	1250	420	2	NSYPLAZT5124	NSYPLAZT5124R
750	500	320	1	NSYPLAZT753	NSYPLAZT753R
750	500	420	1	NSYPLAZT754	NSYPLAZT754R
750	750	320	1	NSYPLAZT773	NSYPLAZT773R
750	750	420	1	NSYPLAZT774	NSYPLAZT774R
750	1000	320	2	NSYPLAZT7103	NSYPLAZT7103R
750	1000	420	2	NSYPLAZT7104	NSYPLAZT7104R
750	1250	320	2	NSYPLAZT7123	NSYPLAZT7123R
750	1250	420	2	NSYPLAZT7124	NSYPLAZT7124R
1000	500	320	1	NSYPLAZT1053	NSYPLAZT1053R
1000	500	420	1	NSYPLAZT1054	NSYPLAZT1054R
1000	750	320	1	NSYPLAZT1073	NSYPLAZT1073R
1000	750	420	1	NSYPLAZT1074	NSYPLAZT1074R
1000	1000	320	2	NSYPLAZT10103	NSYPLAZT10103R
1000	1000	420	2	NSYPLAZT10104	NSYPLAZT10104R
1000	1250	320	2	NSYPLAZT10123	NSYPLAZT10123R
1000	1250	420	2	NSYPLAZT10124	NSYPLAZT10124R
1250	500	320	1	NSYPLAZT1253	NSYPLAZT1253R
1250	500	420	1	NSYPLAZT1254	NSYPLAZT1254R
1250	750	320	1	NSYPLAZT1273	NSYPLAZT1273R
1250	750	420	1	NSYPLAZT1274	NSYPLAZT1274R
1250	1000	320	2	NSYPLAZT12103	NSYPLAZT12103R
1250	1000	420	2	NSYPLAZT12104	NSYPLAZT12104R
1250	1250	320	2	NSYPLAZT12123	NSYPLAZT12123R
1250	1250	420	2	NSYPLAZT12124	NSYPLAZT12124R
1500	500	320	1	NSYPLAZT1553	NSYPLAZT1553R
1500	500	420	1	NSYPLAZT1554	NSYPLAZT1554R
1500	750	320	1	NSYPLAZT1573	NSYPLAZT1573R
1500	750	420	1	NSYPLAZT1574	NSYPLAZT1574R
1500	1000	320	2	NSYPLAZT15103	NSYPLAZT15103R
1500	1000	420	2	NSYPLAZT15104	NSYPLAZT15104R
1500	1250	320	2	NSYPLAZT15123	NSYPLAZT15123R
1500	1250	420	2	NSYPLAZT15124	NSYPLAZT15124R

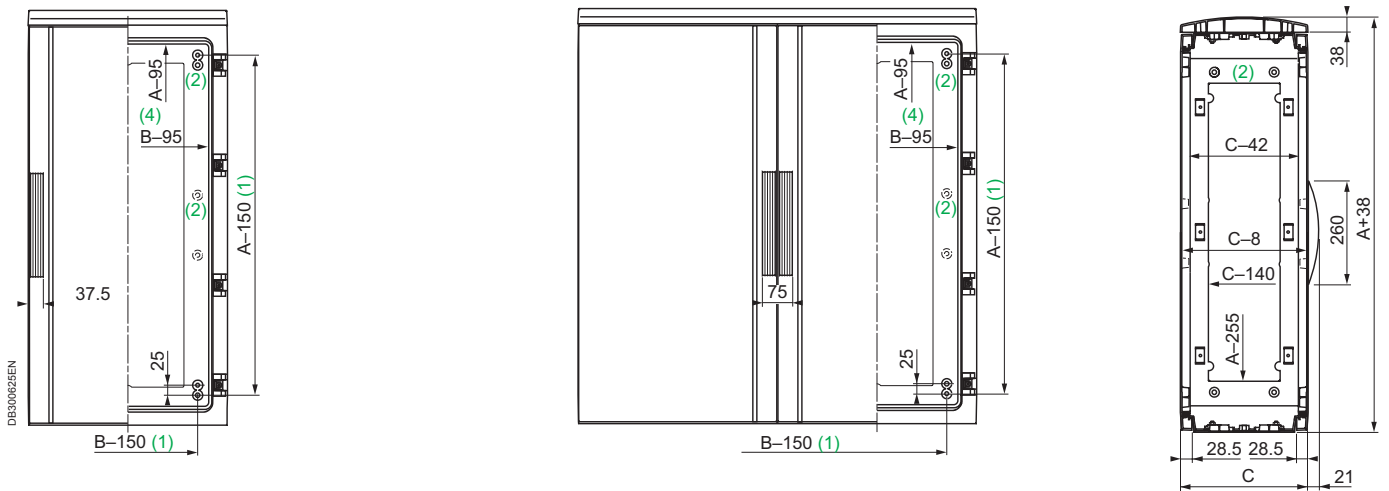
Polyester floor-standing enclosures

Dimensions

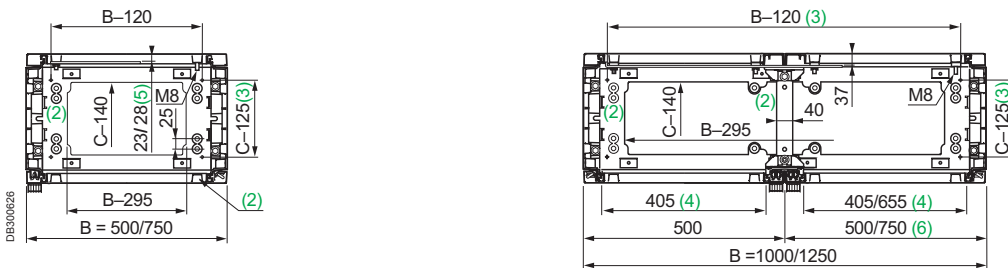
Sealed enclosure



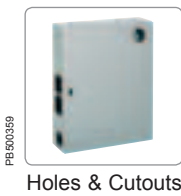
Enclosure with ventilated canopy



Common top views



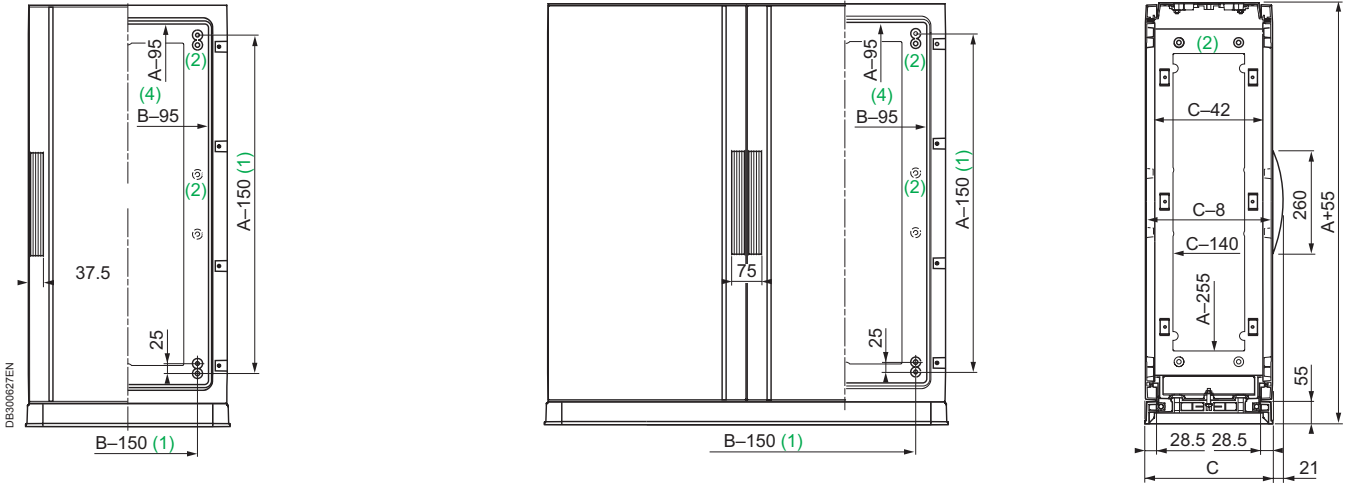
Customised service: All standard dimensions from our catalogue on request and more...



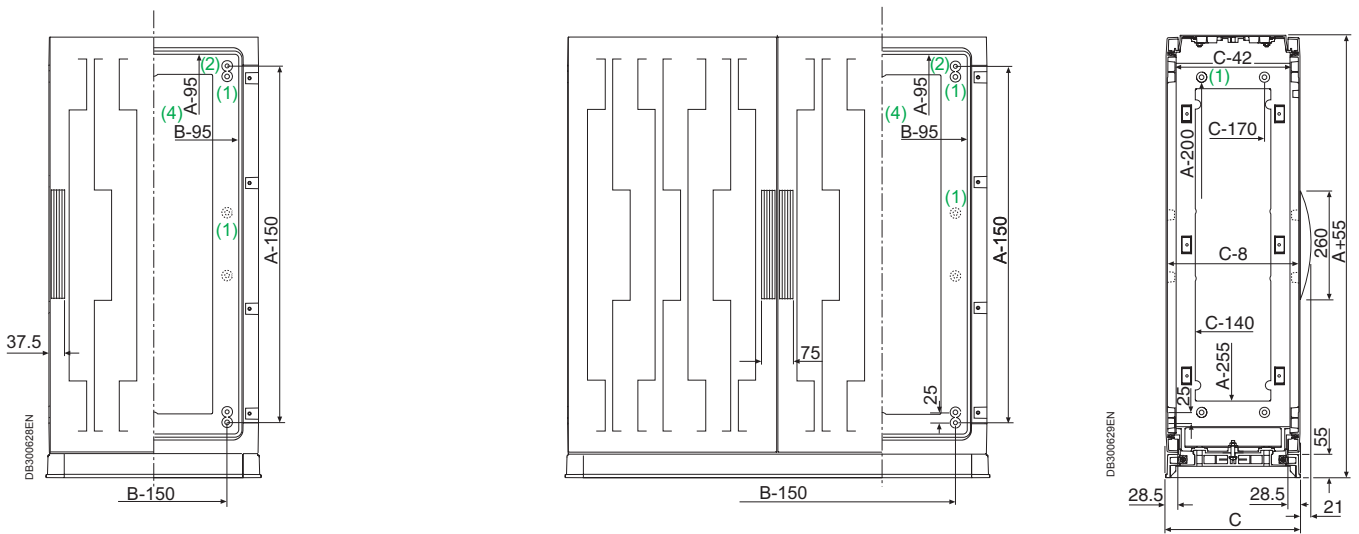
Polyester floor-standing enclosures

Dimensions

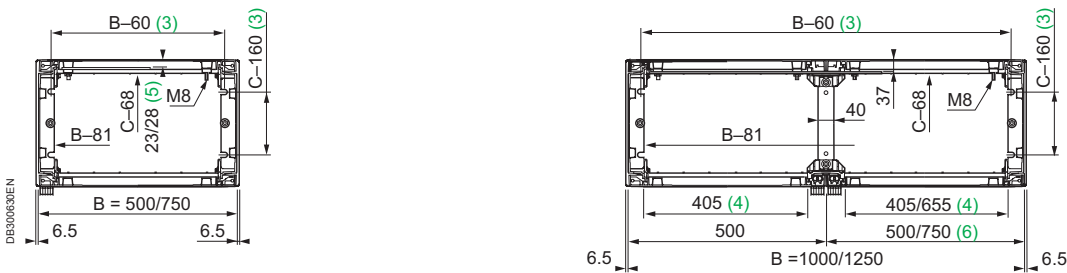
Enclosure with plinth-type open bottom part



Enclosure with ventilated canopy and plinth-type open bottom part



Common top views



- (1) 4 bosses with M8 inserts and studs for direct fixing of mounting plates.
- (2) Bosses designed to accommodate M8 inserts, ref. **NSYTEX8**. They are placed:
 - On the back of the enclosure, from the height of 1000 mm. They allow the fixing of partial mounting plates and assorted equipment.
 - On the top and bottom parts of the enclosure. They are used for fixing the step slides, an internal door, 19" chassis, etc.
- (3) Dimensions for fixing on the floor or on a plinth.
- (4) Entry dimensions, door open.
- (5) Dimension of 28 mm for enclosures with heights of more than 1000 mm (height after the installation of the plain mounting plates with reinforcement foldings).
- (6) With a width of 1250 mm in standard supply, 500-mm door on the left and 750-mm door on the right.

Polyester floor-standing enclosures

Accessory selection guide

Mounting accessories



Enclosure dimensions (mm)			Metallic mounting plates		Insulating mounting plates		Modular distribution chassis		Internal door
Height	Width	N° of doors	Plain	Telequick	Polyester	Bakelite			
			Page 315	Page 316	Page 315		Page 322		Page 311
500	500	1	NSYPMM55	NSYPMR55	NSYPMA55	NSYPMB55	-	-	NSYPAPLA55
500	750	1	NSYPMM75	NSYPMR57	NSYPMA75	NSYPMB75	-	-	NSYPAPLA57
500	1000	2	NSYPMM510	2 x NSYPMR55	NSYPMA510	NSYPMB510	-	-	2 x NSYPAPLA55
500	1250	2	NSYPMM55 + NSYPMM75	NSYPMR55 + NSYPMR57	NSYPMA55 + NSYPMA75	NSYPMB55 + NSYPMB75	-	-	NSYPAPLA55 + NSYPAPLA57
750	500	1	NSYPMM75	NSYPMR75	NSYPMA75	NSYPMB75	NSYDLP76	NSYDLP57	NSYPAPLA75
750	750	1	NSYPMM77	NSYPMR77	NSYPMA77	NSYPMB77	NSYDLP132	NSYDLP99	NSYPAPLA77
750	1000	2	NSYPMM710	2 x NSYPMR75	NSYPMA710	NSYPMB710	2 x NSYDLP76	2 x NSYDLP57	2 x NSYPAPLA75
750	1250	2	NSYPMM712	NSYPMR75 + NSYPMR77	NSYPMA712	NSYPMB712	NSYDLP76 + NSYDLP132	NSYDLP57 + NSYDLP99	NSYPAPLA75 + NSYPAPLA77
1000	500	1	NSYPMM105	NSYPMR105	NSYPMA105	NSYPMB105	NSYDLP114	NSYDLP95	NSYPAPLA105
1000	750	1	NSYPMM107	NSYPMR107	NSYPMA107	NSYPMB107	NSYDLP198	NSYDLP165	NSYPAPLA107
1000	1000	2	NSYPMM1010	2 x NSYPMR105	NSYPMA1010	NSYPMB1010	2 x NSYDLP114	2 x NSYDLP95	2 x NSYPAPLA105
1000	1250	2	NSYPMM1012	NSYPMR105 + NSYPMR107	NSYPMA1012	NSYPMB1012	NSYDLP114 + NSYDLP198	NSYDLP95 + NSYDLP165	NSYPAPLA105 + NSYPAPLA107
1250	500	1	NSYPMM125	NSYPMR125	NSYPMA125	NSYPMB125	NSYDLP133	NSYDLP114P	NSYPAPLA125
1250	750	1	NSYPMM127	NSYPMR127	NSYPMA127	NSYPMB127	NSYDLP231	NSYDLP198P	NSYPAPLA127
1250	1000	2	NSYPMM1210	2 x NSYPMR125	NSYPMA1210	NSYPMB1210	2 x NSYDLP133	2 x NSYDLP114P	2 x NSYPAPLA125
1250	1250	2	NSYPMM1212	NSYPMR125 + NSYPMR127	NSYPMA1212	NSYPMB1212	NSYDLP133 + NSYDLP231	NSYDLP114P + NSYDLP198P	NSYPAPLA125 + NSYPAPLA127
1500	500	1	NSYPMM155	NSYPMR155	-	NSYPMB155	NSYDLP171	NSYDLP152	NSYPAPLA155
1500	750	1	NSYPMM157	NSYPMR157	-	NSYPMB157	NSYDLP297	NSYDLP264	NSYPAPLA157
1500	1000	2	NSYPMM1510	2 x NSYPMR155	-	NSYPMB1510	2 x NSYDLP171	2 x NSYDLP152	2 x NSYPAPLA155
1500	1250	2	NSYPMM1512	NSYPMR155 + NSYPMR157	-	NSYPMB1512	NSYDLP171 + NSYDLP297	NSYDLP152 + NSYDLP264	NSYPAPLA155 + NSYPAPLA157

VDI accessories

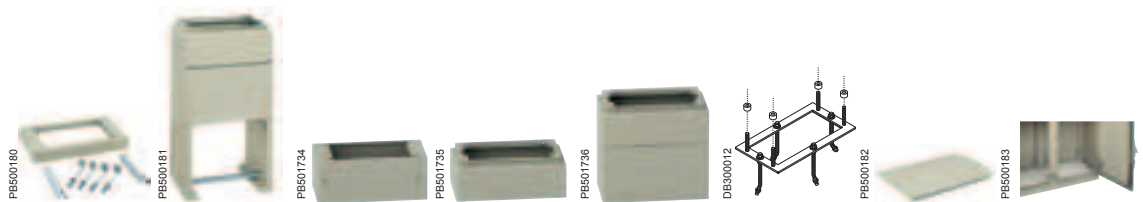


Enclosure dimensions (mm)		19" fixed chassis	Number of U	19" swing chassis	Number of U
Height	Width	Page 325		Page 325	
500	750	NSYBRF8PLA	8	NSYBRP7PLA	7
750	750	NSYBRF12PLA + NSYSPLA75	12	NSYBRP11PLA + NSYSPLA75	11
1000	750	NSYBRF17PLA + NSYSPLA100	17	NSYBRP16PLA + NSYSPLA100	16
1250	750	NSYBRF21PLA + NSYSPLA125	21	NSYBRP20PLA + NSYSPLA125	20
1500	750	NSYBRF26PLA + NSYSPLA150	26	NSYBRP25PLA + NSYSPLA150	25

Polyester floor-standing enclosures


Accessory selection guide

Main accessories




Enclosure dimensions (mm)		N plinth	H plinth	ZA plinth	ZZ plinth		Floor-fixing frame	Canopy	Cable-entry plate
Width	Depth	Height 60 mm	Height 900 mm	Height 200 mm	Height 200 mm	Height 500 mm			
		Page 305		Page 307	Page 308		Page 306	Page 309	Page 310
500	320	NSYZNPLA53	NSYZHPLA53	NSYZA253	NSYZZ253	NSYZZ553	NSYMFPLAZ53	NSYTJPLA53	NSYECPLAZ53
500	420	NSYZNPLA54	NSYZHPLA54	NSYZA273	NSYZZ273	NSYZZ573	NSYMFPLAZ54	NSYTJPLA54	NSYECPLAZ54
750	320	NSYZNPLA73	NSYZHPLA73	NSYZA2103	NSYZZ2103	NSYZZ5103	NSYMFPLAZ73	NSYTJPLA73	NSYECPLAZ73
750	420	NSYZNPLA74	NSYZHPLA74	NSYZA2123	NSYZZ2123	NSYZZ5123	NSYMFPLAZ74	NSYTJPLA74	NSYECPLAZ74
1000	320	NSYZNPLA103	NSYZHPLA103	NSYZA254	NSYZZ254	NSYZZ554	NSYMFPLAZ103	NSYTJPLA103	NSYECPLAZ103
1000	420	NSYZNPLA104	NSYZHPLA104	NSYZA274	NSYZZ274	NSYZZ574	NSYMFPLAZ104	NSYTJPLA104	NSYECPLAZ104
1250	320	NSYZNPLA123	NSYZHPLA123	NSYZA2104	NSYZZ2104	NSYZZ5104	NSYMFPLAZ123	NSYTJPLA123	NSYECPLAZ123
1250	420	NSYZNPLA124	NSYZHPLA124	NSYZA2124	NSYZZ2124	NSYZZ5124	NSYMFPLAZ124	NSYTJPLA124	NSYECPLAZ124

Step slides



Page 317

Uprights and mounting rails




Page 319

Door retainer



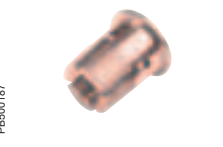
Page 311

Door switch




Page 312

Insert



Page 319

Document pocket



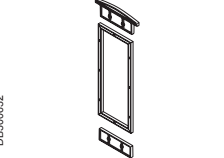
Page 483

VDI accessories and fixings



Page 660

Coupling Kit



Page 303

Anti-graffiti paint




Page 321

Handles and inserts



Page 313

Wall-fixing lug



Page 309

> For coupling
Page 303

> For mounting
Page 315

> Plastic ventilation louvres
Page 699

> For closing
Page 313

> Thermal management
Page 672

> Thermal control
Page 677

> Grille for IP54
instead of IP 44
Page 309

> Document pocket
Page 483

> Step slides
Page 317

> For cable entries
(cable-gland plate)
Page 310

> For the door
Page 311

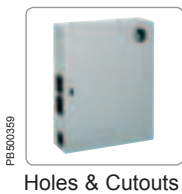
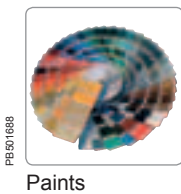
> For fixing
Page 306

> For cable entries
(membranes, cable-glands)
Page 95 / 434

> For supporting
the cables
Page 454

> For cable
management
Page 460

Customised service: All standard dimensions from our catalogue on request and more...



Composition accessories

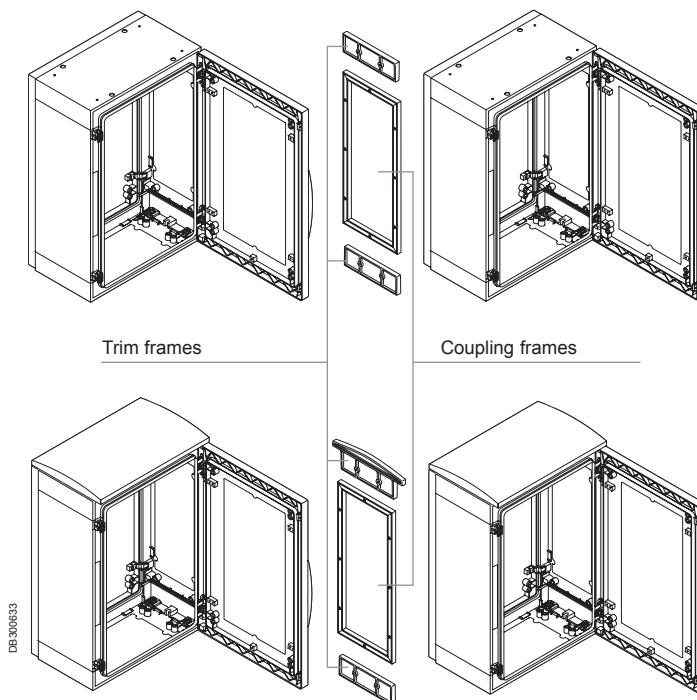
Coupling accessories

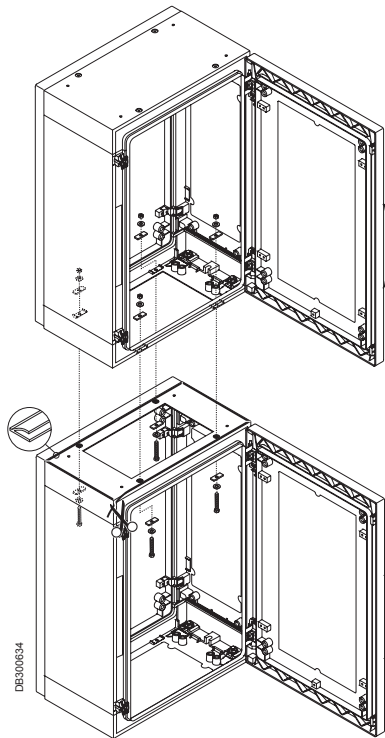
Horizontal coupling kits

- For coupling 2 enclosures side by side.
- Coupling frame kit: made up of a coupling kit and the fixings required for installation.
- IP 55 at the coupling point.
- Trim kit: made up of 2 frames for aesthetic fitting of the 2 coupled enclosures.

For enclosure	References of coupling frame kit for enclosure (mm)	
	Depth 320	Depth 420
Height (mm)		
500	NSYMUPLA53	NSYMUPLA54
750	NSYMUPLA73	NSYMUPLA74
1000	NSYMUPLA103	NSYMUPLA104
1250	NSYMUPLA123	NSYMUPLA124
1500	NSYMUPLA153	NSYMUPLA154

For enclosure	References of trim kit for enclosure (mm)	
	Depth 320	Depth 420
Without canopy	NSYSUPLA3	NSYSUPLA4
With canopy	NSYSUPLA3T	NSYSUPLA4T





Vertical coupling kit

- For coupling 2 enclosures on top of one another.
- Kit made up of 3.5 m of adhesive seal and the fixings required for mounting.
- IP 55 at the coupling point.

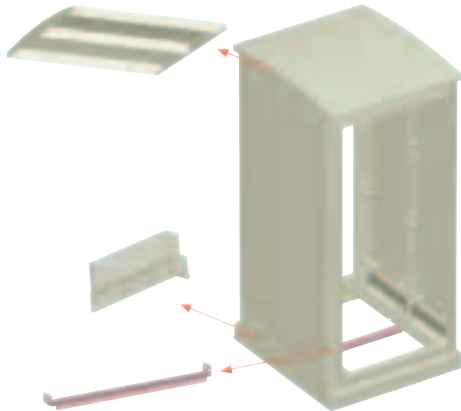
Description	Reference
Vertical coupling kit	NSYUVPLA



Specific



Configured

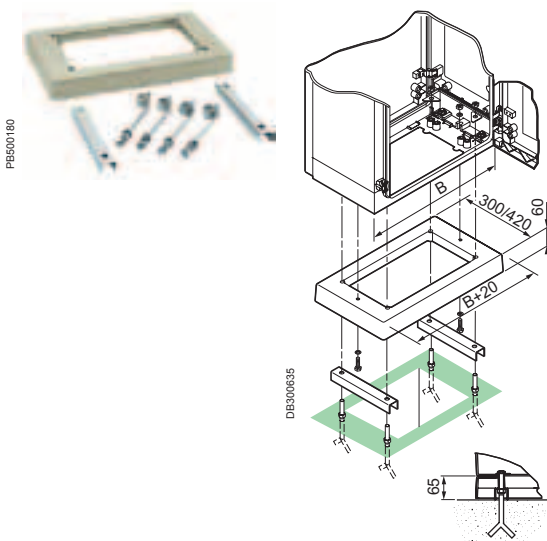


Enhanced depth enclosure

- After industrial machining, the frames of the standard enclosures are coupled in the factory to obtain enhanced depth floor-standing enclosures.
- 3 possible depths: 575, 675 and 775 mm.
- The internal volume of the standard enclosures remains unaffected.
- Possible for the 4 enclosure versions, in particular for 19" applications with widths of 750 and 1250 mm.
- IP 44 in the version with ventilated canopy, IP 54 for the other versions.
- Roof made from polyester reinforced with fibreglass, for dimensions: 750 x 575 mm, 750 x 775 mm, 1250 x 575 mm and 1250 x 775 mm.
- A rear door can be installed in the coupled enclosures. Option of installing 2 sets of step slides (at the front and at the rear).
- Supply or installation in the enclosures of a 19" chassis with side trim plate installed on the step slides:
 - 19 U, height 1000 mm
 - 23 U, height 1250 mm
 - 25 U, height 1500 mm
- Configured offer for PLA and PLAZ versions with depth 575 and 775 mm.

Composition accessories

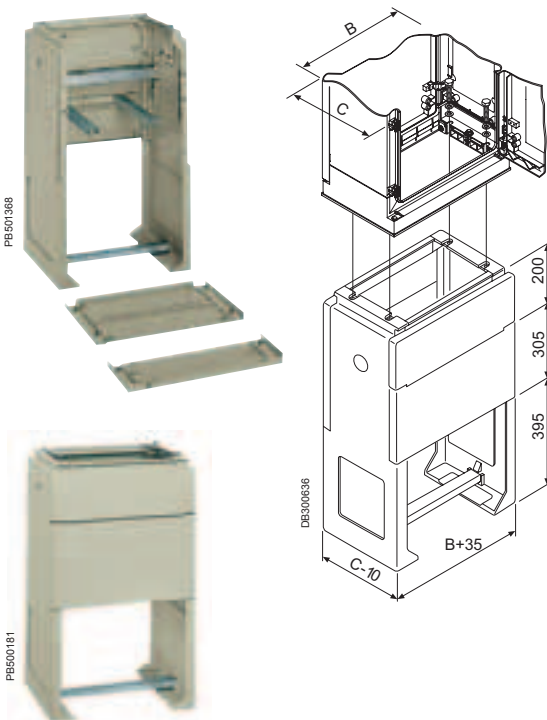
Base accessories



N Plinth height 60 mm

- Designed to be installed under the closed-bottom enclosures (version PLA or PLAT).
- Polyester reinforced with fibreglass, moulded by hot compression, RAL 7032 grey.

For floor-standing enclosure (mm)		Reference
Width (B)	Depth	
500	320	NSYZNPLA53
750	320	NSYZNPLA73
1000	320	NSYZNPLA103
1250	320	NSYZNPLA123
500	420	NSYZNPLA54
750	420	NSYZNPLA74
1000	420	NSYZNPLA104
1250	420	NSYZNPLA124



Buriable H Plinth height 900 mm

- Designed to be installed under the open-bottom enclosures (version PLAZ or PLAZT).
- Polyester reinforced with fibreglass, moulded by hot compression, RAL 7032 grey.
- Front panel with a height of 170 mm, retractable, providing easy access to the inside.
- Fixed front panel with a height of 305 mm, corresponding to the finished floor height area.
- The height above the floor after building-in varies between 200 and 500 mm.
- A metal rail helps to fix the entry cables.
- Lateral uprights with pre-knock-out auxiliary output with Ø Pg 36 (48 mm).
- A pre-knock-out area is provided at the bottom of the lateral uprights for cable entry, if necessary.
- Delivered with the fixings required for installation.

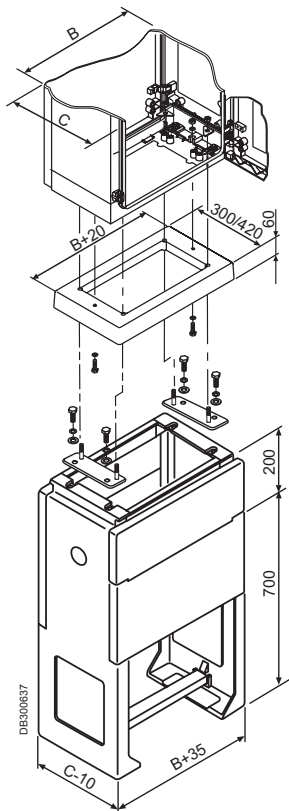
For floor-standing enclosure (mm)		Reference
Width (B)	Depth (C)	
500	320	NSYZHPLA53
750	320	NSYZHPLA73
1000	320	NSYZHPLA103
1250	320	NSYZHPLA123
500	420	NSYZHPLA54
750	420	NSYZHPLA74
1000	420	NSYZHPLA104
1250	420	NSYZHPLA124



Specific



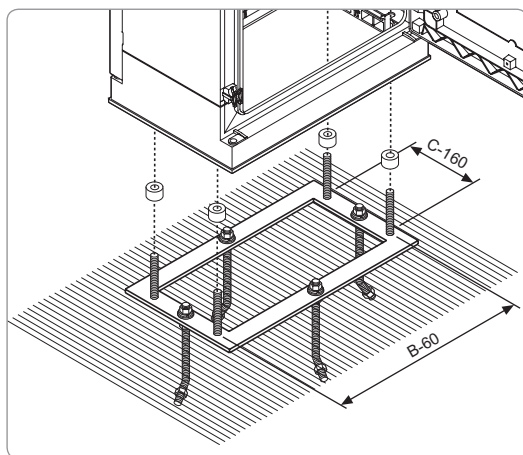
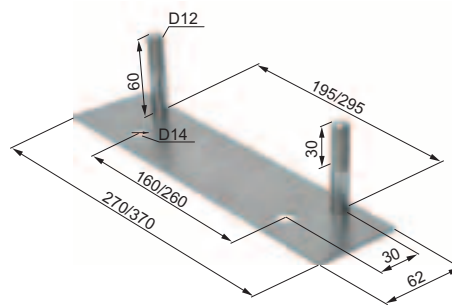
Optional removable top front plate, with two double-bar locks.



Connectors between plinths

- Designed to allow the adaptation of a closed-bottom enclosure + N plinth on a H-type partially buried plinth.
- Composition: 2 parts for adapting the centre-to-centre distances.

For floor-standing enclosure (mm)	Description	Reference
Depth		
320	Linking parts for N plinth on 320-mm H plinth	NSYAZ3PLA
420	Linking parts for N plinth on 420-mm H plinth	NSYAZ4PLA



Floor-standing frame

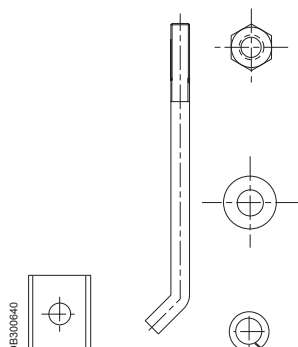
- Frame for direct fixing on the floor for installing open-bottom enclosures (version PLAZ or PLAZT).
- Material: passivated zinc-coated steel.

For floor-standing enclosure (mm)		Reference
Width (B)	Depth (C)	
500	320	NSYMFPLAZ53
750	320	NSYMFPLAZ73
1000	320	NSYMFPLAZ103
1250	320	NSYMFPLAZ123
500	420	NSYMFPLAZ54
750	420	NSYMFPLAZ74
1000	420	NSYMFPLAZ104
1250	420	NSYMFPLAZ124

Floor-fixing studs

Set of four threaded parts and fixings, for fixing the enclosures on concrete plinths.

Description	Reference
Fixing studs	NSYFSPLAZ





PE501738

PE501739

ZA plinths for PLA enclosure (version PLA and PLAT)

Designed to support and raise the closed-bottom versions of PLA enclosures, in other words, references **NSYPLAxx** or **NSYPLATxx**:

- Polyester material reinforced with fibreglass, moulded by hot compression.
- Guarantees total insulation according to IEC 61439-1.
- Ensures a degree of protection of IP 44 and impact resistance of IK 10.
- Plinth height of 200 mm; stackable to obtain a 400-mm plinth.
- Four floor-attachment points; the symmetry of the parts prevents incorrect assembly.

The frontal parts of the plinth (front and rear) have two stainless-steel screws protected by a plastic cap; these screws, which can be accessed from the outside, make it possible (using an Allen key) to open and remove the frontal parts for easier cable installation.

In stacked position, the bottom plinth can be partially buried.

It is provided with one or two reinforcement cross-rails, adjustable to adapt to the position of the cables.

The reference of the plinth contains all the accessories required for attaching the enclosure to the plinth and for stacking two plinths.

For floor-standing enclosure				Plinth				Cable-gland area	
Height	Width	Depth	Reference	Height	Width	Depth	Reference	Width	Depth
500 to 1500	500	320	NSYPLA(T)x53	200	494	250	NSYZA253	360	205
500 to 1500	750	320	NSYPLA(T)x73	200	744	250	NSYZA273	610	205
500 to 1500	1000	320	NSYPLA(T)x103	200	994	250	NSYZA2103	860	205
500 to 1500	1250	320	NSYPLA(T)x123	200	1244	250	NSYZA2123	1100	205
500 to 1500	500	420	NSYPLA(T)x54	200	494	350	NSYZA254	360	305
500 to 1500	750	420	NSYPLA(T)x74	200	744	350	NSYZA274	610	305
500 to 1500	1000	420	NSYPLA(T)x104	200	994	350	NSYZA2104	860	305
500 to 1500	1250	420	NSYPLA(T)x124	200	1244	350	NSYZA2124	1110	305



PE501740

Cable supporting cross-rail

The lateral sides of the plinth are provided with bosses for attaching cross-rails with cut-out profiles, for supporting cables.

The reference of the cross-rail includes all the elements required for assembly.

For plinth		Cross-rail
NSYZA253	NSYZA254	NSYAC320
NSYZA273	NSYZA274	NSYAC560
NSYZA2103	NSYZA2104	NSYAC840
NSYZA2123	NSYZA2124	NSYAC1080

Kit for IP 54

Makes it possible to obtain IP 54 for the plinth and the plinth-enclosure connection Ref. **NSYAEPZA**.

Feet for partially buried installation

Allows the partially buried installation of plinths before completion of the floor.

The plinths are attached by four feet with a standard length of 750 mm.

Possibility of horizontal adjustment of the plinth.

The kit is made up of four feet and fixings, ref. **NSYAEBFZ**.



PE501741

Composition accessories

Base accessories



ZZ plinths for PLA enclosure (version PLAZ and PLAZT)

Designed to support and raise the open-bottom versions of PLA enclosures, in other words, references **NSYPLAZ** or **NSYPLAZT**:

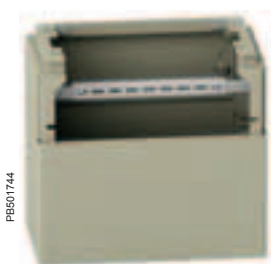
- Polyester material reinforced with fibreglass, moulded by hot compression.
- Guarantees total insulation according to IEC 61439-1.
- Ensures a degree of protection of IP 44 and impact resistance of IK 10.

The offer consists of two plinths, with heights of 200 mm and 500 mm. Four floor-attachment points; the symmetry of the parts prevents incorrect assembly. The frontal parts (front and rear) are removed from the inside. Removing them makes it easier to install the cables.

The 500-mm plinth can be partially buried. It is provided with one or two reinforcement cross-rails, adjustable to adapt to the position of the cables.

The reference of the plinth contains all the accessories required for attaching the enclosure to the plinth.

For floor-standing enclosure				Plinth				Cable-gland area	
Height	Width	Depth	Reference	Height	Width	Depth	Reference	Width	Depth
500 to 1500	500	320	NSYPLAZ(T)x53	200	535	310	NSYZZ253	419	252
500 to 1500	750	320	NSYPLAZ(T)x73	200	785	310	NSYZZ273	669	252
500 to 1500	1000	320	NSYPLAZ(T)x103	200	1035	310	NSYZZ2103	919	252
500 to 1500	1250	320	NSYPLAZ(T)x123	200	1285	310	NSYZZ2123	1169	252
500 to 1500	500	420	NSYPLAZ(T)x54	200	535	410	NSYZZ254	419	352
500 to 1500	750	420	NSYPLAZ(T)x74	200	785	410	NSYZZ274	669	352
500 to 1500	1000	420	NSYPLAZ(T)x104	200	1035	410	NSYZZ2104	919	352
500 to 1500	1250	420	NSYPLAZ(T)x124	200	1285	410	NSYZZ2124	1169	352
500 to 1500	500	320	NSYPLAZ(T)x53	500	535	310	NSYZZ553	419	252
500 to 1500	750	320	NSYPLAZ(T)x73	500	785	310	NSYZZ573	669	252
500 to 1500	1000	320	NSYPLAZ(T)x103	500	1035	310	NSYZZ5103	919	252
500 to 1500	1250	320	NSYPLAZ(T)x123	500	1285	310	NSYZZ5123	1169	252
500 to 1500	500	420	NSYPLAZ(T)x54	500	535	410	NSYZZ554	419	352
500 to 1500	750	420	NSYPLAZ(T)x74	500	785	410	NSYZZ574	669	352
500 to 1500	1000	420	NSYPLAZ(T)x104	500	1035	410	NSYZZ5104	919	352
500 to 1500	1250	420	NSYPLAZ(T)x124	500	1285	410	NSYZZ5124	1169	352



Cable supporting cross-rail

The lateral sides of the plinths are provided with bosses for attaching cross-rails with cut-out profiles, for supporting cables.

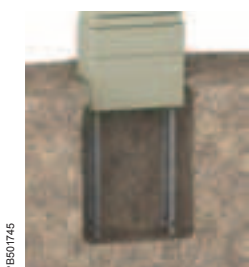
The reference of the cross-rail includes all the elements required for assembly.

For plinth				Cross-rail
NSYZZ253	NSYZZ254	NSYZZ553	NSYZZ554	NSYAC360
NSYZZ273	NSYZZ274	NSYZZ573	NSYZZ574	NSYAC600
NSYZZ2103	NSYZZ2104	NSYZZ5103	NSYZZ5104	NSYAC840
NSYZZ2123	NSYZZ2124	NSYZZ5123	NSYZZ5124	NSYAC1120



Outside opening kit

The 200-mm front part of the 200- and 500-mm plinths can be opened from the outside, after installing a kit made up of two locks with double-bar insert, ref. **NSYAEZL**.



Feet for partially buried installation

Allows the partially buried installation of plinths before completion of the floor. The plinths are attached by four feet with a standard length of 750 mm.

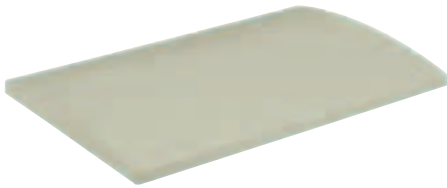
Possibility of horizontal adjustment of the plinth.

The reference includes a kit made up of four feet and fixings, ref. **NSYAEBFZ**.

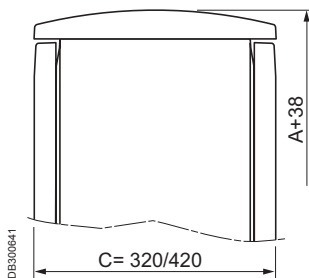
Composition accessories

Top-mounting accessories

Fixing accessories



PB501369



DB3X00641

Canopy

- Polyester material reinforced with fibreglass, moulded by hot compression, self-extinguishing, RAL 7032 grey.
- It can be installed in all enclosure models.
- High resistance to impacts, temperature and bad weather.
- Delivered with the fixings required for installation.
- Increases the height (A) of the enclosure by 38 mm, without modifying its width or depth.
- Essential for outdoor use.

For enclosure (mm)		Reference
Width	Depth (C)	
500	320	NSYTJPLA53
750	320	NSYTJPLA73
1000	320	NSYTJPLA103
1250	320	NSYTJPLA123
500	420	NSYTJPLA54
750	420	NSYTJPLA74
1000	420	NSYTJPLA104
1250	420	NSYTJPLA124



PB501055

Grille for IP 54 instead of IP 44

- For enclosure versions PLAT and PLAZT.
- It is installed from the inside in the upper ventilation opening.
- Delivered with G2 M1 standard synthetic filter, see **ClimaSys** section.
- 1 grille for 500 and 750 mm wide enclosures, 2 grilles for 1000 and 1250 mm wide enclosures.
- Prevents the entry of dust and provides the enclosure with IP 5X protection at the top.
- Maintains the possibility of ventilation.

Description	Reference
Outlet grille	NSYCAG125LPF

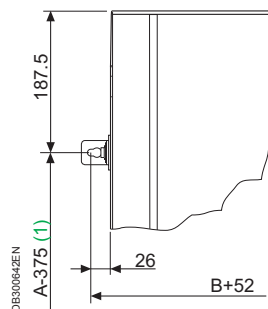


PB500184

Wall-fixing lugs

- Fixing on the sides by 4 or 6 lugs in horizontal position (6 lugs for enclosures with height ≥ 1000 mm).
- Drilling positions and marks inside the side panels.
- Passivated zinc-coated material.
- Maximum acceptable load: 180 kg.
- Set of 6 lugs and fixings.
- 10 mm fixing plane on the rear of the enclosure plane.

Description	Reference
Wall-fixing lugs	NSYFMPLA



DB3X00642EN

(1) For enclosures with height ≥ 1000 mm, 1 extra lug at the centre of the A-375 side.

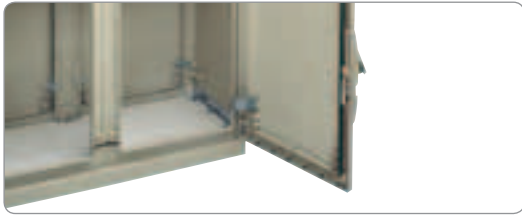


Specific



Available stainless-steel wall-fixing lugs.

PB500183

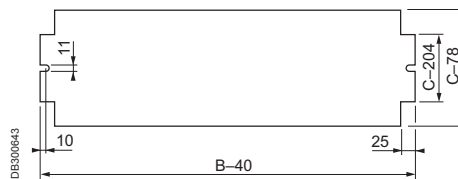


Cable-entry plate

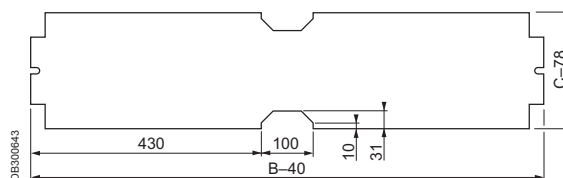
- Designed to be installed inside the enclosures with open bottom part (version PLAZ or PLAZT).
- Polyester material reinforced with fibreglass, thickness 4 mm.
- Easy drilling in specific customised version.
- Delivered with the fixings required for installation.
- Incompatibility with: adapter plates, step slides, internal door and chassis for modular distribution.

For enclosure (mm)		Reference
Width (B)	Depth (C)	
500	320	NSYECPLAZ53
750	320	NSYECPLAZ73
1000	320	NSYECPLAZ103
1250	320	NSYECPLAZ123
500	420	NSYECPLAZ54
750	420	NSYECPLAZ74
1000	420	NSYECPLAZ104
1250	420	NSYECPLAZ124

Cable-entry plate (1-door enclosure)



Cable-entry plate (2-door enclosure)



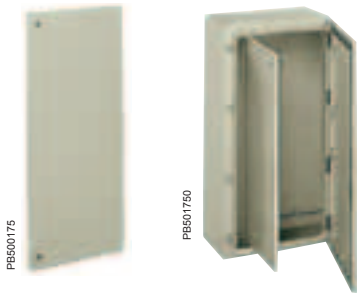
See also
the accessories

Cable management
Cable entries
page 435

Cable holding
page 454

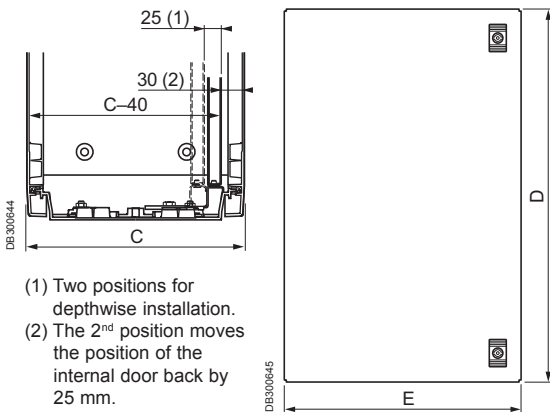
Composition accessories

Door and door accessories



Internal door

- Aluminium door, RAL 7032 grey.
- Designed for direct installation in enclosures with sealed bottom part. In the enclosures with the bottom part open, installation can be performed by ordering the necessary adapter plates, ref. **NSYPTZ●●●**.
- 2 depthwise mounting positions (1) according to the chosen M8 impressions, on the top and bottom parts of the enclosure, for fixing.
- Lock with 5-mm double-bar inserts.
- Delivered with M8 brass inserts and fixings.
- Incompatibility with: modular distribution chassis, 19" chassis, cable-entry plate and door retainer, ref. **NSYRETPLAU**.

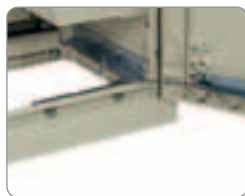


- (1) Two positions for depthwise installation.
- (2) The 2nd position moves the position of the internal door back by 25 mm.

For enclosure (mm)		Reference	Internal door dimensions		Weight (kg)
Height	Width		D	E	
500	500	NSYPAPLA55	398	398	1.6
500	750	NSYPAPLA57	398	648	2.2
500	1000	2 x NSYPAPLA55	398	796 (2 x 398)	3.2 (2 x 1.6)
500	1250	NSYPAPLA55 + NSYPAPLA57	398	1046 (398 + 648)	3.8 (1.6 + 2.2)
750	500	NSYPAPLA75	648	398	2.2
750	750	NSYPAPLA77	648	648	3.1
750	1000	2 x NSYPAPLA75	648	796 (2 x 398)	4.4 (2 x 2.2)
750	1250	NSYPAPLA75 + NSYPAPLA77	648	1046 (398 + 648)	5.3 (2.2 + 3.1)
1000	500	NSYPAPLA105	898	398	2.8
1000	750	NSYPAPLA107	898	648	4.1
1000	1000	2 x NSYPAPLA105	898	796 (2 x 398)	5.4 (2 x 2.8)
1000	1250	NSYPAPLA105 + NSYPAPLA107	898	1046 (398 + 648)	6.9 (2.8 + 4.1)
1250	500	NSYPAPLA125	1148	398	3.4
1250	750	NSYPAPLA127	1148	648	5
1250	1000	2 x NSYPAPLA125	1148	796 (2 x 398)	6.8 (2 x 3.4)
1250	1250	NSYPAPLA125 + NSYPAPLA127	1148	1046 (398 + 648)	8.4 (3.4 + 5)
1500	500	NSYPAPLA155	1398	398	4
1500	750	NSYPAPLA157	1398	648	6
1500	1000	2 x NSYPAPLA155	1398	796 (2 x 398)	8 (2 x 4)
1500	1250	NSYPAPLA155 + NSYPAPLA157	1398	1046 (398 + 648)	10 (4 + 6)



NSYRETPLA



NSYRETPLAU

Door retainer

- Designed to adapt directly to the enclosure.
- 2 models available according to the type of enclosure:
 - 1 model opening to 110° for enclosure versions PLA, PLAZ and PLAT.
 - 1 model with 2 positions, 90° and 120°, for all the versions (warning: this solution is incompatible with certain accessories), see below.
- Can be installed on a door opening to the left or right indistinctly.
- Material: galvanised steel.
- Delivered with the fixings required for installation.

For enclosure	Reference
Version PLA, PLAZ, PLAT	NSYRETPLA
For all versions	NSYRETPLAU

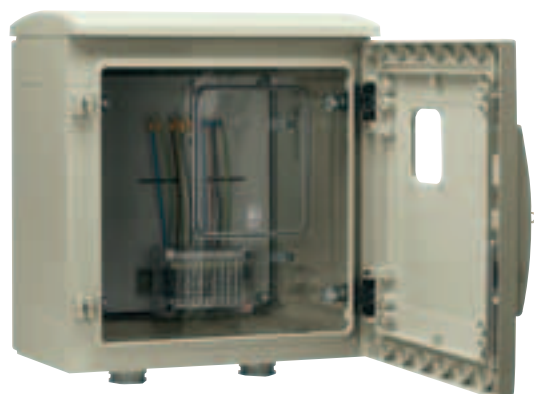
Note: Ref. **NSYRETPLAU** is incompatible with internal doors, modular distribution chassis, step slides, adapter plates and cable-entry plates. In the event of incompatibility, use ref. **NSYRETPLAZ**.



Door switch

- Supply: switch, fixing bracket and fixings.
- NC + NO switch.
- Incompatible with the rear door and modular distribution chassis.

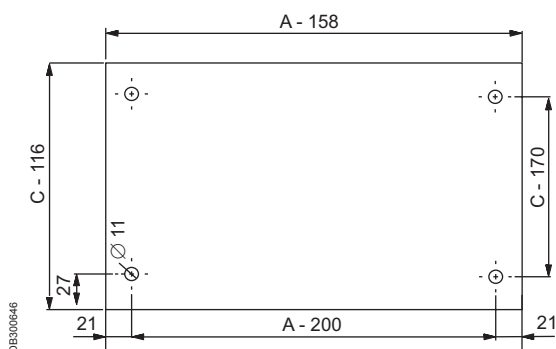
Description	Reference
Door switch	NSYSNLPLA



Protection and support screen

- Protective screen made from transparent polycarbonate, protecting access to the switchgear of small enclosures.
- The screen is fixed using accessory, ref. **NSYSPTR77**, to be ordered separately.
- The screens and fixing accessories are to be ordered in multiples of 5.

For enclosure (mm)		Reference
Width (A)	Height (C)	
500	500	NSYPPTR55
750	500	NSYPPTR57
500	750	NSYPPTR75
750	750	NSYPPTR77

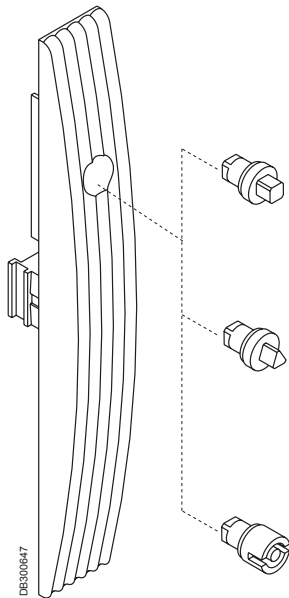


See also
the accessories

Document pocket
page 483

Composition accessories

Locking system



Locks with escutcheon and without handle

- Standard supply for the enclosures with sealed top and bottom parts (PLA version).
- With 5 mm double-bar insert.
- PA6 material charged with fibreglass.
- RAL 7032 grey.
- Fire resistance: 650 °C.
- Resistance to external mechanical impacts: IK 10.
- Insert breakage torque: 15 daN.

Options for changing the form-insert (supplied with the required operating key)

Description	Reference
7 mm square insert	NSYTC7CRN
8 mm square insert	NSYTC8CRN
6.5 mm triangular insert	NSYTT6CRN
8 mm triangular insert	NSYTT8CRN
5 mm double-bar insert	NSYTDB5PLA

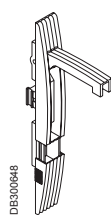


NSYBCPLA

Padlocking device

- Padlocking accessory, preventing access to the lock-control insert. Opening diameter: 14 mm.

Description	Reference
Padlocking device	NSYBCPLA



NSYEBMPLA

Options for changing the handle lock

- Options for changing the escutcheon and the insert for a handle lock, ref. **NSYEBMPLA**, delivered without barrel or insert block.
- The insert or barrel are to be chosen from the option table on the next page.

Customised service: All standard dimensions from our catalogue on request and more...



Configured



Holes & Cutouts



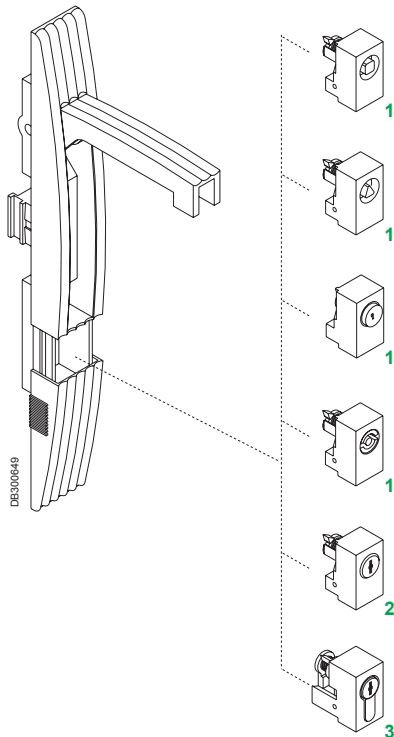
Mounting



Accessories

Composition accessories

Locking system



- 1 Block with form insert.
- 2 Block with cylindrical barrel.
- 3 Block with semi-cylindrical barrel.

Lock with handle

- Ergonomic locking system with pivoting handle installed as standard on enclosures with ventilated canopy and/or open bottom part (versions PLAT, PLAZ and PLAZT), with a 5 mm double-bar insert block.
- Material: PA6 charged with 30% fibreglass.
- RAL 7032 grey.
- Fire resistance: 650 °C.
- Resistance to external mechanical impacts: IK 10.

Options for changing the form-insert blocks (supplied with the required operating key)

Description	Reference
Block, 6 mm square insert	NSYINS61
Block, 7 mm square insert	NSYINS71
Block, 8 mm square insert	NSYINS81
Block, 6.5 mm triangular insert	NSYINT61
Block, 8 mm triangular insert	NSYINT81
Push-button	NSYTSPLA
Double bar	NSYINDB51

Options for changing the blocks with cylindrical barrels

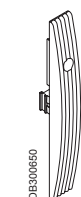
Type of key	Reference	Type of key	Reference
405 E key	NSYIN405E1	2452 E key	NSYIN2452E1
421 E key	NSYIN421E1	3113 A key	NSYIN3113A1
455 key	NSYIN4551	3122 E key	NSYIN3122E1
1242 E key	NSYIN1242E1	3123 A key	NSYIN3123A1
1332 E key	NSYIN1332E1	3133 A key	NSYIN3133A1
2131 A key	NSYIN2131A1	3422 E key	NSYIN3422E1
2132 A key	NSYIN2132A1	3432 E key	NSYIN3432E1
2331 A key	NSYIN2331A1	EDF 1300 key	NSYINF1301
2433 A key	NSYIN2433A1	EDF 1400 key	NSYINF1401

Options for changing the blocks with semi-cylindrical barrels

Description	Reference
1242 E key	NSYIN1242E2
DIN adapter	NSYINDIN2
JIS key	NSYINKJIS2
Reinforced key	NSYINKR2
FAC key	NSYINKFAC2



NSYCBCMPLA



NSYEBPLA

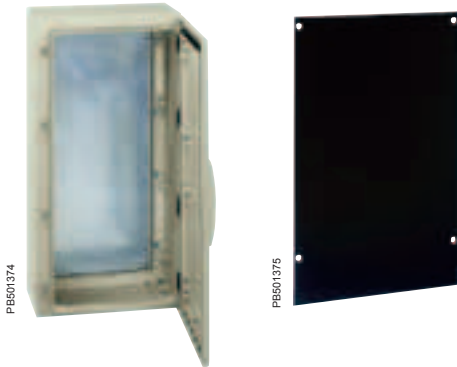
Options for changing the handle

- Changing the handle for a handle including a padlocking device (Ø 10 mm) allowing the handle to be locked. The handle is delivered without barrel or insert block.
- Options for changing the handle lock for a lock with an escutcheon and without handle, delivered without insert. The insert is to be chosen from the option table on the previous page:

Description	Reference
Padlocking handle, without barrel or insert block	NSYCBCMPLA
Escutcheon without handle, without insert	NSYEBPLA

Mounting accessories

Installation accessories



Metallic mounting plate and insulating mounting plate

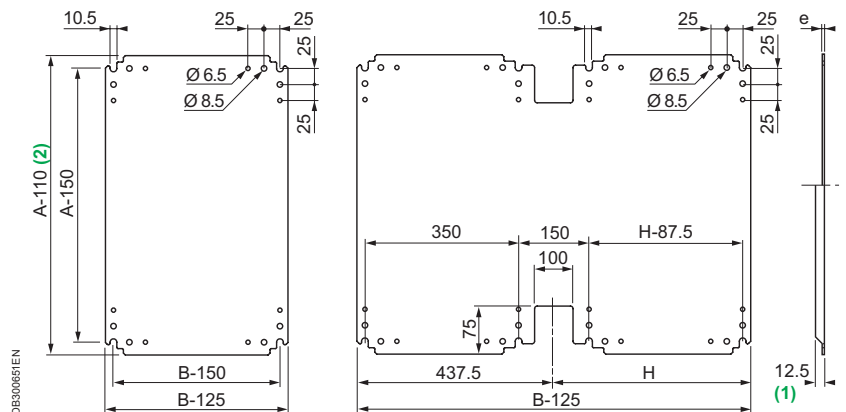
Plain mounting plate

- Galvanised sheet-steel mounting plate.
- Direct installation on M8 inserts at the rear of the enclosure or on step slides for depth adjustment (see page 317). The enclosures with height of ≥ 1000 mm have intermediate impressions for installing mounting plates of a lesser height (M8 inserts, ref. **NSYTEX8**, to be ordered separately).
- In the 2-door enclosures, it is possible to install 1 complete mounting plate or 2 individual mounting plates.
- Maximum acceptable load: 150 kg/m^2 .
- Thickness: 2.5 mm.

Insulating mounting plate

- Bakelite mounting plate, RAL 9005 black.
- Polyester mounting plate, RAL 7035.
- Maximum acceptable load: 150 kg/m^2 .
- Thickness: 4 mm for the 55 and 75 plates, 5 mm for the other plates.

For enclosure (mm)		Mounting plate references			Surf. (dm ²)	H (mm)
Height (A)	Width (B)	Plain	Insulating			
			Bakelite	Polyester		
500	500	NSYPMM55	NSYPMB55	NSYPMA55	14	-
500	750	NSYPMM75	NSYPMB75	NSYPMA75	24	-
500	1000	NSYPMM510	NSYPMB510	NSYPMA510	32	437.5
500	1250	NSYPMM55 + NSYPMM75	NSYPMB55 + NSYPMB75	NSYPMA55 + NSYPMA75	-	-
750	500	NSYPMM75	NSYPMB75	NSYPMA75	24	-
750	750	NSYPMM77	NSYPMB77	NSYPMA77	40	-
750	1000	NSYPMM710	NSYPMB710	NSYPMA710	54	437.5
750	1250	NSYPMM712	NSYPMB712	NSYPMA712	70	687.5
1000	500	NSYPMM105	NSYPMB105	NSYPMA105	33	-
1000	750	NSYPMM107	NSYPMB107	NSYPMA107	55	-
1000	1000	NSYPMM1010	NSYPMB1010	NSYPMA1010	74	437.5
1000	1250	NSYPMM1012	NSYPMB1012	NSYPMA1012	96	687.5
1250	500	NSYPMM125	NSYPMB125	NSYPMA125	42	-
1250	750	NSYPMM127	NSYPMB127	NSYPMA127	70	-
1250	1000	NSYPMM1210	NSYPMB1210	NSYPMA1210	96	437.5
1250	1250	NSYPMM1212	NSYPMB1212	NSYPMA1212	124	687.5
1500	500	NSYPMM155	NSYPMB155	-	51	-
1500	750	NSYPMM157	NSYPMB157	-	85	-
1500	1000	NSYPMM1510	NSYPMB1510	-	118	437.5
1500	1250	NSYPMM1512	NSYPMB1512	-	152	687.5



- (1) Reinforcing fold for steel mounting plate **NSYPMM1010** to **NSYPMM1512**.
- (2) A-125 for references **NSYPMM1010** to **NSYPMM1512**, A-120 for the polyester mounting plate, ref. **NSYPMA...**

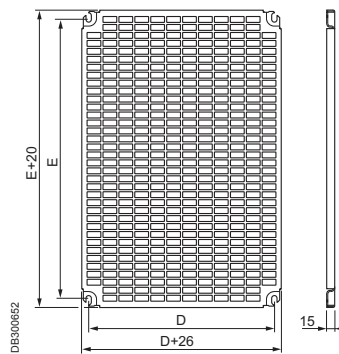
Note: The diagrams above relate to the metal mounting plates. The mounting plates made from insulating material only have 4 or 8 main fixing points and the external dimensions of the diagrams.

PE501376



Telequick mounting plate

- It allows any switchgear to be mounted on the same plane without drilling or tapping.
- Grille made from galvanised sheet steel, with 11 x 26 mm drill holes, with a step of 15 x 30 mm, for direct installation, with clip nuts, of all the devices with fixing at 2, 3 or 4 points, by screws with diameters of 3, 4, 5 or 6 mm.
- Direct installation on M8 inserts at the rear of the enclosure or on step slides for depth adjustment (see page 317). The enclosures with height of ≥ 1000 mm have intermediate impressions for installing mounting plates of a lesser height (M8 inserts, ref. **NSYTEX8**, to be ordered separately).
- Maximum acceptable load: 150 kg/m².



For enclosure (mm)		Reference	Dimensions (mm)		Surface (dm ²)
Height	Width		E	D	
500	500	NSYPMR55	350	350	15.3
500	750	NSYPMR57	350	600	24.6
500	1000	2 x NSYPMR55	350	2 x 350	30.6 (2 x 15.3)
500	1250	NSYPMR55 + NSYPMR57	350	350 600	39.9 (15.3 + 24.6)
750	500	NSYPMR75	600	350	25.5
750	750	NSYPMR77	600	600	51.1
750	1000	2 x NSYPMR75	600	2 x 350	51 (2 x 25.5)
750	1250	NSYPMR75 + NSYPMR77	600	350 600	76.6 (25.5 + 51.1)
1000	500	NSYPMR105	850	350	35.7
1000	750	NSYPMR107	850	600	57.5
1000	1000	2 x NSYPMR105	850	2 x 350	71.4 (2 x 35.7)
1000	1250	NSYPMR105 + NSYPMR107	850	350 600	93.2 (35.7 + 57.5)
1250	500	NSYPMR125	1100	350	45.9
1250	750	NSYPMR127	1100	600	74
1250	1000	2 x NSYPMR125	1100	2 x 350	91.8 (2 x 45.9)
1250	1250	NSYPMR125 + NSYPMR127	1100	350 600	119.9 (45.9 + 74)
1500	500	NSYPMR155	1350	350	56.1
1500	750	NSYPMR157	1350	600	90.4
1500	1000	2 x NSYPMR155	1350	2 x 350	112.2 (2 x 56.1)
1500	1250	NSYPMR155 + NSYPMR157	1350	350 600	146.5 (56.1 + 90.4)



See also the accessories

Telequick mounting plate accessories page 361



Step slides

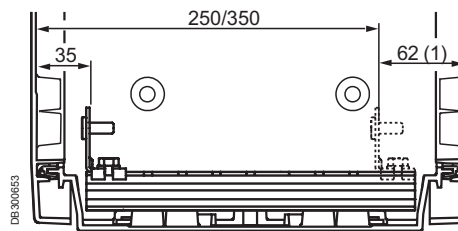
- Set of 4 step slides with brackets allowing continuous depth adjustment of the mounting plate, with a pitch of 25 mm.
- Designed for direct installation in the enclosures with sealed bottom part (versions PLA or PLAT).
- In the enclosures with open bottom part (versions PLAZ or PLAZT), installation is made possible by adding the relevant adapter plates (see tables below and description on the next page).
- Material: bracket with steel M8 stud on aluminium rail.
- Fixing on the top and bottom parts of the enclosure by means of M8 inserts and screws (supplied).
- Incompatibility with: internal door, modular distribution chassis, 19" chassis, cable-entry plate and door retainer, ref. **NSYRETPLAU**.

For enclosure		Reference	
Depth (mm)	N° of doors	Step slides	Adapter plates
320	1	NSYDPLA3	NSYPTZ3
420	1	NSYDPLA4	NSYPTZ4
320	2	2 x NSYDPLA3	NSYPTZ32P
420	2	2 x NSYDPLA4	NSYPTZ42P

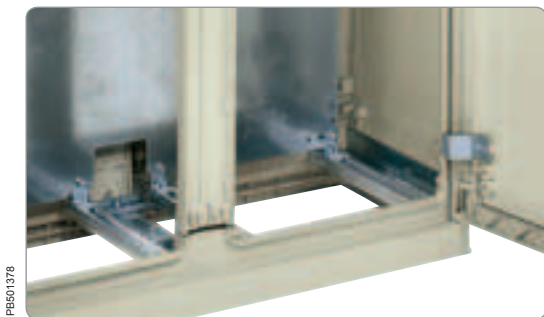


NSYDPLA

Installation of step slide ref. **NSYDPLA●●●**

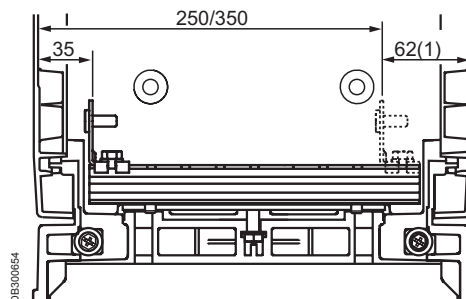


(1) 57 mm with one transparent door.



NSYDPLA and NSYPTZ

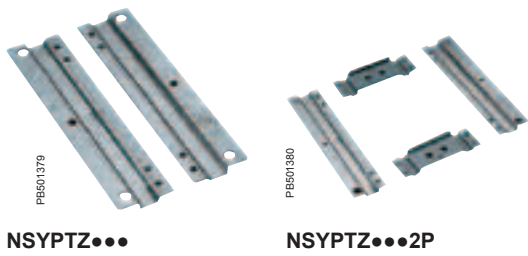
Installation of step slide ref. **NSYDPLA●●●**, with adapter plate ref. **NSYPTZ●●●**



(1) 57 mm with one transparent door.

Mounting accessories

Installation accessories



Adapter plates

- The enclosures with open bottom part (versions PLAZ and PLAZT) require a set of adapter plates for mounting:
 - an internal door
 - step slides
 - modular chassis and 19" chassis
- Material: galvanised steel.
- Fixing on the bottom part of the enclosure by means of M8 inserts and screws (supplied).

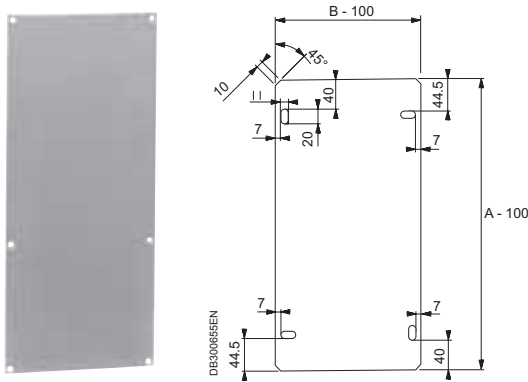
For enclosure		Reference
Depth (mm)	N° of doors	
320	1	NSYPTZ3
420	1	NSYPTZ4
320	2	NSYPTZ32P
420	2	NSYPTZ42P



Additional support

- Set of 4 additional brackets, to be slid into the step slides, for the installation of an additional mounting plate.

Description	Reference
Additional support	NSYEDPLA

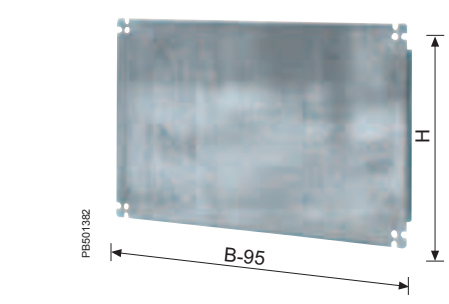


Side mounting plates

- Polyester mounting plates fixed to the sides of the enclosure for additional installations. Installation on the M8 bosses by adding inserts, ref. **NSYTEX8**.

References by unit. Order by multiples of 2 units (2, 4, 6, etc.).

For enclosure (mm)		Reference
Height (A)	Depth (B)	
500	320	NSYPMLA53
500	420	NSYPMLA54
750	320	NSYPMLA73
750	420	NSYPMLA74
1000	320	NSYPMLA103
1000	420	NSYPMLA104
1250	320	NSYPMLA123
1250	420	NSYPMLA124



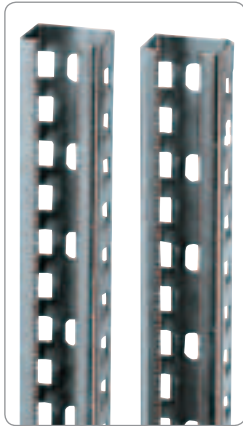
Partial plain mounting plate

- Galvanised sheet-steel mounting plate.
- Direct fixing on the uprights, with the notched sliding nuts or pivoting nuts, see common accessories section.
- Maximum acceptable load: 150 kg/m².

For enclosure Width B (mm)	Mounting plate height H (mm)	Fixing centre-to-centre distance		Reference
		Vertical	Horizontal	
750	247	600	200	NSYSPMP2575
1000	247	850	200	NSYSPMP25100
1000	397	850	350	NSYSPMP40100



PB501383



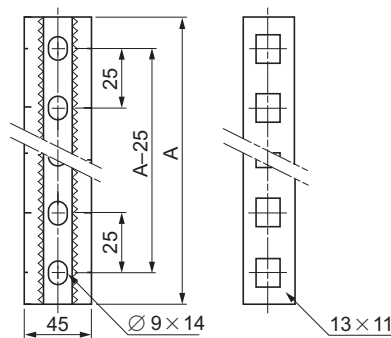
PB501384

Technical uprights

- Supports for fixing rails, perforated grilles and plain partial mounting plates.
- Use the suitable fixings and accessories shown in the common accessory section.
- Material: steel, 2 mm thick.
- Batch of 2 pieces.
- Fixing at the rear on the M8 inserts or on the step slides.

For enclosure	References	Dimensions
Height (mm)		
750	NSYTVR7	625
1000	NSYTVR10	875
1250	NSYTVR125	1125
1500	NSYTVR15	1375

Note: Enclosures with widths of 1000 and 1250 allow the installation of 4 uprights to integrate 2 mounting plates of 500 mm or of 500 and 750 mm.



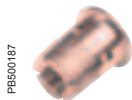
DB300656



PB501177

Rails

- Fixings and accessories: see common accessories.



PB501187

M8 inserts

- To be placed in the bosses moulded on the doors, uprights, rear panels and bottom and top parts, for fixing accessories and assorted devices.

References by unit. Order by multiples of 8 units (8, 16, 24, etc.).

Description	Reference
M8 inserts	NSYTEX8



See also the accessories

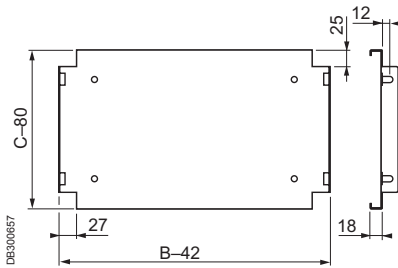
Other uprights page 358

Rails and fixings page 381

Fixing accessories page 756

Mounting accessories

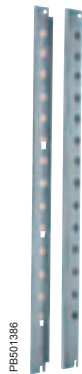
Equipment support accessories



Support plate

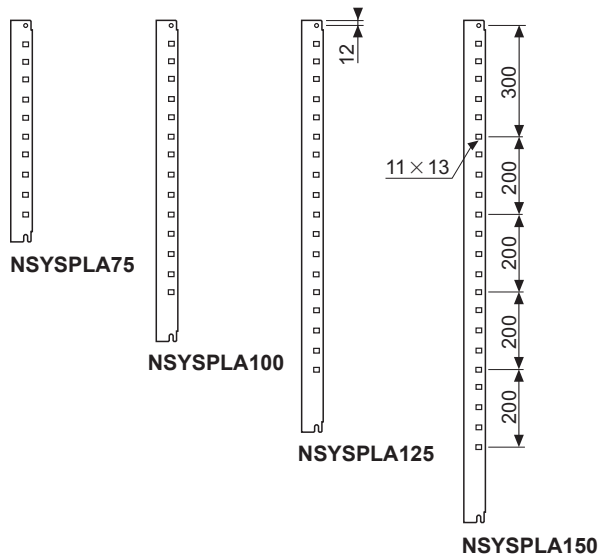
- Designed to support assorted equipment or simply to install a separation.
- It is installed directly on the bottom part of the enclosure.
- For the installation of one or several support plates, use 2 sets of 2 uprights suitable for the height (to be ordered separately). These uprights offer the option of adjusting the height with a step of 50 mm.
- Galvanised-steel material.
- Delivered with the fixings required for installation.
- In the 2-door enclosures, the installation of the plate or the uprights requires the prior installation of an intermediate support, ref. **NSYSBPLA**, presented below.

For enclosure (mm)		Max. load	Plate Reference
Depth (C)	Width (B)		
320	500	60 kg	NSYBANPLA53
320	750	60 kg	NSYBANPLA73
420	500	50 kg	NSYBANPLA54
420	750	50 kg	NSYBANPLA74



NSYSPLA100

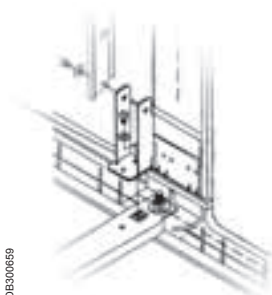
For enclosure Height (mm)	N° of adjustments	Upright Reference
500	-	-
750	2	2 x NSYSPLA75
1000	3	2 x NSYSPLA100
1250	4	2 x NSYSPLA125
1500	5	2 x NSYSPLA150



Intermediate support in the 2-door enclosures

- Required accessory for installing support plates, ref. **NSYBANPLA●●●** or uprights, ref. **NSYSPLA●●●** in the 2-door enclosures.

Description	Reference
Intermediate support	NSYSBPLA





Renovation and anti-graffiti paint

- 2-component paint system, specially formulated for polyester enclosures. Renews enclosures and allows easy removal of graffiti.
- Paint composed of: base (80%) and hardener (20%).
- RAL 7032 grey.
- 2 references available:
 - 1 kg:
 - 800 g tin of base paint
 - 200 g tin of hardener
 - 5 kg:
 - 4 kg tin of base paint
 - 1 kg tin of hardener
- Coverage
 - 1 kg = 5 m²
 - 5 kg = 25 m²
- Solvent in 500 g bottles to be used as a paint thinner or to clean brushes.

Description	Reference
Anti-graffiti paint 1 kg	NSYAUPG1
Anti-graffiti paint 5 kg	NSYAUPG5
Anti-graffiti paint solvent 500 g	NSYAUPGS



Discover our ClimaSys thermal management offer

- Ventilation accessories.
- Filters.
- Regulation accessories.



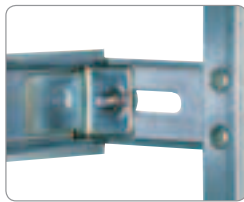
See also
the accessories

Current distribution
accessories
(rail of sockets)
page 474

Lighting
page 473



PB501387



PB501388

Details of the depth adjustment.

Modular distribution chassis

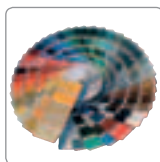
- Chassis for modular switchgear, installed directly in the sealed enclosures (PLA version). For installation in enclosures with open bottom part (PLAZ version) it is necessary to use a set of adapter plates (ref. **NSYPTZ●●●**).
- Chassis made up of cover plates, made from self-extinguishing insulating material, RAL 7032 grey, on a rigid galvanised-steel structure.
- Quick installation without fixings.
- Distance between rail and front panel with adjustable depth from 40 to 85 mm.
- System for identifying electrical circuits supplied.
- Neutral/earth strip: 2x16 mm² + 5x6 mm² included in the standard offer.
- Incompatibility with: cable-entry plate, internal door, door switch and door retainer (ref. **NSYRETPLAU**).



Customised service: All standard dimensions from our catalogue on request and more...



Specific



PB501688

Paints



PB500359

Holes & Cutouts



PB501680

Mounting



PB501691

Construction changes



PB501692

Accessories

Power distribution accessories

Modular distribution accessories

For enclosures (mm)		N° of doors	Reference	Row distribution			
Height	Width			N° of rows	Rows for module		Number of plates
					Number	Number of 18-mm modules	
750	500	1	NSYDLP76	4	4	76	-
750	500	1	NSYDLP57	4	3	57	1
750	750	1	NSYDLP132	4	4	132	-
750	750	1	NSYDLP99	4	3	99	1
750	1000	2	2 x NSYDLP76	4 + 4	4 + 4	152	-
750	1000	2	2 x NSYDLP57	4 + 4	3 + 3	114	1 + 1
750	1250	2	NSYDLP76 + NSYDLP132	4 + 4	4 + 4	208	-
750	1250	2	NSYDLP57 + NSYDLP99	4 + 4	3 + 3	156	1 + 1
1000	500	1	NSYDLP114	6	6	114	-
1000	500	1	NSYDLP95	6	5	95	1
1000	750	1	NSYDLP198	6	6	198	-
1000	750	1	NSYDLP165	6	5	165	1
1000	1000	2	2 x NSYDLP114	6 + 6	6 + 6	228	-
1000	1000	2	2 x NSYDLP95	6 + 6	5 + 5	190	1 + 1
1000	1250	2	NSYDLP114 + NSYDLP198	6 + 6	6 + 6	312	-
1000	1250	2	NSYDLP95 + NSYDLP165	6 + 6	5 + 5	260	1 + 1
1250	500	1	NSYDLP133	7	7	133	-
1250	500	1	NSYDLP114P	7	6	114	1
1250	750	1	NSYDLP231	7	7	231	-
1250	750	1	NSYDLP198P	7	6	198	1
1250	1000	2	2 x NSYDLP133	7 + 7	7 + 7	266	-
1250	1000	2	2 x NSYDLP114P	7 + 7	6 + 6	228	1 + 1
1250	1250	2	NSYDLP133 + NSYDLP231	7 + 7	7 + 7	364	-
1250	1250	2	NSYDLP114P + NSYDLP198P	7 + 7	6 + 6	312	1 + 1
1500	500	1	NSYDLP171	9	9	171	-
1500	500	1	NSYDLP152	9	8	152	1
1500	750	1	NSYDLP297	9	9	297	-
1500	750	1	NSYDLP264	9	8	264	1
1500	1000	2	2 x NSYDLP171	9 + 9	9 + 9	342	-
1500	1000	2	2 x NSYDLP152	9 + 9	8 + 8	304	-
1500	1250	2	NSYDLP171 + NSYDLP297	9 + 9	9 + 9	468	1 + 1
1500	1250	2	NSYDLP152 + NSYDLP264	9 + 9	8 + 8	416	1 + 1



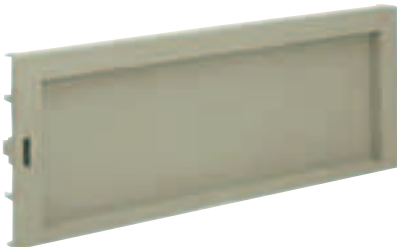
PB501389

Detail from front-panel mounting.

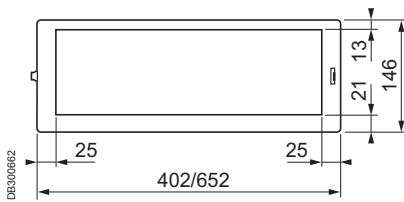


PB501390

Detail from the circuit-marking system.



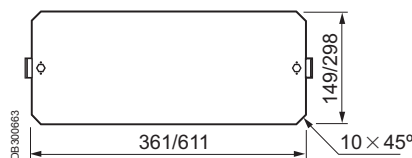
PB501391



DB300662

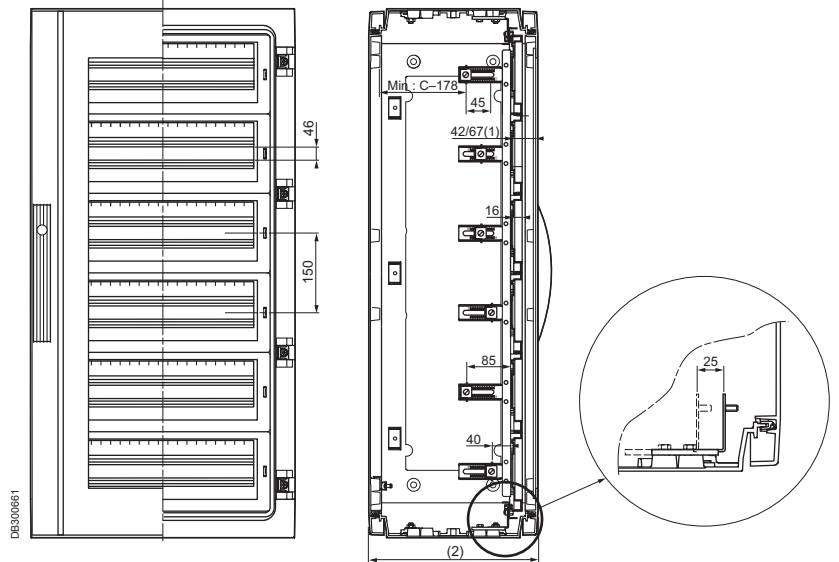


PB501392



DB300663

Dimensions



- (1) Dimensions of 42 or 67 mm or a pitch of 25 mm, according to the M8 boss chosen for the installation. See details in the enlarged image on the right. In the enclosures with glazed doors, the 2 dimensions are reduced by 5 mm.
- (2) C = Depth of the enclosure.

Plain cover plate

- Self-extinguishing insulating material, RAL 7032 grey, for non-modular switchgear protection.
- Nominal height: 150 mm.
- Order by multiples of 2 (2, 4, 6...).

For enclosure width (mm)	Dimensions (mm)		Reference
	Height	Width	
500	146	402	NSYCTL500DLP
750	146	652	NSYCTL750DLP

Plain mounting plate

- Plate for fixing non-modular devices.
- Material: galvanised steel, 2 mm thick.
- Depth-adjustable fixing on the supports from 40 to 85 mm.
- Nominal height: 150 mm or 300 mm.
- Order by multiples of 2 (2, 4, 6...).

For enclosure width (mm)	Dimensions (mm)		Reference
	Height	Width	
500	149	361	NSYPMP500DLP
750	149	611	NSYPMP750DLP
500	298	361	NSYPMP5002DLP
750	298	611	NSYPMP7502DLP

19" chassis

- Very sturdy 19" metal chassis, designed for installation in enclosures with a width of 750 and 1250 mm. In the 1250 mm enclosure, the chassis is installed in the 750 mm part with an intermediate support, ref. **NSYSBPLA**.
- These chassis are available in 2 versions: fixed and swing.
- These chassis can be used as partial mounting plates in enclosures with higher-than-nominal height.
- Incompatible with the internal doors and the step slides.



Enclosure with 19" fixed chassis.

19" fixed chassis

- Fixed chassis made up of 2 uprights with fixings.
- For heights from 750 to 1500 mm, the installation requires ordering 1 batch of 2 matching uprights. If a chassis is installed in an enclosure with a greater height, it is necessary to use the suitable uprights for the size of the enclosure.
- Material: sheet steel, thickness 20 / 10 mm, RAL 7032 grey epoxy-polyester paint.
- Maximum load: 3 kg per U.

For enclosure (mm)		Number of U	Reference	
Height	Width		19" fixed chassis	Batch of 2 uprights
500	750	8	NSYBRF8PLA	-
750	750	12	NSYBRF12PLA	NSYSPLA75
1000	750	17	NSYBRF17PLA	NSYSPLA100
1250	750	21	NSYBRF21PLA	NSYSPLA125
1500	750	26	NSYBRF26PLA	NSYSPLA150



Enclosure with 19" swing chassis.

19" swing chassis

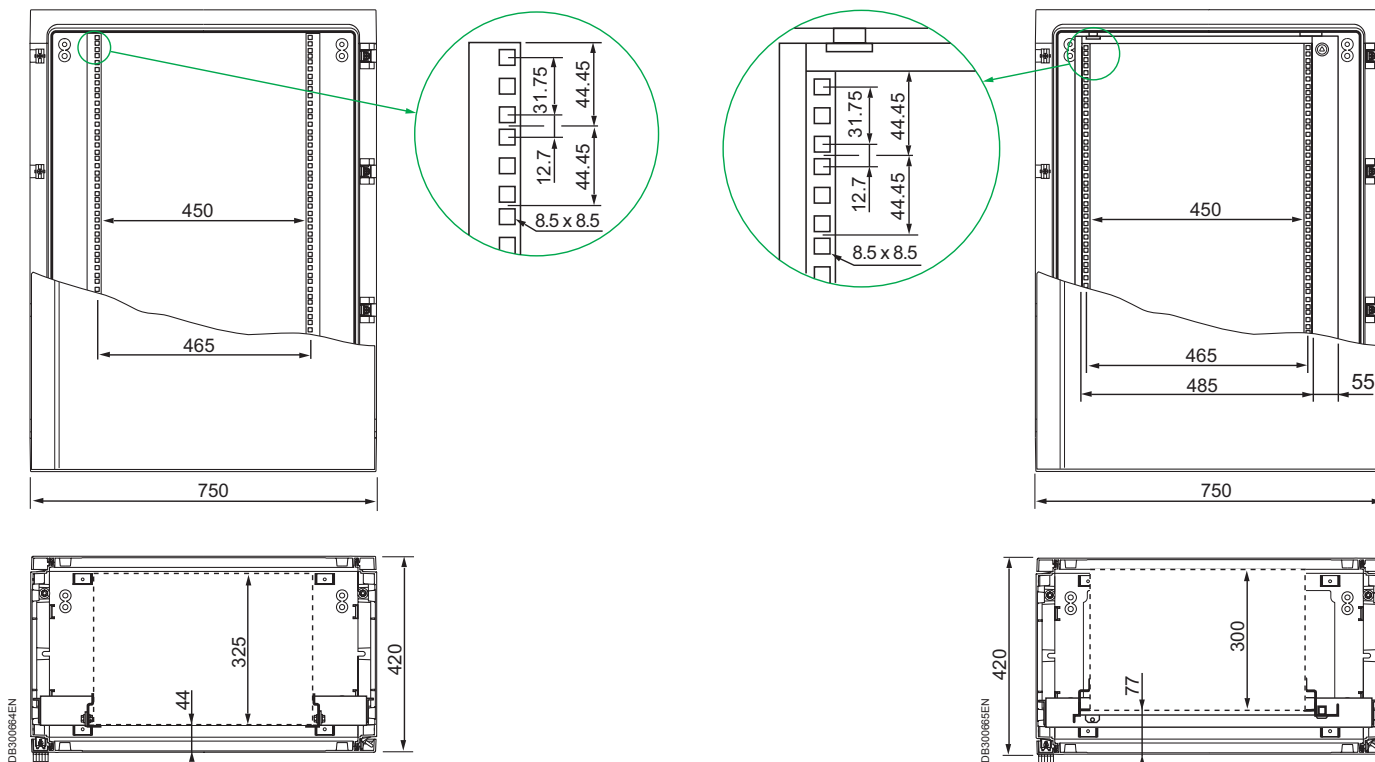
- Swing chassis opening to 120° with 5 mm double-bar key lock.
- For heights from 750 to 1500 mm, the installation requires ordering 1 batch of 2 matching uprights. If a chassis is installed in an enclosure with a greater height, it is necessary to use the suitable uprights for the size of the enclosure.
- Material: sheet steel, thickness 20 / 10 mm, RAL 7032 grey epoxy-polyester paint.
- Maximum load: 3 kg per U.

For enclosure (mm)		Number of U	Reference	
Height	Width		19" swing chassis	Batch of 2 uprights
500	750	7	NSYBRP7PLA	-
750	750	11	NSYBRP11PLA	NSYSPLA75
1000	750	16	NSYBRP16PLA	NSYSPLA100
1250	750	20	NSYBRP20PLA	NSYSPLA125
1500	750	25	NSYBRP25PLA	NSYSPLA150

Dimensions

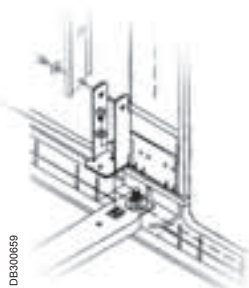
19" fixed chassis

19" swing chassis



Intermediate support in the 2-door enclosures

- Accessory required for installing uprights, ref. NSYSPLA●●●, in the 2-door enclosures.



Description	Reference
Intermediate support	NSYSPLA

Polyester DIN floor-standing enclosure

Safety

- Full insulation for class II units.
- No risk to the public.
- Lock with 3-point closure.

Application

Designed to accommodate busbars.

Service life

High resistance to corrosion in harsh environments, maintaining its mechanical and insulation properties.

Installation on semi-embedded plinth

Facilitates the entry and positioning of cables.



PE500078

Customisation

- Horizontal or depthwise coupling.
- Rear door.

Smart

Removable cross rail.

Easy

- Bosses for fixing inserts on the rear, the door and the side walls.
- Removable hinges.



PE501386

Smart

Removable cross rail.

Polyester DIN floor-standing enclosure

Introduction



Floor-standing enclosures designed mainly to accommodate busbars and DIN-type three-pole LV fuse, for LV public distribution network. The properties of the material and the manufacturing process are identical to those of the Thalassa PLA range.

Technical characteristics

- Floor-standing enclosures, made from polyester reinforced with fibreglass, moulded by hot compression, RAL 7032 grey colour.
- Direct fixing to the floor or on a plinth, with a height of 900 mm, partially embedded.
- Resistance to external mechanical impacts: IK 10 (20 joules).
- Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure.
- Ventilated floor-standing enclosures with a degree of protection of IP 43, according to IEC 60529 (IP 54 with sealing kit, see page 331).
- Floor-standing enclosure with built-in canopy, not overhanging, allowing the coupling of enclosures side-to-side or back-to-back.
- Easily removable inner hinges, allowing the door to be reversed and to open to more than 180°.
- Doors equipped with impressions allowing the integration of inserts for M6 screws.
- Closing by handle with lever and 1242 E cylindrical safety lock. Other locks optionally available (see page 331).
- Fixing points at the rear of the enclosure with:
 - M10 inserts: for installing, direct or on insulators, distribution bars for DIN-type three-pole fuse-holder strips and for a neutral bar.
 - M6 inserts: for installing a mounting plate.
- 2-door floor-standing enclosure with central upright:
 - Fixed to the enclosure and removable: one lock on each door.
 - Fixed to the left door: a single lock on the right door.
- M8 boss for installation on the lateral surfaces, inserts ref. **NSYTEX8** not supplied.
- M6 bosses in the roof for fixing the lighting or auxiliary equipment, inserts ref. **NSYTEX6** not supplied.



Enclosure ref. **NSYPLD8122** with the central upright fixed to the left door.



Enclosure ref. **NSYPLD8122C** with central upright, 2 doors and 2 locks.

Selection guide for floor-standing enclosures and accessories

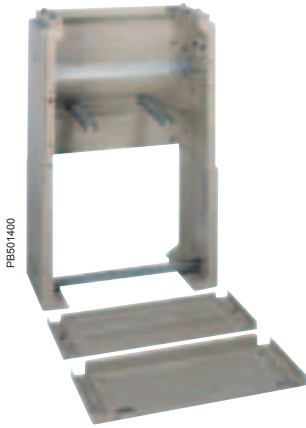


External dimensions (mm)			Floor-standing enclosures	Size DIN	No. of doors	No. of locks	Insulating mounting plates	Plinths	Number of fittings*
Height	Width (B)	Depth					Page 332	Page 329	
850	465	320	NSYPLD8500	00	1	1	NSYAPLD85	NSYZD5300	3 + N
850	590	320	NSYPLD860	0	1	1	NSYAPLD86	NSYZD630	4 + N
850	785	320	NSYPLD881	1	1	1	NSYAPLD88	NSYZD831	6 + N
850	1115	320	NSYPLD8122	2	2	1	NSYAPLD812	NSYZD1232	9 + N
850	1115	320	NSYPLD8122C	2	2	2	NSYAPLD812	NSYZD1232	9 + N

*Number of fuse-holder blocks + N = nut for direct connection fitting (e.g. 3 + N).

Plinth for DIN floor-standing enclosure

Introduction



PB501400

Plinth height 900 mm

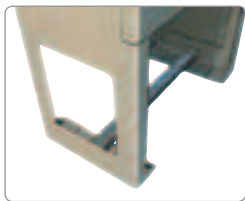
- Polyester plinth, reinforced with fibreglass, moulded by hot compression, RAL 7032 grey colour.
- Easy machining.
- Embeddable plinth ready for direct fixing of DIN floor-standing enclosures.
- Retractable top front panel, providing easy access to the inside of the enclosure.
- On the rear panel, housings with M6 inserts, allowing the fixing of the plate, DIN rail or assorted hardware.
- Lateral uprights with knock-out auxiliary outlet with a diameter of Pg 36 (48 mm).
- Internal U- and L-shaped metal uprights, adjustable, for fixing cables.
- A knock-out zone is provided at the bottom of the lateral uprights for cable entry.



PB501401

Knock-out Pg 36 auxiliary outlet.

For floor-standing enclosure	References
Width (mm)	
465	NSYZD5300
590	NSYZD630
785	NSYZD831
1115	NSYZD1232



PB501402

Lateral knock-out is removed.



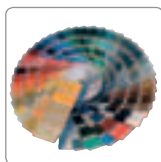
PB501403

Removable top front panel (not hinged).

Customised service: All standard dimensions from our catalogue on request and more...



Specific



PB501688

Paints



PB500359

Holes & Cutouts



PB501680

Mounting



PB501691

Construction changes



PB501692

Accessories

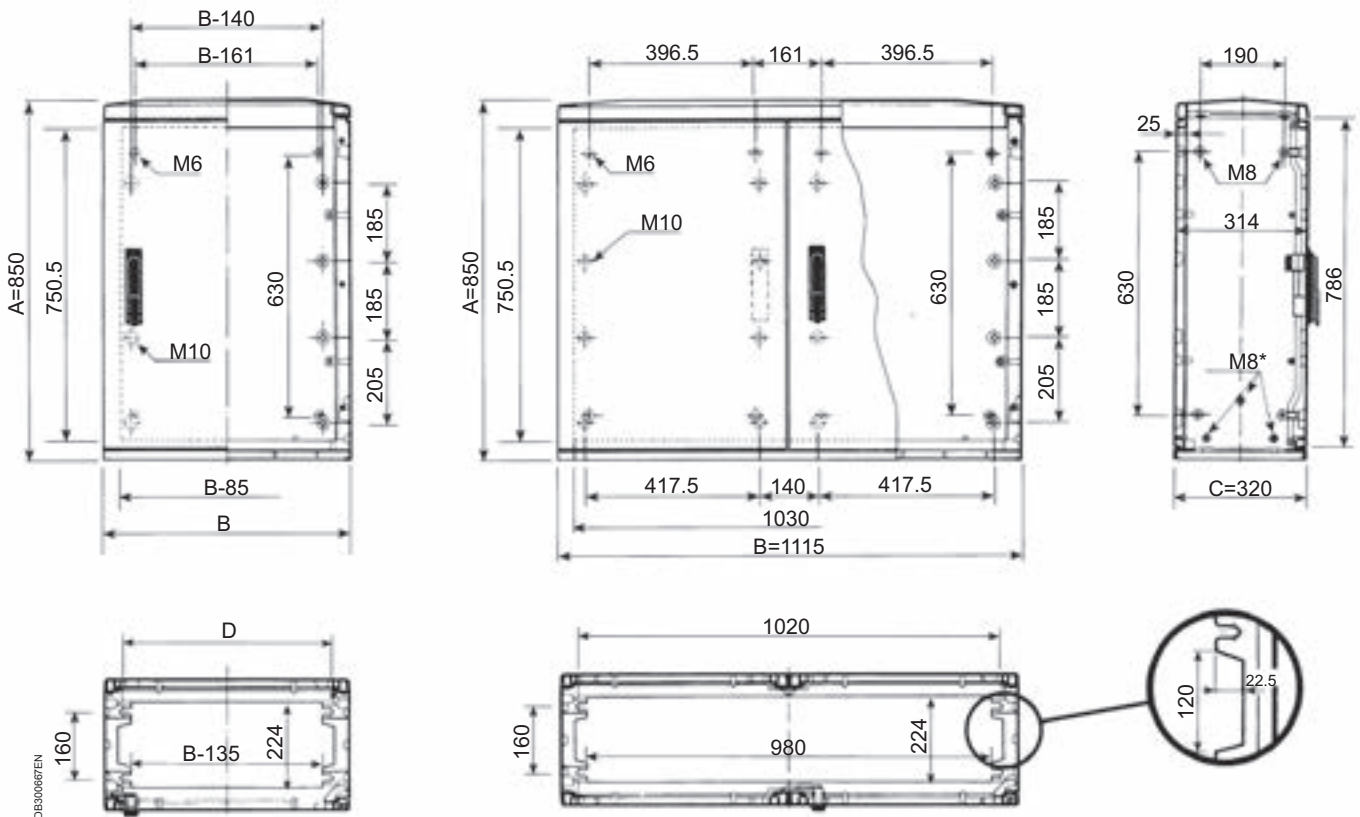
Polyester DIN floor-standing enclosure

Dimensions

B (mm)	D* (mm)	References	
		Floor-standing enclosures	Plinths
465	360	NSYPLD8500	NSYZD5300
590	495	NSYPLD860	NSYZD630
785	690	NSYPLD881	NSYZD831
1115	1020	NSYPLD8122	NSYZD1232

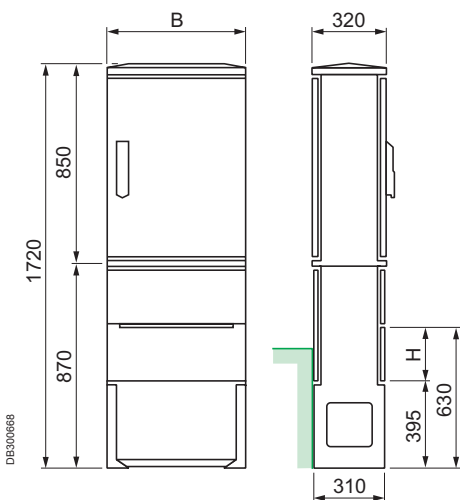
*Distance between the points for fixing the enclosure to the plinth.

Floor-standing enclosures

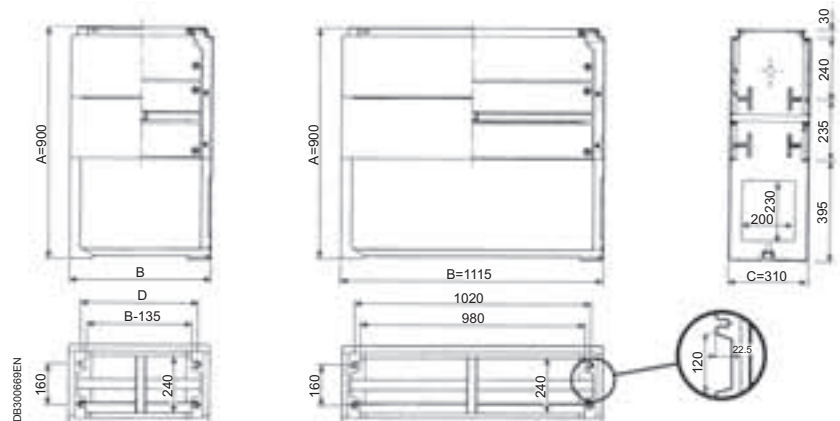


*Housing for M8 inserts, ref. **NSYTEPLDM8** (to be ordered in multiples of 25).

Floor-standing enclosure plus plinth



Plinths



The H dimension relates to the finished floor height area.

Polyester DIN floor-standing enclosure

Composition accessories

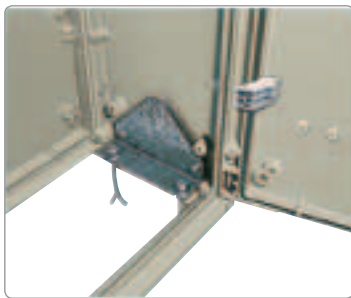


PE501404

IP 54 sealing kit

- Placed directly on the door and on the rear of the enclosure.
- Provides a degree of protection of IP 54.
- Seal made from black synthetic rubber.

For floor-standing enclosure		References
Width (mm)		
465		NSYJED8500
590		NSYJED860
785		NSYJED881
1115		NSYJED8122

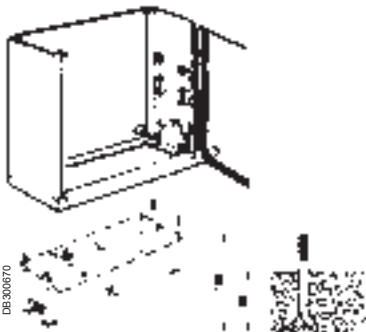


PE501405

Floor-standing supports

- Set of 2 metal supports for fixing the enclosure directly to the floor.

Name	Reference
Floor-standing support	NSYSPLD



DE330670

Table of fixing and opening dimensions			
K	L	M	For floor-standing enclosures
360	320	224	NSYPLD8500
495	455	224	NSYPLD860
690	650	224	NSYPLD881
1020	980	224	NSYPLD8122 and NSYPLD8122C

Locks and inserts

Locks

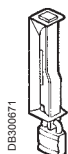
- Standard lock with retractable plastic handle and 1242 E semi-cylindrical safety lock.
- Other optional shape inserts or barrels and keys.



PE501406

Inserts for optional change

Name	References
5-mm double bar	NSYTD85ME
6-mm male square	NSYTC6ME
7-mm male square	NSYTC7ME
8-mm male square	NSYTC8ME
6.5-mm male triangle	NSYTT6ME
8-mm male triangle	NSYTT8ME
Barrel and key 405	NSYTCL405ME
Reinforced semi-cylindrical barrel and key	NSYTLRME
JIS key and barrel	NSYTLJISME



DE330671

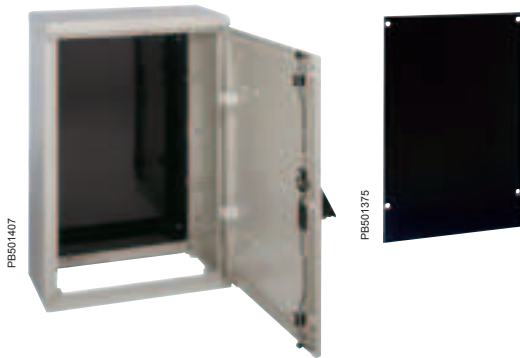
Padlocking accessory

- Padlocking system, for Ø 9 mm padlock, preventing access to the handle.

Name	Reference
Padlocking accessory	NSYBCME

Polyester DIN floor-standing enclosure

Mounting accessories



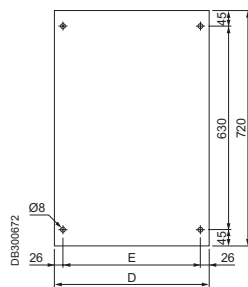
Insulating mounting plate

- It is placed directly on the rear of the enclosure.
- Insulating material, RAL 9005 black bakelite, thickness 5 mm.

For floor-standing enclosure	D (mm)	E (mm)	Weight (kg)	References
Width (mm)				
465	356	304	2	NSYAPLD85
590	481	429	2.7	NSYAPLD86
785	676	624	3.8	NSYAPLD88
1115	448.5	396.5	5	NSYAPLD812*

*The reference includes 2 mounting plates with the dimensions of the table.

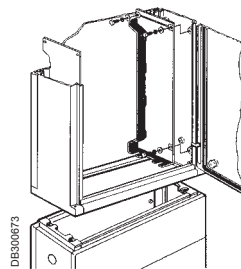
Dimensions



Lateral uprights for busbars

- Made from RAL 7032 grey polyester.
- They are fixed to the plinth, ref. **NSYZD●●●**.
- They are designed to accommodate busbars, fixed to the built-in inserts.
- This installation is used with a polyester DIN floor-standing enclosure previously machined to obtain a completely open bottom part. This machining is available in the customised offer.
- The enclosure is positioned from the top on the set made of both lateral uprights plus the plinth.
- The fixings supplied allow the attachment of the 2 uprights to the enclosure.

Name	Reference
Lateral uprights	NSYBPLDN



LV public distribution application with DIN three-pole fuse blocks: floor-standing enclosure and plinth

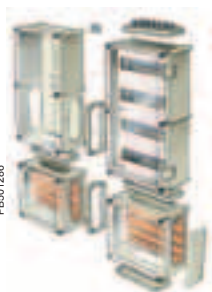
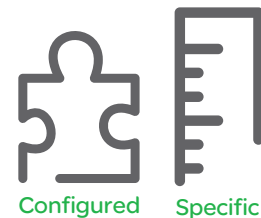


See also the accessories

Inserts
page 319

Document pocket
page 483

Lighting
page 473



Machined, coupled and equipped Thalassa PLS boxes



Thalassa PLM wall-mounting enclosure machined in the factory to accommodate cable glands



Thalassa PLA floor-standing enclosure with accessories installed in the factory

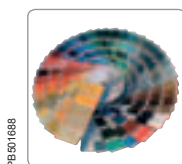


Coupled Thalassa PLA floor-standing enclosures with accessories installed in the factory

Customised service: All standard dimensions from our catalogue on request and more...



Specific



Paints



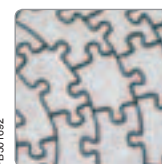
Holes & Cutouts



Mounting



Construction changes



Accessories

Accessories

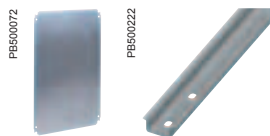
 <p>PE500072</p>  <p>PE500222</p>	Mounting 337
 <p>PE500073</p>	Power distribution 395
 <p>PE500023</p>  <p>PE500218</p> 	Cable management 433
 <p>PE501890</p>	Terminal blocks 465
 <p>PE501706</p>	Lighting and power socket 473
 <p>PE500188</p>  <p>PE500223</p>	Door accessories 481
 <p>PE500084</p>  <p>PE500217</p>	Other accessories 491

Mounting accessories



Mounting accessories

Contents



Installation accessories **338**

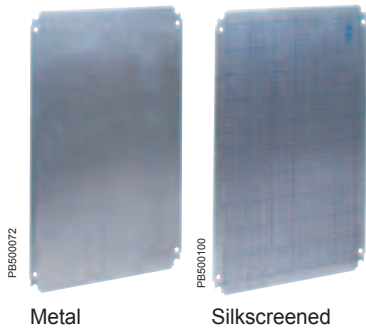
Cross rails & profiles **366**

Equipment support accessories **375**

19" Chassis **378**

Rails **379**

Nuts and screws for rails **391**



Metal

Silkscreened

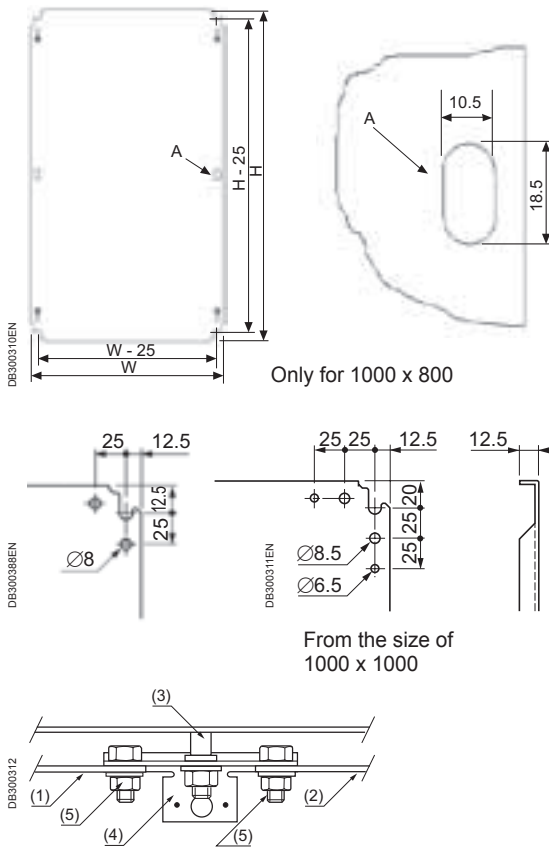
Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility	✓	✓				✓					✓		

Plain and silkscreened mounting plates

- Galvanised-steel mounting plates.
- Galvanised-steel mounting plates, silkscreened for easier distribution of the products to be installed.
- Centimetric grid pattern.



Supply: 1 mounting plate and fixing elements.



For wall-mounting enclosure (mm)		H (mm)	W (mm)	Surface (dm ²)	Maximum load (kg)	Weight (kg)	Reference	
Height	Width						Metal	Silkscreened
200	200	150	150	2.3	40	0.4	NSYMM22	-
200	300	150	250	3.7	40	0.6	NSYMM23	-
250	200	200	150	3	40	0.5	NSYMM2520	-
250	400	200	350	7	60	0.8	NSYMM2540	-
250	500	200	450	9	60	1.1	NSYMM2550	-
300	200	250	150	3.7	60	0.6	NSYMM32	-
300	250	250	200	5	60	0.7	NSYMM3025*	-
300	300	250	250	6.3	60	0.9	NSYMM33	-
300	400	250	350	8.8	60	1.25	NSYMM43*	NSYMS43*
300	450	250	400	10	60	1.4	NSYMM3045	-
300	600	250	550	13.8	60	2	NSYMM36	-
400	400	350	350	12.3	60	1.7	NSYMM44	NSYMS44
400	600	350	550	12.3	90	2.7	NSYMM64*	NSYMS64*
400	800	350	750	26.3	90	3.8	NSYMM48	-
500	300	450	250	11.3	60	1.65	NSYMM53*	NSYMS53*
500	400	450	350	15.8	90	2.2	NSYMM54	NSYMS54
500	500	450	450	20.3	90	2.95	NSYMM55*	NSYMS55*
600	400	550	350	19.3	90	2.7	NSYMM64	NSYMS64
600	500	550	450	24.8	90	3.6	NSYMM65	-
600	600	550	550	30.3	135	4.4	NSYMM66	NSYMS66
700	500	650	450	29.3	135	4.25	NSYMM75	NSYMS75
700	600	650	550	35.8	135	5.2	NSYMM76	-
800	600	750	550	41.3	135	8.1	NSYMM86*	NSYMS86*
800	800	750	750	56.3	150	11	NSYMM88	-
1000	600	950	550	52.3	150	10.2	NSYMM106	-
1000	800	950	750	71.3	150	13.9	NSYMM108*	-
1000	1000	950	950	90.3	180	18.1	NSYMM1010	-
1200	600	1150	550	63.3	180	12.8	NSYMM126	-
1200	800	1150	750	86.3	180	17.35	NSYMM128*	-
1200	1000	1150	950	109.3	180	21.9	NSYMM1210*	-
1200	1200	1150	1150	132.3	180	26.45	NSYMM1212	-
1400	1000	1350	950	128.3	180	25.7	NSYMM1410	-

* Plate with reversible dimensions; it can be installed in enclosures with inverted dimensions.

Example:

Plate ref. **NSYMM64** can be used for the following enclosures:

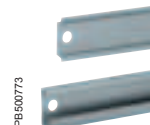
- H 600 x W 400 mm.
- H 400 x W 600 mm.
- In wall-mounting enclosures with widths of 1000 and 1200 mm, it is possible to install 2 mounting plates at different depths using an additional central step slide **NSYSDRSDCR** (more information on page 344).



See also the accessories



Step slides page 344



Rails and uprights page 379

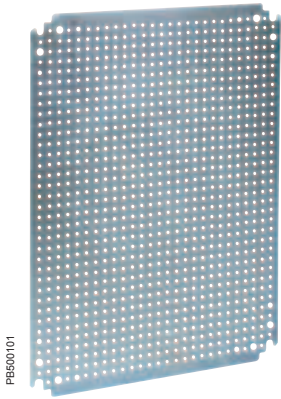


Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility	✓	✓				✓					✓		

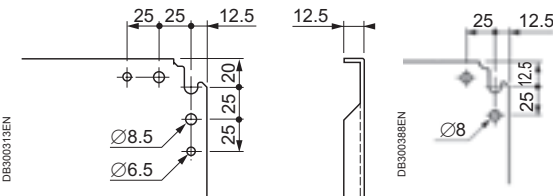
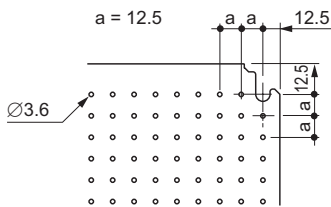
Microperforated mounting plate

- Galvanised-steel microperforated mounting plates.
- They considerably reduce the products installation time thanks to the holes prepared to receive the self-tapping screws.
- Holes with Ø 3.6 mm in steps of 12.5 mm.

Supply: 1 mounting plate and fixing elements.



PB500101



From the size of 1000 x 1000

For enclosures		Height (mm)	Width (mm)	Surface (dm ²)	Maximum load (kg)	Weight (kg)	Reference
Height (mm)	Width (mm)						
300	200	250	150	3.8	60	0.55	NSYMF32
300	300	250	250	6.3	60	0.95	NSYMF33
300	400	250	350	8.8	60	1.35	NSYMF43*
400	400	350	350	12.3	60	1.85	NSYMF44
500	300	450	250	11.3	60	1.70	NSYMF53
500	400	450	350	15.8	90	2.40	NSYMF54
500	500	450	450	20.3	90	3.05	NSYMF55
600	400	550	350	19.3	90	2.95	NSYMF64*
600	500	550	450	24.8	90	3.60	NSYMF65
600	600	550	550	30.3	135	4.55	NSYMF66
700	500	550	450	29.3	135	4.40	NSYMF75
800	600	750	550	41.3	135	7.70	NSYMF86*
800	800	750	750	56.3	150	10.55	NSYMF88
1000	600	950	550	52.3	150	9.75	NSYMF106
1000	800	950	750	71.3	150	13.30	NSYMF108*
1000	1000	965	965	93.1	180	17.10	NSYMF1010
1200	600	1165	565	65.8	180	12.05	NSYMF126
1200	800	1165	765	89.1	180	16.35	NSYMF128
1200	1000	1165	965	112.4	180	20.65	NSYMF1210*

* Reversible mounting plate; it can be installed in enclosures with inverted dimensions.

Example:

Plate ref. **NSYMF64** can be used for the following enclosures:

- H 400 x W 600 mm.
- H 600 x W 400 mm.

Mounting plate elevator to mount the Microperforated mounting plate at the same level as the other Telequick system components.

Supply: 4 units

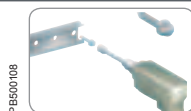
Reference
AZ1CA04



PB501846



See also the accessories



PB500108

Self-tapping screws ref. **NSYS16M5HS** page 391



PB500111

Step slides page 344

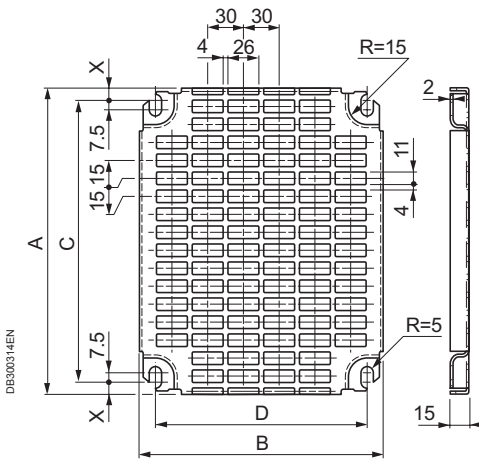
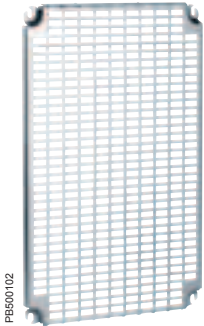


Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
	✓	✓				✓					✓		

Telequick mounting plate

- Zinc-coated-steel Telequick mounting plates. They allow cable guides and ducting and other installation accessories to be clipped on, making it easier to install switchgear.
- 11 x 26 mm slots.
- Switchgear fixing by clip-on nuts.

Supply: 1 mounting plate and fixing elements.



For enclosures (mm)		Dimensions (mm)					Surface (dm ²)	Weight (kg)	No. of perforations in		Reference
Height	Width	A	B	C	D	X			Height	Width	
300	200	255	153.7	231.3	125	11.85	3.3	0.30	16	5	NSYMR32
300	250	253	228	231.3	175	10.85	5.1	0.40	16	8	NSYMR3025
300	300	255	251	231.3	225	11.85	5.8	0.50	16	9	NSYMR33
300	400	255	351	235	325	10	8.3	0.75	18	11	NSYMR34
400	300	348.7	251	325	225	11.85	8.1	0.70	22	9	NSYMR43
400	400	345	351	325	325	10	11.5	1	24	11	NSYMR44
400	600	345	551	325	525	10	18.4	1.55	24	19	NSYMR46
500	300	453.7	251	430	225	11.85	10.7	0.85	29	9	NSYMR53
500	400	450	351	430	325	10	15.2	1.30	31	11	NSYMR54
500	500	450	451	430	425	10	19.7	1.60	31	14	NSYMR55
600	400	555	351	530	325	12.5	18.8	1.50	38	11	NSYMR64
600	500	555	451	535	425	10	24.4	2	38	14	NSYMR65
600	600	555	551	535	625	10	29.9	2.50	38	17	NSYMR66
600	800	551	750	531	724	10	40.7	3.10	36	24	NSYMR68
700	500	645	451	625	425	10	28.4	2.35	44	14	NSYMR75
700	600	645	551	625	525	10	35.07	2.9	44	17	NSYMR76
800	600	750	551	730	525	10	40.7	3.20	51	17	NSYMR86
800	800	750	751	730	725	10	55.7	3.95	51	24	NSYMR88
800	1000	751	951	731	925	10	70.8	5.30	49	31	NSYMR810
1000	600	945	551	925	525	10	51.4	4.05	64	17	NSYMR106
1000	800	945	751	925	725	10	70.3	5	64	24	NSYMR108
1000	1000	945	951	925	925	10	89.2	6.50	62	31	NSYMR1010
1000	1200	951	1151	931	1125	10	108.8	7.45	62	37	NSYMR1012
1200	600	1145	551	1125	525	10	62.4	5.70	75	17	NSYMR126
1200	800	1145	751	1125	725	10	85.3	6.40	75	24	NSYMR128
1200	1000	1145	951	1125	925	10	108.2	7.80	75	31	NSYMR1210
1400	1000	1345	951	1325	925	10	127.3	9.10	88	31	NSYMR1410

To install two mounting plates in a single enclosure, also order reference **NSYCRNGSDR**. See details on page 344.

To install the plate in an enclosure with 6 studs, also order reference **NSYEMR**.

Clip-on nuts

- Clip-on nuts for Telequick mounting plate.
- Used to easily fix devices in the Telequick mounting plate with the possibility of changing the lay-out as much as needed.

Supply: 100 units.

Reference by unit. Order by multiples of 100 (100, 200, 300...).

Model	Reference
M3	AF1EA3
M4	AF1EA4
M5	AF1EA5
M6	AF1EA6



Mounting

Installation accessories



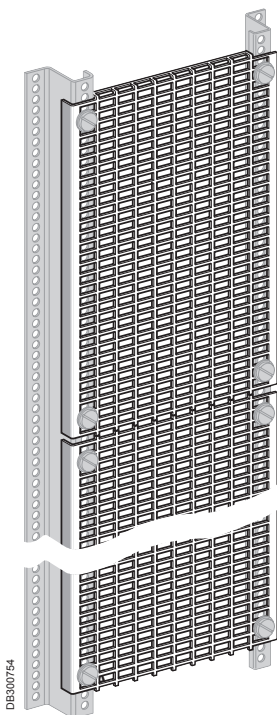
Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility	✓	✓				✓					✓		

Joinable Telequik mounting plate

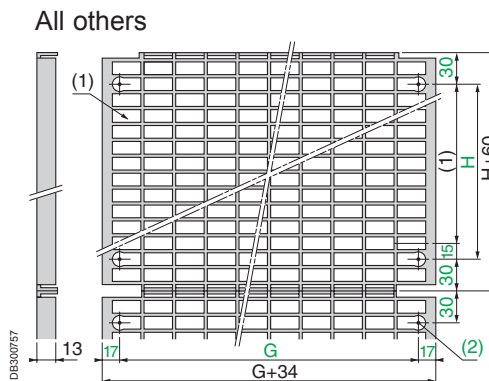
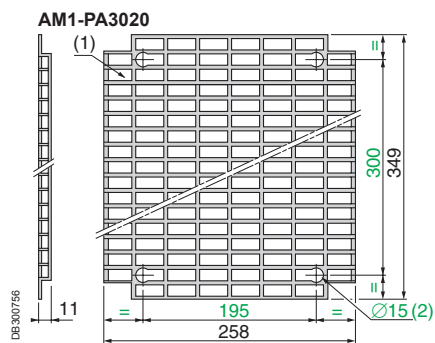
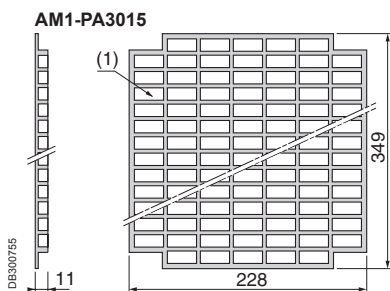
- 2 mm zinc-coated-steel Telequik mounting plates. These mounting plates are suitable for mounting vertically multiple plates.
- 11 x 26 mm slots.
- Switchgear fixing by clip-on nuts.



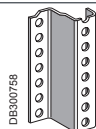
Supply: 1 mounting plate and fixing elements.



Enclosure		Mounting plate dimensions		Surface (dm ²)	Weight (g)	Reference
Width (mm)	Height (mm)	Width (mm)	Height (mm)			
150	300	228	349	7.9	620	AM1PA3015
195	300	258	349	9.0	700	AM1PA3020
300	405	334	465	15.0	1220	AM1PA4030
400	600	434	660	28.5	1960	AM1PA6040
	300	534	360	19.1	1360	AM1PA3050
	600	534	660	35.1	2410	AM1PA6050
500	705	534	765	40.0	2780	AM1PA7050
	900	534	960	51.1	3470	AM1PA9050
	600	634	660	41.7	2870	AM1PA6060
600	795	634	855	54.0	3692	AM1PA8060
	900	634	960	60.7	4130	AM1PA9060
	700	60	734	120	8.7	660
700	120	734	180	13.1	940	AM1PA1270
	300	734	360	26.3	1760	AM1PA3070
	600	734	660	48.3	3130	AM1PA6070
	900	734	960	70.3	4490	AM1PA9070



See also the accessories



Per-drilled uprights page 346



Lyre-shaped clamp for plate ref. NSYGCR page 463



Plastic cable support ref. NSYSPC page 462

Mounting

Installation accessories

Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
	✓	✓				✓					✓		

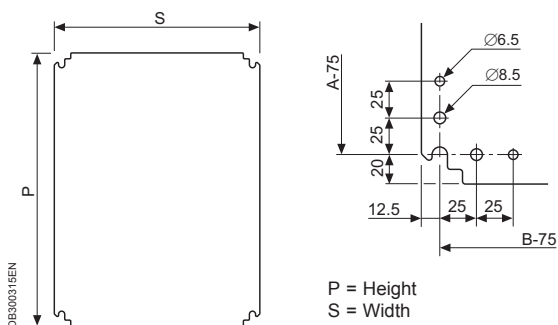


Bakelite Polyester

Bakelite and polyester mounting plate

- Made in black bakelite RAL-9005 or from polyester reinforced with fibreglass, RAL-7035 grey colour.
- They are coupled directly to the rear of the actual enclosure or to the sliding plate supports.
- Double-door enclosures offer the option of installing one full plate or two individual plates. See guide below.

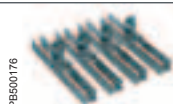
Supply: 1 mounting plate and fixing elements.



For enclosure (mm)		Dimensions (mm)		Thickness (mm)		Weight (kg)		Reference	
Height (A)	Width (B)	Height (P)	Width (S)	Bakelite	Polyester	Bakelite	Polyester	Bakelite	Polyester
300	200	265	150	4	4	0.2	0.3	NSYMB32	NSYMPP32
300	250	265	200	4	4	0.2	0.4	NSYMB3025	NSYMPP3025
300	300	265	250	4		0.3		NSYMB33	-
400	300	325	250	4	4	0.5	0.7	NSYMB43	NSYMPP43
500	400	465	350	4	4	0.9	1.2	NSYMB54	NSYMPP54
600	400	565	350	4	4	1.1	1.4	NSYMB64	NSYMPP64
600	500	565	450	4		1.4		NSYMB65	-
700	500	665	450	4	4	1.7	2.1	NSYMB75	NSYMPP75
800	600	765	550	4	5	2.3	3.8	NSYMB86	NSYMPP86
1000	600	965	550	5		4.2		NSYMB106	-
1000	800	965	750	5	5	5.7	6.5	NSYMB108	NSYMPP108
1200	1000	1150	950	5		8.3		NSYMB1210	-



See also the accessories



Step slides for polyester enclosures pages 285 and 317



Step slides page 344

Mounting

Installation accessories

Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility	✓	✓				✓					✓		

DIN-rail chassis

Components supplied with a DIN-rail chassis:

- Aluminium uprights.
- DIN rails (symmetric section A or B, according to the reference).
- Screws, washers and nuts need to mount the DIN rails to the uprights.
- Batch of 4 adapters, ref. NSYAMCSF, needed to fix the uprights to the enclosure.

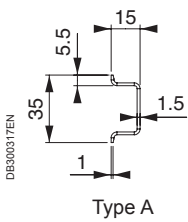


Composition: 1 DIN-rail chassis.

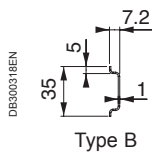
For enclosure		Type of rails	Number of rails	Reference
Height	Width			
300	300	B	4	NSYMD33
400	300	B	4	NSYMD43
500	400	B	4	NSYMD54
600	400	B	6	NSYMD64
600	600	A	6	NSYMD66
700	500	B	6	NSYMD75
800	600	A	6	NSYMD86
1000	800	A	6	NSYMD108
1200	800	A	7	NSYMD128



PB600104



Type A



Type B

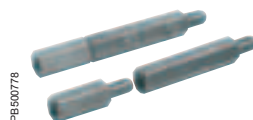


See also the accessories



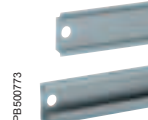
PB500777

Slides page 345



PB500778

Stand-offs page 390



PB500773

Rails page 379

Mounting

Installation accessories

Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility	✓	✓				✓							



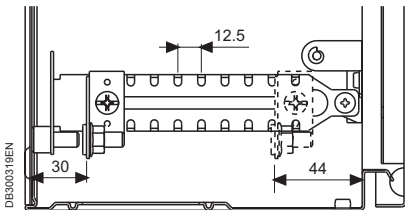
PB500782

Step slides for mounting plate

Set of 4 supports intended for installation in enclosures with depths of 200, 250, 300 and 400 mm. The rail allows the depth of the plate and other accessories to be adjusted in steps of 12.5 mm.

Supply: 4 step slides.

For enclosure depth (mm)	Reference
200	NSYSDCR200
250	NSYSDCR250
300	NSYSDCR300
400	NSYSDCR400



DB300319EN

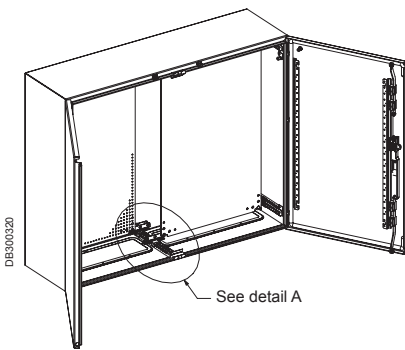
Step slides for 2 mounting plates in one enclosure

In 1000 and 1200 mm wall-mounting enclosures, it is possible to install 2 mounting plates side by side, using the additional central step slides.

Supply: 2 step slides.

For enclosure depth (mm)	Reference
300	NSYSDRSDCR300*
400	NSYSDRSDCR400*

*Not applicable for stainless steel enclosures.



DB3000320

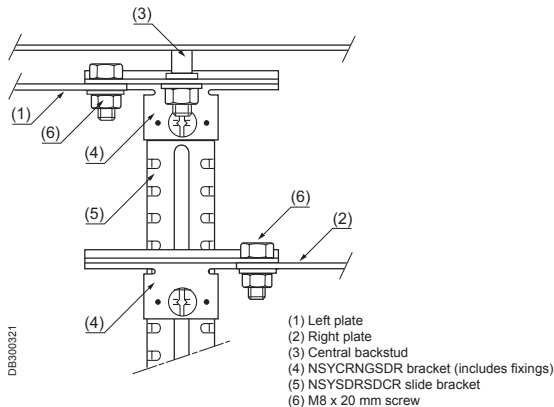
See detail A

Slide bracket for 2 mounting plates at different depths

Additional slide bracket to be installed on the central step slides in order to mount 2 mounting plates, side by side, in different depths.

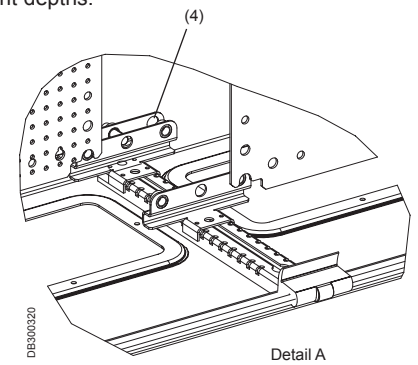
Supply: 2 slide brackets.

Set of 2 slide brackets
NSYCRNGSDR



DB3000321

- (1) Left plate
- (2) Right plate
- (3) Central backstud
- (4) NSYCRNGSDR bracket (includes fixings)
- (5) NSYSDRSDCR slide bracket
- (6) M8 x 20 mm screw



DB3000320

Detail A



See also
the accessories



Step slides for polyester enclosures
pages 285 and 317

PB500176



Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility	✓	✓				✓					✓	✓	

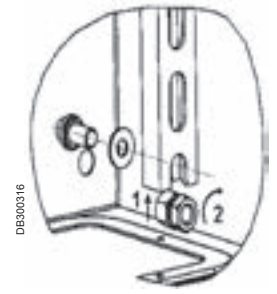


PB500105

Aluminium vertical rails

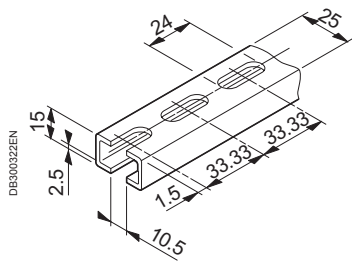
- Fixing in the enclosure with M8 nuts, ref. **NSYAMCSF** (batch of 4 adapters to be ordered separately).
- Material: aluminium (length: 1200 mm, in steel).

Height	Material	Reference	Composition
300	Aluminium	NSYMDVR3	10
400	Aluminium	NSYMDVR4	10
500	Aluminium	NSYMDVR5	10
600	Aluminium	NSYMDVR6	10
700	Aluminium	NSYMDVR7	10
800	Aluminium	NSYMDVR8	10
1000	Aluminium	NSYMDVR10	10
1200	Steel	NSYMDVR12	2
Length: 3 m	Aluminium	NSYMDVR3M	10



DE300316

Ref. **NSYAMCSF**



DE300322EN

Sliding Nuts

Sliding nuts to be used on aluminum vertical rails.

Type	Supply (units)	Reference
M4	100	NSYNM4
M5	100	NSYNM5
M6	100	NSYNM6



PB500777



PB500780

Slides and brackets

They allow the depth of the plates and rails to be adjusted.

- Length of 90 mm, with bracket for enclosures with depths of 150 and 200 mm.
- Length of 130 mm, with bracket for enclosures with depths of 250 and 300 mm.
- Bracket for slides (customised mounting plate).

Composition: 10 units.

References per unit. To be ordered in multiples of 10 (10, 20, 30, etc.).



PB500781



PB500781

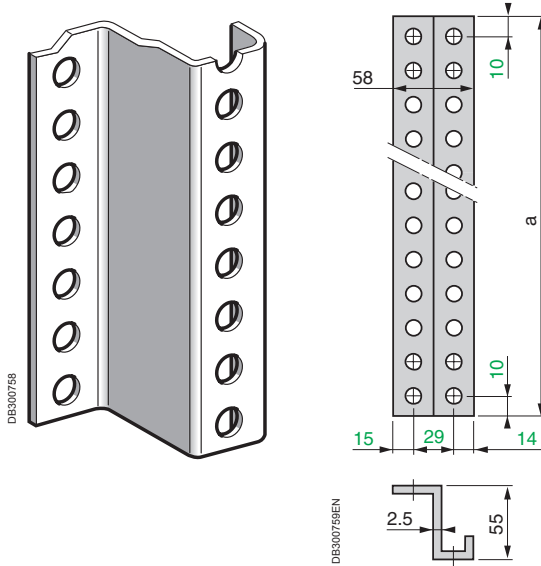
Description	Reference
90-mm slide	NSYSB90
130-mm slide	NSYSB130
Bracket	NSYFB



Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility	✓	✓				✓					✓		

Pre-drilled uprights

2 mm zinc-coated pre-drilled uprights. Ø 11 mm holes enable to adjust the rows of equipment by 20 mm steps.



Height (mm) (a)	Weight (g)	Reference
1020	2330	DZ6MZ121
1320	2920	DZ6MZ151
1620	3375	DZ6MZ181
1920	4000	DZ6MZ211

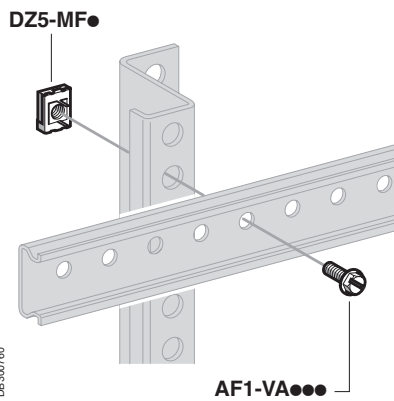
Supply: 4 units.

Notched clamp nuts

Notched clamp nut specially designed for pre-drilled uprights.

Supply: 100 units.

Reference by unit. Order by multiples of 100 (100, 200, 300...).



Type	Weight (g)	Reference
M6	7.0	DZ5MF6
M8	8.0	DZ5MF8



See also the accessories



Screws page 391

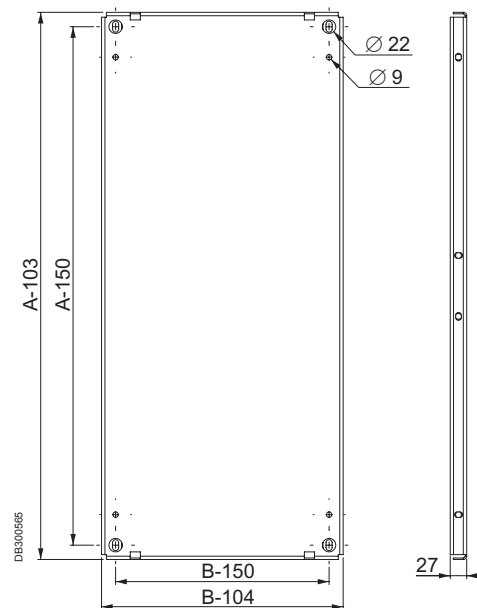
Mounting


Installation accessories

Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
			✓	✓			✓	✓					

Mounting plate

- Plate provided with reinforcement flange around the entire perimeter. The vertical edges are provided with a triple fold, to prevent finger cuts.
- Depth adjustable with a pitch of 25 mm, provided with plastic shoe for easier sliding.
- Once the plate is fixed, in advanced position, the sliding shoe can be easily removed, to increase the available plate surface.
- Material: galvanised steel.
- Maximum load: 600 kg in the back of the enclosure and 500 kg in the intermediate position.
- Installation options:
 - At the sides of the enclosure with the orthogonal brackets (see page 350).
 - Back-to-back, with the brackets for fixing the mounting plates in back-to-back position (see page 353).
- In sets made up of two or more enclosures with mounting plates, it is possible to obtain a continuous plate surface using intermediate mounting plates (see page 352).

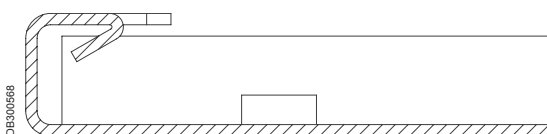


 Supply: one mounting plate and sliding shoes.

Nominal dimensions (mm)		Reference
Height (A)	Width (B)	
1200	600	NSYMP126
	800	NSYMP128
	1000	NSYMP1210
	1200	NSYMP1212
1400	600	NSYMP146
	800	NSYMP148
	1000	NSYMP1410
	1200	NSYMP1412
1600	600	NSYMP166
	800	NSYMP168
	1000	NSYMP1610
	1200	NSYMP1612
1800	600	NSYMP186
	800	NSYMP188
	1000	NSYMP1810
	1200	NSYMP1812
2000	1600	NSYMP1816
	600	NSYMP206
	800	NSYMP208
	1000	NSYMP2010
2200	1200	NSYMP2012
	1600	NSYMP2016
	600	NSYMP226
	800	NSYMP228
	1000	NSYMP2210
	1200	NSYMP2212

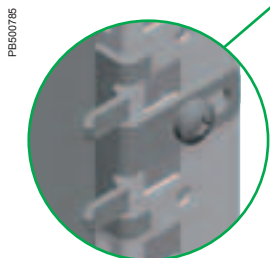
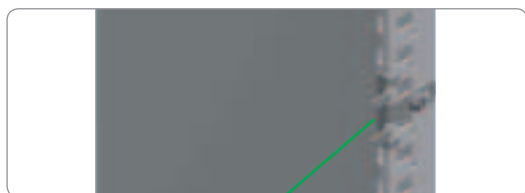
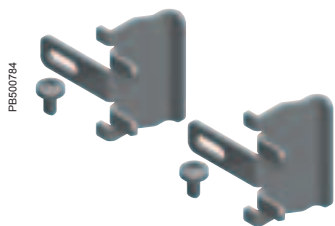
> Advantage:

The Spacial.pro tool helps determine the optimum dimensions of the mounting plate.



> Advantage:

The triple fold of the vertical edges of the mounting plate contributes to increasing the latter's rigidity and increases handling safety by preventing finger cuts.



Intermediate fixing of the mounting plate, located in the back of the enclosure

- Support for additional fixing of the mounting plate, at any height of the plate, when the plate is mounted in the back of the enclosure.
- The supports minimise the vibration of the plate during the transport and operation of the panel.
- The supports are fixed to the structure when the plate is already located in the back of the enclosure.
- **Spacial SM:** fixing to 40-mm universal cross rails (1 row), installed vertically in the back of the enclosure, see page 371.
- Material: zinc-coated steel.



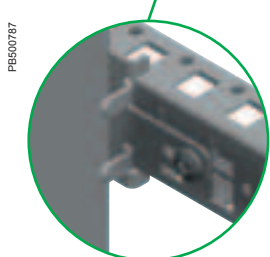
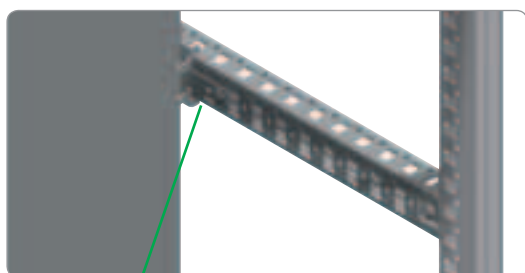
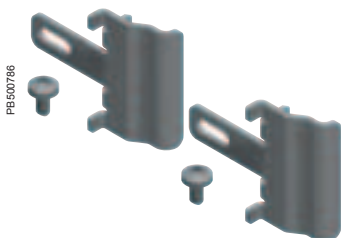
Supply: ten units and fixing elements.



Reference by unit. Order by multiples of 10 (10, 20, 30...).

Reference

NSYSMPFB



Intermediate fixing of the mounting plate, in advanced position

- Support for additional fixing of the mounting plate, at any height of the plate, when the plate is mounted in advanced position.
- The supports minimise the vibration of the plate during the transport and operation of the panel.
- The supports are mounted on light cross rails or on 40-mm (1 row) universal or quick-fixing cross rails (not supplied) (see page 371).
- Material: zinc-coated steel.



Supply: ten units and fixing elements.



Reference by unit. Order by multiples of 10 (10, 20, 30...).

Reference

NSYSMPFA

Mounting

Installation accessories



PB500788

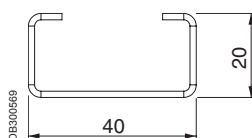
Reinforcement for mounting plate

- Reinforcement kit for transversal mounting plate.
- Provides extra rigidity to the mounting plates and absorbs vibrations.
- Can be used as a support for fixing very heavy elements.
- Material: zinc-coated steel.
- Thickness: 1.5 mm.



Supply: two profiles, four supports for fixing to the mounting plate and fixing elements.

Nominal dimensions (mm)	Reference
Width	
800	NSYMPRK8
1000	NSYMPRK10
1200	NSYMPRK12
1600	NSYMPRK16



DB300589

Mounting

Installation accessories

Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility			✓	✓			✓	✓					

Mounting plate fixing brackets

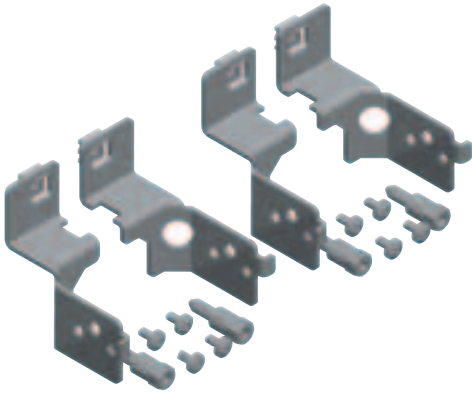
- Mounting plate fixing brackets for direct mounting on the structure of the enclosure.
- Adjustable depth with a pitch of 25 mm.
- Maximum load (4 brackets): 600 kg.
- Material: zinc-coated steel.



Supply: four brackets and fixing elements.

Reference	For enclosure
NSYSFPB	Spacial SF
NSYSMPB	Spacial SM, Spacial SFX, Spacial SMX

PB500789



Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility				✓				✓					

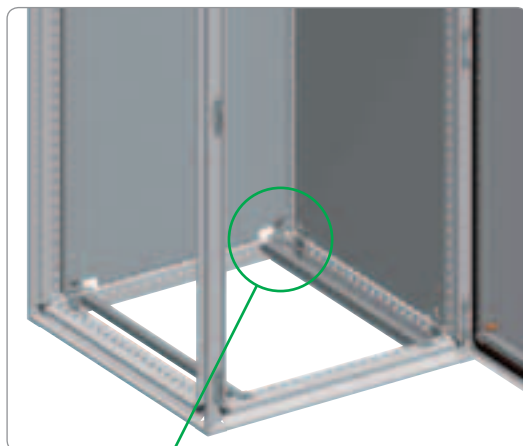
Orthogonal brackets

- Orthogonal brackets designed for the installation of mounting plates on the sides of the enclosure.
- In the event of installing one plate in the back of the enclosure and one plate at the side, they must both be installed using orthogonal brackets.
- Maximum load (4 brackets): 600 kg.
- Material: zinc-coated steel.
- Spacial SFX: in order to mount the lateral mounting plate is necessary to remove the one on the back and its fixing brackets.

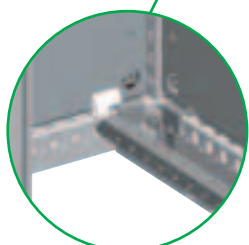


Supply: four brackets and fixing elements.

Reference
NSYSMPB



PB500791



Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility				✓									

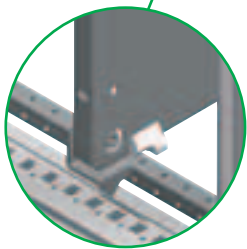
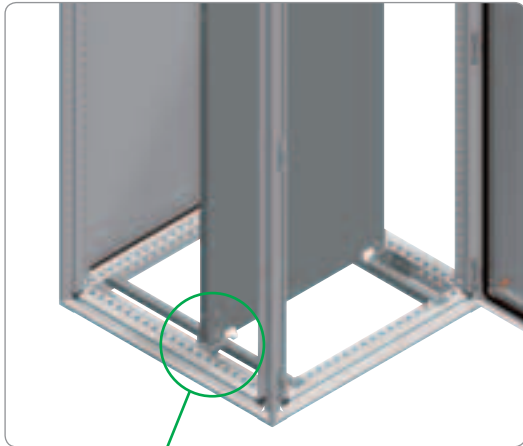
Mounting plate sliding rails

- Rails which the mounting plate slides along when inserted in the enclosure.
- Once the mounting plate is installed and fixed to the brackets, the sliding rails can be removed to maximise the cable passage surface, and can be installed depthwise in other positions.
- Material: zinc-coated steel.



Supply: two rails and fixing elements.

Nominal dimensions (mm)	Reference
Depth	
400	NSYSMPS4
500	NSYSMPS5
600	NSYSMPS6
800	NSYSMPS8



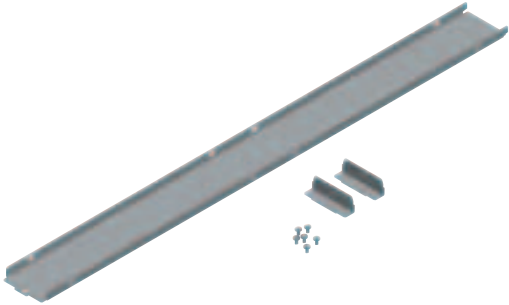
PS60792

Mounting

Installation accessories

Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility				✓				✓					

PE600793



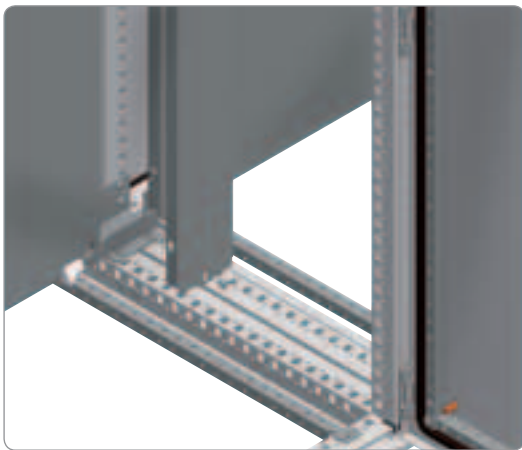
Intermediate mounting plate

- Intermediate plate used to obtain a continuous surface of the mounting plate at enclosure suites.
- Adjustable depth with a pitch of 25 mm. When the mounting plates are located in the back of the enclosure, the vertical profiles of the structure are flush with the plates, acting as an intermediate mounting plate. In this case the intermediate plate cannot be installed.
- Material: galvanised steel.



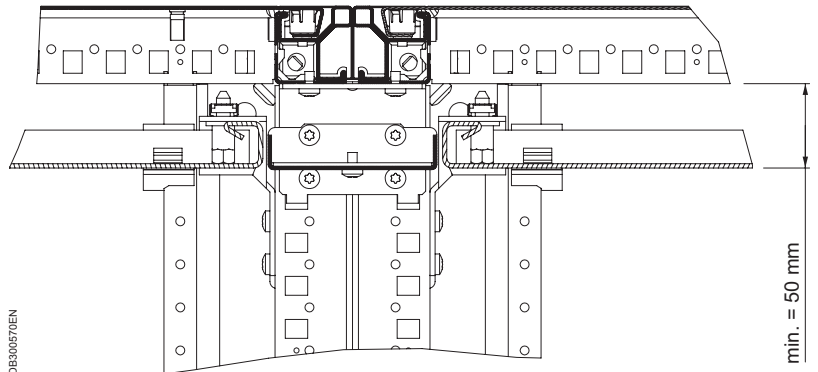
Supply: one intermediate plate and fixing elements.

PE600794



Nominal dimensions (mm)	Reference
Height (A)	
1200	NSYSIMP12
1400	NSYSIMP14
1600	NSYSIMP16
1800	NSYSIMP18
2000	NSYSIMP20
2200	NSYSIMP22

DB300570EN



Mounting

Installation accessories

Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility				✓									

Brackets for fixing mounting plates in back-to-back position

- Brackets for fixing two mounting plates, in back-to-back position, doubling the mounting surface.
- Adjustable with a pitch of 25 mm.
- Material: zinc-coated steel.

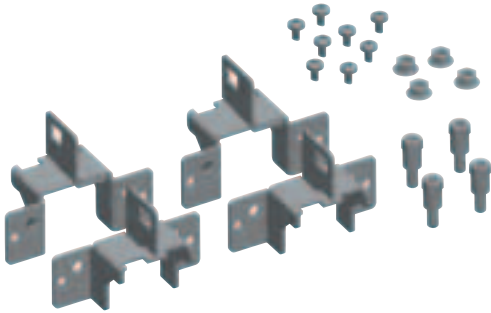


Supply: four brackets for fixing back-to-back and fixing elements.

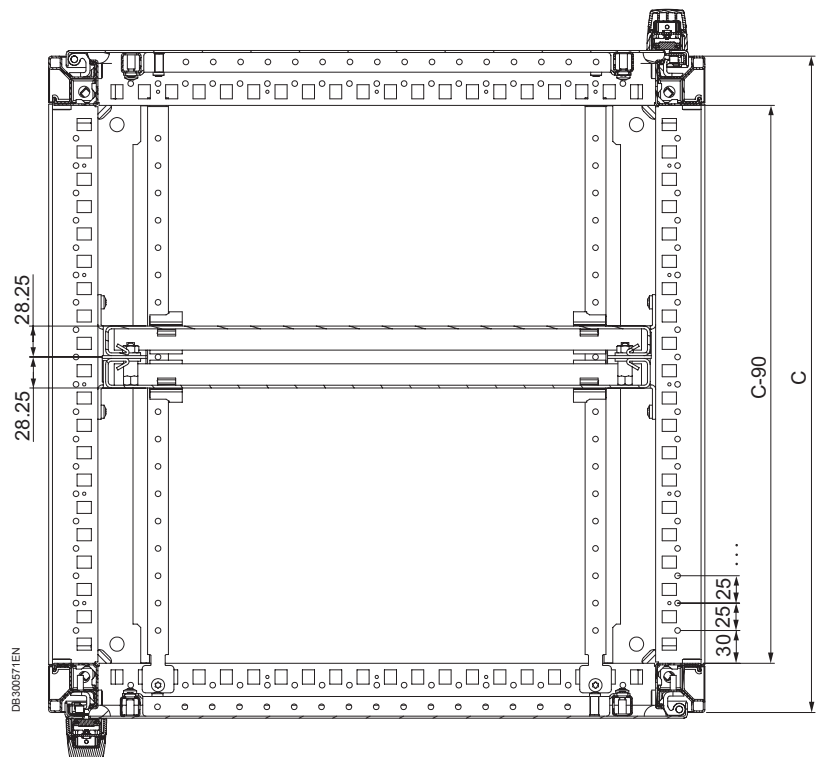
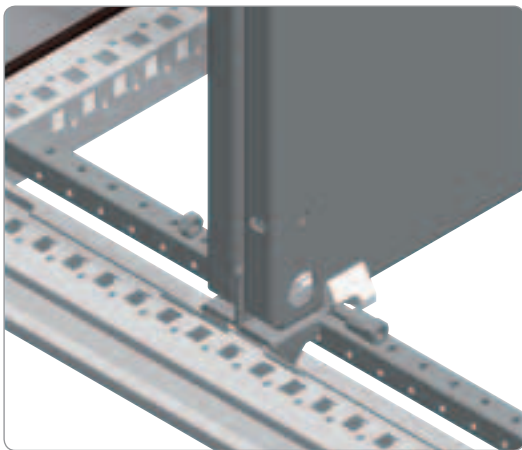
Reference

NSYSBTB

PE600795



PE600796



Mounting

Installation accessories

Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility				✓				✓					

Brackets for fixing intermediate mounting plates in back-to-back position

- Brackets for fixing two intermediate mounting plates, in back-to-back position, doubling the mounting surface.
- Adjustable with a pitch of 25 mm.
- Material: zinc-coated steel.



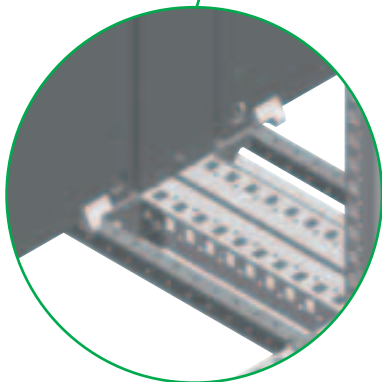
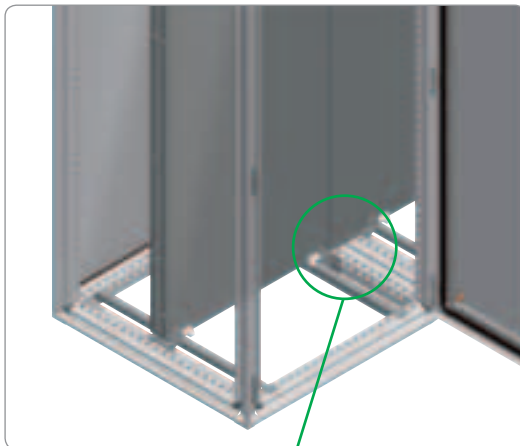
Supply: 2 brackets for fixing intermediate plates back-to-back and fixing elements.

Reference

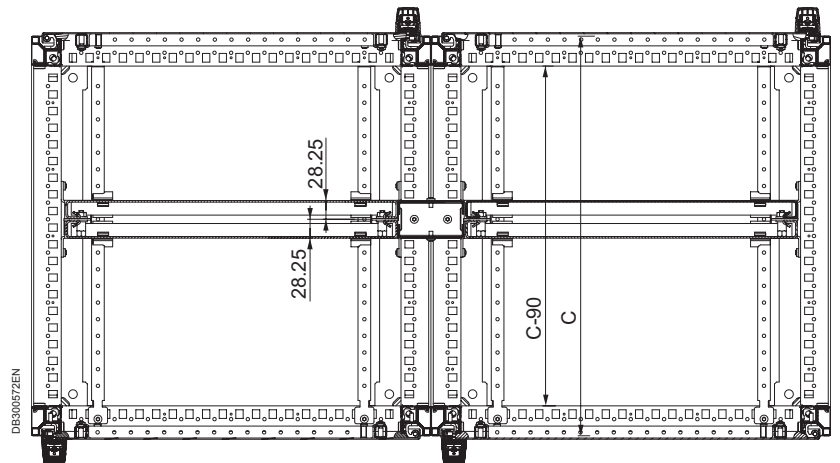
NSYSIBTB



PE500797



PE500798



DB30057ZEN

Mounting

Installation accessories

Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility				✓				✓					

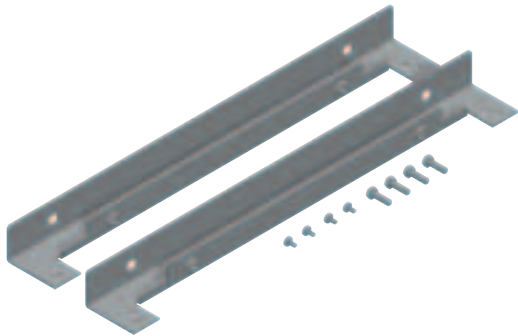
Side entry rails for the mounting plate

- Side entry device for the mounting plates when coupling **Spacial SF** enclosures or **Spacial SFX**.
- The mounting plates can be coupled with one another, and are fixed to the side entry guide by pressure.
- Material: zinc-coated steel.



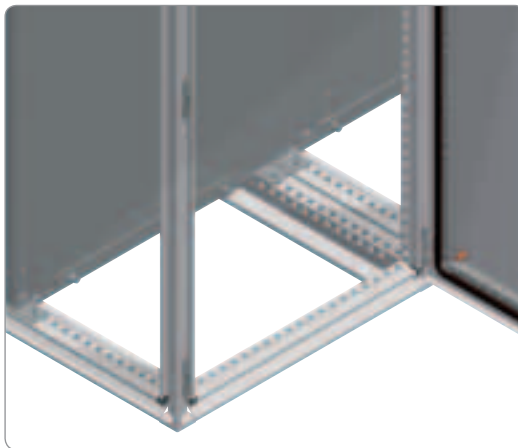
Supply: two rails and fixing elements.

PB500799



Nominal dimensions (mm)	Reference
Width (B)	
600	NSYSMPSE6
800	NSYSMPSE8
1000	NSYSMPSE10
1200	NSYSMPSE12

PB500800



Length of joined Spacial SF enclosures (mm)	Example of Spacial SF enclosure combination width (mm) (B)	Example of combining mounting plates by width (mm)	Useful length (mm)
1200	1200	600 + 800	1192
1400	600 + 800	600 + 1000	1392
1600	2 x 800	800 + 1000	1592
1800	3 x 600	800 + 1200	1792
2000	2 x 1000	1000 + 1200	1992
2200	600 + 2 x 800	1200 + 1200	2192
2400	3 x 800	1600 + 1000	2392
		3 x 600 + 1000	2384
2600	2 x 1000 + 600	1600 + 1200	2592
		3 x 600 + 1200	2584
2800	2 x 1000 + 800	4 x 800	2784
3000	3 x 1000	3 x 800 + 1000	2984
3200	2 x 1000 + 1200	3 x 800 + 1200	3184
3400	3 x 800 + 1000	800 + 3 x 1000	3384
3600	3 x 1200	4 x 1000	3584
3800	800 + 3 x 1000	600 + 3 x 1200	3784
4000	4 x 1000	800 + 3 x 1200	3984

Mounting

Installation accessories

Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility				✓									

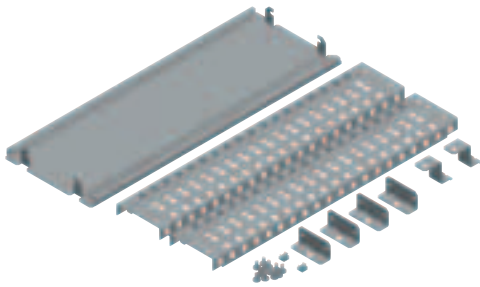
Kit for adapting two-door enclosures

- Allows the installation of two mounting plates as if in two independent enclosures.
- A set of brackets for fixing mounting plates ref. **NSYSMPB** is required for this.
- Option of installing an intermediate mounting plate.
- Valid for enclosures with widths of 1200 and 1600 mm.
- In the event of installing a cable-gland plate for a width of 1200 mm, it is necessary to install two with a width of 600 mm, and for widths of 1600 mm, two with a width of 800 mm.

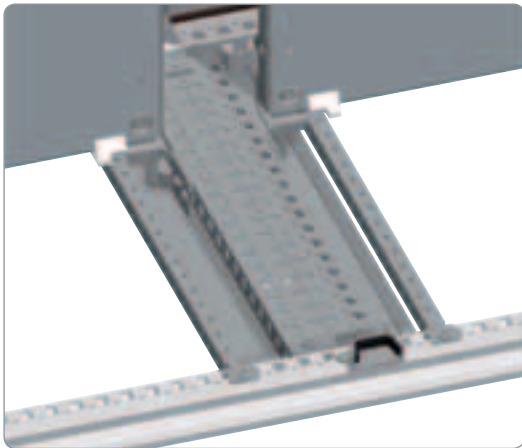


Supply: two 90 mm cross rails, cable-gland plate support, 2 brackets for central fixing of the roof and fixing elements.

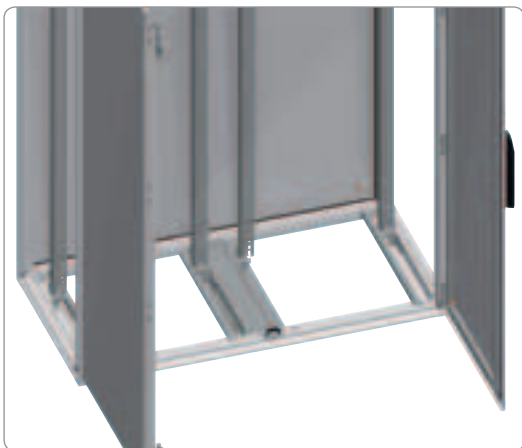
PB500801



PB500802



PB500803



Nominal dimensions (mm)	Reference
Depth (C)	
400	NSYSMP2D4
500	NSYSMP2D5
600	NSYSMP2D6
800	NSYSMP2D8

Mounting

Installation accessories

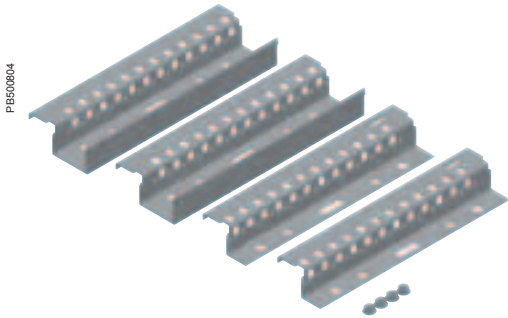
Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility			✓										

Top/bottom adjustment rails

- Allows the installation of two mounting plates or vertical uprights in enclosures with a width of 1200 mm, as if in two independent enclosures.
- A set of mounting plate fixing brackets ref. **NSYSMPB** is required for this.
- Optional installation of an intermediate mounting plate.

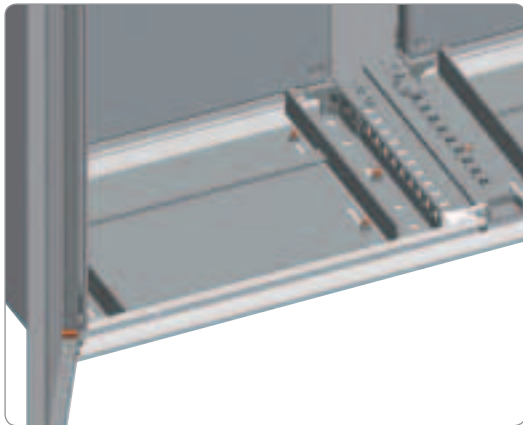


Supply: 2 rails, top and bottom, and fixing elements.

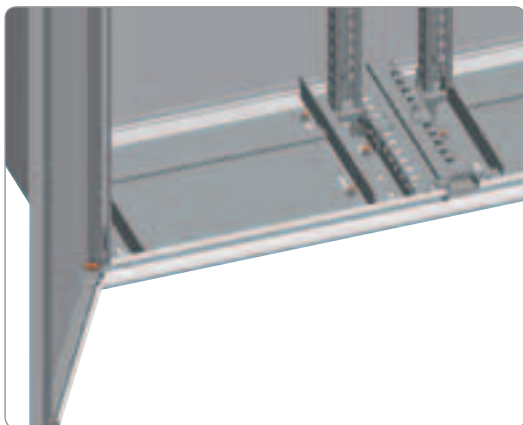


PB500804

Nominal dimensions (mm)	Reference
Depth	
300	NSYSTBR3
400	NSYSTBR4
500	NSYSTBR5
600	NSYSTBR6



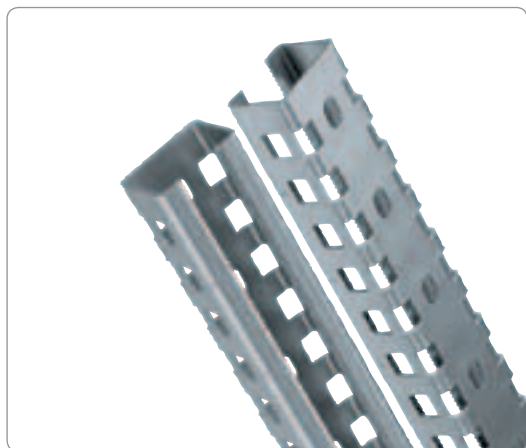
PB500805



PB500806



Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility			✓	✓	✓		✓	✓	✓			✓	



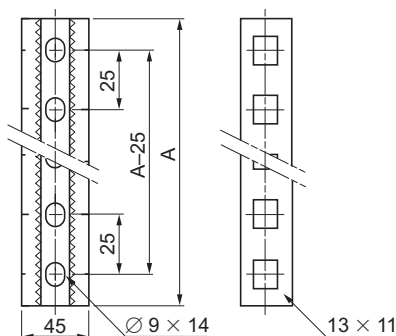
Technical uprights

- Vertical uprights for fixing plates and rails.
- They can be fixed to the fixing brackets of the mounting plate or to the upright-fixing bracket (ref. **NSYMF8**).
- Adjustable height in steps of 2.5 mm (with quarter-turn nuts, ref. **NSYSNM6** or **NSYSNM8**) or 25 mm (with cage nuts, ref. **NSYCNM6** or **NSYCNM8**).
- Thickness: 2 mm.

Supply: 2 standard uprights.

Enclosure height	A	Reference
750	625	NSYTVR7
1000*	675	NSYTVR8
1000	875	NSYTVR10
1200	1075	NSYTVR12
1250	1125	NSYTVR125
1400	1275	NSYTVR14
1500	1375	NSYTVR15
1600	1475	NSYTVR16
1800	1675	NSYTVR18
2000	1875	NSYTVR20
2200	2075	NSYTVR22

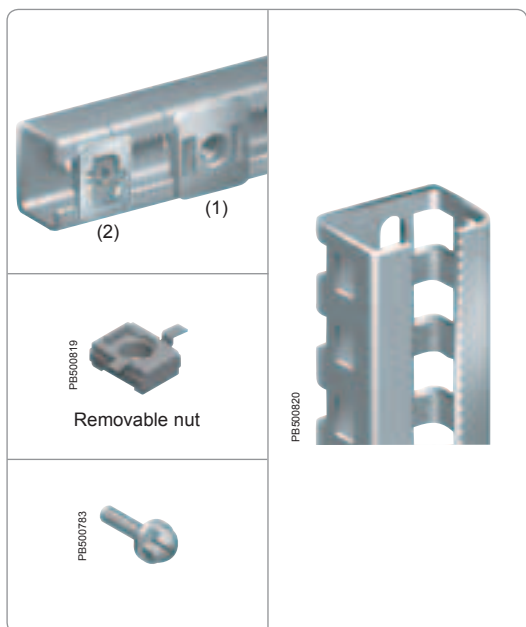
* Control desk.



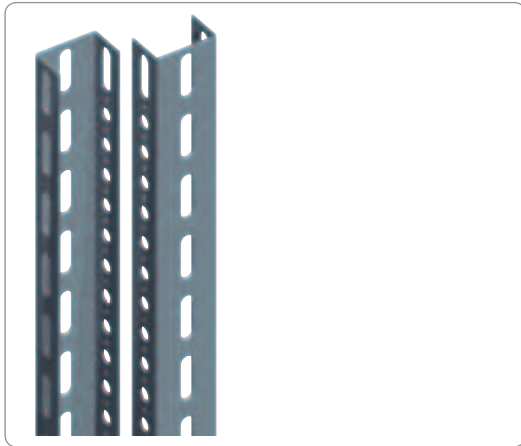
Nuts and screws for technical uprights

- Clip-on quarter-turn sliding nuts.
- Removable nuts to be installed in the 13 x 11 mm holes of the technical uprights. They also can be installed directly in the enclosure structure or in the cross rails.
- Hexagonal screw with washer.

Nuts and screws for technical vertical upright	Supply (units)	Reference
M6 quarter-turn sliding nut (1)	10	NSYSNM6
M8 quarter-turn sliding nut (1)	10	NSYSNM8
M6 quarter-turn serrated sliding nut (2)	10	NSYSNSM6
M8 quarter-turn serrated sliding nut (2)	10	NSYSNSM8
M6 removable nut	50	NSYCNM6
M8 removable nut	50	NSYCNM8
M6 x 12 screw	100	AF1VA612
M6 x 18 screw	100	AF1VA618
M8 x 20 screw	100	AF1VC820



Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
			✓	✓			✓	✓					



PB500482

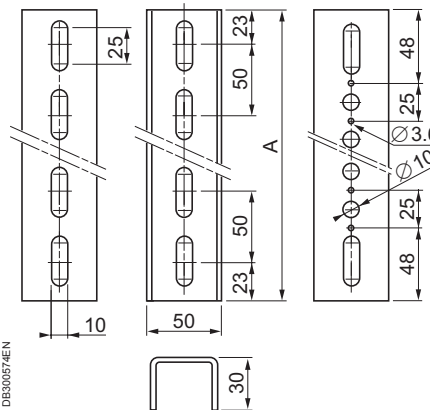
Standard uprights

- Vertical uprights for fixing plates and rails.
- They can be fixed on the mounting plate fixing brackets or on the upright fixing bracket, ref. **NSYMF8**.
- Adjustable height with a pitch of 25 or 50 mm.
- Material: galvanised steel.
- Thickness: 2 mm.

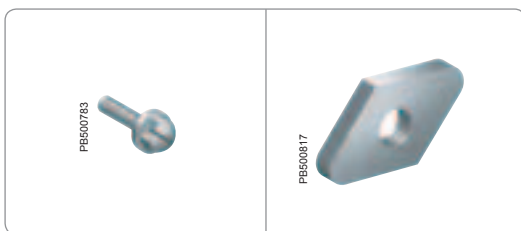


Supply: two standard vertical uprights.

Nominal dimensions (mm)	Reference
Height (A)	Standards
1800	NSYVR18
2000	NSYVR20
2200	NSYVR22



DB500574EN



Nuts and screws for standard uprights

- Flat nut for standard uprights.
- Hexagonal screw with washer.

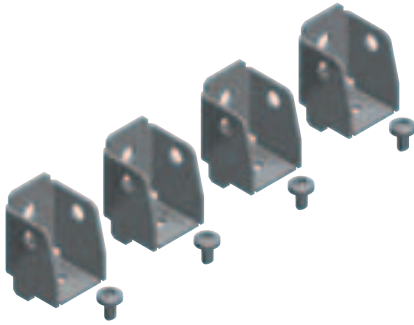
Nuts and screws for standard vertical upright	Supply (units)	Reference
M6 flat nut	50	NSYFNM6
M8 flat nut	50	NSYFNM8
M6 x 12 screw	100	AF1VA612
M6 x 18 screw	100	AF1VA618
M8 x 20 screw	100	AF1VC820



Reference by unit. Order by multiples of 50 (Flat nuts) and 100 (Screws).



Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility			✓	✓	✓		✓	✓	✓				



PB500823

Bracket for fixing uprights

- Brackets for fixing the uprights, standard or technical, at the same level as the structure, obtaining a greater working surface inside the enclosure.
- They allow two pairs of uprights to be fixed back to back, doubling the working surface.
- The brackets are fixed to the structure by means of M6 self-tapping screws.
- Adjustable depth with a pitch of 25 mm.
- Material: zinc-coated steel.

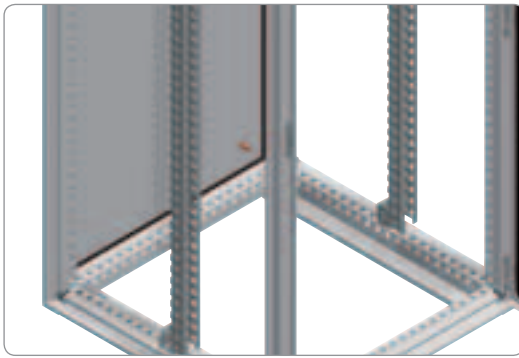


Supply: four brackets for fixing uprights and fixing elements.

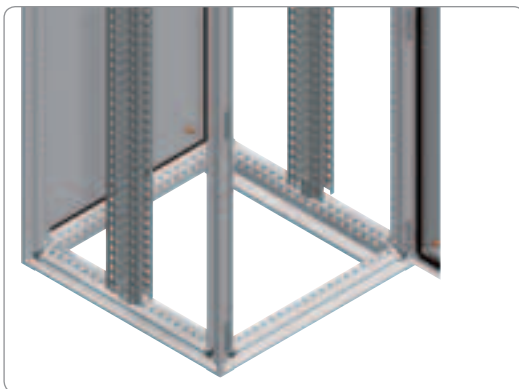
Reference

NSYMF8

PB500821



PB500822



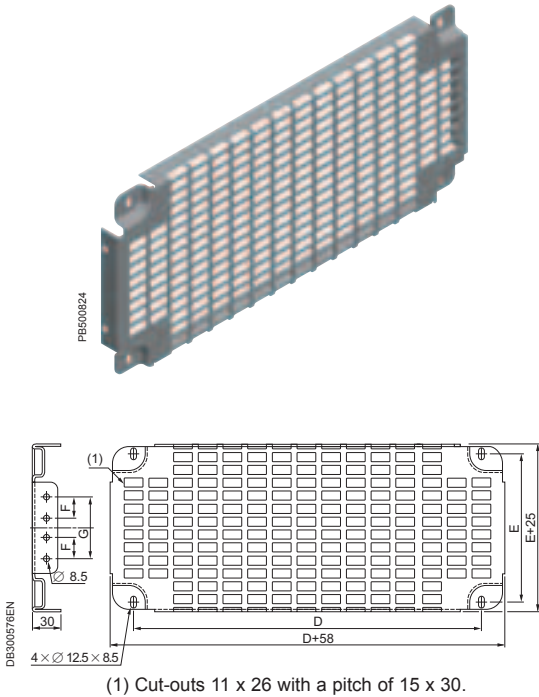


Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
			✓	✓	✓		✓	✓	✓				

Perforated mounting plate “Telequick”

- Allows the installation of switchgear without drilling or screwing.
- Plate designed for quick fixing of switchgear by means of clip-on nuts ref. **NSYKNNM3** to **NSYKNNM6**.
- Fixing options:
 - Directly to the vertical uprights of the structure, by means of self-tapping screws (only Spacial SF).
 - To the technical vertical uprights, by means of sliding nuts, page **358**; to standard uprights by means of flat nuts, page **359** or self-tapping screws, and to cross rails.
- Vertical continuity is guaranteed by the vertical installation of plates.
- The top plate must be fixed in the third hole, 80 mm from the top frame.
- Material: zinc-coated steel.

Supply: one perforated mounting plate and fixing elements for technical uprights and screws for fixing to the structure or cross rails.



Nominal dimensions (mm)	Plate height (mm)				Useful surface (Dm ²)	Reference	
	Width (B)	D	E	F			G
600		450	200	–	100	11.4	NSYSTMP2260
		450	425	–	325	22.8	NSYSTMP4560
		450	575	125	475	30.4	NSYSTMP6060
		450	800	250	700	11.9	NSYSTMP8260
800		650	200	–	100	15.9	NSYSTMP2280
		650	425	–	325	31.8	NSYSTMP4580
		650	575	125	475	42.4	NSYSTMP6080
		650	800	250	700	58.4	NSYSTMP8280
1000		850	200	–	100	20.4	NSYSTMP22100
		850	425	–	325	40.8	NSYSTMP45100
		850	575	125	475	54.4	NSYSTMP60100
		850	800	250	700	74.9	NSYSTMP82100
1200		1050	200	–	100	24.9	NSYSTMP22120
		1050	425	–	325	49.9	NSYSTMP45120
		1050	575	125	475	66.5	NSYSTMP60120
		1050	800	250	700	91.5	NSYSTMP82120
1600		Order two 800-mm plates					

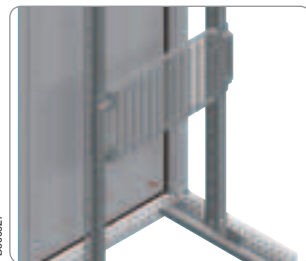
Examples of perforated mounting plate installation



(1) Perforated plate mounted on structure.



(2) Perforated plate mounted on technical vertical uprights.



(3) Perforated plate mounted on standard vertical uprights.



(4) Perforated plate mounted on cross rails.



See also the accessories



Plastic cable support ref. **NSYSPC** page **462**



Lyre-shaped clamp for plate ref. **AK2LA39** page **463**



Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
			✓	✓				✓					

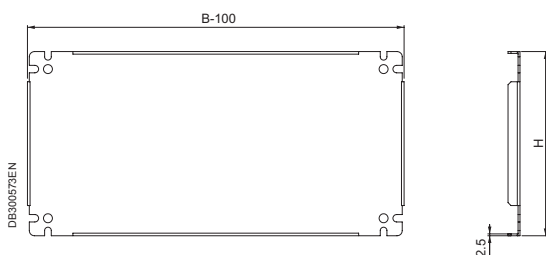


Partial mounting plate

- Partial mounting plate, provided with reinforcement flange on its four sides.
- Fixing options:
 - **Spacial SF, SFX:**
 - Fixing to the vertical uprights of the structure.
 - Fixing to the technical or standard vertical uprights, see page 358.
 - For installations in advanced position, fixing to cross-rails, see page 371.
 - **Spacial SM:**
 - Fixing by means of adaptation profiles and 40-mm universal cross-rails (1 row) in vertical position, or also on horizontal universal cross-rails.
 - It can be mounted horizontally, as a tray, by means of depthwise cross rails, see page 371.
- Material: galvanised steel.

Supply: partial mounting plate and fixing elements.

PB500807



Nominal dimensions (mm)	Plate height (mm) (H)	Plate length (mm) (B-100)	Reference
			Width (B)
600	247	500	NSYSPMP2560
	247	750	NSYSPMP2575
	397	500	NSYSPMP4060
	597	500	NSYSPMP6060
800	247	700	NSYSPMP2580
	397	700	NSYSPMP4080
	597	700	NSYSPMP6080
1000	247	900	NSYSPMP25100
	397	900	NSYSPMP40100
	597	900	NSYSPMP60100
1200	247	1100	NSYSPMP25120
	397	1100	NSYSPMP40120
	597	1100	NSYSPMP60120
1600	397	1100	NSYSPMP40160



PB500808

Self-tapping screw

- Self-tapping screw, hexagonal head, 4.8 x 16 mm thread.
- Drilling capacity: thicknesses between 1.75 and 4 mm.

Supply: 100 units.

To be ordered in multiples of 100 (100, 200, 300, etc.).

Reference
NSYS16M5HS



Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility			✓	✓	✓		✓	✓	✓				



PB500829

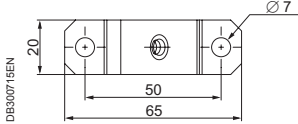
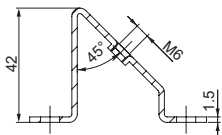
Rail support bracket

- Bracket for fixing rails at an angle of 45°.
- **Spacial SF**: mounted on the structure and/or mounting plates.
- **Spacial SM**: mounted on the bottom mounting rail and/or mounting plates.
- Material: zinc-coated steel.

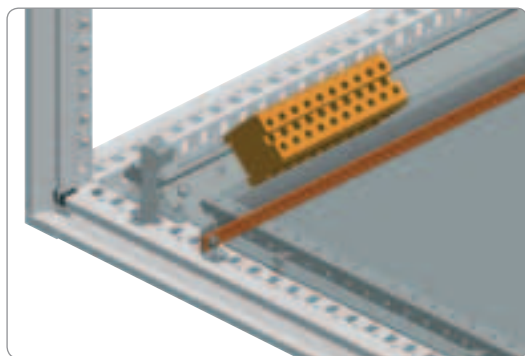
Supply: ten units and fixing elements.

Reference by unit. Order by multiples of 10 (10, 20, 30...).

Reference
NSYFB45



DB300719EN



PB500831

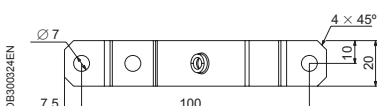
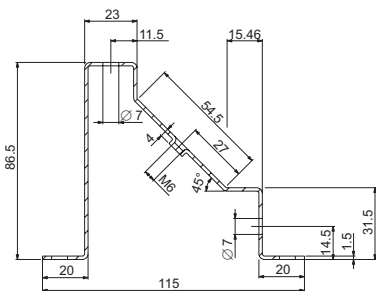
Combined support bracket

- Allow the installation of a DIN rail and an earthing strip on different planes, to minimise the cable radiuses.
- **Spacial SF** installation: directly on the structure and/or using mounting plates.
- **Spacial SM** installation: on the bottom adjustment rails and/or on mounting plates.
- Material: zinc-coated steel.

Supply: ten combined support brackets and fixing elements.

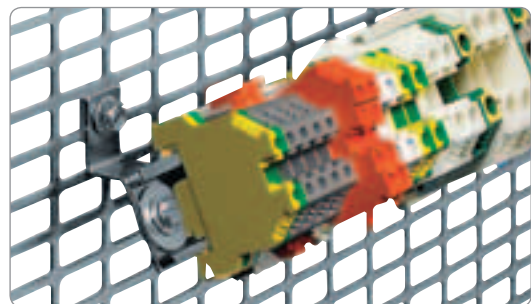
Reference by unit. Order by multiples of 10 (10, 20, 30...).

Reference
NSYETF



DB300824EN

 Telequick System



PB500833

Terminal-block support bracket

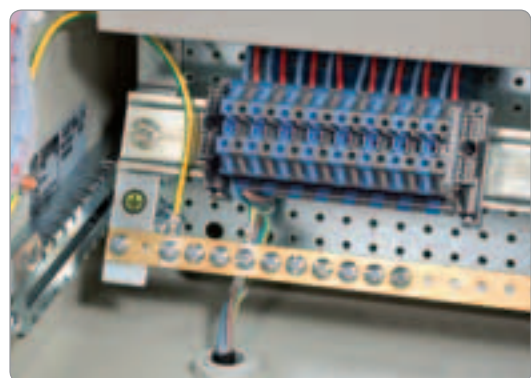
- Tilted to 45°.
- Material: treated steel.



Composition: 2 lugs and fixings

Reference

NSYEDCO



PB500833

Combined fixing lugs for the earthing strip

- They allow the mounting of an earth-collector rail at the bottom of the enclosure and a DIN rail.
- Tilted to 30°.
- Earthing strip, ref. **NSYECB1M153**. See page **493**.



Composition: 2 fixing lugs and fixing elements.

Reference

DZ5MS10

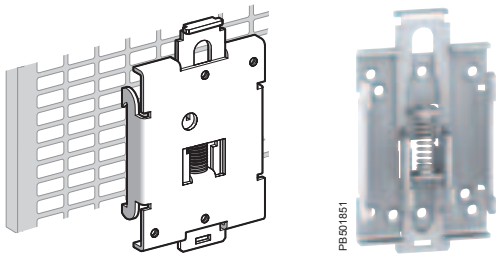


Clicked support plate

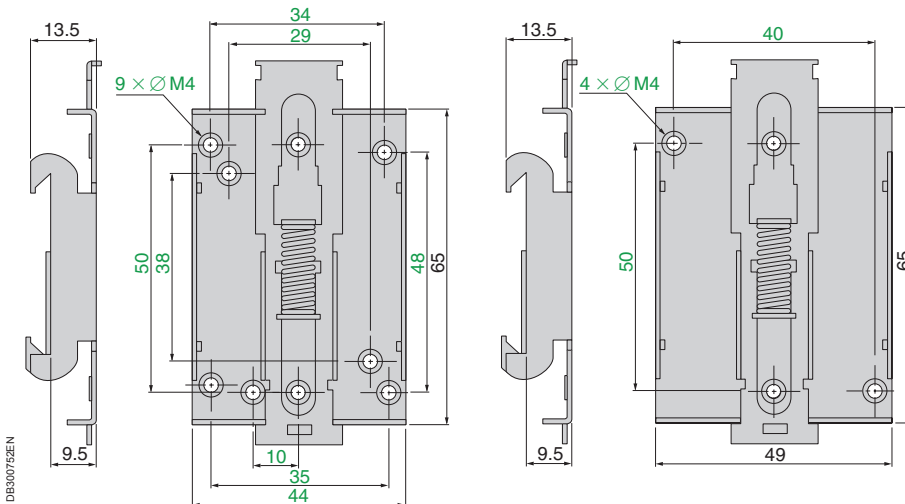
For screw mounted equipment. Zinc-plate coated, for mounting on 35 mm symmetric and double profile DIN rails or Telequick mounting plate.

Supply: ten units and fixing elements.

Reference by unit. Order by multiples of 10 (10, 20, 30...).



Dimension (A) (mm)	Reference
44 x 65 - 9 screws	AX2DL01
49 x 65 - 4 screws	AX2DL02

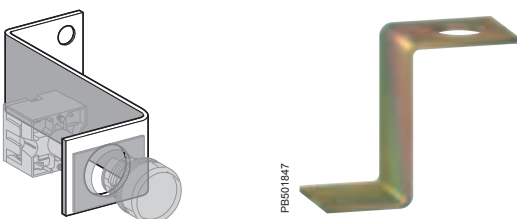


Bracket for fixing control units (Ø 22)

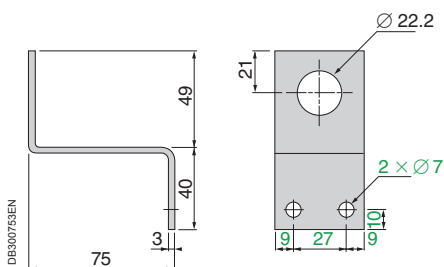
To mount any 22 mm diameter device directly on mounting plates.

Supply: ten units and fixing elements.

Reference by unit. Order by multiples of 10 (10, 20, 30...).



Description	Reference
Fixing bracket	DX1AP52



Mounting

Cross rails and profiles



Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility			✓	✓	✓		✓	✓	✓				

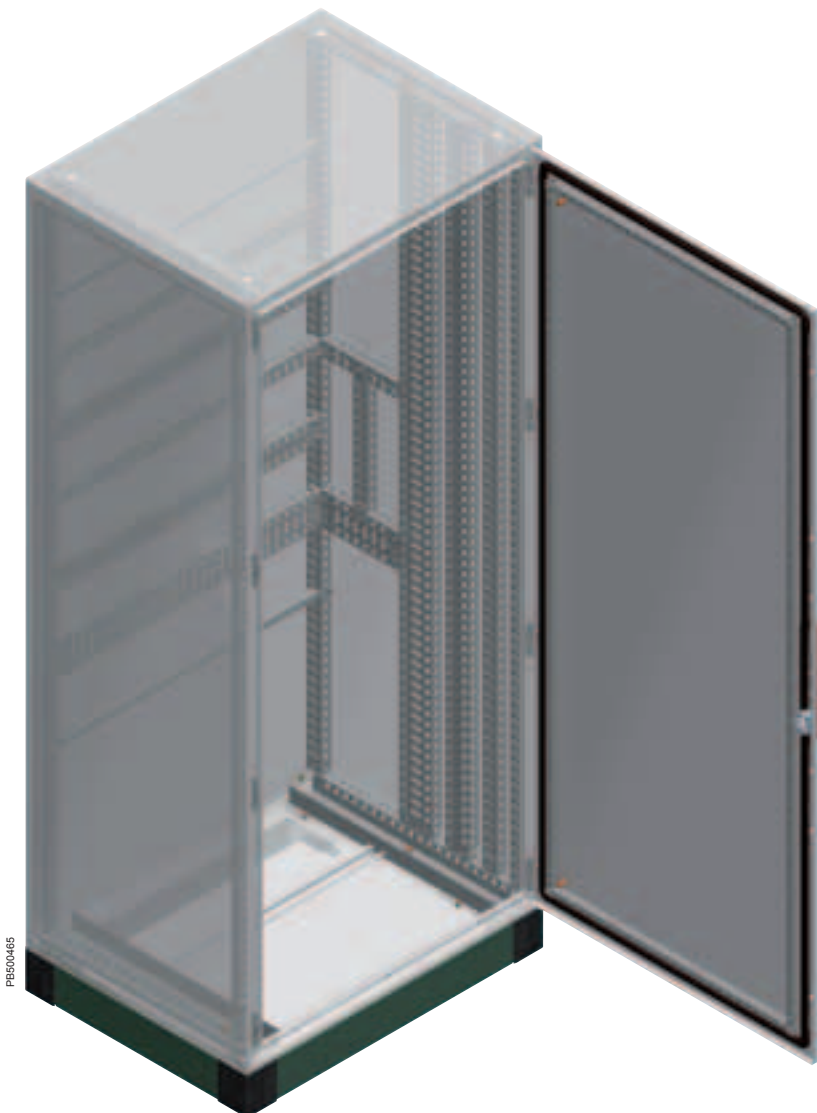
Combination examples

In the **Spacial SF, SM, SFX and SMX** enclosures, it is possible to create a fixing at any point of the inner volume, providing mounting planes with different widths, heights and depths.

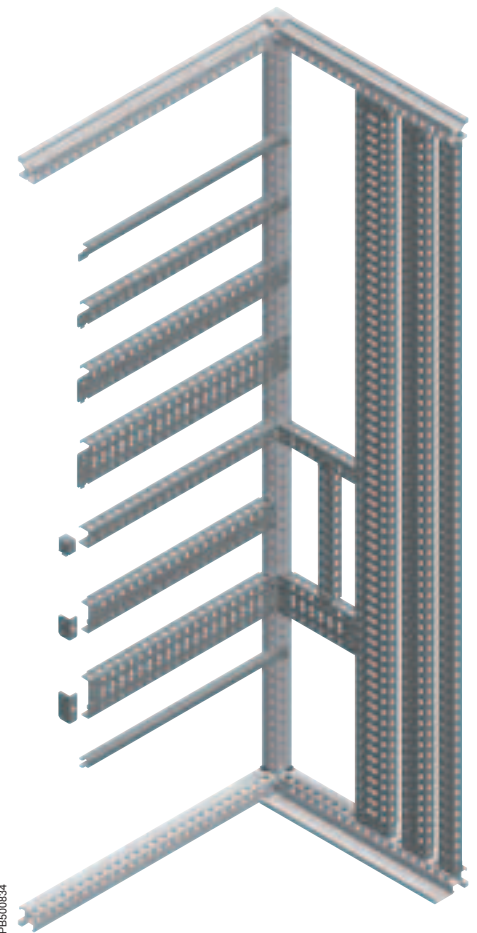
In the case of the **Spacial SM**, it may be necessary to install vertical/horizontal adaptation profiles and 40-mm universal cross rails (1 row).

For the formation of structures inside the enclosure, it is possible to combine three types of cross rails:

- Universal cross rails of 40 (1 row), 65 (2 rows) and 90 mm (3 rows).
- Quick-fixing cross rails of 40 (1 row), 65 (2 rows) and 90 mm (3 rows).
- Light cross rails.
- Mounting plate sliding rails, see page **351**.



PE500465



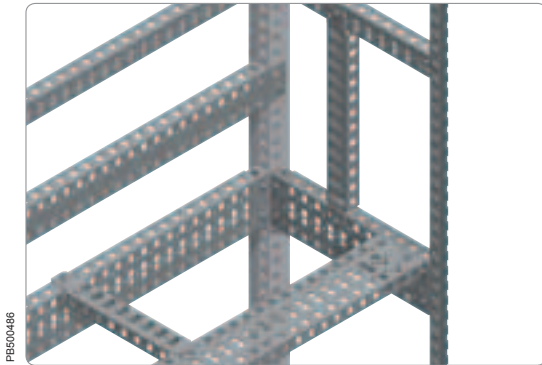
PE500834

Mounting

Cross rails and profiles

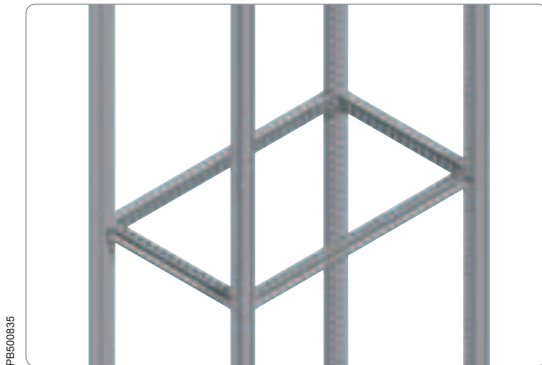


Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility			✓	✓	✓		✓	✓	✓				



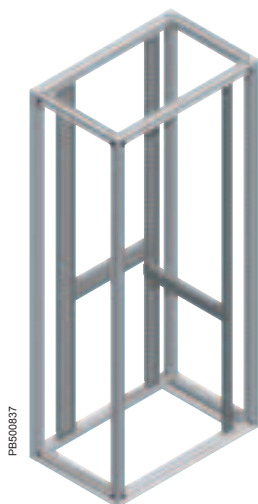
PB500486

Spacial SF and SFX: the cross rails can be fixed to the structure and among each other, offering multiple possibilities.



PB500935

The universal cross rails allow installations at the same level, around the entire perimeter of the enclosure.
To perform this type of installation in a **Spacial SM** enclosure, the vertical adaptation profile and the vertical 40-mm universal cross rail (1 row) are required, mounted in the back of the enclosure.



PB500837

Spacial SF: the universal cross rails can be installed in vertical position.

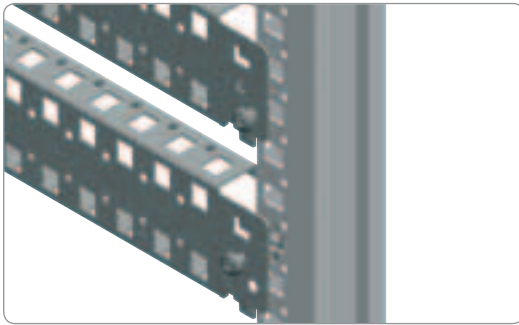
Mounting

Cross rails and profiles



Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility			✓	✓	✓		✓	✓	✓				

PB50039



The quick-fixing cross rails can be fixed directly to the structure, quickly and easily.

• **Spacial SF and SFX*:**

– They clip onto the structure and are fixed by M6 self-tapping screws, or optionally with M6 caged nuts.

• **Spacial SM:**

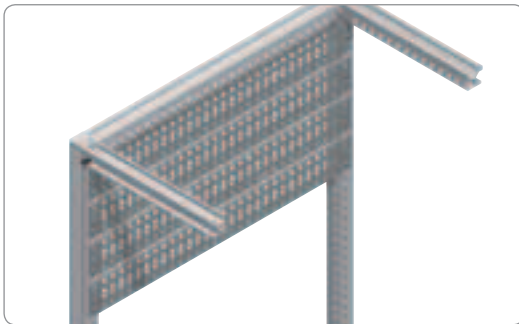
– Possibility of clipping onto the adaptation profile or another cross rail.

– Fixing by means of M6 self-tapping screws.

– Fixing by means of M6 caged nuts.

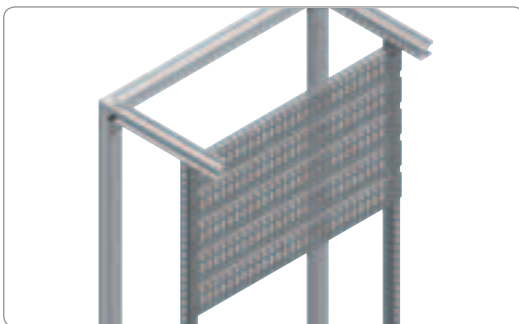
* In enclosures Spacial SFX is not possible to mount it in depth.

PB50039



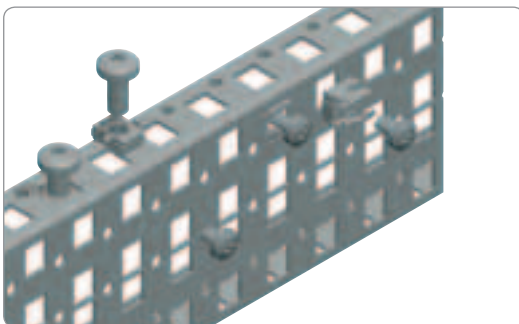
The quick-fixing cross rails can be used as a support for equipment in the back of the enclosure or offset with a pitch of 25 mm, using two universal cross rails in vertical position.

PB50041



The 40 mm universal cross rails (1 row) used as depth-adjustable uprights with a pitch of 25 mm allow the installation of a multitude of supports for installing switchgears. The height may be adjusted with a pitch of 25 mm.

PB50042



The main fixing point to the quick-fixing cross rails is the 5.2 mm drill hole for M6 self-tapping screw, although they can also receive M6 and M8 caged nuts.

Mounting

Cross rails and profiles

Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
			✓										

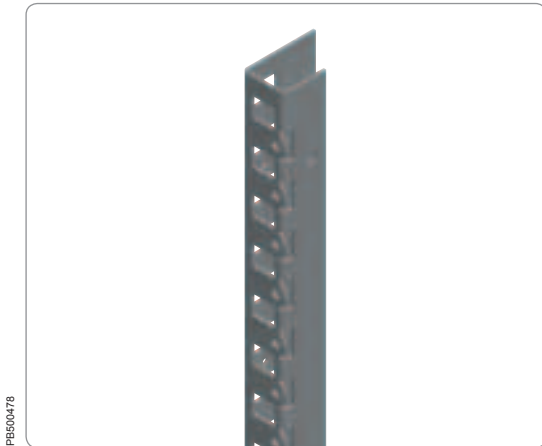
Vertical adaptation profiles

- The vertical adaptation profiles provide fixing points at the entrance to the enclosure.
- Fixing on the screws of the hinge and catches of the lock.
- Allows the depthwise fixing of cross rails, etc.
- Material: steel.
- Thickness: 1.5 mm.
- Finish: zinc-coated.



Supply: 2 vertical adaptation profiles and fixing screws.

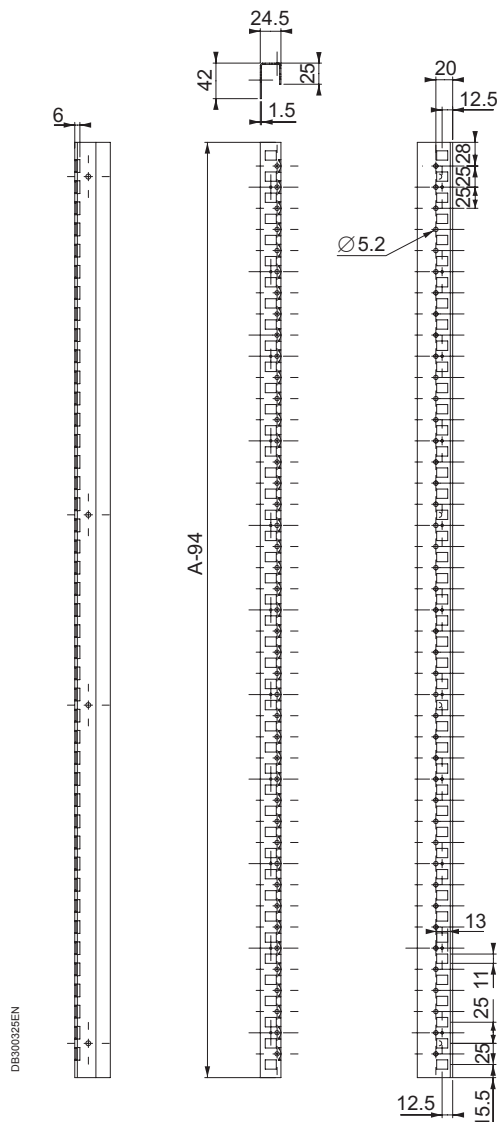
Nominal height (mm) (A)	Reference
1200	NSYSMVR12
1400	NSYSMVR14
1600	NSYSMVR16
1800	NSYSMVR18
2000	NSYSMVR20



PB600478



PB600493



Mounting

Cross rails and profiles

Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility			✓										

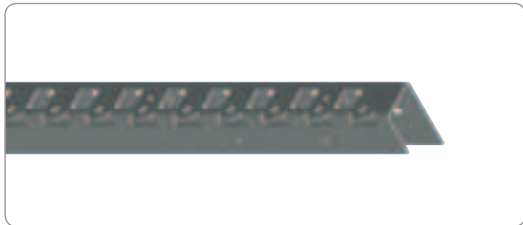
Horizontal adaptation profiles

- The horizontal adaptation profiles provide fixing points at the entrance to the enclosure.
- Material: steel.
- Thickness: 1.5 mm.
- Finish: zinc-coated.

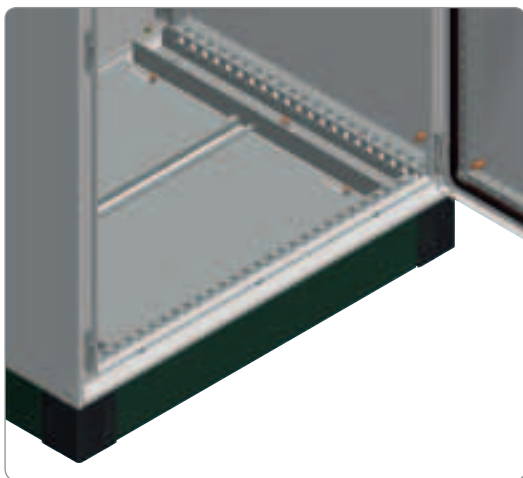


Supply: 2 horizontal adaptation profiles and fixing screws.

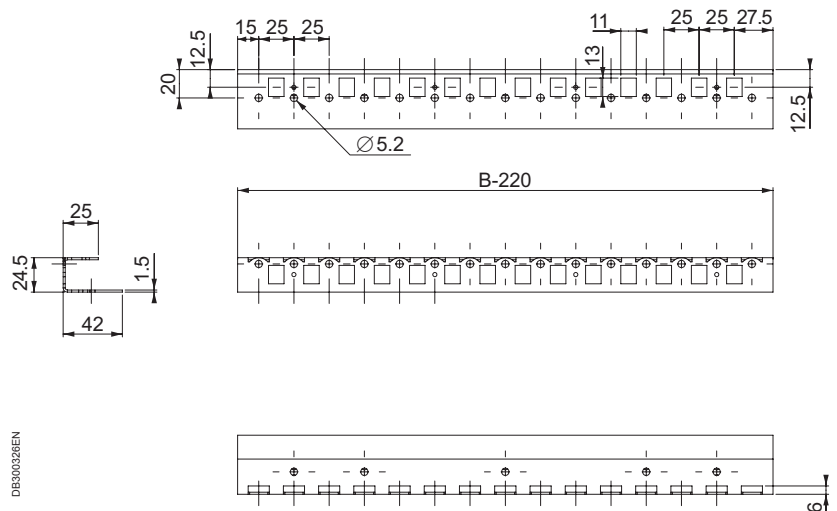
Nominal width (mm) (B)	Reference
600	NSYSMHR6
800	NSYSMHR8
1000	NSYSMHR10
1200	NSYSMHR12
1600	NSYSMHR16



PBE00844



PBE00845



DBE00026EN

Mounting

Cross rails and profiles

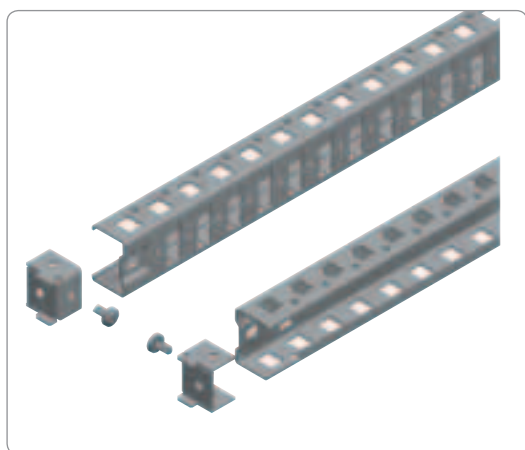


Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
			✓	✓	✓		✓	✓	✓				

Universal cross rails

- Various versions available, according to the width: 40 (1 row), 65 (2 rows) and 90 mm (3 rows), perforated with a pitch of 25 mm for the formation of structures inside the enclosure.
- They allow the performance of any type of assembly, as well as the adjustment of the depth of the various types of installation systems (partial plates, 19" racks, etc.).
- Material: zinc-coated steel.
- Thickness: 1.5 mm.

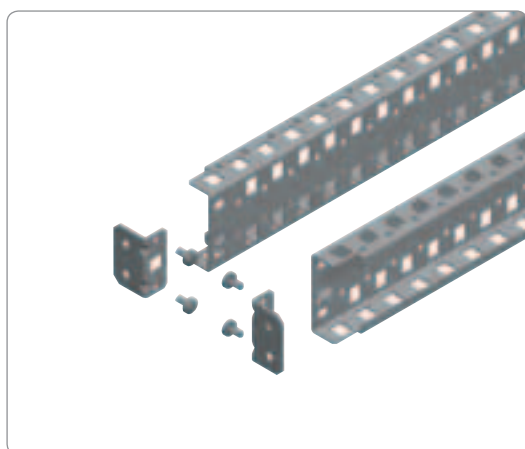
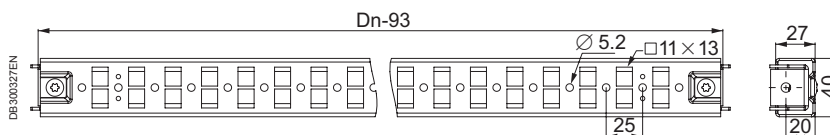
Supply: two universal cross rails, four supports for universal cross rails and fixing elements.



PB500846

Nominal dimensions Height/Width/Depth (mm)	Maximum load (kg) by rail	Reference
		40 mm (1 row)
300	70	NSYSUCR4030
400	60	NSYSUCR4040
500	60	NSYSUCR4050
600	50	NSYSUCR4060
800	40	NSYSUCR4080
1000	30	NSYSUCR40100
1200	20	NSYSUCR40120
1400	(1)	NSYSUCR40140
1600	(1)	NSYSUCR40160
1800	(1)	NSYSUCR40180
2000	(1)	NSYSUCR40200
2200	(1)	NSYSUCR40220

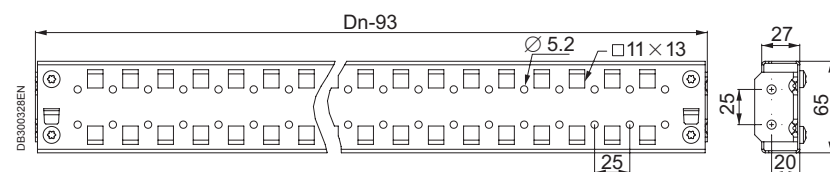
(1) For vertical assembly only.



PB500847

Nominal dimensions Height/Width/Depth (mm)	Maximum load (kg) by rail	Reference
		65 mm (2 rows)
300	110	NSYSUCR6530
400	100	NSYSUCR6540
500	90	NSYSUCR6550
600	80	NSYSUCR6560
800	70	NSYSUCR6580
1000	50	NSYSUCR65100
1200	50	NSYSUCR65120
1400	(1)	NSYSUCR65140
1600	(1)	NSYSUCR65160
1800	(1)	NSYSUCR65180
2000	(1)	NSYSUCR65200
2200	(1)	NSYSUCR65220

(1) For vertical assembly only.



> Advantage:

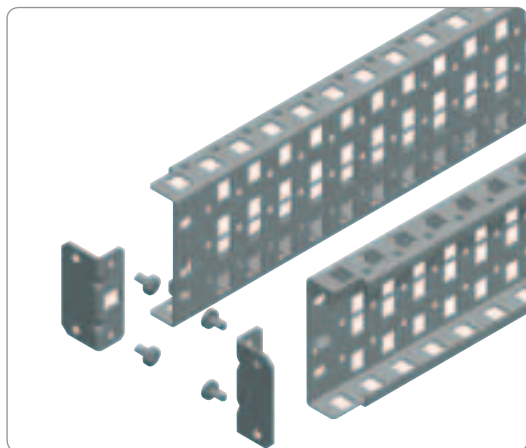
The universal cross rails allow any type of installation to be performed.

Mounting

Cross rails and profiles

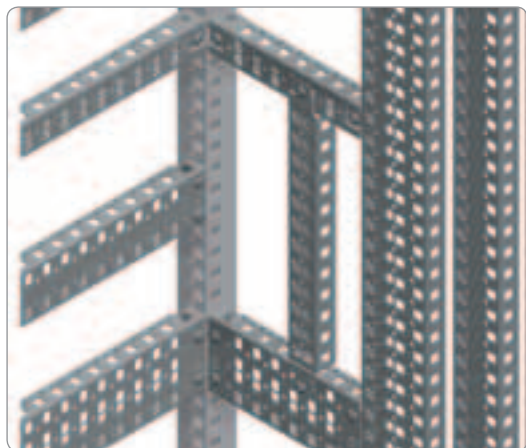
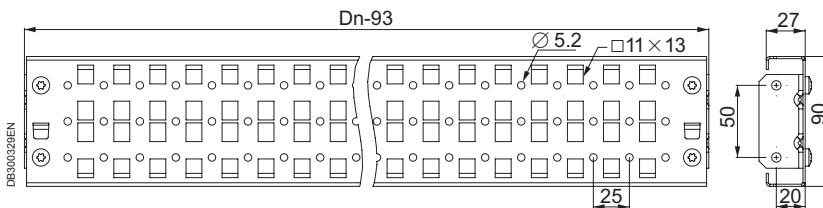


Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
			✓	✓	✓		✓	✓	✓				



Nominal dimensions	Maximum load (kg) by rail	Reference
Height/Width/Depth (mm)		90 mm (3 rows)
300	130	NSYSUCR9030
400	120	NSYSUCR9040
500	120	NSYSUCR9050
600	110	NSYSUCR9060
800	100	NSYSUCR9080
1000	70	NSYSUCR90100
1200	70	NSYSUCR90120
1400	(1)	NSYSUCR90140
1600	(1)	NSYSUCR90160
1800	(1)	NSYSUCR90180
2000	(1)	NSYSUCR90200
2200	(1)	NSYSUCR90220

(1) For vertical assembly only.



Other dimensions

- Other dimensions of universal cross rails of 40 (1 row) and 90 mm (3 rows) for assembly in other positions, and between cross rails.
- Material: zinc-coated steel.
- Thickness: 1.5 mm.

Supply: two universal cross rails, four supports for universal cross rails and fixing elements.

Nominal dimensions	Maximum load (kg) (1)	Reference	Maximum load (kg) by rail	Reference
		40 mm (1 row)		90 mm (3 rows)
700	50	NSYSUCR4070	110	NSYSUCR9070
900	40	NSYSUCR4090	100	NSYSUCR9090
1100	30	NSYSUCR40110	70	NSYSUCR90110
1500	(1)	NSYSUCR40150	(1)	NSYSUCR90150

(1) Cross rails only for fixing cables.

Mounting

Cross rails and profiles

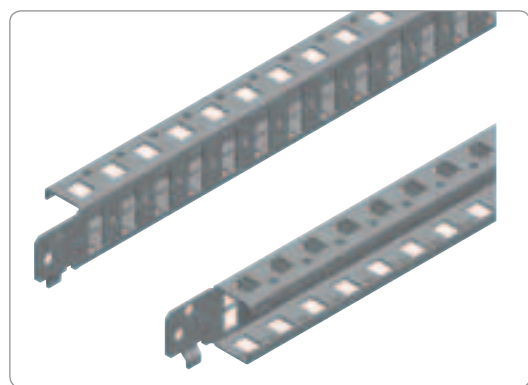


Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
			✓	✓	✓		✓	✓	✓				

Quick-fixing cross rails

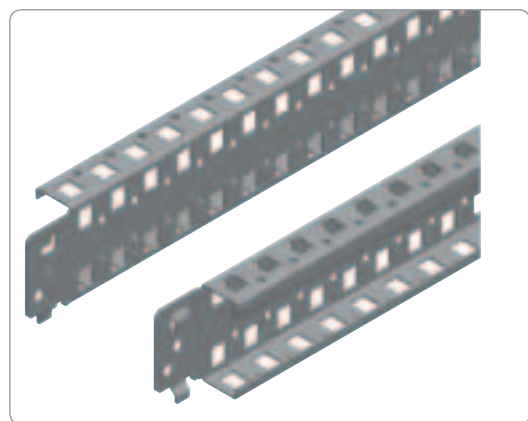
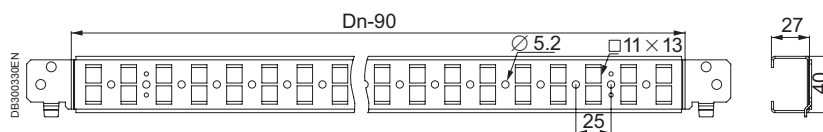
- There are 3 models, according to width: 40 mm (1 row), 65 mm (2 rows) and 90 mm (3 rows), perforated with a pitch of 25 mm (Ø 5.2 mm).
- Adjustable with a pitch of 25 mm.
- **Spacial SF:** they are fixed directly to the structure, quickly and safely. Clip-on plus screwing.
- **Spacial SM:** cross rails for depthwise fixing by means of adaptation profiles and 40 mm universal cross rails (1 row), or between cross rails in any other position.
- Material: zinc-coated steel.

Supply: two quick-fixing cross rails and fixing elements.



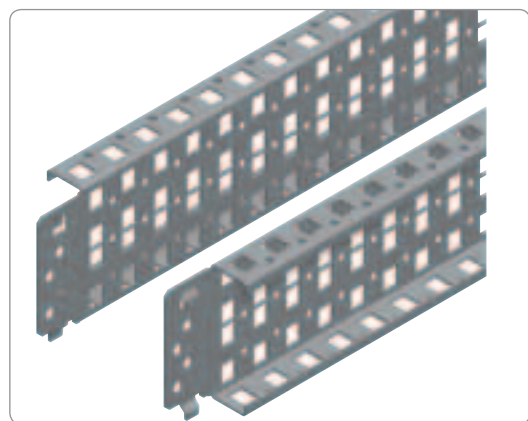
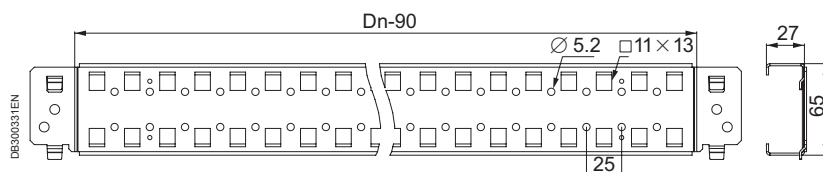
PB500650

Nominal dimensions	Maximum load	Reference
Height/Width/Depth	(kg) by rail	40 mm (1 row)
400	60	NSYSQCR4040
500	60	NSYSQCR4050
600	50	NSYSQCR4060
800	40	NSYSQCR4080
1000	30	NSYSQCR40100
1200	20	NSYSQCR40120



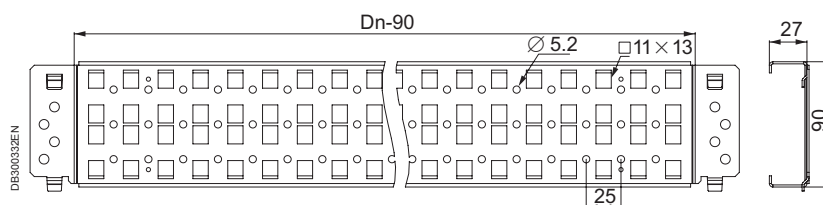
PB500651

Nominal dimensions	Maximum load	Reference
Height/Width/Depth	(kg) by rail	65 mm (2 rows)
400	100	NSYSQCR6540
500	90	NSYSQCR6550
600	80	NSYSQCR6560
800	70	NSYSQCR6580
1000	50	NSYSQCR65100
1200	50	NSYSQCR65120



PB500652

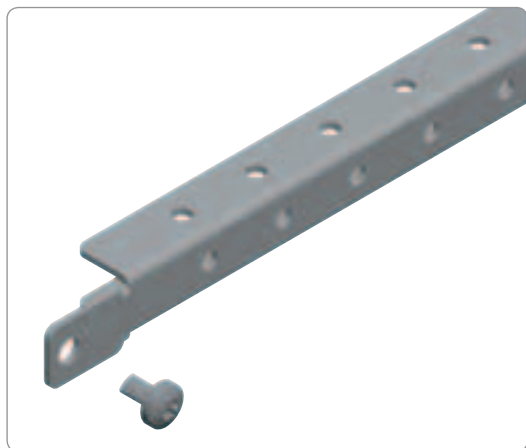
Nominal dimensions	Maximum load	Reference
Height/Width/Depth	(kg) by rail	90 mm (3 rows)
400	120	NSYSQCR9040
500	120	NSYSQCR9050
600	110	NSYSQCR9060
800	100	NSYSQCR9080
1000	70	NSYSQCR90100
1200	70	NSYSQCR90120



Mounting

Cross rails and profiles

Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility			✓	✓				✓					



PB500853

Light cross rails

- **Spacial SF and SFX:** direct fixing to the structure or between cross rails.
- **Spacial SM:** fixing by means of adaptation profiles and 40 mm universal cross rails (1 row), or between cross rails in any other position.
- Adjustable with a pitch of 25 mm.
- The light cross rails are equipped with a row of drill holes with a diameter of 5.2 mm and a pitch of 25 mm, which allows fixing with an M6 self-tapping screw, ref. **NSYST30M6S**.
- Material: zinc-coated steel.

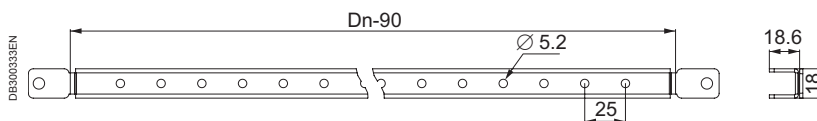


Supply: two light cross rails and fixing elements.

Nominal dimensions	Reference
Width/Depth	
400	NSYSLCR40
500	NSYSLCR50
600	NSYSLCR60
800	NSYSLCR80

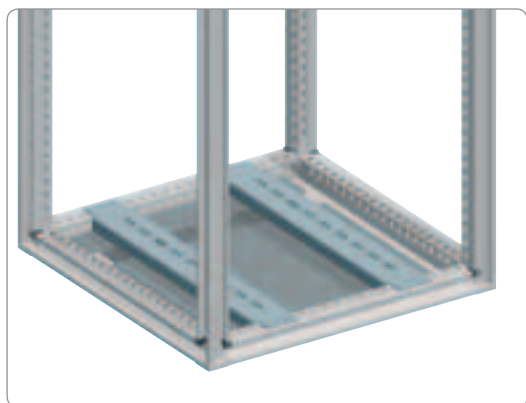


PB500854



DB30033EN

Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility				✓									



PB500855

Rails for heavy loads

- They can be mounted with a cable-gland plate or with a previously mounted mounting plate.
- Laterally adjustable with a pitch of 25 mm.
- Elongated holes, for adjusting the centre-to-centre distance of the switchgear.
- Material: galvanised steel.
- Thickness: 4 mm.



Supply: 2 rails for heavy loads and fixing elements.

Nominal dimensions (mm)	Maximum load (kg)	Reference
Depth		
400	575	NSYHLCR40
500	525	NSYHLCR50
600	500	NSYHLCR60
800	475	NSYHLCR80

Mounting

Equipment support accessories

Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
			✓	✓									



Tray installed on the structure.

Fixed tray

- Options for fixing the tray to the enclosure:
 - If the tray has the same dimensions as the enclosure:
 - Spacial SF**: direct fixing to the structure.
 - Spacial SFX**: installation possible only with universal cross rails, see on page 371.
 - Spacial SM**: fixing by means of adaptation profiles and 40-mm universal cross rails (1 row) in vertical position.
 - If the tray is smaller than the dimensions of the enclosure: fixing on depth cross rails.
 - Depth-adjustable tray with a pitch of 25 mm.
- Provided with cut-outs for improving air circulation inside.
- Material: steel.
- Finish: painted with epoxy-polyester resin, RAL-7035 grey.
- Acceptable load: 150 kg, evenly distributed.
- Tray height: 30 mm.



Supply: one fixed tray and fixing elements.

> Advantage:

Withstands loads of up to 150 kg.

Nominal dimensions (mm)		Tray Dimensions (mm)	Reference
Width	Depth		
600	400	482 x 290 x 30	NSYFXT6040
	500	482 x 390 x 30	NSYFXT6050
	600	482 x 490 x 30	NSYFXT6060
800	400	682 x 290 x 30	NSYFXT8040
	500	682 x 390 x 30	NSYFXT8050
	600	682 x 490 x 30	NSYFXT8060



Telescopic rails fixed to the structure.

Telescopic rails

- Spacial SF**: installation directly on the structure of the enclosure or on universal cross rails.
- Spacial SFX**: Installation possible only with universal cross rails, see on page 371.
- Spacial SM**: installation by means of adaptation profiles and 40-mm universal cross rails (1 row) in vertical position, or on horizontal universal cross rails.
- The installation of a telescopic tray consists of the following:
 - 1 fixed tray.
 - 2 telescopic rails.
 - End-of-travel stop of the rails in open and closed position.
- Material: zinc-coated steel.
- Acceptable load: 50 kg evenly distributed.



Supply: two telescopic rails and fixing elements.

Nominal dimensions (mm)	Reference
Depth	
400	NSYTTG40
500	NSYTTG50
600	NSYTTG60

Mounting

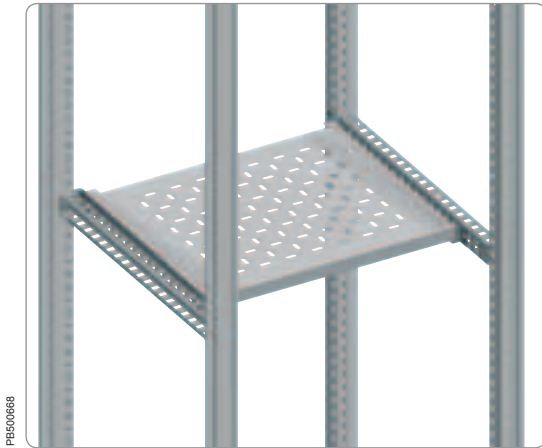
Equipment support accessories

Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility			✓	✓			✓	✓					

Tray cross rails

- The cross rails allow the installation of fixed trays and telescopic rails. Quick and universal cross rails, see page 371.

Nominal dimensions (mm)	Universal cross rail reference	Quick-fixing cross rail reference
Depth	40 mm (1 row)	40 mm (1 row)
400	NSYSUCR4040	NSYSQCR4040
500	NSYSUCR4050	NSYSQCR4050
600	NSYSUCR4060	NSYSQCR4060
800	NSYSUCR4080	NSYSQCR4080



PB500668

Tray installed on cross rails.



PB500672

Handle for telescopic trays

- Handle designed for easy extraction of the sliding trays.
- Material: polyamide 6 (black).



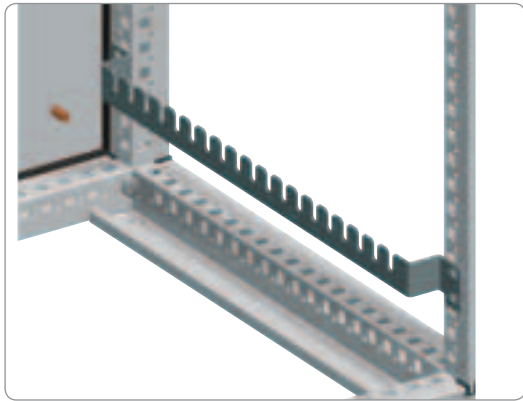
Supply: two units and fixing elements.

Reference

NSY1TH

PB500671

Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility				✓									



PB500861

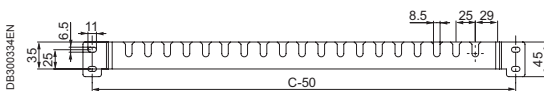
Cross rail for Lütze chassis

- Cross rail for fixing and adjusting the depth of the Lütze chassis.
- Material: galvanised steel.
- Thickness: 2.5 mm.

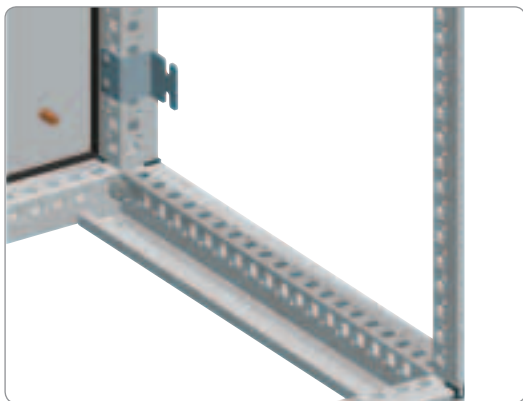


Supply: 6 cross rails for Lütze chassis and fixing elements.

Nominal dimensions (mm)	Reference
Depth (C)	
400	NSYLCR40
500	NSYLCR50
600	NSYLCR60



DB300334EN



PB500862

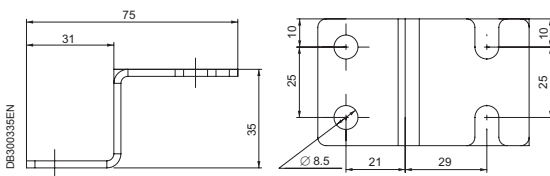
Support for Lütze chassis

- Support for installing Lütze chassis in the back of the enclosure.
- Material: galvanised steel.
- Thickness: 2.5 mm.



Supply: 6 supports and fixing elements.

Reference
NSYLSUP



DB300335EN

Mounting

19" Chassis



PS500322

Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility	✓	✓				✓							

19" fixed chassis for wall mounting enclosure

- 19" fixed chassis comprising 2 19" uprights with fixing.
- Material: galvanized steel, thickness 20/10 mm.
- Maximum load: 3 kg per unit.
- Adjustable in depth by fixing on the step slides in accessories.

Enclosure (mm)		Unit number	Reference
Height	Width		
400	600	8	NSYVDM8UF
600	600	12	NSYVDM12UF
800	600	17	NSYVDM17UF
1000	600	21	NSYVDM21UF



PS500323

Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility	✓	✓				✓							

19" swing chassis for wall mounting enclosure

- 19" swing chassis opening to 120° with closure by 3 mm double bar insert.
- Material: steel, textured epoxy-polyester powder paint colour grey RAL 7035.
- Maximum load: 3 kg per unit.

Enclosure (mm)		Unit number	Reference
Height	Width		
400	600	7	NSYVDM7UP
600	600	11	NSYVDM11UP
800	600	16	NSYVDM16UP
1000	600	20	NSYVDM20UP
1000	800	20	NSYVDM20U8P
1200	800	25	NSYVDM25U8P

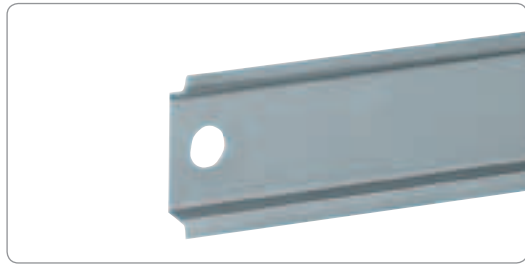


PS500189

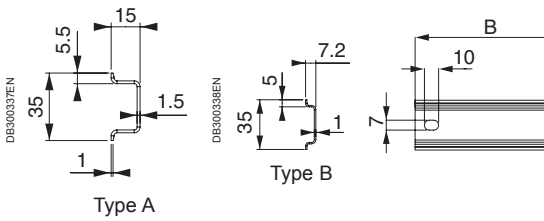
Fixings for 19" rack

- They allow 19" accessories to be mounted.
- Caged nut compatible with 8.5 x 8.5 mm and 9.5 x 9.5 mm holes.

Batch of	Name	Reference
30	M6 screws + washers + nuts	NSYGFR95M63
50	M6 x 16 screws and washers	NSYGFR166P
100	M6 caged nuts	NSYCN9M625
50	M6 screws + washers + nuts	NSYGFR95M65
50	M5 screws + washers + nuts	NSYGFR95M55



PB500773



Symmetric DIN rails

Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
	✓	✓				✓					✓		

Symmetric DIN rail for the Wall-Mounting range

- Fixing to mounting plates or another fixing elements, uprights not included in the supply.
- 2 types:
 - Type A: 35 x 15 mm, thickness 1.5 mm.
 - Type B: 35 x 7,5 mm, thickness 1 mm.
- Material: zinc-coated steel.

Supply: 20 rails and fixings for direct assembling to the structure.

References by unit. Order by multiples of 20 units (20, 40, etc.).

Dimensions (mm)	Rail type	Rail length (B) (mm)	Reference
300	B	250	NSYSDR30B
400	B	350	NSYSDR40B
500	A	450	NSYSDR50A
600	A	550	NSYSDR60A
800	A	750	NSYSDR80A
1000	A	950	NSYSDR100A

Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
			✓	✓	✓		✓	✓	✓				

Symmetric DIN rails for the metal enclosure range

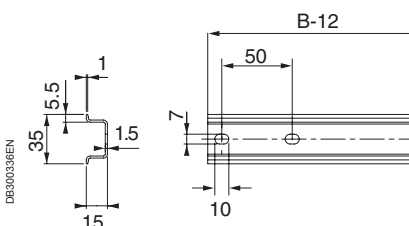
- Fixed to the standard or technical uprights, not included in the supply, or directly to the structure.
- Ensure horizontal continuity in case of enclosure assembly.
- Rail type:
 - Type A: 35 x 15 mm, thickness 1.5 mm.
- Material: zinc-coated steel.

Supply: 20 rails and fixings for direct assembling to the structure.

References per unit. Please place orders in multiples of 20 units (20, 40, etc.).



PB50022



Dimensions (mm) (B)	Rail length (mm) (B-12)	Reference
600	588	NSYSDR60
800	788	NSYSDR80
1000	988	NSYSDR100
1200	1188	NSYSDR120

Nuts			
	Type	Reference	
 Clip-on nut	M4	AF1GC4	100
	M5	AF1GC5	100
	M6	AF1GC6	100

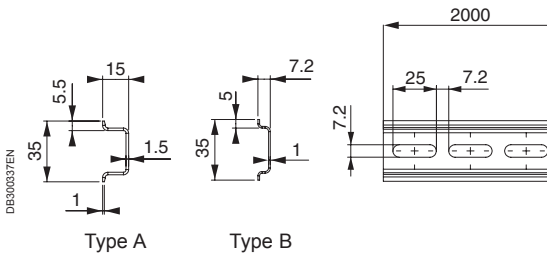
PB500883



PB500864

Symmetric rails, 2000 mm

Perforations	Material	Type	The reference correspond to	Reference	Supply
Not perforated	Galvanized steel	A	1 rail of 2000 mm	NSYSDR200	20
Not perforated	Galvanized steel	B	1 rail of 2000 mm	NSYSDR200B	20
Perforated	Galvanized steel	A	1 rail of 2000 mm	NSYSDR200D	20
Perforated	Galvanized steel	B	1 rail of 2000 mm	NSYSDR200BD	20
Not perforated	Zinc-coated steel	C	1 rail of 2000 mm	AM1DL201	6
Not perforated	Aluminium	D	1 rail of 2000 mm	AM1EA200	10



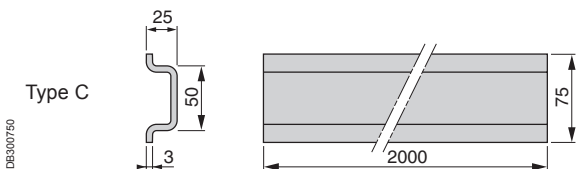
DB30037EN

Nuts			
	Type	Reference	
	M4	AF1GC4	100
	M5	AF1GC5	100
	M6	AF1GC6	100

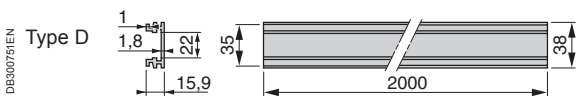
PB500863

Clip-on nut

Only for types A and B.



DB300750



DB300751EN



See also
the accessories



PB500482

Uprights
page 358



Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility			✓	✓	✓		✓	✓	✓				



PB500865

Asymmetric DIN rails

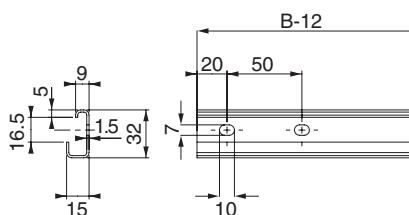
Asymmetric DIN rails for the Floor-Standing range

- Fixed to the standard or technical uprights, not included in the supply, or directly to the structure.
- Ensure horizontal continuity in the case of enclosure assembly.
- Thickness: 1.5 mm.
- Material: zinc-coated steel.

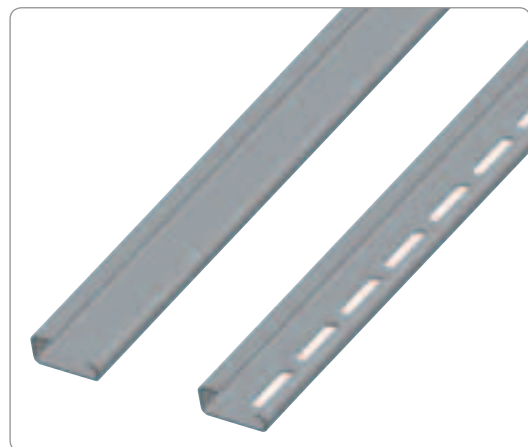
Supply: 20 rails and fixings for direct fixing to the structure.

References by unit. Order by multiples 20 units (20, 40, etc.).

DB300396EN



Dimensions (mm) (B)	Rail length (mm) (B-12)	Reference
600	588	NSYADR60
800	788	NSYADR80
1000	988	NSYADR100
1200	1188	NSYADR120



PB500867

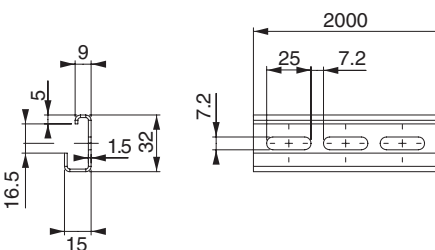
Asymmetric DIN rails, 2000 mm version

- Material: galvanised steel.

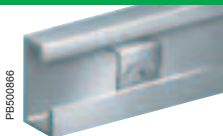
Supply: 20 rails with a length of 2 m.

References by unit. Order by multiples of 20 units (20, 40, etc.).

DB300346EN



Length (mm)	Perforations	Reference
2000	Not perforated	NSYADR200
2000	Perforated	NSYADR200D

Nuts			
	Type	Reference	
	M4	DZ5ME5	100
	M5	DZ5ME8	100
	M6	DZ5ME9	100

PB500866

Quarter-turn sliding nut



Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility			✓	✓	✓		✓	✓	✓				



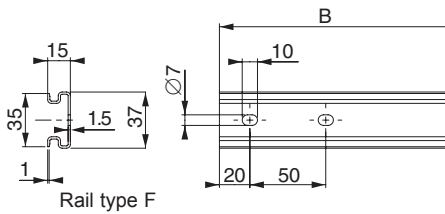
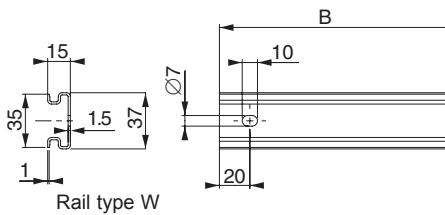
Double-profile DIN rails

- They combine the advantages of symmetric and asymmetric rails.
- They are fixed to the standard or technical uprights (see page 358) or directly to the structure.
- Quick installation of terminals according to standard DIN 46277/1.
- Thickness: 1.5 mm.
- Material: zinc-coated steel.

Supply: 20 rails and fixings for direct assembling to the structure.

References by unit. Order by multiples of 20 units (20, 40, etc.).

Enclosure type	Rail type	Enclosure dimension (mm)	Rail length - B (mm)	Reference
Wall-mounting	W	300	250	NSYDPR25
Wall-mounting	W	400	350	NSYDPR35
Wall-mounting	W	500	450	NSYDPR45
Wall-mounting	W	600	550	NSYDPR55
Wall-mounting	W	700	650	NSYDPR65
Wall-mounting	W	800	750	NSYDPR75
Floor-standing	F	600	588	NSYDPR60
Floor-standing	F	800	788	NSYDPR80
Floor-standing	F	1000	988	NSYDPR100
Floor-standing	F	1200	1188	NSYDPR120



Nuts			
	Type	Reference	
 Quarter-turn sliding nut	M3	AF1CF34	100
	M4	AF1CF34	100
	M5	AF1CF56	100
	M6	AF1CF56	100

Mounting Rails



PB500869

Double-profile DIN rails, 2000 mm version

- Thickness: 1.5 mm.
- Material: galvanised steel.



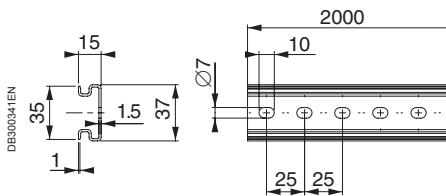
Supply: 20 rails with a length of 2 m.



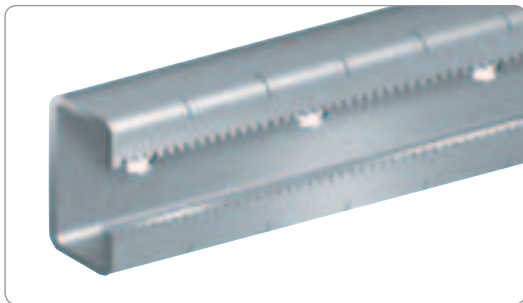
References by unit. Order by multiples of 20 units (20, 40, etc.).

Length (mm)	Perforations	Reference
2000	Not perforated	NSYDPR200
2000	Perforated	NSYDPR200D
2000	Not perforated	NSYDPR200T*

* 1 mm thickness.



DB300341EN



PB500872

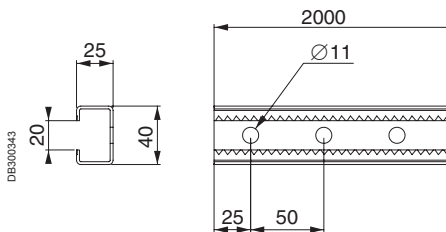
Serrated C-shaped rail for heavy loads

- Marked in steps of 25 mm to facilitate switchgear positioning.
- Thickness: 2 mm.
- Material: zinc-coated steel.



Supply: 2 rails with a length of 2 m.

Dimensions (A) (mm)	Reference
1150	AM1EC115
2000	AM1EC200



DB300343

Nuts			
	Type	Reference	
<p>PB500818</p> <p>(2) (1)</p> <p>Quarter-turn sliding nuts</p>	M6 (1)	NSYSNM6	10
	M8 (1)	NSYSNM8	10
	M6 (2)	NSYSNSM6	10
	M8 (2)	NSYSNSM8	10

Mounting Rails



PB500873

U-shaped rail

- Universal rails with elongated drill holes with a width of 8.5 mm which can house M4, M5 and M6 caged nuts.
- Material: galvanised steel.
- Thickness: 2 mm.

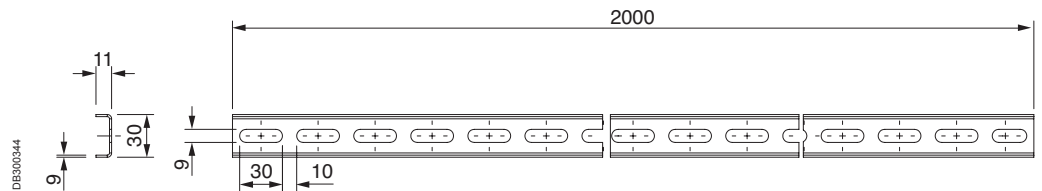


Supply: 20 rails with a length of 2 m.

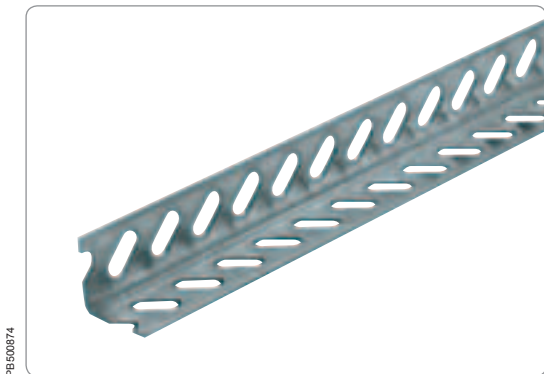


References by unit. Order by multiples of 20 units (20, 40, etc.).

Dimensions (mm)	Reference
2000	NSYCUT30



DB300344



PB500874

L-shaped rail

- Universal rails with elongated drill holes with a width of 8.5 mm which allow housing of M4, M5 and M6 caged nuts.
- Material: galvanised steel.
- Thickness: 2 mm.

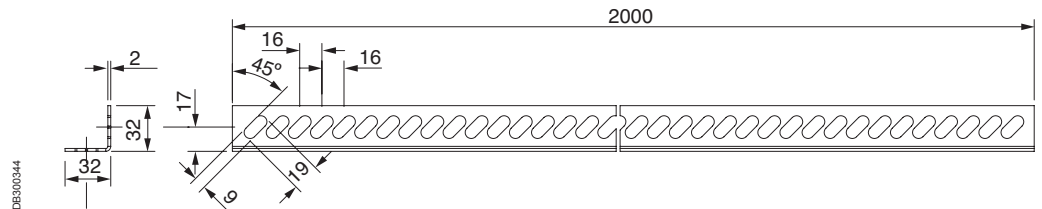


Supply: 20 rails with a length of 2 m.



References by unit. Order by multiples of 20 units (20, 40, etc.).

Dimensions (mm)	Reference
2000	NSYAT32



DB300344

Mounting Rails



PE500509

Connectors for symmetric C-shaped rails

- The connectors enable the formation of chassis or frames and structures for fixing switchgear, in any position inside the enclosures, allowing the fixing of DIN rails or other elements.
- See symmetric C-shaped rails.
- The fixing between connectors and rails is performed using combiplas nuts.

Examples of combinations with connectors for symmetric C-shaped rails



PE500870

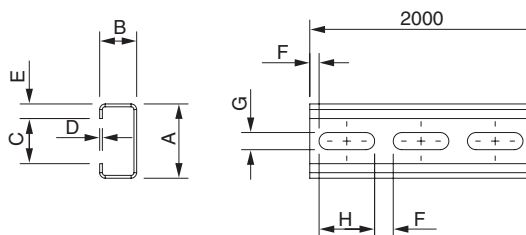
Symmetric C-shaped rails

- Rails for supporting and fixing switchgear on panels and enclosures, formation of chassis, racks and panel reinforcements.
- They are fixed to the structure and to one another by means of fixing elements.
- Material: galvanised steel.



References by unit. Order by multiples of the units specified in the supply.

Rail type	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	Supply	Reference
C20 (1)	21	11	10	1.5	5.5	-	-	-	20	NSYCN20
C40 (1)	40	20	24	1.5	8	-	-	-	20	NSYCN40
C60 (1)	60	30	36	2	12	-	-	-	10	NSYCN60
C20	21	11	10	1.5	5.5	5	6.2	15	20	NSYCNT20
C40	40	20	24	1.5	8	10	8.5	30	20	NSYCNT40
C60	60	30	36	2	12	10	10.5	30	10	NSYCNT60

(1) Not perforated.

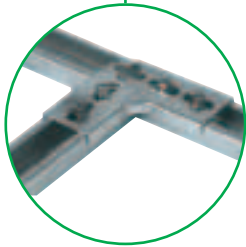
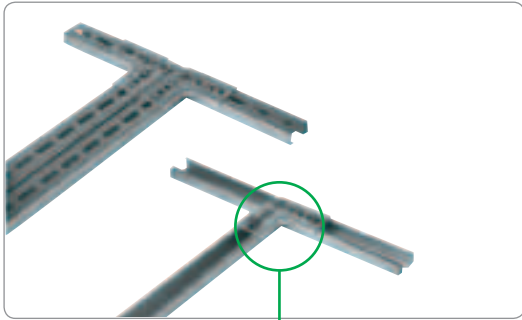


DE300342

Nuts				
	Type	Rail type	Reference	
 Combiplas nut	M3	C20	-	-
	M4		NSYBN204	100
	M6		NSYBN206	100
	M4	C40	NSYBN404	50
	M6		NSYBN406	50
	M8		NSYBN408	50
	M6	C60	NSYBN606	20
	M8		NSYBN608	20
	M10		NSYBN610	20
 Metal sliding nut	M4	C20	NSYB204	100
	M4	C40	NSYB404	100
	M6	C60	NSYB406	100

Mounting Rails

PB500375



EMA connectors

- The EMA connectors are used to joint two symmetric C-shaped rails, C20 and C40 types, at right angles; they can also be used to obtain a T-shaped assembly.
- Material: zinc-coated steel.
- Thickness: 2 mm.

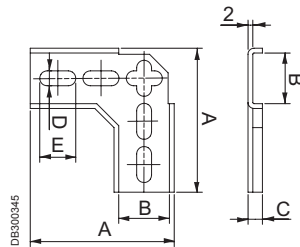


Supply: 20 units.



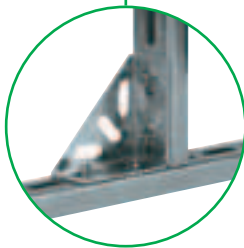
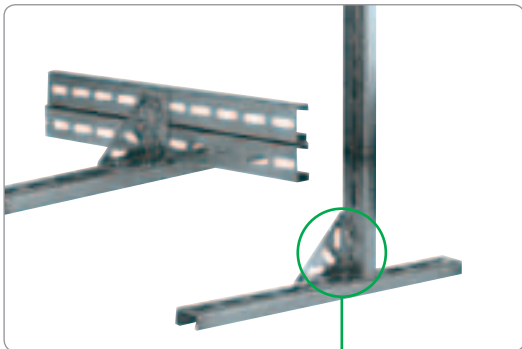
References by unit. Order by multiples of 20 units (20, 40, 60, etc.).

A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Reference
60	21.3	6	6.2	15	NSYEMA20
100	40.3	10	8.5	25	NSYEMA40



DB300345

PB500376



EVA connectors

- The EVA connectors are used to join two symmetric C-shaped rails, C20 and C40 types, forming an overlapping assembly with plane change, or also at right angles for the formation of spacers or supports at a different level.
- Material: zinc-coated steel.

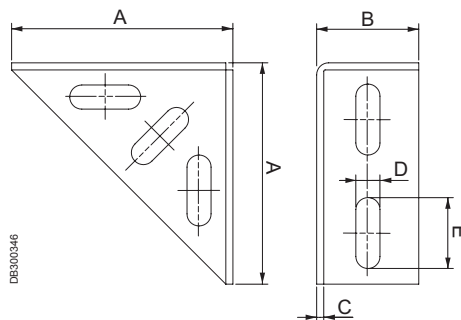


Supply: 20 units.



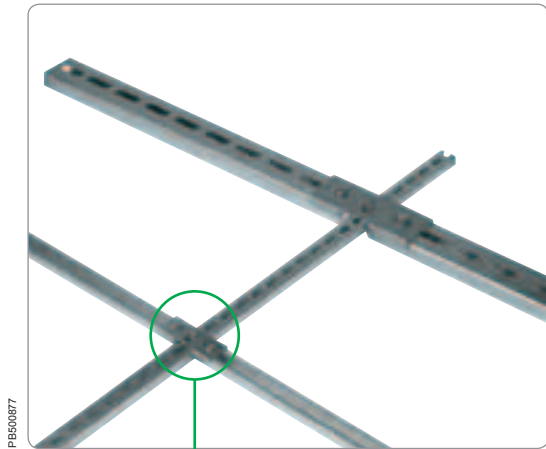
References by unit. Order by multiples of 20 units (20, 40, 60, etc.).

A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Reference
43	19	2	6.2	15	NSYEVA20
78	36	2.5	8.5	25	NSYEVA40



DB300346

Mounting Rails



PE600877

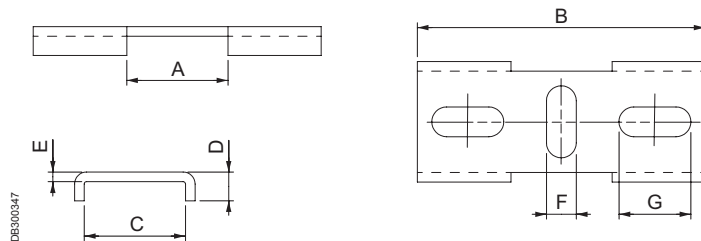
UCA connectors

- The UCA connectors are used to join symmetric C-shaped rails, types C20 and C40, forming a cross-shaped assembly of three rails located on the same plane, for example inside a frame.
- Material: zinc-coated steel.

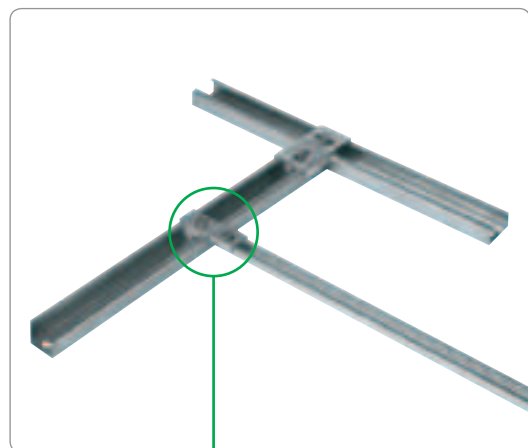
Supply: 20 units.

References by unit. Order by multiples of 20 units (20, 40, 60, etc.).

A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	Reference
21.3	60	21.3	6	2	6.2	15	NSYUCA22
40.3	116	40.3	10	2.5	8.5	25	NSYUCA44



DB300347



PE600878

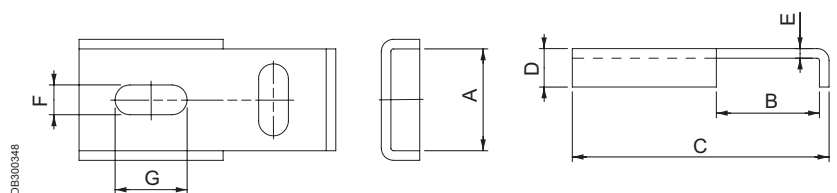
UTA connectors

- The UTA connectors are used to create a T-shaped assembly between two symmetric C-shaped rails, C20 and C40 types, especially recommended for forming crossbars on chassis and frames.
- The UTA42 connectors type allows C20 rails to be joined with C40 rails.
- Material: zinc-coated steel.

Supply: 20 units.

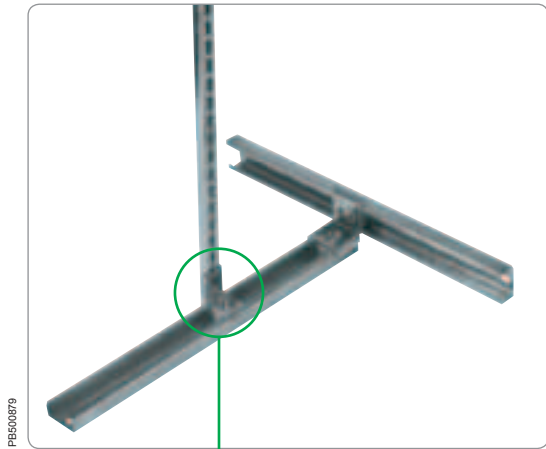
References by unit. Order by multiples of 20 units (20, 40, 60, etc.).

A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	Reference
21.3	21.5	53.5	8	2	6.2	15	NSYUTA22
21.3	40.5	72.5	8	2	6.2	15	NSYUTA42
40.3	40.5	81	10	2.5	8.5	25	NSYUTA44

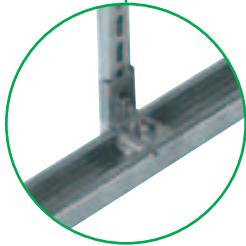


DB300348

Mounting Rails



PE500879



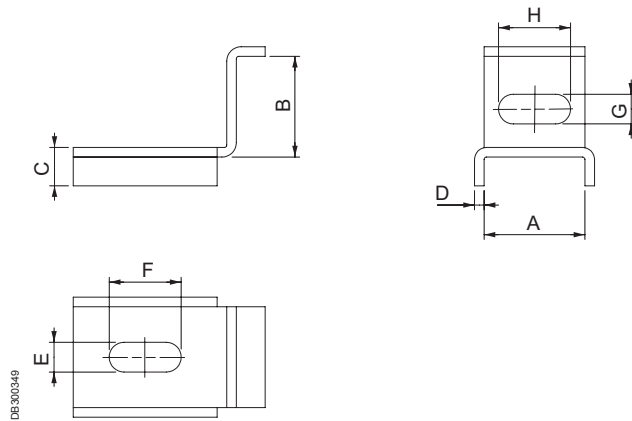
ECA connectors

- The ECA connectors are used to form a cross-shaped assembly with two symmetric C-shaped rails, C20 and C40 types, located perpendicularly on different planes.
- The ECA42 connector type makes it possible to join C20 rails with C40 rails.
- Material: zinc-coated steel.

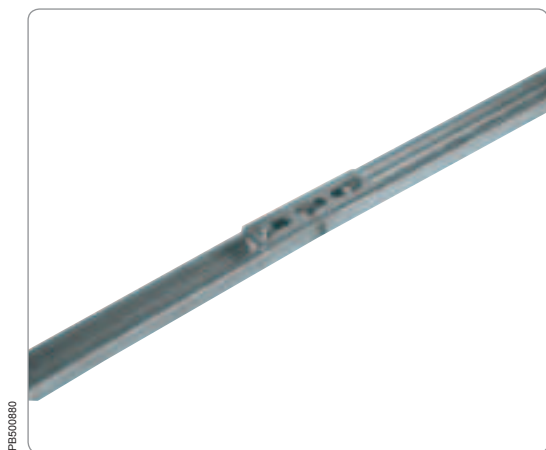
Supply: 20 units.

References by unit. Order by multiples of 20 units (20, 40, 60, etc.).

A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	Reference
21.3	21.5	8	2	6.2	15	6.2	15	NSYECA22
21.3	40.5	8	2	6.2	15	6.2	13	NSYECA42
40.3	40.5	10	2.5	8.5	25	8.5	25	NSYECA44



DB 300349



PE500880

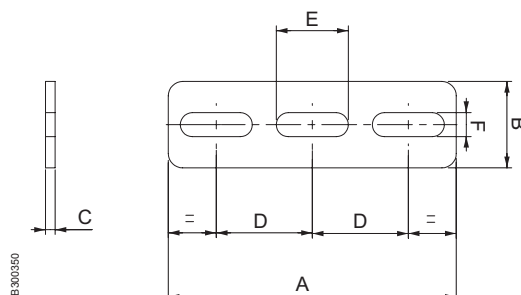
UR connectors

- The UR connectors are used for rectilinear joining of symmetric C-shaped rails.
- Recommended when the standard length is not sufficient or for maximising fractions.
- Material: zinc-coated steel.

Supply: 20 units.

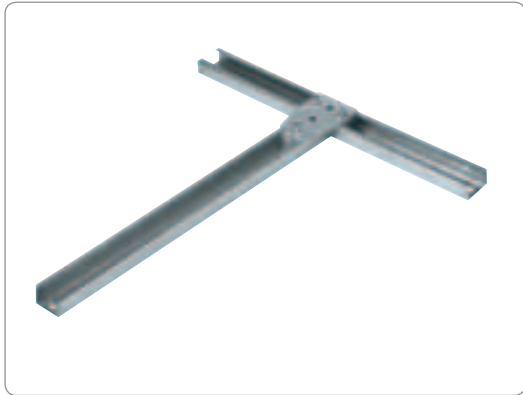
References by unit. Order by multiples of 20 units (20, 40, 60, etc.).

A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Reference
60	18	2	20	15	5	NSYUR20
130	36	3	40	30	10	NSYUR40
130	55	3	40	30	10	NSYUR60



DB 300350

Mounting Rails



PE900851

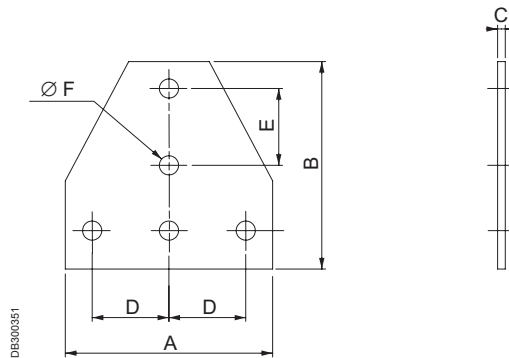
UT connectors

- The UT connectors are used to form T-shaped assemblies between symmetric C-shaped rails. They are used to form crossbars on frames and structures.
- Material: zinc-coated steel.

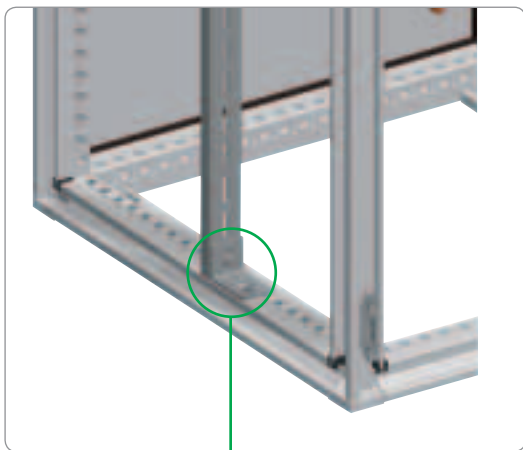
Supply: 20 units.

References by unit. Order by multiples of 20 units (20, 40, 60, etc.).

A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Reference
54	54	2	20	20	5	NSYUT20
60	80	2	20	25	8	NSYUT40
80	110	2	20	29	10	NSYUT60



DB300351



PE900853

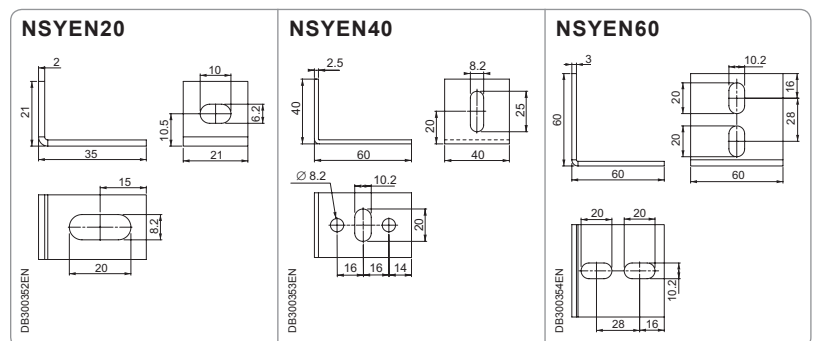
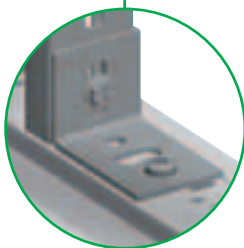
EN connectors

- The EN connectors are used to create L-shaped assemblies with plane change in the symmetric C-shaped rails, between them or with any other section.
- Material: zinc-coated steel.

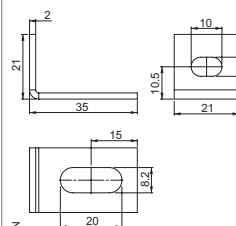
Supply: 20 units.

References by unit. Order by multiples of 20 units (20, 40, 60, etc.).

Reference
NSYEN20
NSYEN40
NSYEN60

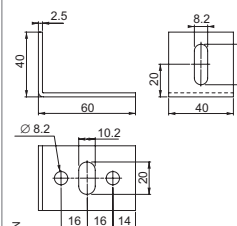


NSYEN20



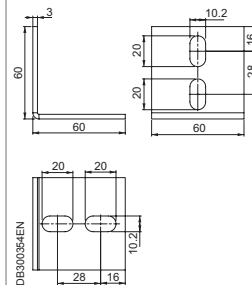
DB300352EN

NSYEN40



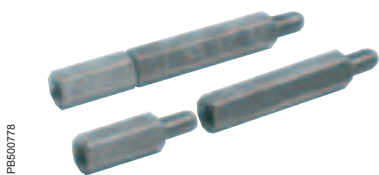
DB300353EN

NSYEN60

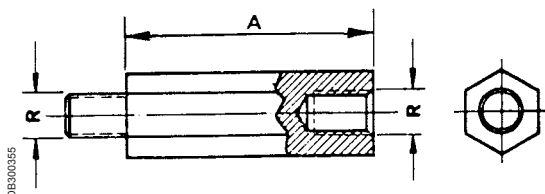


DB300354EN

Mounting Rails



PB500776



DE300355

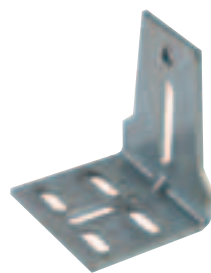
Hexagonal spacers

- Hexagonal spacers for raising switchgear, mounting plates, etc. They can be linked together to achieve variable heights with gradual elevation.
- Their assembly requires M6 or M8 caged nuts.

Supply: 100 hexagonal connectors.

References by unit. Order by multiples of 100 units (100, 200, 300, etc.).

Spacer height (mm) (A)	Thread type (R)	Reference
10	M5	NSYE1025
15	M5	NSYE1525
20	M5	NSYE2025
10	M6	NSYEX106
12	M6	NSYEX126
14	M6	NSYEX146
16	M6	NSYEX166
18	M6	NSYEX186
20	M6	NSYEX206
30	M6	NSYEX306
40	M6	NSYEX406
50	M6	NSYEX506
100	M6	NSYEX1006
15	M8	NSYEX158
20	M8	NSYEX208
30	M8	NSYEX308
40	M8	NSYEX408
50	M8	NSYEX508
60	M8	NSYEX608
100	M8	NSYEX1008



PB500884

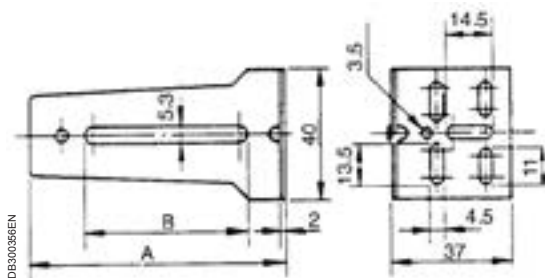
ETU modular spacers

- Modular spacers for installing devices or rails at a different level from that achieved with the basic chassis or mounting plate.
- Material: zinc-coated steel.

Supply: 20 units.

References by unit. Order by multiples of 20 units (20, 40, 60, etc.).

A (mm)	B (mm)	Reference
48	25	NSYETU48
58	25	NSYETU58
79	55	NSYETU79
118	55	NSYETU118



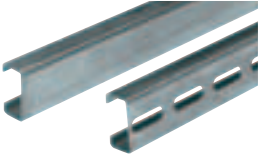
DE300356EN

Combination of spacers	Minimum height (mm)	Maximum height (mm)
NSYETU48 + NSYETU48	53	64
NSYETU48 + NSYETU58	63	74
NSYETU48 + NSYETU79	85	95
NSYETU48 + NSYETU118	124	134
NSYETU58 + NSYETU58	73	84
NSYETU58 + NSYETU79	94	104
NSYETU58 + NSYETU118	134	144
NSYETU79 + NSYETU79	84	125
NSYETU79 + NSYETU118	124	164
NSYETU118 + NSYETU118	164	204

Mounting

Nuts and screws for rails




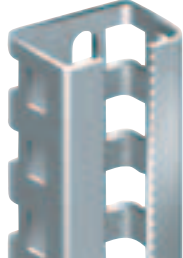

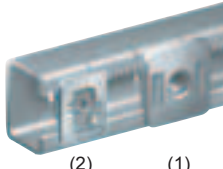


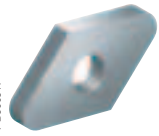
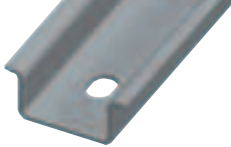
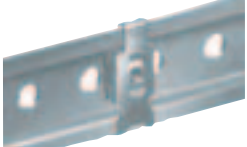
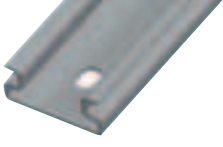
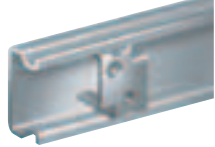
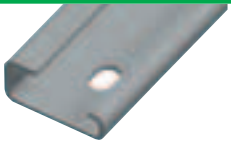
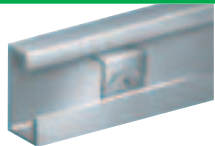
 References by unit. Order by multiples of the units specified in the supply.

Usage	Description		Reference	Supply		
Telequick mounting plates	Clip-on nuts for Telequick mounting plates					
		Clip-on nut M3	AF1EA3	100		
		Clip-on nut M4	AF1EA4	100		
		Clip-on nut M5	AF1EA5	100		
		Clip-on nut M6	AF1EA6	100		
C - shaped rail - 20/40/60 mm	Combiplas slide nut	Nut	Rail type	Reference	Supply	
		M4	C20	NSYBN204	100	
		M6		NSYBN206	100	
		M4	C40	NSYBN404	50	
		M6		NSYBN406	50	
		M8		NSYBN408	50	
		M6	C60	NSYBN606	20	
		M8		NSYBN608	20	
		M10		NSYBN610	20	
			M4	C20	NSYB204	100
			M4	C40	NSYB404	100
M6	C60		NSYB406	100		
All nuts	Screws with captive washer Hexagonal head		Reference	Supply		
		Screws M4 x 10 mm	AF1VA410	100		
		Screws M4 x 16 mm	AF1VA416	100		
		Screws M5 x 12 mm	AF1VA512	100		
		Screws M5 x 18 mm	AF1VA518	100		
		Screws M6 x 12 mm	AF1VA612	100		
		Screws M6 x 18 mm	AF1VA618	100		
		Screws M8 x 20 mm	AF1VC820	100		
Nuts and 6 mm Spacial enclosures holes	Torx screws with captive washer Hexagonal head		Reference	Supply		
		Torx T30 M6 x 16 mm	NSYST30M6	100		
		Torx T40 M8 x 16 mm	NSYST30M8	100		
		Torx T30 M6 x 12 mm self-tapping	NSYST30M6S	100		
Self-tapping screw			Reference	Supply		
		Screws M5 x 13 mm	NSYS13M5HS	100		
		Screws M5 x 16 mm	NSYS16M5HS	100		
		Screws M6 x 16 mm	NSYS16M6HS	100		

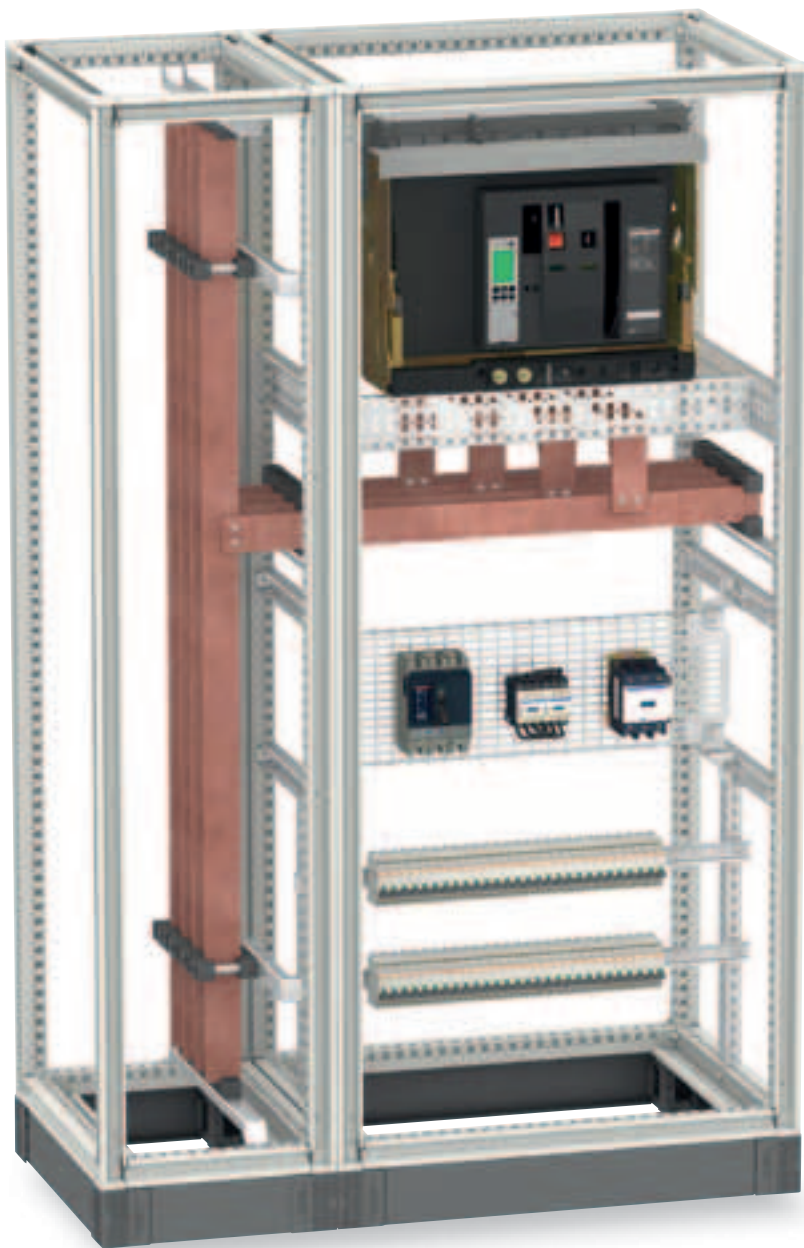
Mounting

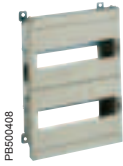
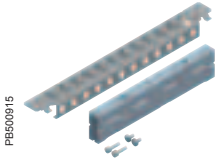
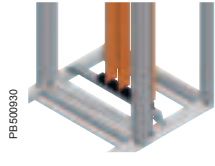
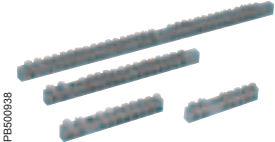
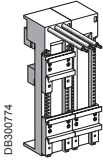
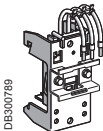
Nuts and screws for rails

 References by unit. Order by multiples of the units specified in the supply.

Usage	Description	Reference	Supply	
Mounting uprights For wall-mounting enclosures 	Fixings and nuts for aluminium uprights			
		Brass nuts to fix the upright to the enclosures	NSYAMCSF	4
		Sliding nuts M4	NSYNM4	100
		Sliding nuts M5	NSYNM5	100
Sliding nuts M6		NSYNM6	100	
2 x serrated mounting uprights For floor-standing enclosures 	Fixings and nuts for serrated uprights			
		Fixing brackets	NSYMF8	4
		(1) 1/4 turn M6	NSYSNM6	10
		(1) 1/4 turn M8	NSYSNM8	10
		(2) Serrated 1/4 turn M6	NSYSNSM6	10
		(2) Serrated 1/4 turn M8	NSYSNSM8	10
		Removable nut M6	NSYCNM6	50
Removable nut M8		NSYCNM8	50	
Cage nut M6 Cage nut M8		NSYCNFM6 NSYCNFM8	50 50	
2 x standard mounting uprights For floor-standing enclosures 	Flat nuts for standard uprights			
		Flat nut M6	NSYFNM6	50
		Flat nut M8	NSYFNM8	50
35 x 15 mm symmetric DIN rail 	Clip nut for symmetric DIN rail			
		Clip nut M4	AF1CG4	100
		Clip nut M5	AF1CG5	100
Clip nut M6		AF1CG6	100	
35 mm double profile DIN rail 	Quarter turn nut for double profile DIN rail			
		Nut M3 + M4	AF1CF34	100
		Nut M5 + M6	AF1CF56	100
35 mm asymmetric DIN rail 	Quarter turn nut for asymmetric DIN rail			
		Nut M4	DZ5ME5	100
		Nut M5	DZ5ME8	100
Nut M6		DZ5ME9	100	

Power distribution accessories



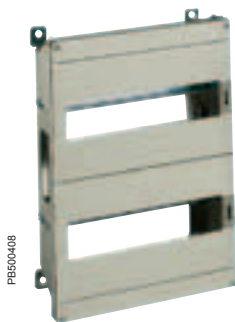
 <p>PB500408</p>	Modular distribution	396
 <p>PB500915</p>	Busbars and blocks	410
 <p>PB500930</p>	Busbar support accessories	415
 <p>PB500938</p>	Distribution blocks	420
 <p>DB300774</p>	Plates for mounting on 60 mm busbar	423
 <p>DB300789</p>	Pre-assembled panel busbar system AK5	427

Power distribution

Modular distribution



PB500897

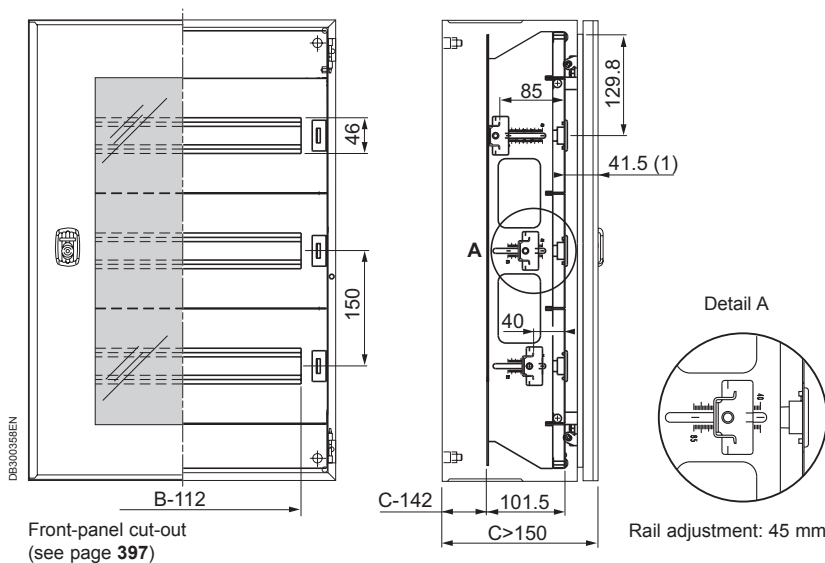


PB500408

Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility	✓	✓				✓							

DLM modular chassis

- The chassis consists of metal cut-out front panels, which can be clipped on without screws, structured finish, epoxy-polyester powder, RAL-7035 grey, on a rigid galvanised-steel structure.
- The depth of the chassis can be adjusted from 40 to 85 mm, between the rail and the front panel, allowing the installation of all types of devices.



Front-panel cut-out (see page 397)



PB500408

PB500888

PB500886

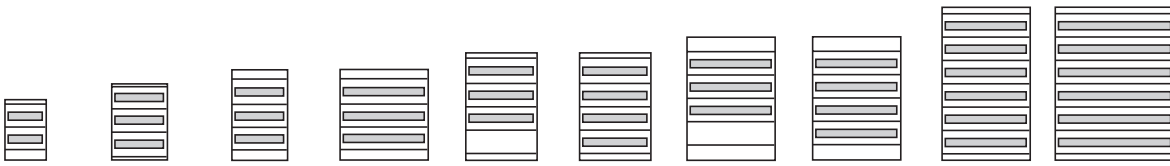
Dimensions (mm)		Number of modules*	Modular chassis reference	Plain front plate reference	Plain chassis reference
Height	Width				
400	300	24	NSYDLM24	NSYCTL300DLM	NSYPMP300DLM
500	400	48	NSYDLM48	NSYCTL400DLM	NSYPMP400DLM
600	400	48	NSYDLM48P	NSYCTL400DLM	NSYPMP400DLM
600	600	84	NSYDLM84P	NSYCTL600DLM	NSYPMP600DLM
700	500	66	NSYDLM66	NSYCTL500DLM	NSYPMP500DLM
700	500	88	NSYDLM88	NSYCTL500DLM	NSYPMP500DLM
800	600	84	NSYDLM84	NSYCTL600DLM	NSYPMP600DLM
800	600	112	NSYDLM112	NSYCTL600DLM	NSYPMP600DLM
1000	600	168	NSYDLM168	NSYCTL600DLM	NSYPMP600DLM
1000	800	234	NSYDLM240	NSYCTL800DLM	NSYPMP800DLM

* 1 module = 2 steps = 18 mm.

Power distribution

Modular distribution

Number of modules per chassis in steps of 18 mm




Chassis reference	NSYDLM24	NSYDLM48	NSYDLM48P	NSYDLM84P	NSYDLM66	NSYDLM88	NSYDLM84	NSYDLM112	NSYDLM168	NSYDLM240
Enclosure height (mm)	400	500	600	600	700	700	800	800	1000	1000
Enclosure width (mm)	300	400	400	600	500	500	600	600	600	800
Number of rows	2	3	3	3	3	4	3	4	6	6
Modules per row	12	16	16	28	22	22	28	28	28	39
Total n. of modules	24	48	48	84	66	88	84	112	168	234

* For references **NSYDLM48**, **NSYDLM48P** and **NSYDLM84** on Spacial wall-mounting enclosures the central row can only receive modules at the height of the lock when installed at the front of the enclosure. In this case, 1 module is sealed up (check our technical instructions).

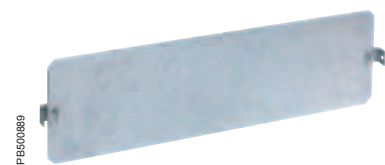


Plain front panel

- Metal front panels to be clipped on without screws, structured finish, 100% polyester powder, RAL-7035 grey colour.
- Nominal height: 150 mm.

 Composition: 2 plain front panel and fixings.

Enclosure width (mm)	No. of modules	Reference
300	12	NSYCTL300DLM
400	16	NSYCTL400DLM
500	22	NSYCTL500DLM
600	28	NSYCTL600DLM
800	40	NSYCTL800DLM

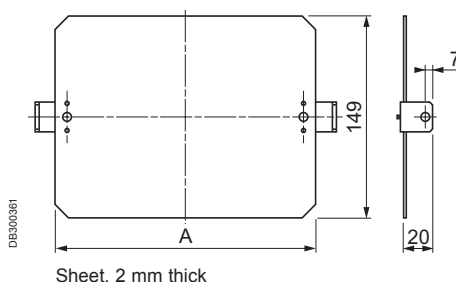


Plain mounting plate

- Mounting plate for fixing non-modular devices.
- Material: galvanised steel, 2 mm thick.
- Nominal height: 150 mm.

 Composition: 2 plain chassis and fixings.

Enclosure width (mm)	A (mm)	Reference
300	208	NSYPMP300DLM
400	308	NSYPMP400DLM
500	408	NSYPMP500DLM
600	508	NSYPMP600DLM
800	708	NSYPMP800DLM



Power distribution

Modular distribution



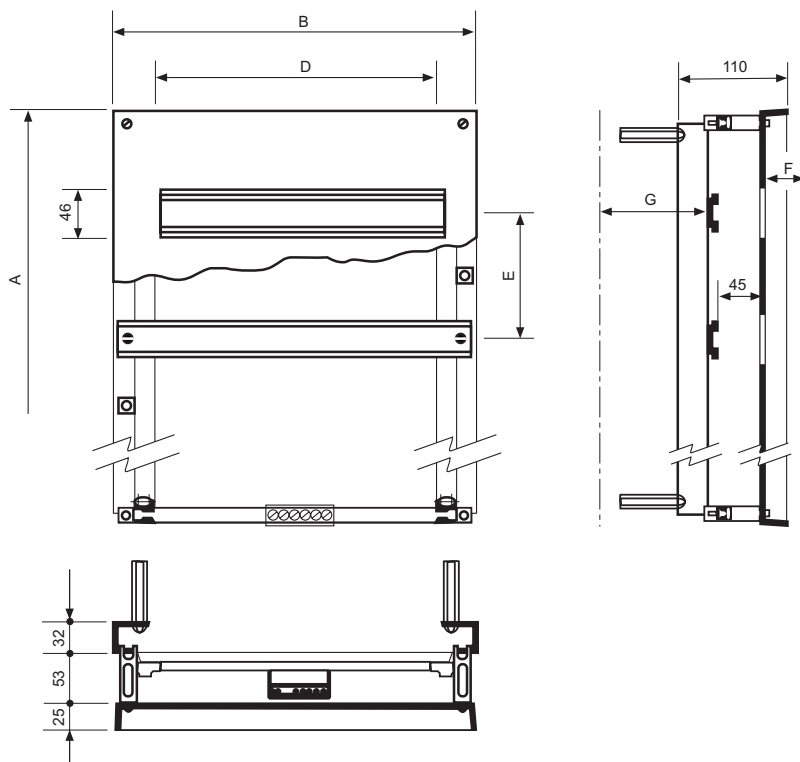
NSYCRN64150P + NSYDLR64

Range	CRN	S3D*	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility	✓	✓				✓							

DL modular chassis

Dimel chassis designed for devices with heights of 53 and 68 mm, which can be coupled directly to the enclosure plate-support bolts. Manufactured from sheet steel. Metal protective cover plate, RAL-7035 colour.

- Distance between device rail and protective cover plate: 45 mm.



*For Spacial S3D please consult us.

Dimension F: Distance from the protective cover plate to the inside of the door.
Dimension G: Distance from the device-support rail to the rear of the enclosure.

Reference	No. of 18-mm modules	No. of rows	Approx. weight (kg)	For coupling to the enclosures with normal or transparent door			Dimensions (mm)					
				Height	Width	Depth	A	B	D	E	F**	G
NSYDLR18	18	2	1.2	300	250	150*	255	205	162	120	41	51
NSYDLR24	24	2	1.7	400	300	150*	355	255	216	160	41	51
NSYDLR36	36	3	1.7	400	300	150*	355	255	216	110	41	51
NSYDLR48	48	3	2.4	500	400	150*	455	355	288	130	41	51
NSYDLR64	64	4	3.3	600	400	150/200	555	355	288	130	41	51/101
NSYDLR88	88	4	4.5	600	500	150/200	555	455	396	130	41	51/101
NSYDLR110	110	5	5.1	700	500	200	655	455	396	125	41	101
NSYDLR135	135	5	7.5	800	600	200	755	555	486	140	41	101

* For coupling to enclosures with a depth of 200 mm, the stand-offs (ref. NSYEX608) are to be ordered separately (4 per chassis).

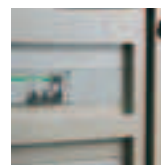
** For enclosures with transparent door, the F dimension is reduced by 4 mm.



See also the accessories



Plain front plates page 397



Blanking plate page 399



PE600890

Blanking plate

Blanking plate made from fire-proof insulating material, for full or partial covering of the circuit-breaker windows; it can easily be cut to the required size.

Length (mm)	N° of modules	RAL	Reference
72	4	7032	NSYATP72G
72	4	7035	NSYATP72M
72	4	7035	NSYATP72MS
108	6	7035	NSYATP6DTM
432	24	7035	NSYATP24DTM
1100	-	7035	NSYATPUND



See also
the accessories



PE600891

Connecting strips
page 422

Power distribution

Modular distribution



PB500524

Modular distribution system

- The modular distribution system is made up of a range of accessories prepared for forming electric panels with high distribution capacity.
- The accessories are installed on a chassis mounted at the front of the enclosure, such as for example:
 - Cover plates for enclosures with widths of 600 and 800, solid or cut-out in screwed-on or hinged versions. They cover 24 or 36 modules per row, depending on the width of the enclosure.
 - Material support rails, fixed or with adjustable depth.
 - Chassis supports for coupling non-modular equipment.
 - Supports for fixing cable-distribution cable ducts.
- Sets of accessories made up of material-supporting frames with chassis and cover plates are offered for the construction of double or busbar modular chassis. All the accessories of the individual chassis system can also be combined in the same way with the double chassis or with the chassis with busbar area.

Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility			✓	✓									

Modular distribution accessories

- Schneider Electric has developed a broad range of accessories for the construction of modular distribution frames, meeting the needs of the market.
- The new range has a coupling chassis, installed at the front of the enclosure, allowing the installation of:
 - Cover plates with lengths of 600 and 800 mm, plain and cut-out, screwed on and hinged, with heights of 150, 200, 300, 400, 450 and 600 mm.
 - Material support rails, fixed or with adjustable depth.
 - Mounting plate supports, plain or perforated, for installation of non-modular devices.

- For the construction of double modular distribution frames or with busbar chamber, specific coupling chassis have been created for these applications.



PB500882



PB500883

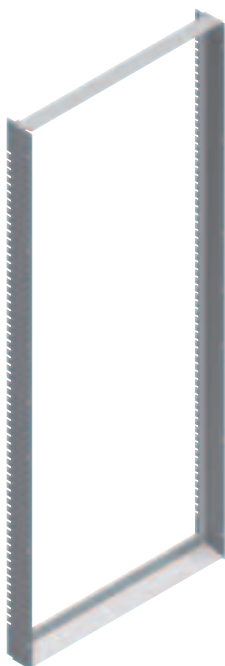


PB500884

Power distribution

Modular distribution


PE500895



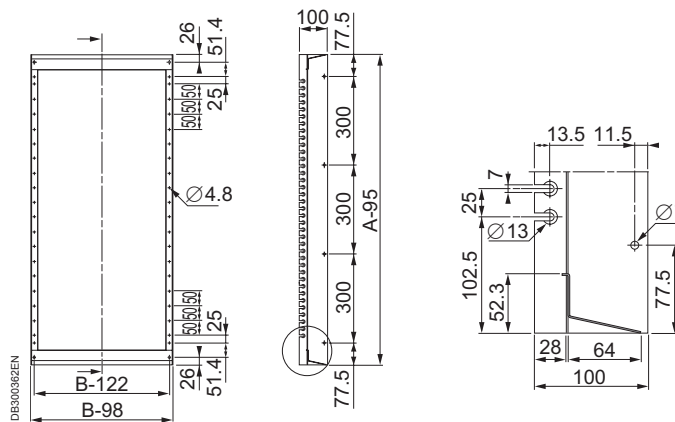
Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
			✓	✓									

Single-chassis coupling set

- Chassis made up of vertical uprights and horizontal crossbars:
 - **Spacial SF**: they are screwed to the front frame of the enclosure.
 - **Spacial SM**: they are screwed to the front frame of the enclosure by means of the vertical adaptation profiles, see page 369.
- Easy access to the inside for component installation.
- Material: steel.
- Finish: painted with epoxy-polyester resin, textured RAL-7035 grey.

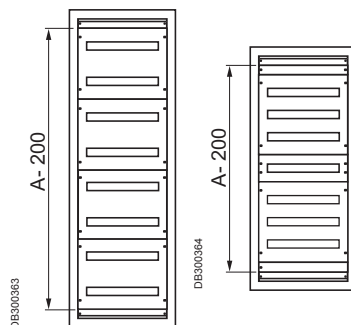
 Supply: two vertical uprights, two horizontal crossbars and fixing elements.

Nominal dimensions (mm)		Maximum no. of 18-mm modules	Reference
Height (A)	Width (B)		
1200	600	144	NSYCSH126
	800	216	NSYCSH128
1400	600	192	NSYCSH146
	800	288	NSYCSH148
1600	600	216	NSYCSH166
	800	324	NSYCSH168
1800	600	240	NSYCSH186
	800	360	NSYCSH188
2000	600	288	NSYCSH206
	800	432	NSYCSH208



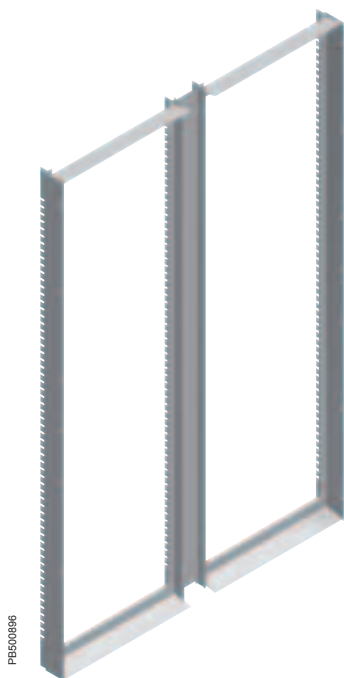
Example of the combination of cut-out, screwed-on cover plates and single-chassis coupling set

Nominal dimensions (mm)		No. of 18-mm modules	Reference		
Height (A)	Width (B)		1 single-chassis coupling set	5 screwed-on cut-out cover plates	2 adjustment cover plates
1800	600	240	1 x NSYCSH186	5 x NSYMUC306	1 x NSYADC16



Power distribution


Modular distribution



Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
			✓	✓									

Double-chassis coupling set

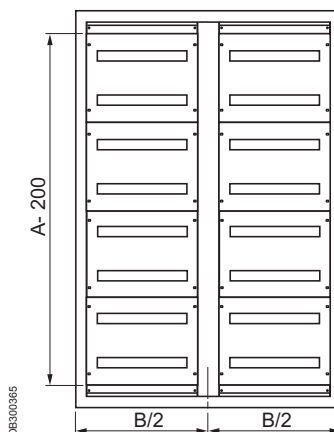
- Mounting on enclosures with widths of 1200 and 1600 mm.
- Installation on **Spacial SM**: they are screwed to the front frame of the enclosure by means of the vertical adaptation profiles, see page **369**.
- Set made up of two modular chassis with an intermediate central upright.
- **Spacial SM**: for enclosures with a width of 1200 mm the top/bottom adjustment rails are necessary.
- **Spacial SF**: the double-door enclosure adaptation kit is required for enclosure widths of 1200 and 1600 mm, see page **356**.
- Material: steel.
- Finish: painted with epoxy-polyester resin, textured RAL-7035 grey.

 Supply: two single-chassis coupling sets, one intermediate central upright and fixing elements.

Spacial dimensions (mm)		Set made up of columns with a width (mm)	Maximum no. of 18-mm modules	Reference
Height	Width			
1400	1200	600 + 600	384	NSYDCSH1412
1600	1200	600 + 600	432	NSYDCSH1612
1800	1200	600 + 600	480	NSYDCSH1812
	1600	800 + 800	720	NSYDCSH1816
2000	1200	600 + 600	576	NSYDCSH2012
	1600	800 + 800	864	NSYDCSH2016

Example of the combination of cut-out, screwed-on cover plates and double-chassis coupling set

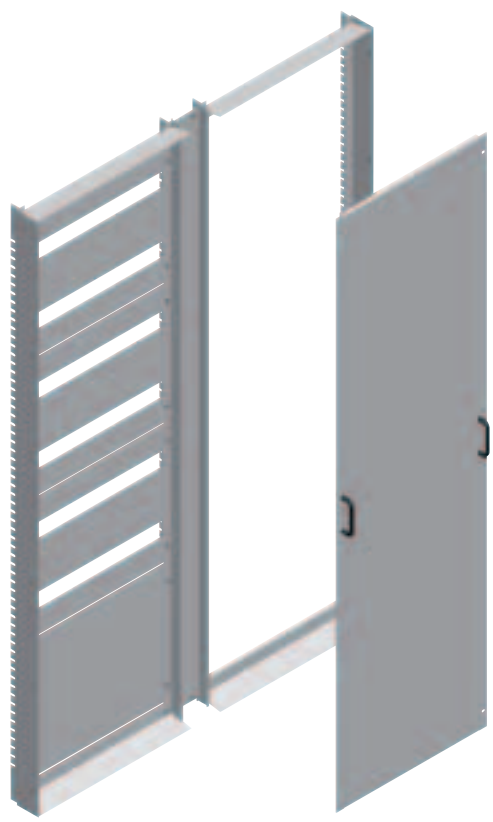
Spacial dimensions (mm)			No. of 18-mm modules	Reference		
Height (A)	Width (B)	Depth (C)		1 double-chassis coupling set	12 screwed-on cut-out 300-mm cover plates	Double-door enclosure adaptation kit
2000	1200	500	576	1 x NSYDCSH2012	12 x NSYMUC306	NSYSMP2D5
	1600	500	864	1 x NSYDCSH2016	12 x NSYMUC308	-



Power distribution

Modular distribution


P8500899



Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
			✓	✓									

Chassis-coupling set with zone for busbars

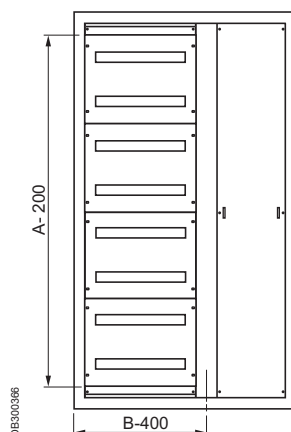
- Set for mounting on enclosures with widths of 1000 and 1200 mm.
- **Spacial SF:** They are screwed to the front frame enclosure.
- **Spacial SM:** They are screwed to the front frame of the enclosure by means of the vertical and horizontal adaptation profiles, see page 369.
- Assembly made up of a modular chassis with an intermediate central upright and a blanking cover plate for busbars (width 300 mm).
- Material: steel.
- Finish: painted with epoxy-polyester resin, textured RAL-7035 grey.

-  Supply:
- One single-chassis coupling set.
 - One intermediate central upright.
 - One busbar blanking cover plate.
 - Fixing elements.

Nominal dimensions (mm)		Set made up of columns with a width (mm)	Maximum no. of 18-mm modules	Reference
Height	Width			
1400	1000	600 + 400	192	NSYCShB1410
	1200	800 + 400	288	NSYCShB1412
1600	1000	600 + 400	216	NSYCShB1610
	1200	800 + 400	324	NSYCShB1612
1800	1000	600 + 400	240	NSYCShB1810
	1200	800 + 400	360	NSYCShB1812
2000	1000	600 + 400	288	NSYCShB2010
	1200	800 + 400	432	NSYCShB2012

Example of the combination of cut-out, screwed-on cover plates and chassis-coupling set with busbar zone

Nominal dimensions (mm)		No. of 18-mm modules	Reference		
Height (A)	Width (B)		1 chassis-coupling set with zone for busbars	5 screwed-on cut-out 300-mm cover plates	2 adjustment cover plates
1800	1000	240	1 x NSYCShB1810	5 x NSYMUC306	1 x NSYADC16
1800	1200	360	1 x NSYCShB1812	5 x NSYMUC308	1 x NSYADC18

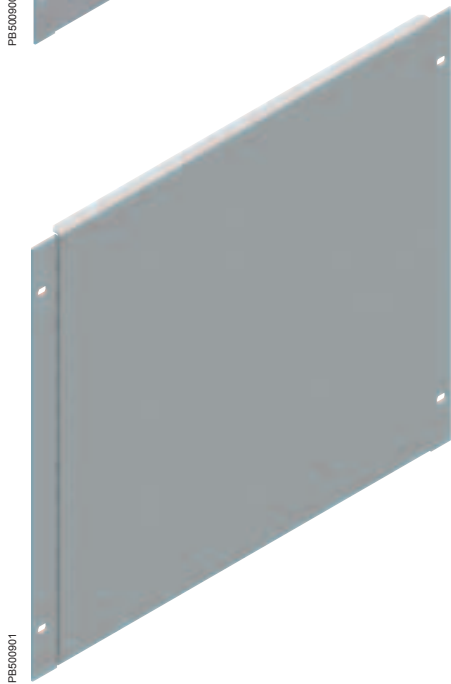


Power distribution

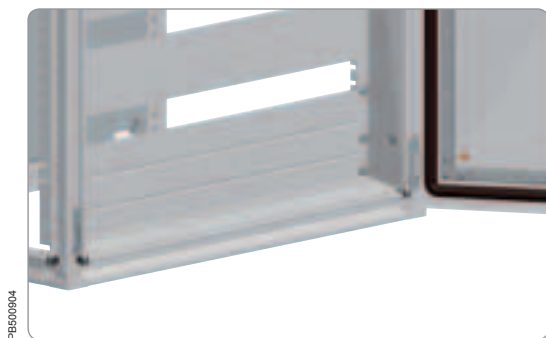
Modular distribution



PE500900



PE500901



PE500904

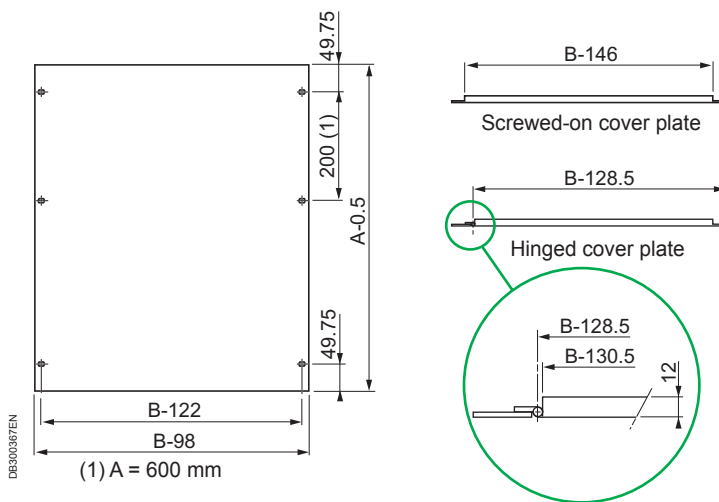
Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
			✓	✓									

Plain cover plates

- Metal cover plates for protecting control devices.
- The cut-outs in non-modular control devices is at user's request
- Suitable by modules of 150 or 200 mm.
- Versions:
 - Screwed-on plain cover plate.
 - Hinged plain cover plate. 120° opening with flat hinge.
- Material: steel.
- Finish: painted with epoxy-polyester resin, textured RAL-7035 grey.

Supply: one plain cover plate and fixing elements.

Nominal dimensions (mm)		Screwed-on plain cover plate reference	Hinged plain cover plate reference
Height (A)	Width (B)		
150	600	NSYMPC156	NSYMPCH156
	800	NSYMPC158	NSYMPCH158
200	600	NSYMPC206	NSYMPCH206
	800	NSYMPC208	NSYMPCH208
300	600	NSYMPC306	NSYMPCH306
	800	NSYMPC308	NSYMPCH308
400	600	NSYMPC406	NSYMPCH406
	800	NSYMPC408	NSYMPCH408
450	600	NSYMPC456	NSYMPCH456
	800	NSYMPC458	NSYMPCH458
600	600	NSYMPC606	NSYMPCH606
	800	NSYMPC608	NSYMPCH608



Adjustment cover plates

- Metal adjustment cover plates designed to complete the front of the modular chassis according to the combinations made by modules of 150 or 200 mm.
- Material: steel.
- Finish: painted with epoxy-polyester resin, textured RAL-7035 grey.

Supply: two adjustment cover plates and fixing elements.

Cover plate dimensions (mm)	Nominal dimensions (mm)	Reference
Height	Width	
50	600	NSYADC16
	800	NSYADC18

Power distribution

Modular distribution

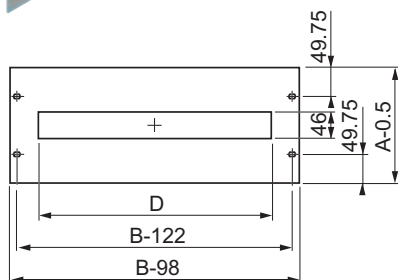
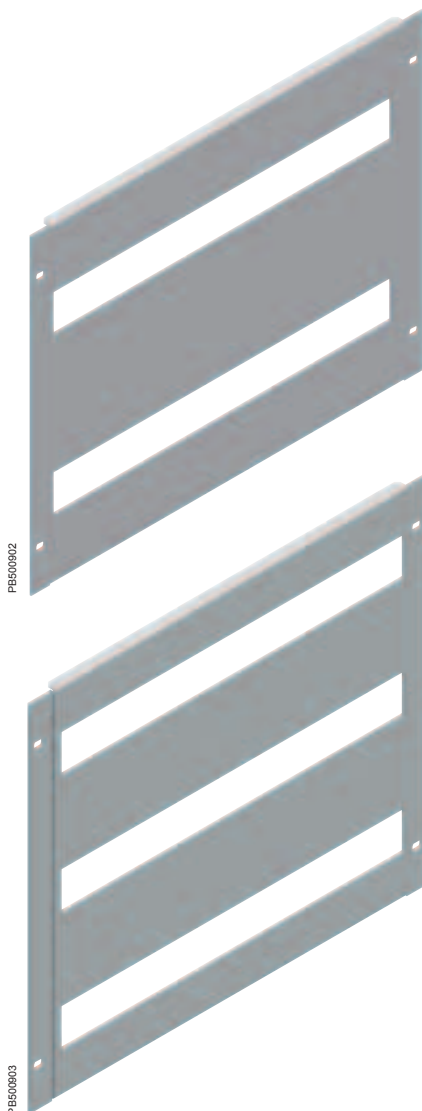
Range compatibility	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
			✓	✓									

Cut-out cover plates

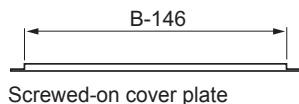
- Cut-out metal cover plates for modular switchgear (1 module = 18 mm).
- Suitable by modules of 150 or 200 mm.
- Cover plates for 600-mm enclosures: 24 modules per row.
- Cover plates for 800-mm enclosures: 36 modules per row.
- Versions:
 - Screwed-on cut-out cover plate.
 - Hinged cut-out cover plate. 120° opening with flat hinge.
- Material: steel.
- Finish: painted with epoxy-polyester resin, textured RAL-7035 grey.

 Supply: one cut-out cover plate and fixing elements.

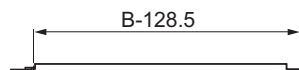
Nominal dimensions (mm)		Dimensions			No. of cut-outs	Maximum no. of 18-mm modules	Screwed-on cut-out cover plate reference	Hinged cut-out cover plate reference
Height (A)	Width (B)	D	E	F				
150	600	432	-	-	1	24	NSYMUC156	NSYMUCH156
	800	642	-	-	1	36	NSYMUC158	NSYMUCH158
200	600	432	-	-	1	24	NSYMUC206	NSYMUCH206
	800	642	-	-	1	36	NSYMUC208	NSYMUCH208
300	600	432	51.75	150	2	48	NSYMUC306	NSYMUCH306
	800	642	-	-	2	72	NSYMUC308	NSYMUCH308
400	600	432	76.75	200	2	48	NSYMUC406	NSYMUCH406
	800	642	-	-	2	72	NSYMUC408	NSYMUCH408
450	600	432	51.75	150	3	72	NSYMUC456	NSYMUCH456
	800	642	-	-	3	108	NSYMUC458	NSYMUCH458
600	600	432	76.75	200	3	72	NSYMUC606	NSYMUCH606
	800	642	-	-	3	108	NSYMUC608	NSYMUCH608



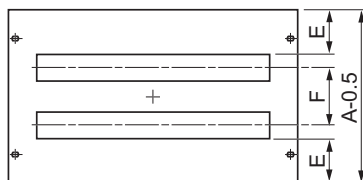
A = 150 and 200 mm



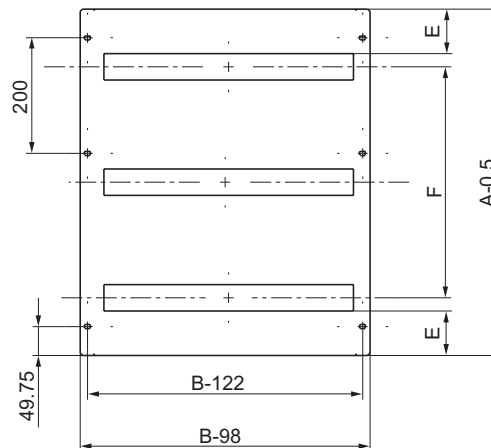
Screwed-on cover plate



Hinged cover plate



A = 300 and 400 mm



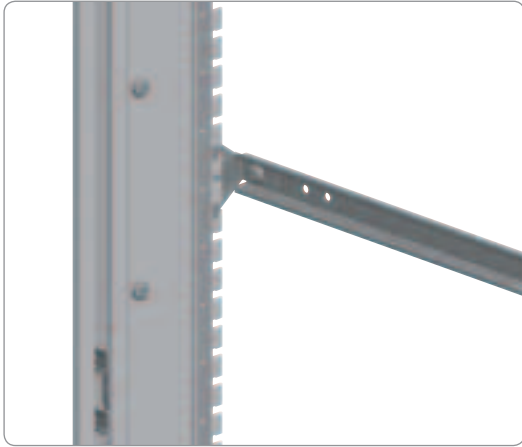
Cut-out at 200 mm when A = 600

DB300368EN

Power distribution

Modular distribution

PE500607



Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility			✓	✓									

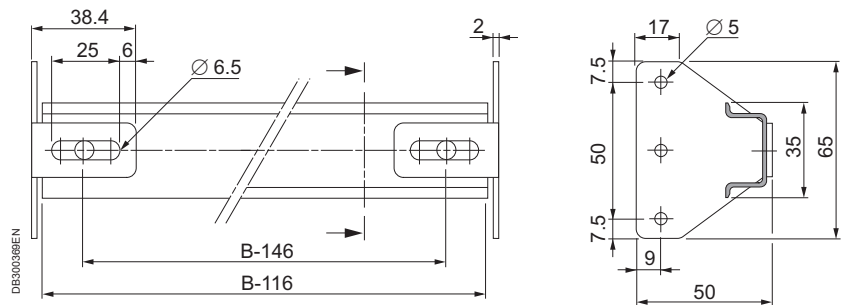
Set of fixed rail with supports

- Set made up of a galvanised symmetric DIN rail, 35 x 15 mm, and fixed mounting supports, for the installation of modular devices or not.
- Maximum number of 18-mm modules:
 - Enclosure width 600 mm: 24 modules.
 - Enclosure width 800 mm: 36 modules.
- Mounting by screws directly on the uprights of the chassis-coupling set.
- Material: zinc-coated steel.

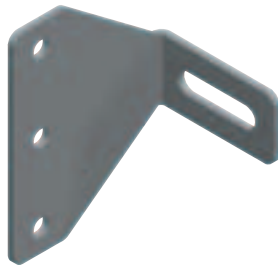


Supply: one DIN rail, two fixed supports and fixing elements.

Nominal dimensions (mm)	Reference
Width (B)	
600	NSYMFSC60
800	NSYMFSC80



PE500608



Fixed supports with no rail



Supply: two fixed supports and fixing elements.

Reference
NSYMF51

Power distribution

Modular distribution

PB500909



Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility			✓	✓									

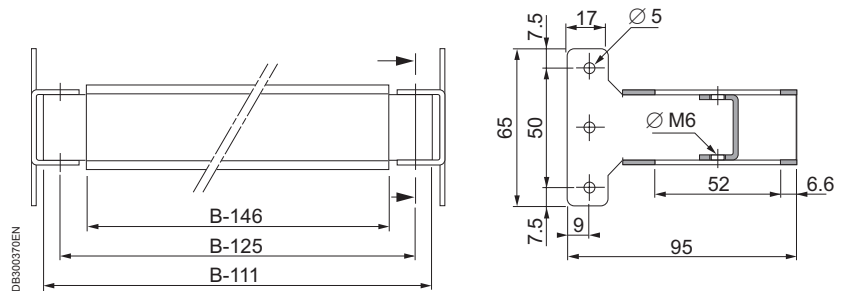
Set of depth-adjustable rail with supports

- Set made up of a galvanised symmetric DIN rail, 35 x 15 mm, and depth-adjustable mounting supports, for the installation of modular devices or not.
- Maximum number of 18-mm modules:
 - Enclosure width 600 mm: 24 modules.
 - Enclosure width 800 mm: 36 modules.
- Mounting by screws directly on the uprights of the modular chassis-coupling set.
- Material: zinc-coated steel.



Supply: one DIN rail, two adjustable supports and fixing elements.

Nominal dimensions (mm)	Reference
Width (B)	
600	NSYMFSC60D
800	NSYMFSC80D



PB500910



Adjustable supports with no rail

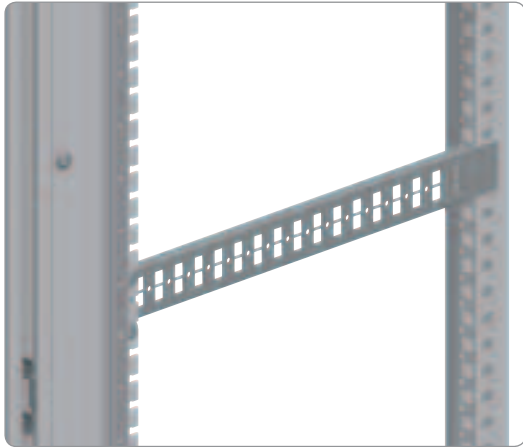


Supply: two adjustable supports and fixing elements.

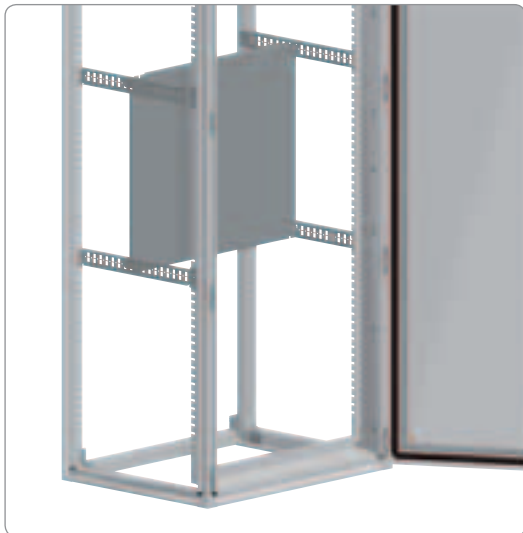
Reference
NSYMF51D

Power distribution

Modular distribution



PB500911



PB500912

Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility			✓	✓									

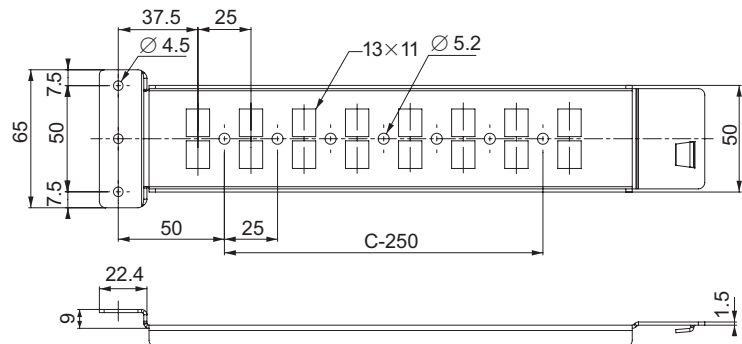
Reinforced plate supports

- Supports for fixing the partial mounting plate for small non-modular equipment or material-supporting cross rails for heavy equipment. See partial mounting plate, page 362.
- Direct fixing by screws to the vertical uprights of the modular chassis-coupling set, and at the rear directly to the structure (**Spacial SF**) and on universal or quick-fixing cross rails (see page 371) installed vertically in the back of the enclosure (**Spacial SM**).
- Material: zinc-coated steel.



Supply: two supports and fixing elements.

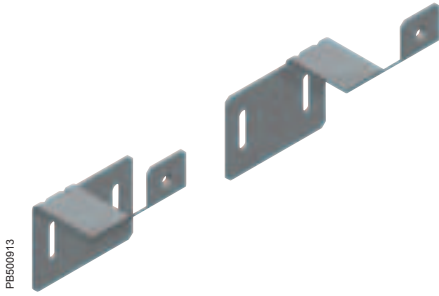
Nominal dimensions (mm)		No. of cut-outs (Ø 5.2 mm)	Reference
Depth (C)			
300		3	NSYMPS30
400		7	NSYMPS40
500		11	NSYMPS50
600		15	NSYMPS60
800		23	NSYMPS80



DB300371EN

Power distribution

Modular distribution



PB500913

Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility			✓	✓									

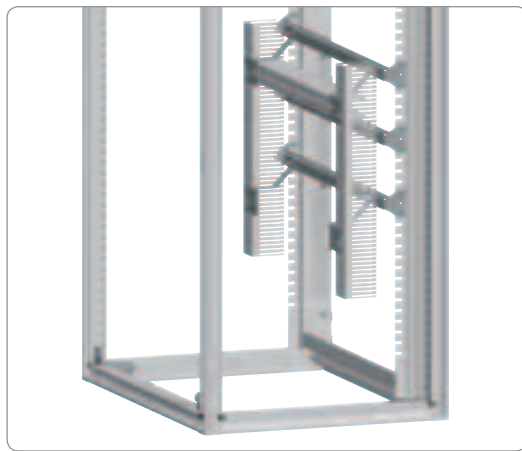
Cable duct fixing supports

- Supports for fixing cable-distribution gutters in the modular distribution chassis.
- Allows the fixing of gutters in horizontal and vertical position on the same plane to facilitate cable distribution.
- Installation by screws directly on the rail supplied with the fixed or adjustable rail, page 406.
- Material: zinc-coated steel.

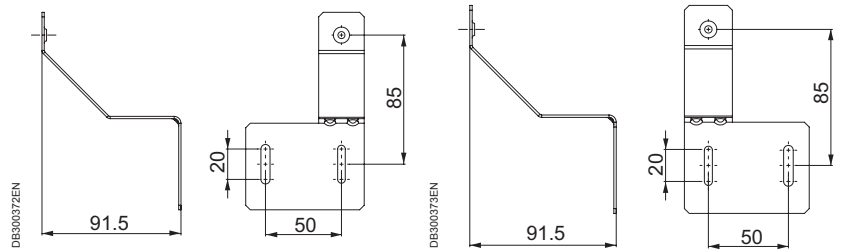


Supply: six supports (three on the right and three on the left) and fixing elements.

Reference
NSYMCDFIX



PB500514



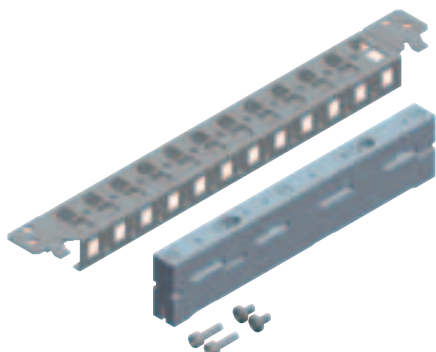
Left support

Right support

Power distribution

Busbars and blocks

Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility			✓	✓				✓					



PB500915

630 A bar support

- **Spacial SF:** support prepared for coupling directly to the structure of the enclosure.
- **Spacial SFX:** A universal cross rail is needed, in some cases, to replace the 400 mm quick-fixing cross rail.
- **Spacial SM:** installation by means of a vertical adaptation profile and 40 mm universal cross rails (1 row).
- Maximum nominal rating 630 A.
- Determine according to the enclosed table the cross-section of the bars and the distance between supports, according to the nominal and short-circuit current respectively.

Supply: one 630 A bar support, one 40 mm quick-fixing cross rail and fixing elements.



PB500916

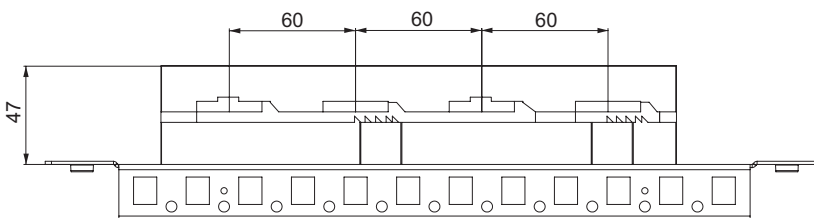


PB500917



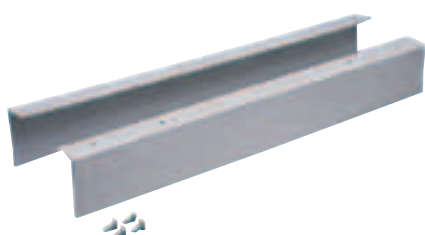
PB500918

Nominal dimensions (mm)	Reference
Width/Depth	
400	NSYBS400
500	NSYBS500
600	NSYBS600
800	NSYBS800



DB300374

Nominal rating IP55 NR (A)	No. of bars per phase	Bar cross-section (mm)	Bar cross-section (mm ²)	Maximum distance between bar supports according to the short-circuit current (mm)								Neutral (mm)	Earth (mm)
				I _{cc} kA									
				12	23	30	39	52	66	69			
200	1	12 x 5	60	525	525	525	400	250	-	-	-	-	
250	1	12 x 5	75	575	575	575	450	325	-	-	-	-	
320	1	20 x 5	100	600	600	600	475	350	150	-	12 x 5-10	-	
390	1	25 x 5	125	600	600	600	475	350	150	-	12 x 5-10	6 x 3	
440	1	30 x 5	150	650	650	650	650	525	400	350	20 x 5-10	10 x 3	
500	1	20 x 10	200	675	675	675	525	350	150	-	25 x 5-10	10 x 6	
600	1	30 x 10	300	675	675	675	600	475	325	275	30 x 5-10	10 x 6	



PB500919

630 A busbar end cover

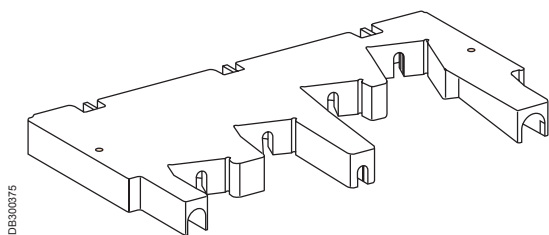
- Busbar end protection.
- Direct installation on the actual bar support (insulator).

Supply: two 630 A bar support plates and fixing elements.

Reference
NSYBSC630

Power distribution

Busbars and blocks



DB300275

630 A multi-stage bar support

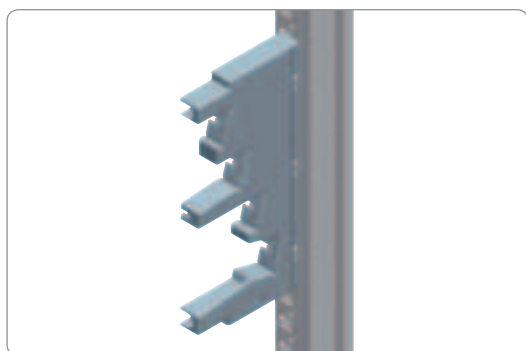
- Support for fixing bars with cross-sections: 15 x 5, 20 x 5, 32 x 5, 32 x 8.
- The orientation of the copper bars makes tightening easier and allows better circulation of the cables.
- It can be 3-pole or 4-pole, with gauges from 160 to 630 A.
- Mounting on mounting plates (see page 347) or cross-rails (see page 371).
- Electrical characteristics:
 - Rated peak withstand current I_{pk} (kA):
 - 30 kA for 160 A busbar.
 - 40 kA for 250 A busbar.
 - 55 kA for 400 A and 630 A busbar.
 - Rated insulation voltage $U_i = 750$ V.
- Material: insulating plastic.

Supply: 1 multi-stage bar support and fixing elements.

- M6 x 25 self-tapping screws are required for fixing on the cross-rails, not included.

Reference

04192

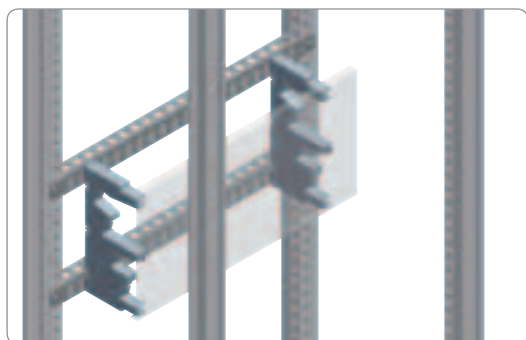
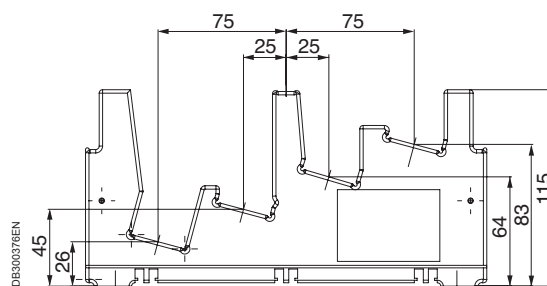
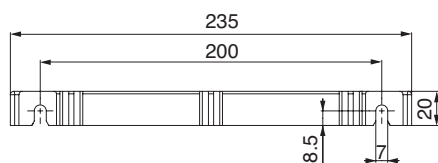


PE50020

- The following table shows:
 - The cross-section of the bars that will be used according to the current-carrying capacity in the busbar.
 - The distance between the bar supports that will be installed according to the rated short-time withstand current: I_{cw} .

Rating (A)	Bar cross-section (mm)	Centre-to-centre distance of the supports (mm)				
		I_{cw} (kA eff/1 s)				
		10	13	15	20	25
160	15 x 5					
250	20 x 5					
400	32 x 5		450			
630	32 x 8				300	300 (1)

(1) I_{cw} (kA eff/0.6 s).



PE50021

Screen for 630 A multi-stage busbar

- Protects against direct contact from the front in the connections of the busbar.
- Direct mounting on the actual support.
- Length: 1500 mm.

Supply: 1 screen for multi-stage busbar and fixing elements.

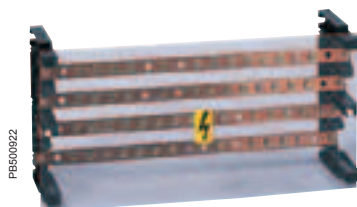
Reference

04197

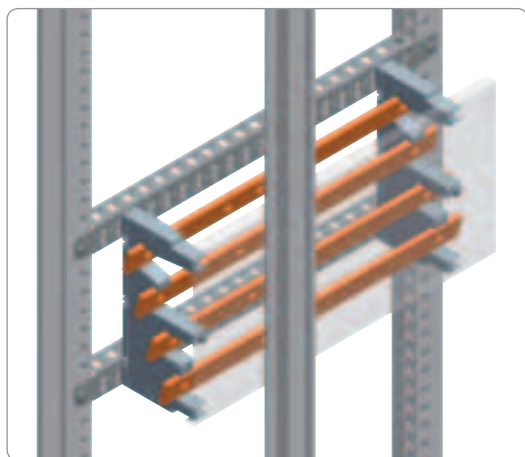
Power distribution

Busbars and blocks

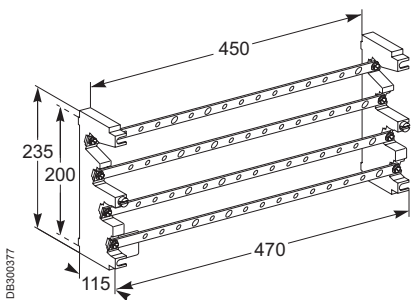
160 A / 630 A four-pole multi-stage distribution block



PB500922




PB500923



DE300377

- The orientation of the copper bars makes tightening easier and allows better circulation of the cables.
- The copper bars are supplied with:
 - 13 holes for M6, for the outgoer.
 - 4 holes with Ø 12.2 for supplying the distribution block.
- It can be 3-pole or 4-pole, with gauges from 160 to 630 A.
- Installation:
 - Mounting plates (see page 347) or cross-rails (see page 371).
- Electrical characteristics:
 - Rated operating current (40 °C):
 - 160 A.
 - 250 A.
 - 400 A.
 - 630 A.
 - Rated insulation voltage $U_i = 750$ V.
 - Rated short-time withstand current = I_{cw} :
 - 10 kA rms/1 s for 160 A distribution block.
 - 13 kA rms/1 s for 250 A distribution block.
 - 20 kA rms/1 s for 400 A distribution block.
 - 25 kA rms/1 s for 630 A distribution block.
 - Rated peak withstand current = I_{pk} :
 - 30 kA for 160 A distribution block.
 - 30 kA for 250 A distribution block.
 - 40 kA for 400 A distribution block.
 - 40 kA for 630 A distribution block.
 - Rated impulse withstand voltage: $U_{imp} = 8$ kV.
- Distribution: 13 outlets for phase with max. 50 mm².

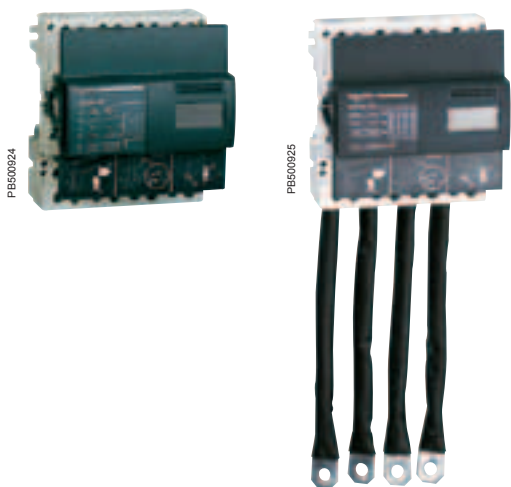
 Supply: 2 multi-stage bar supports, 4 cut-out copper bars with a pitch of 25 mm and 1 IPxxB insulating front cover.

- M6 x 25 self-tapping screws are required for fixing on the cross-rails, not included.

Description	Bar cross-section (mm)	Reference
160 A (40 °C)	15 x 5	04052
250 A (40 °C)	20 x 5	04053
400 A (40 °C)	32 x 5	04054
630 A (40 °C)	32 x 8	04055

Power distribution

Busbars and blocks

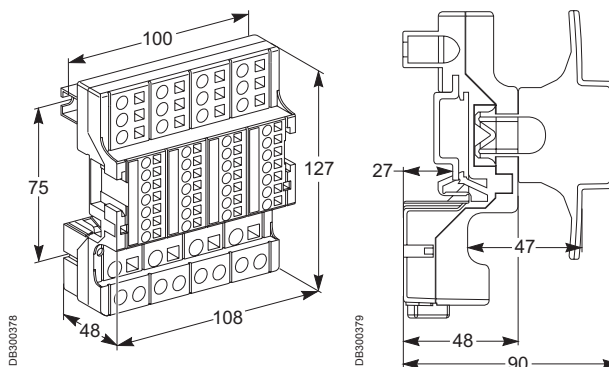


Distribloc distribution block

- 4-pole distribution block.
- The outgoer are connected by the front, on spring terminals. The pressure of this spring is adapted automatically to the cross-section of the conductor. It is independent from the operator.
- Degree of protection: IPxxB (protection against direct contacts).
- Installation:
 - Clips onto DIN rails (see page 379) and/or mounting plates (see page 347).
- Electrical characteristics:
 - Rated operating current (40 °C):
 - 125 A for Distribloc 125.
 - 160 A for Distribloc 160.
 - Resistance to short-circuit currents: the interrupting capacity reinforced by filiation is conserved in the case of automatic switch associations.
 - According to low-voltage switchgear standards UNE-EN 60947-7-1 and/or UNE-EN 61439-2.
 - Rated impulse withstand voltage: $U_{imp} = 8 \text{ kV}$.
- Power supply:
 - 125 A Distribloc: tunnel terminal for 35 mm² cables.
 - 160 A Distribloc: by prefabricated flexible connection (35 mm²), supplied.
- Distribution (for 125 A and 160 A Distribloc):
 - On spring terminals:
 - 2 outlets connected by flexible cables from 4 to 10 mm².
 - 3 outlets connected by flexible cables from 2.5 to 6 mm².
 - 7 outlets connected by flexible cables from 1.5 to 4 mm².
 - On tunnel terminals:
 - 1 outlet connected by flexible cables from 4 to 16 mm².

 Supply: single-piece distribution block, 1 IPxxB modular insulating screen and self-adhesive labels for identifying the phases. Prefabricated flexible connection in Distribloc 160.

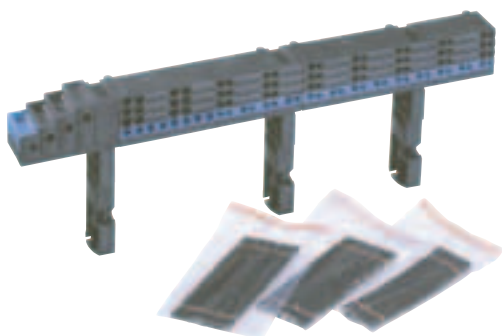
Description	Reference
125 A distribution block	04045
4 x 125 A flexible connectors	04047
160 A distribution block (with 4 flexible connectors)	04046



Power distribution


Busbars and blocks

FBS00526

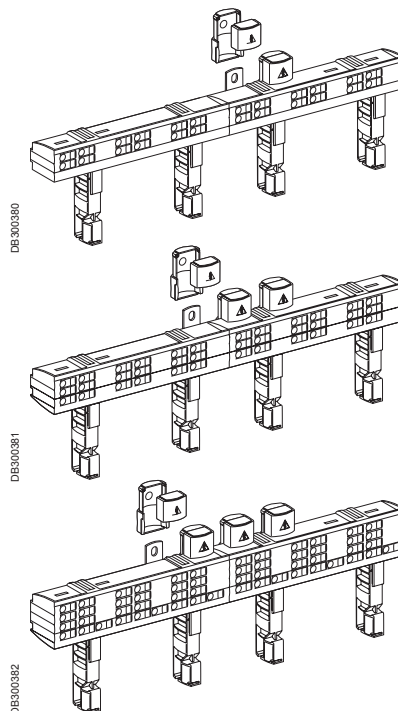


Multiclip distribution block

- Distribution in a full row (48 modules of 9 mm) of modular switchgear. Generally supplied on a busbar.
- The outgoer are connected by the front, on the spring terminals. The contact pressure of the cable is independent from the operator.
- Power supply: tunnel terminal for 50 mm² cables.
- It adapts automatically to the cross-section of the conductor (min. cross-section 1 mm²).
- Each spring only accepts one flexible cable at a time.
- Degree of protection: IPxxB (protection against direct contacts).
- Installation: clipped onto the rear of a modular rail, for example Ref. 03001, or screwed on mounting plates (see page 347).
- Electrical characteristics:
 - Rated insulation voltage: $U_i = 750$ V.
 - Rated impulse withstand voltage: $U_{imp} = 8$ kV.
 - Resistance to short-circuit currents: the interrupting capacity reinforced by filiation is conserved in the case of automatic switch associations.
- 200 A Multiclip:
 - 10 mm² cable outlet: $I_{max} = 50$ A.
 - 2 different outgoer with cables of 10 mm²: $I_{max} = 63$ A.
- Distribution:
 - For 2-pole 200 A Multiclip (04012):
 - 12 phase and neutral connection points.
 - For 3-pole and 4-pole 200 A Multiclip (04013 and 04014):
 - 12 connection points for each phase.
 - 18 connection points for the neutral.

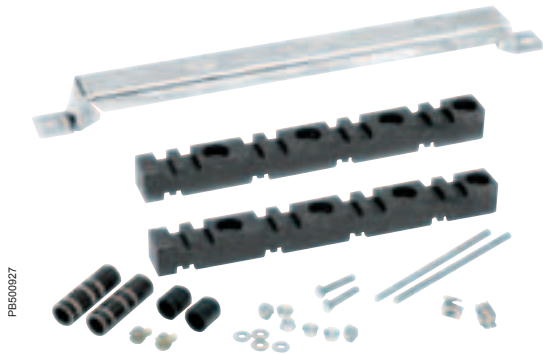
 Supply: Multiclip distribution block, 10 mm² bared copper connections with a length of 100 mm, 2 bags of 12 connections, terminal covers for the supply poles (IPxxB), screws for the supply poles and fixing elements.

Description	Reference
200 A 2-pole	04012
200 A 3-pole	04013
200 A 4-pole	04014



Power distribution

Busbar support accessories



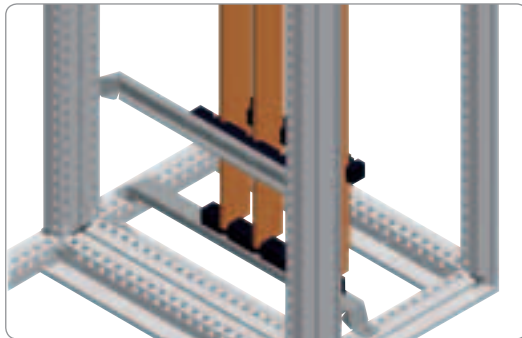
PB500627

Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility				✓									

Vertical bar support up to 3200 A

- Support prepared for fixing bars in vertical position, mounted directly on the structure of the enclosure. Adjustable height with a pitch of 25 mm.
- Maximum nominal rating:
 - 1600 A for 5 mm bars.
 - 3200 A for 10 mm bars.
- The number and the distance between supports, according to the nominal current and the short-circuit current, are stated in the enclosed table.

Supply: two insulating bar supports, one metal vertical support and fixing elements.



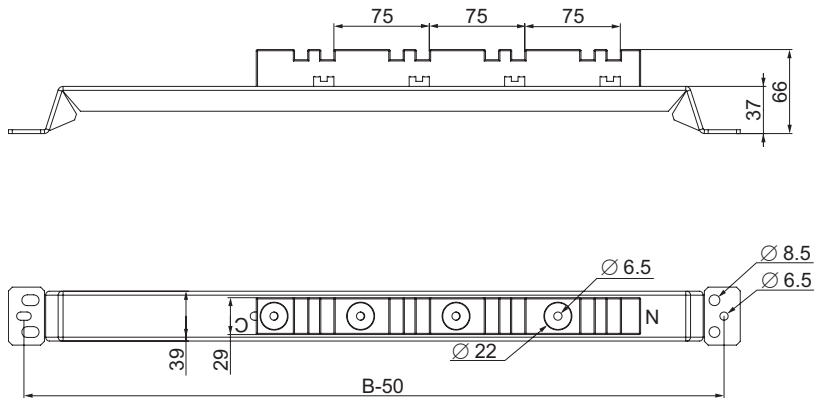
PB500073

Nominal dimensions (mm)	Reference
Width/Depth (B)	
400	NSYBVS400
500	NSYBVS500
600	NSYBVS600
800	NSYBVS800

- The number and the distance between supports, according to the nominal current and the short-circuit current, are stated in the enclosed table.



PB500628

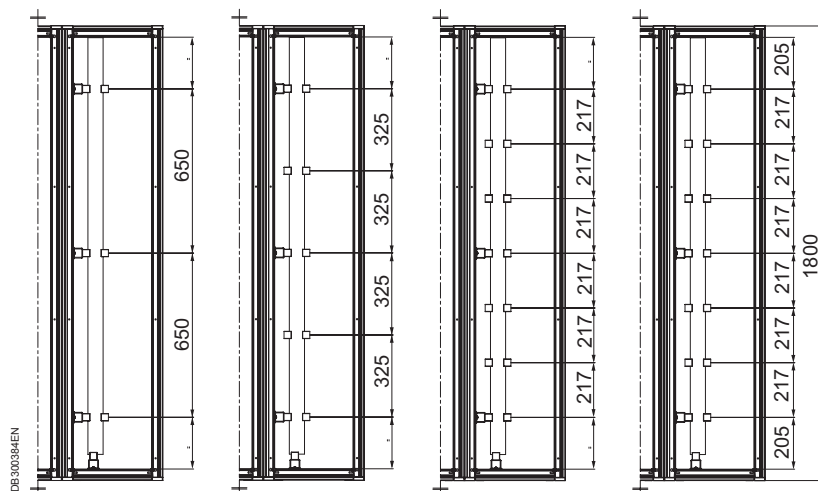


Power distribution

Busbar support accessories

Selection of the number of supports

- The number and cross-section of the bars are chosen for each phase, according to the nominal rating.
- Determine the short-circuit current I_{cw} (kA) and use the table to obtain the maximum distance between supports.
- Based on the maximum distance between supports, obtain the number of supports to be installed according to the following criterion:
 - Three vertical supports must necessarily be fixed to the structure (ref. **NSYBVS...**).
 - If more than three supports are required, the support arms must be used (ref. **NSYBSA**), in even numbers (2, 4, etc.).
- Example:
 - In: 2000 A, two 60 x 10 bars are required per phase.
 - I_{cw} : 50 kA.
 - According to the table of maximum distance between supports they must be 325 mm.
 - Length of the copper bars: 1800 mm.
 - $1700/325 = 5.23$, which means 6 supports, 3 fixed vertical supports and 3 support arms + 1 extra support for the number to be even.



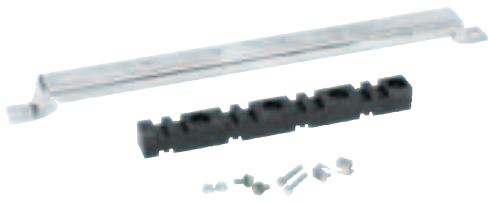
Sets of vertical bars			Maximum distance between bar supports (mm) according to the short-circuit current, I_{cw} (kA)								
Nominal rating I_n (A)	Cross-section (mm)	No. of bars per phase	I_{cw} (kA)								
			15	25	30	40	50	60	65	75	85
750	60 x 5	1	650	325	325	217	-	-	-	-	-
900	80 x 5	1	650	325	325	217	-	-	-	-	-
1250	60 x 5	2	650	325	325	217	163	-	-	-	-
1600	80 x 5	2	650	325	325	217	217	-	-	-	-
1080	50 x 10	1	650	650	650	325	217	217	-	-	-
1250	60 x 10	1	650	650	650	325	325	217	-	-	-
1600	80 x 10	1	650	650	650	325	325	217	-	-	-
1850	50 x 10	2	650	650	325	325	325	217	217	217	-
2000	60 x 10	2	650	650	650	325	325	325	217	217	-
2500	80 x 10	2	650	650	650	325	325	325	325	217	-
2800	100 x 10	2	650	650	650	650	325	325	325	217	163

Note: The current-carrying capacity values in the set of bars are given for an ambient temperature of 35 °C around the busbar. The nominal rating values are indicated for IP55. The maximum values (3200 A) are achieved with ambient temperatures of less than 35 °C, varying according to the configuration and position of the busbar. See enclosed table of current-carrying capacities according to temperature, page 419.

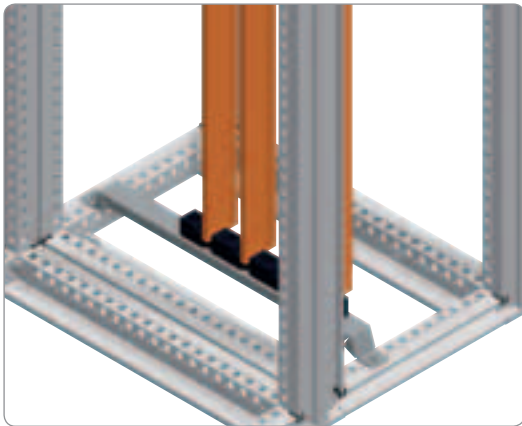
Power distribution

Busbar support accessories

PE500929



PE500930



Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility				✓									

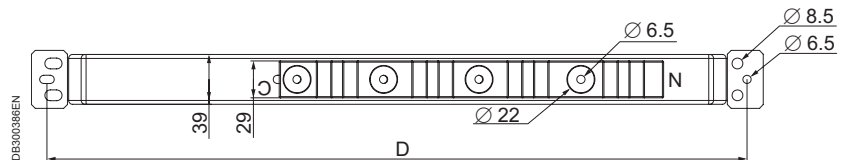
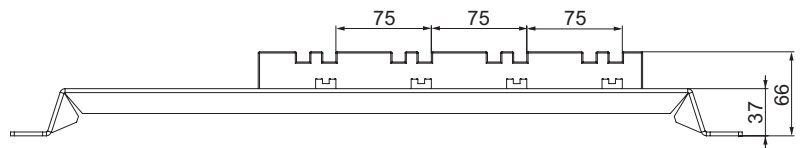
Setting support

- Bottom support for bars in vertical position.
- It is fixed to the bottom frame of the enclosure.
- It is required for supporting the bars.
- It is not considered a bar support when calculating the number of supports.



Supply: one insulating bar support, one metal vertical support and fixing elements.

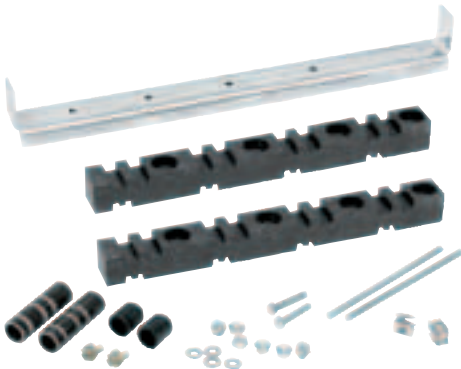
Nominal dimensions (mm)	Reference
Width/Depth	
400	NSYAS400
500	NSYAS500
600	NSYAS600
800	NSYAS800



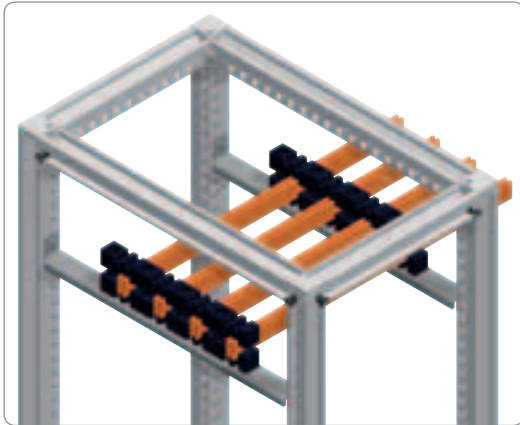
Power distribution

Busbar support accessories

PB500531



PB500532



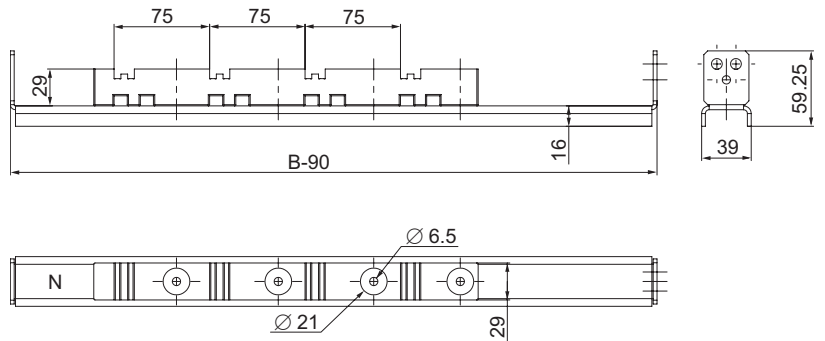
Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility				✓				✓					

Horizontal bar support up to 3200 A

- Support prepared for fixing bars in horizontal position.
- Direct mounting to the structure of the enclosure, on the vertical uprights, at any height, adjustable with a pitch of 25 mm.
- Maximum nominal rating:
 - 1600 A for 5 mm bars.
 - 3200 A for 10 mm bars.
- The number and the distance between supports, according to the nominal and short-circuit current, are stated in the enclosed table.

Supply: two insulating bar supports, one metal horizontal support and fixing elements.

Nominal dimensions (mm)	Reference
Width/Depth (B)	
500	NSYBHS500
600	NSYBHS600
800	NSYBHS800



Sets of vertical bars			Maximum distance between bar supports (mm) according to the short-circuit current I _{cw} (kA)								
Nominal rating I _n (A)	Cross-section (mm)	No. of bars per phase	15	25	30	40	50	60	65	75	85
750	60 x 5	1	650	325	325	217	-	-	-	-	-
900	80 x 5	1	650	325	325	217	-	-	-	-	-
1250	60 x 5	2	650	325	325	217	163	163	130	108	81
1600	80 x 5	2	650	325	325	217	217	163	130	108	81
1080	50 x 10	1	650	650	650	325	217	217	163	-	-
1250	60 x 10	1	650	650	650	325	325	217	163	130	108
1600	80 x 10	1	650	650	650	325	325	217	163	130	108
1850	50 x 10	2	650	650	325	325	325	217	217	217	163
2000	60 x 10	2	650	650	650	325	325	325	217	217	163
2500	80 x 10	2	650	650	650	325	325	325	325	217	163
2800	100 x 10	2	650	650	650	650	325	325	325	217	163

Note: The current-carrying capacity values in the set of bars are given for an ambient temperature of 35 °C around the busbar. The nominal rating values are indicated for IP55. The maximum values (3200 A) are achieved with ambient temperatures of less than 35 °C, varying according to the configuration and position of the busbar. See enclosed table of current-carrying capacities according to temperature, page 419.

Power distribution

Busbar support accessories

Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility				✓				✓					

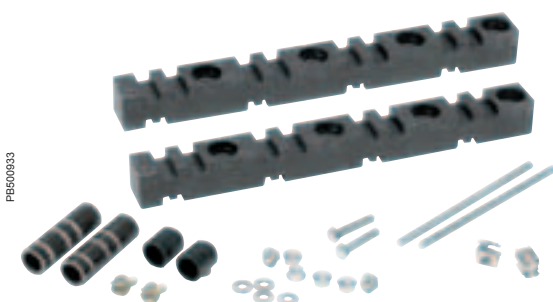
Selection of the number of supports

- The number and cross-section of the bars are chosen for each phase, according to the nominal rating.
- Determine the short-circuit current I_{cw} (kA) and use the table to obtain the maximum distance between supports.
- Based on the maximum distance between supports, obtain the number of supports to be installed according to the following criterion:
 - Two supports must necessarily be fixed to the structure per enclosure. In the event of enclosure suites, only one support is required, fixed to one of the uprights of the coupling.
 - If more than two supports are required per enclosure, the support arms must be used (ref. **NSYBSA**).

Table of current-carrying capacities according to temperature

Type of bars		Current-carrying capacity (A) according to the ambient temperature around the frame				
Cross-section (mm)	No. of bars per phase	25 °C	30 °C	35 °C	40 °C	45 °C
60 x 5	1	840	790	750	700	650
80 x 5	1	1050	990	900	870	810
60 x 5	2	1420	1350	1250	1180	1090
80 x 5	2	1820	1720	1600	1510	1390
50 x 10	1	1220	1160	1080	1010	940
60 x 10	1	1400	1320	1250	1160	1070
80 x 10	1	1800	1700	1600	1500	1390
50 x 10	2	2090	1980	1850	1740	1610
60 x 10	2	2270	2140	2000	1870	1720
80 x 10	2	2820	2660	2500	2330	2160
100 x 10	2	3200	3100	2800	2720	2510

Note: The rating values according to temperature are not exhaustive, since they depend on the configuration and position of the bars inside the enclosure.



Bar support arm

- Support without fixing to the enclosure, required to guarantee the distance between the bars.
- It is used on bars in both vertical and horizontal position.
- To choose the number of supports, see the tables of maximum distances between supports, pages **410**, **416** and **418**.



Supply: two insulating bar supports and fixing elements.

Reference

NSYBSA

Power distribution

Distribution blocks

PF500034



Sigma safety terminals

Safety terminals made from self-extinguishing Polyamide-6, with matt black base, **MS-58** brass terminal (DIN 17660), tempered, zinc-plated and dichromated steel ring, and cover made from orange-coloured self-extinguishing polypropylene.

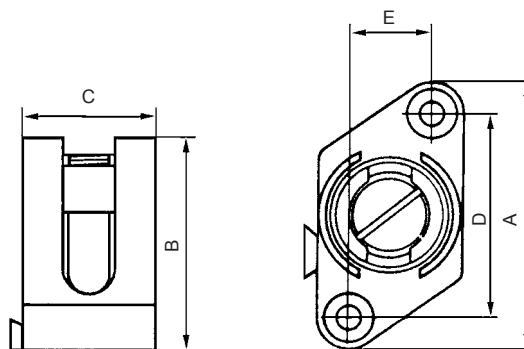
- **Anti-shearing:** the connection is made by means of a tightening mechanism, which distributes the pressure across the entire contact surface, avoiding friction and occasional stress that can damage the conductors.
- **Unloosenable:** the ring that surrounds the brass body guarantees that the pressure exerted by the actual conductors cannot open the terminal and loosen the connection.
- **Full insulation:** all the SIGMA "S" terminals are supplied with a terminal-covering cap, avoiding any accidental contact with live parts.

All the gauges can be coupled together, forming strips of any length. Operating voltage: 500 V.

Section (mm ²)	A	B	C	D	E	Supply	Reference
1 x 4	30	20	13	21	4	20	NSYS04
1 x 6	33	25	16	24	7	20	NSYS06
1 x 10	38	28	16	28	6	20	NSYS10
1 x 16	42	32	19	32	9	20	NSYS16
1 x 35	46	38	23	34	11	20	NSYS2535
1 x 50	52	45	27	40	15	20	NSYS50
1 x 70	55	50	30	40	15	20	NSYS70
1 x 100	58	54	33	40	20	10	NSYS95100

Note: Each terminal accepts up to 2 conductors with the specified section.

DE300389



Power distribution

Distribution blocks



PS500635

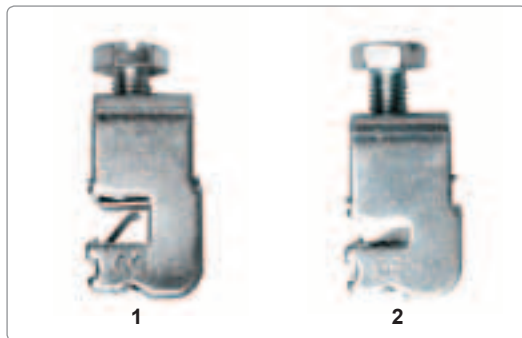
Bimetal terminals

Terminals specially designed for the junction of cables on plates, their main application is in busbar connections. The bimetal terminals are made from a copper alloy, hot-stamped and tin plated, suitable for connecting a copper or aluminium conductor indistinctly (bimetal).



Supply: 4 bimetal terminals.

Main section (mm ²)	Junction section (mm ²)	Reference
6-50	-	NSYBBH29
6-50	-	NSYBBH29C
10-95	-	NSYBBH30
16-150	-	NSYBBH31
50-240	-	NSYBBH32
6-50	6-50	NSYBBH29D
10-95	10-95	NSYBBH30D
25-150	16-150	NSYBBH31D
95-240	5-240	NSYBBH32D
6-50	-	NSYBBH29P
6-50	6-50	NSYBBH29DPC



PS500636

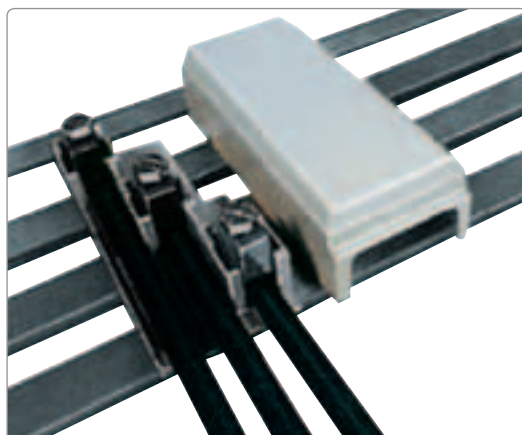
Plate/cable terminals

Entry by plate and junction by cable, plate or terminal.



Supply: 1 junction terminal.

Junction cable section (mm ²)	Plate thickness (mm)	Fig.	Reference
1.5 to 16	5	2	NSYBPCH516
1.5 to 50	5	2	NSYBPCH550
16 to 120	5	2	NSYBPCH5120
1.5 to 16	10	1	NSYBPCH1016
1.5 to 50	10	1	NSYBPCH1050



PS500637

Three-pole junction terminals

Entry by plate and junction by cable (for busbars).



Supply: 1 junction terminal.

Entry plate width (mm)	Entry plate thickness (mm)	Junction cable section (mm ²)	Reference
12/15/20/25/30	5 to 10	35 to 120	NSYBTE630TBT

Power distribution

Distribution blocks

PE500938

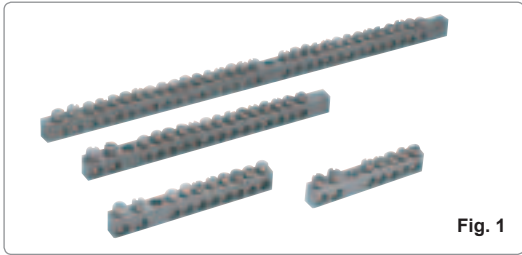


Fig. 1

Earthing strips

For the junction of neutral and earth cables.

- Models **NSYRBL** (Fig. 1) for installation in boxes with insulating rear or by means of insulators, not supplied.
- Models **NSYRBLZ** (Fig. 2) with insulating plinth for fitting under pressure on 12 x 2-mm rail.



Supply: 10 earthing strips

PE500939

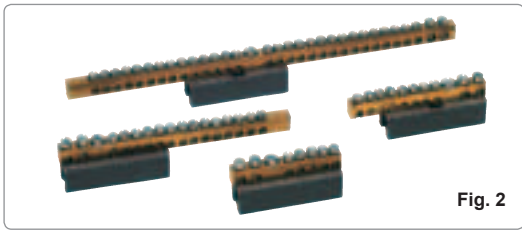


Fig. 2

Number of terminals x section mm ²	Fig.	Reference
2 x 16 mm ² + 5 x 6 mm ²	1	NSYRBL21656M
2 x 16 mm ² + 8 x 6 mm ²	1	NSYRBL21686M
2 x 16 mm ² + 14 x 6 mm ²	1	NSYRBL216146M
2 x 16 mm ² + 29 x 6 mm ²	1	NSYRBL216296M
2 x 16 mm ² + 5 x 6 mm ²	2	NSYRBLZ21656
2 x 16 mm ² + 8 x 6 mm ²	2	NSYRBLZ21686
2 x 16 mm ² + 14 x 6 mm ²	2	NSYRBLZ216146
2 x 16 mm ² + 29 x 6 mm ²	2	NSYRBLZ216296

PE500891

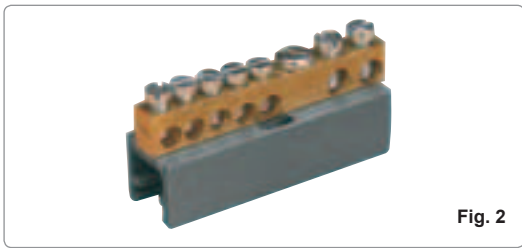
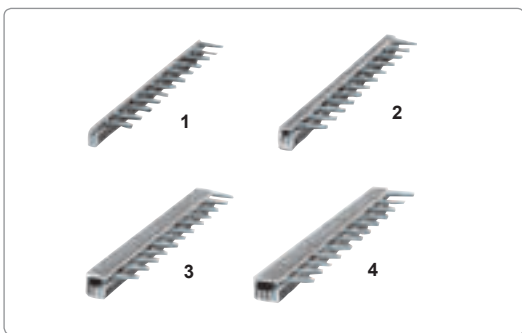


Fig. 2

PE500940



Distribution boards

For distribution in a single row of circuit breakers with a total of 12 modules.

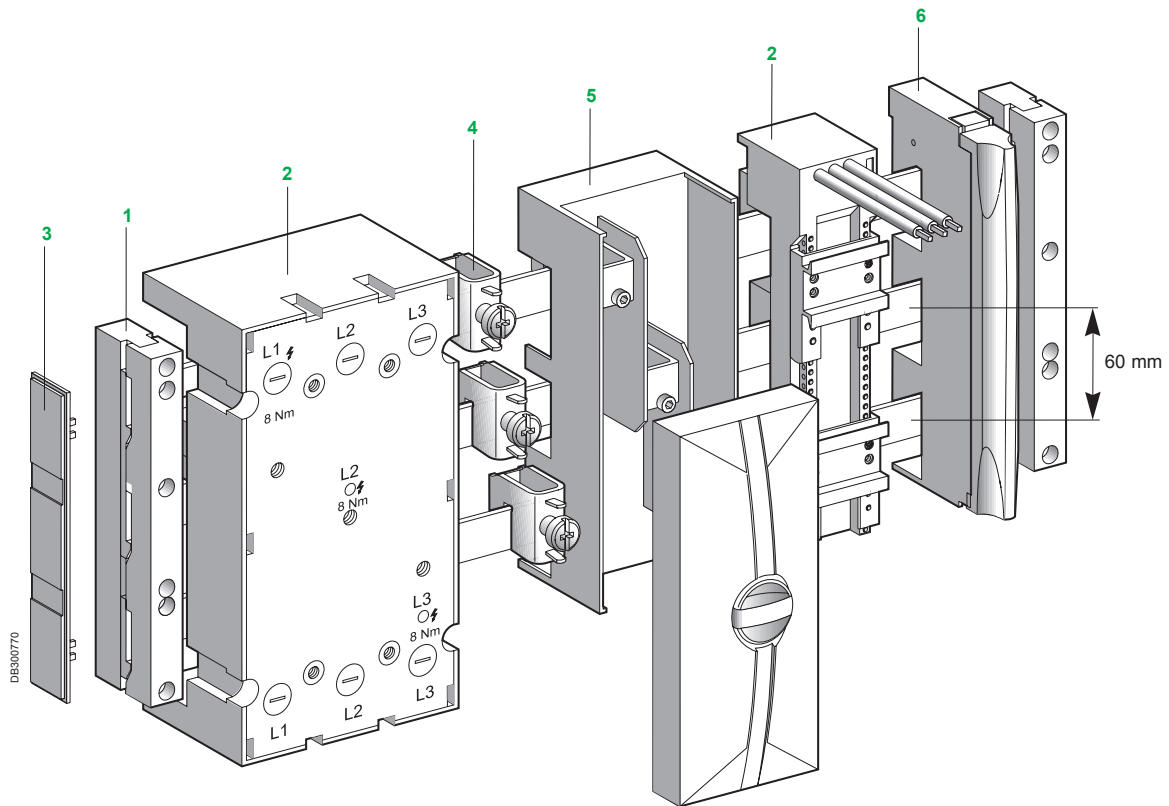


Supply: 10 distribution boards.

N.º of bars	N.º of poles per bar	Fig. n.º	Reference
1	12	1	NSYBDS112
2	6	2	NSYBDS26
3	4	3	NSYBDS34
4	3	4	NSYBDS43

Power distribution

Plates for mounting on 60 mm busbar



Description

The mounting plates are fitted directly on this busbar, by snap-on mounting, thus implementing electrical connection.

This system offers numerous benefits:

- Space saving in cabinets.
- Fast, safe and reliable electrical and mechanical connection.
- Easy connection.
- Protection for users against electric shocks by direct contacts (IP 20) by using covers.
- Equipment flexibility and modularity.
- Increased equipment availability: easier maintenance.
- Power supply without drilling (connectors) from 1.5 to 120 mm².

Support for 3P and 4P busbar 1

The mounting plates 2

These allow mounting of the power feeder components consisting of:

- A GV2 motor circuit breaker, mounted alone or in conjunction with a TeSys K or TeSys D contactor.
- A GV3 motor circuit breaker, mounted alone or in conjunction with a TeSys D contactor.
- A TeSys U starter-controller.
- A TeSys GV7 motor circuit breaker.
- An LD63 integral contactor-circuit breaker.
- A NSX100-250 or NSX400-630 A circuit breaker.

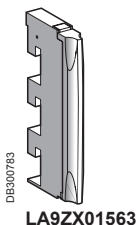
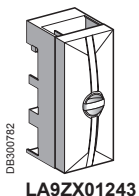
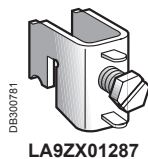
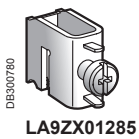
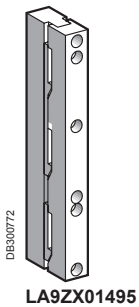
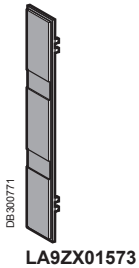
Accessories

Accessories complete the offer:

- End covers 3.
- 1P connectors 4.
- 3P connectors on mounting plate 5.
- A spring terminal 3P connection module 6.

Power distribution

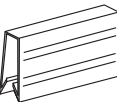
Busbar support and terminals



IEC busbar supports and accessories

		Sale in ind.Q.	Reference
3-pole	For 12, 15, 20, 25, 30 x 5/10 mm ² busbars	10	LA9ZX01495
	End covers for 3-pole busbar support	10	LA9ZX01573
4-pole	For 12, 15, 20, 25, 30 x 5/10 mm ² busbars	10	LA9ZX01485
	End covers for 4-pole busbar support (5 left, 5 right)	10	LA9ZX01131

Other accessories

		Sale in ind.Q.	Reference
Covers, length 1 m			
	For 12-30 x 5 mm ² busbars	10	LA9ZX01244
	For 12-30 x 10 mm ² busbars	10	LA9ZX01245

General characteristics

		LA9ZX01495 and LA9ZX01485 (IEC)							
Bar dimensions compatibility	mm	12 x 5	15 x 5	20 x 5	25 x 5	30 x 5	12 x 10	20 x 10	30 x 10
Max. rated operating current	A	200	250	320	400	450	360	520	630
Min. peak permissible rated current	kA	30	30	30	30	45	35	35	53
Distance max. between 2 busbars supports	mm	570	570	570	570	570	570	570	570
Degree of protection	IP	20 (with cover LA9ZX01244 or LA9ZX01245)							
Thermal resistance	°C	125							
Rated current frequency	Hz	50/60							
Rated insulation voltage	V	690							
Rated operating voltage	V	690							

Terminals

	I max.		Sale in ind.Q.	Reference
One-pole for flat bars, 5 mm	270 A	Capacity 4-35 mm ²	50	LA9ZX01285
	400 A	Capacity 16-70 mm ²	25	LA9ZX01287
3P cover, width 84 mm			10	LA9ZX01413

Terminals on mounting plate

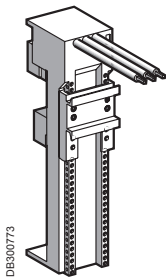
	I max.		Sale in ind.Q.	Reference
3P, on mounting plate + cover, for 12 x 5 to 30 x 10 busbars	440 A	Capacity 35-120 mm ²	1	LA9ZX01243

Connection module

	I max.		Sale in ind.Q.	Reference
3P, spring terminal connection + cover, for busbars of 12 x 5 to 30 x 10	80 A	Capacity 1.5-16 mm ²	8	LA9ZX01563

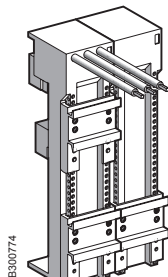
Power distribution

TeSys mounting plates



DE300773

LA9ZA32443, LA9ZA32621



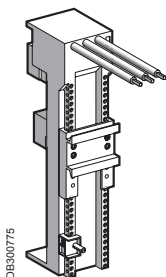
DE300774

LA9ZA32622, LA9ZA32623

For TeSys GV2 motor circuit breakers

Operating current AC-3 440 V	Protection by motor circuit breaker	For contactor	Mounting plate l x h x d	Sale in ind.Q.	Reference
Mounting plate, 1-way					
25 A	GV2 ME	LC1 D	45 x 200 x 63	4	LA9ZA32621
	GV2 P GV2 LE	LC1 K LP4 K06-K12			
32 A	GV2 ME	LC1 D	45 x 200 x 63	4	LA9ZA32434
	GV2 P		54 x 200 x 63	4	LA9ZA32442
	GV2 LE		63 x 200 x 63	4	LA9ZA32443
Mounting plate, 2-way⁽¹⁾					
25 A	GV2 ME	LC1 D	90 x 200 x 63	2	LA9ZA32622
	GV2 P GV2 LE	LC1 K LP4 K06-K12			
32 A	GV2 ME	LC1 D	90 x 200 x 63	2	LA9ZA32623
	GV2 P				
	GV2 LE				

(1) Use the LAD 9R1 or LAD 9R1V kit for the execution of changeover contactors.

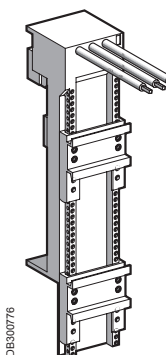


DE300775

LA9ZA32427

TeSys U starter-controllers

Operating current AC-3 440 V	Protection by power base	Mounting plate l x h x d	Sale in ind.Q.	Reference
Mounting plate, 1-way				
32 A	LUB12, LUB32	45 x 200 x 63	4	LA9ZA32427
Mounting plate, 2-way				
32 A	LUB12, LUB32	45 x 260 x 63	4	LA9ZA32428



DE300776

LA9ZA32625

For TeSys GV3 motor circuit breakers

Operating current AC-3 440 V	Protection by power base	For contactor	Mounting plate l x h x d	Sale in ind.Q.	Reference
Mounting plate, 1-way⁽²⁾					
63 A	GV3 P	–	54 x 200 x 63	4	LA9ZA32624
	GV3 P	LC1 D40A...65 A	54 x 260 x 63	4	LA9ZA32625
Mounting plate, 2-way^{(2) (3)}					
63 A	GV3 P	LC1 D40A...65 A	117 x 260 x 63	4	LA9ZA32626

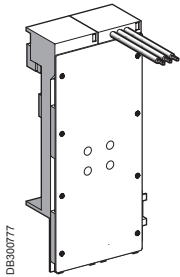
(2) Contactor-circuit breaker combination without additional part.

(3) Use the LAD 9R3 kit for the execution of changeover contactors.

Note: The mounting plate rails can be shifted vertically in 1.25 mm increments.

Power distribution

TeSys mounting plates

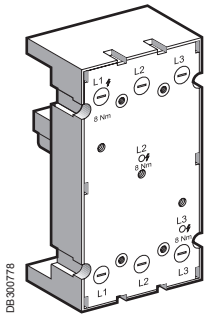


DB300777

LA9ZA32627

For TeSys integral contactor-circuit breakers

Operating current AC-3 440 V	Protection by contactor-circuit breaker	Mounting plate l x h x d	Sale in ind.Q.	Reference
Mounting plate, 1-way				
63 A	LD1, LD4 LD	108 x 260 x 63	1	LA9ZA32627



DB300778

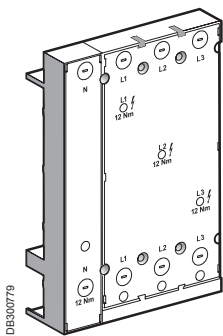
LV432623, LA9ZA32600

For TeSys GV7 motor circuit breakers

Operating current AC-3 440 V	Protection by contactor-circuit breaker	Mounting plate l x h x d	Sale in ind.Q.	Reference
Mounting plate, 1-way				
80 A	GV7	104 x 190 x 63	1	LV429372

For Compact NSX circuit breakers

Ratings		Mounting plate l x h x d	Sale in ind.Q.	Reference
100-250 A	Mounting plate for 3P circuit breakers	104 x 190 x 63	1	LV429372
	Mounting plate for 4P circuit breakers	139 x 251 x 63	1	LV429373
400-630 A	Mounting plate for 3P circuit breakers	139 x 270 x 63	1	LV432623
	Mounting plate for 4P circuit breakers	184 x 284 x 63	1	LV432624



DB300779

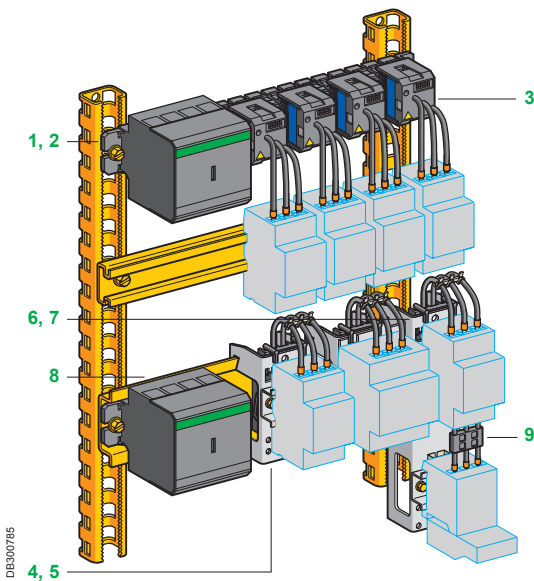
LV432624

For PowerPact 3P circuit breakers

Ratings		Mounting plate l x h x d	Sale in ind.Q.	Reference
60-100-150 A	Mounting plate for H frame circuit breakers	104 x 190 x 63	1	LA9ZA32600
250 A	Mounting plate for J frame circuit breakers	104 x 190 x 63	1	LV429372
250-400-600 A	Mounting plate for L frame circuit breakers	139 x 270 x 63	1	LV432623

Power distribution

Pre-assembled panel busbar system AK5



Carrying of electric current

By the pre-assembled 4-pole busbar system **1**, 160 A at 35 °C.

4-pole busbar systems can be used for 3-phase + Neutral or 3-phase + Common.

An incoming supply terminal block **2** is located at the extreme left of the busbar system.

Current distribution

Tap-off units **3** (factory assembled) are available in 4 versions:

- 2-pole.
- 3-pole.
- 4-pole (3-phase + Neutral).
- 4-pole (3-phase + Common).

The tap-offs clip onto the busbar system with instantaneous mechanical and electrical connection to the busbars.

2 ratings are available: 16 and 32 A.

The tap-off units ensure not only rapid mounting, but also a neat appearance for the power distribution system and complete safety when accessing under live circuit conditions.

Component mounting

Component mounting plates with incorporated tap-off allow mounting of and supply of power to components.

They are available in 25 A or 50 A ratings.

These mounting plates clip onto the mounting rail **8**, which also supports the busbar system, and at the same time make electrical connection via the incorporated tap-off.

2 types of mounting plate are available:

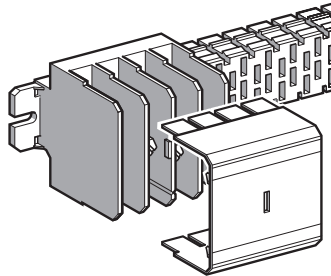
- Single plates **4** (height 105 mm), with bolt-on 35 mm wide \perp rail **5**, which may be bolted on in one of two positions, allowing height adjustment of 10 mm.
- Double plates **6** (height 190 mm), with two bolt-on, 35 mm wide \perp rails **7** mounted on 100 mm fixing centres; each rail may be bolted on in one of 4 positions, allowing height adjustment in 10 mm steps. These plates are supplied with connectors **9** to allow wiring between control and protection devices.

Single mounting plates enable the following types of distribution:

- 2-pole (Ph + N) and (Ph + Ph).
- 3-pole.
- 4-pole (3 Ph + N or 3 Ph + Common).

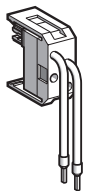
Power distribution

Pre-assembled panel busbar system AK5



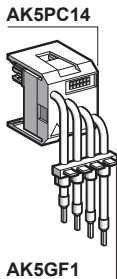
DE500786

AK5JB1●●



DE500787

AK5PC12



DE500788

AK5GF1

Busbar systems

The busbar system can be screw-mounted onto any type of support. However, if it is to be used in conjunction with component mounting plates incorporating a tap-off, it is essential that it is mounted on the AM1DL201 rail.

When mounting tap-offs, the rated operational current of the busbar system should be taken into account: 160 A at 35 °C.

Number of conductors	Number of tap-offs at 18 mm intervals	Length (mm)	Suitable for mounting in enclosure width (mm)	Weight (kg)	Reference
4 ⁽¹⁾	12	344	600	0.700	AK5JB143
	18	452	800	0.900	AK5JB144
	24	560	800	1.100	AK5JB145
	30	668	800	1.300	AK5JB146
	48	992	1200	1.900	AK5JB149
	54	1100	1200	2.100	AK5JB1410

Omega rail, width 75 mm

This rail is designed to accommodate the busbar system when it is used with AK5 PA mounting plates incorporating tap-offs. It supports the busbar system. The plates simply clip onto the rail.

Material and surface treatment	Depth (mm)	Length (mm)	Sold in lots of	Weight (kg)	Reference
2 mm sheet steel	15	2000 ⁽⁴⁾	6	3.000	AM1DL201

Removable power sockets

Use	Number of points used on the busbar system	Thermal current A	Cable lengths (mm)	Sold in lots of	Weight (kg)	Reference
Single-phase + Neutral	1	16	200	6 ⁽²⁾	0.035	AK5PC12
		32	1000	6 ⁽²⁾	0.040	AK5PC32L
2-phase	1	16	200	6 ⁽³⁾	0.035	AK5PC12PH
		32	1000	6 ⁽³⁾	0.040	AK5PC32LPH
3-phase	2	16	200	6	0.040	AK5PC13
			250	6	0.045	AK5PC33
		32	1000	6	0.060	AK5PC33L
3-phase + Neutral	2	16	200	6	0.045	AK5PC14
			250	6	0.050	AK5PC34
		32	1000	6	0.065	AK5PC34L
3-phase + Common	2	16	200	6	0.045	AK5PC131
		32	10 (Common)			

Accessories

Description	Maximum no. of connections	C.s.a. mm ²	Sold in lots of	Weight (kg)	Reference
Cable guide	4	2.5 or 4	20	0.300	AK5GF1

(1) 4-pole: 3-phase + Neutral or 3-phase + Common.

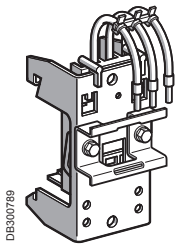
(2) Total of 6 sockets supplied: 2 sockets (N + L1), 2 sockets (N + L2), 2 sockets (N + L3).

(3) Total of 6 sockets supplied: 2 sockets (L1 + L2), 2 sockets (L1 + L3), 2 sockets (L2 + L3).

(4) Cut and drill to suit use.

Power distribution

Pre-assembled panel busbar system AK5



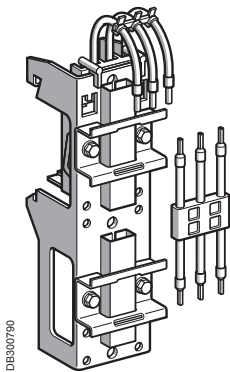
DE300759

AK5PA231

Component mounting plates incorporating tap-off

Single plate (height 105 mm)

Use	No. of 18 mm points used on the busbar system	Phase	Thermal current A	Number of U rails for component support	Weight (kg)	Reference
Single-phase + Neutral	3	Ph1+N	25	1	0.135	AK5PA211N1
		Ph2+N	25	1	0.135	AK5PA211N2
		Ph3+N	25	1	0.135	AK5PA211N3
2-phase	3	Ph1+Ph2	25	1	0.135	AK5PA211PH12
		Ph1+Ph3	25	1	0.135	AK5PA211PH13
		Ph2+Ph3	25	1	0.135	AK5PA211PH23
3-phase	3	-	25	1	0.140	AK5PA231
3-phase + Common	3	-	25	1	0.145	AK5PA2311
3-phase + Neutral	3	-	25	1	0.145	AK5PA241



DE300750

AK5PA232

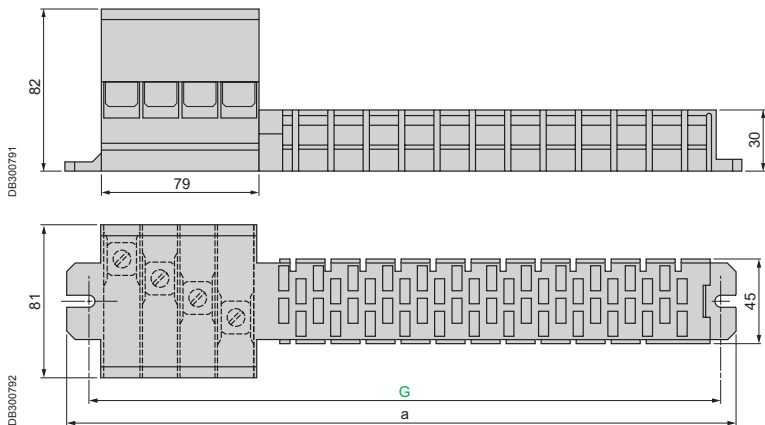
Double plate (height 190 mm)

Prefabricated 25 A connectors are supplied for connecting the 2 protection and control devices.

Single-phase + Neutral	3	Ph1+N	25	2	0.135	AK5PA212N1
		Ph2+N	25	2	0.135	AK5PA212N2
		Ph3+N	25	2	0.135	AK5PA212N3
2-phase	3	Ph1+Ph2	25	2	0.135	AK5PA212PH12
		Ph1+Ph3	25	2	0.135	AK5PA212PH13
		Ph2+Ph3	25	2	0.135	AK5PA212PH23
3-phase	3	-	25	2	0.230	AK5PA232
	6	-	25	2	0.600	AK5PA232S
			50	1	0.700	AK5PA532
3-phase + Neutral	3	-	25	2	0.230	AK5PA242
3-phase + Common	3	-	25 (10 Common)	2	0.235	AK5PA2312
	6	-	25 (10 Common)	2	0.610	AK5PA2312S
			50 (10 Common)	1	0.710	AK5PA5312
3-phase + Neutral	6	-	50	1	0.715	AK5PA542

Busbar systems

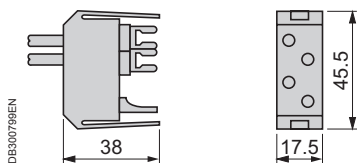
AK5JB●●●



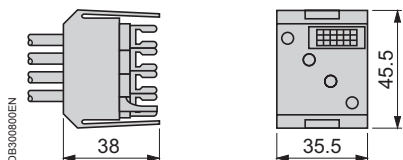
AK5	a	G	No. of 18 mm points
JB143	344	330	12
JB144	452	438	18
JB145	560	546	24
JB146	668	654	30
JB149	992	978	48
JB1410	1100	1086	54

Removable power sockets 16 and 32 A

AK5PC12●. AK5PC32L●

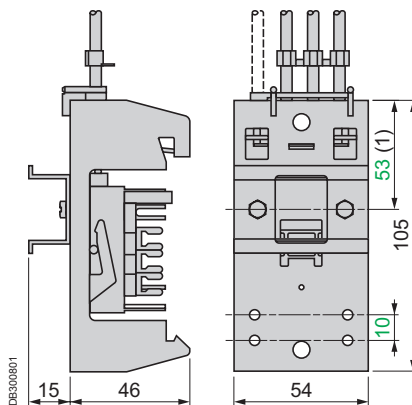


AK5PC●3. AK5PC33L
AK5PC●4. AK5PC34L
AK5PC●31



Mounting plates incorporating tap-offs, 25 A

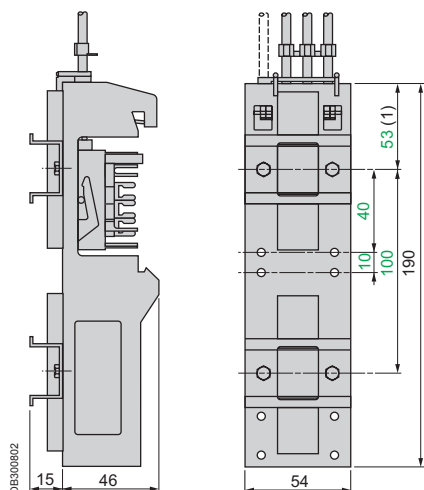
AK5PA2●1. AK5PA2311. AK5PA211●●●●



Note: It is recommended that the power sockets or the removable plates are connected as close as possible to the busbar feed unit.
(1) Can be fixed at 43 mm.

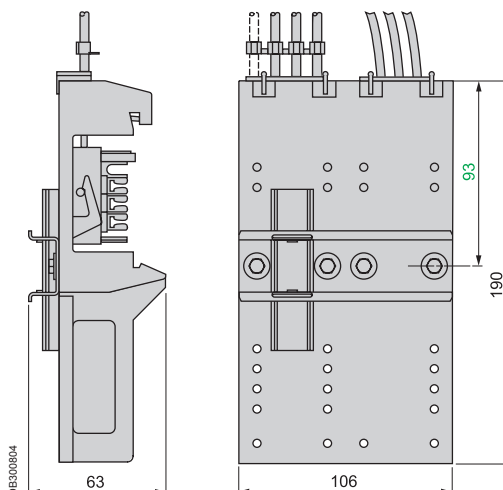
Component mounting plates incorporating tap-off

AK5PA232. AK5PA2312. AK5PA242



Component mounting plates incorporating tap-off

AK5PA532. AK5PA5312. AK5PA542



Cable management accessories



PE500943



Single cable entries overview	436
-------------------------------	-----

Multiple cable entries overview	437
---------------------------------	-----

Cable entries	438
---------------	-----

Cable holding	452
---------------	-----

Cintura Cable Ties	455
--------------------	-----

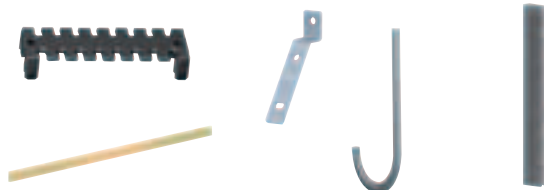
Cable Management Solutions	458
----------------------------	-----



- 1 Direct installation on enclosures**
 - Single entry (page 454)
 - Multiple entries (pages 440 to 444)
- 2 Installation on cable-gland plate**
 - Cable-gland plate with FL system for S3D enclosures (page 98) and for CRN enclosures
 - FL membranes for direct entry (page 440)
 - FL gland plate with knock-out system (pages 438 and 439)
- 3 Services**
 - Cut-outs on cable-gland plate or directly on body
 - See our customisation service



PB600942



Completed by our
cable management
accessories
see pages 451 to 463

PB500058



Minimum size and a high assembly:

Choice

Multiple solutions that can be combined on a single cable-entry plate (machining possible at the plant) or directly on the enclosure. See our customised offer.

- IP 67 ISO cable-glands: for quick installation without tools.
- IP 67 cable-glands.
- IP 65 membranes for quick cable entries with FL21-type cut-out.
- IP 65 plate for quick cable entries with the following types of cut-outs: Harting or circular M50 and M63.
- IP 65 plate for cable entries equipped with Harting-type cut-outs and connectors.

Saves time:
IP 65 membranes for quick cable entries with FL21-type cut-out.

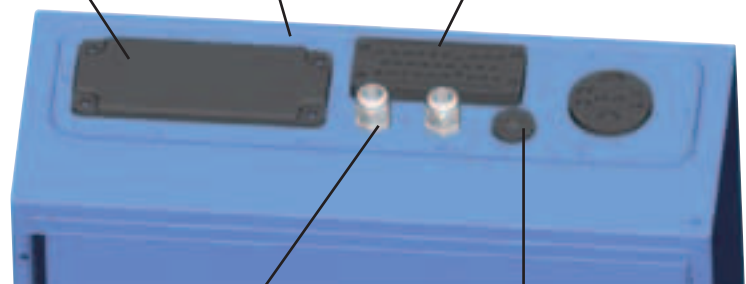
Service:
Direct machining of the cut-out on the body of the enclosure.

Development of the installation:

IP 65 plate for quick cable entries with the following types of cut-outs: Harting or circular M50 and M63.

Smart:
IP 54 plate for cable entries equipped with Harting-type cut-out connectors.

PB500043



Practical:
IP 67 cable-glands.

Simple:
IP 67 ISO cable-glands: for quick installation without tools.

Example of installation on cable-entry plate.



Machining of your plate before painting, with our specific service.

Specific

PB500089




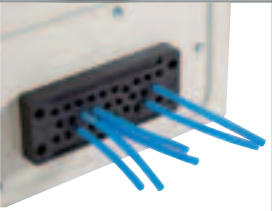
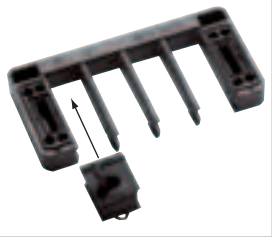

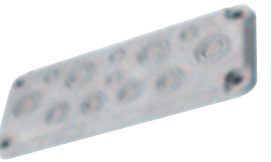
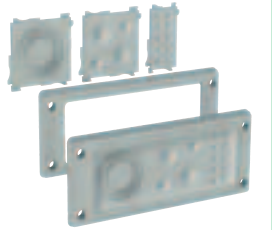

Cable management

Single cable entries overview

	Description	Cable dimensions (mm)	Details
 <p>PB500266</p>	<p>IP 55 Stepped cable entries Enclosure thickness 2-3.2 mm</p>	<p>20 25 32 40</p>	<p>Page 449</p>
 <p>PB500267</p>	<p>IP 67 quick cable entries Enclosure thickness 1-4 mm</p>	<p>12 16 20 25 32 40 50</p>	<p>Page 449</p>
 <p>PB500975</p>	<p>PVC adjustable cone-shaped entries Enclosure thickness 3-3.2 mm</p>	<p>18 26 36 60 87</p>	<p>Page 451</p>
 <p>PB500976</p>	<p>PVC adjustable cone-shaped entries Enclosure thickness 1.2-1.5 mm</p>	<p>16 18 20 26 35 44</p>	<p>Page 451</p>
 <p>PB500089</p>	<p>IP 68 ISO cable-gland</p>	<p>12 16 20 25 32 40</p>	<p>Page 450</p>

Cable management

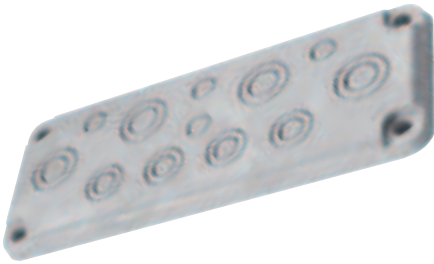
Multiple cable entries overview

	Description	Cable dimensions (mm)	Details
 <p>PB500024</p>	IP 65 cable entries without connectors	From 3 to 15.9	Page 444
 <p>PB500023</p>	IP 65 cable entries without connectors	From 4.3 to 15.9	Page 444
 <p>PB500082</p>	IP 54 cable entries for cables equipped with connectors (matrix + split seals)	From 3 to 31	Page 447
 <p>PB500605</p>	IP 65 membranes (FL21)	From 6 to 60	Page 440
 <p>PB500844</p>	IP 65 knock out plate (FL21)	4 x 12 4 x 12/20 4 x 16/25	Page 438
 <p>PB500945</p>	IP 65 knock out and membrane plate (FL13 and FL21)	16 20 25 32 40 50	Page 439
 <p>PB501700</p>	IP 65 membrane plate (FL13 and FL21)	From 13 to 30	Page 441

Cable management

Cable entries

PB500344

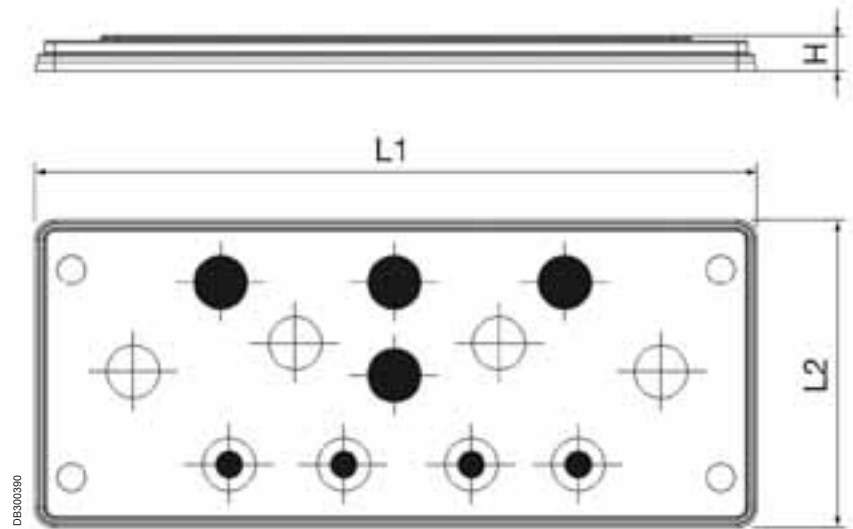


FL21 insulated flange with ISO knock-outs (for cable gland with nut)

1 model (4 x 12 + 4 x 12/20 + 4 x 16/25) colour RAL 7035.

Installation on cable-gland plates (FL21 models) or direct installations on the enclosures with our specific offer. Please consult us.

- Material: polycarbonate, glass-fiber reinforced.
- Flame resistance: UL94 – V1.
- Temperature range for normal operation: –40 ... +80 °C.
- Temperature range for a short time: –40 ... +120 °C.
- Degree of protection: IP65.



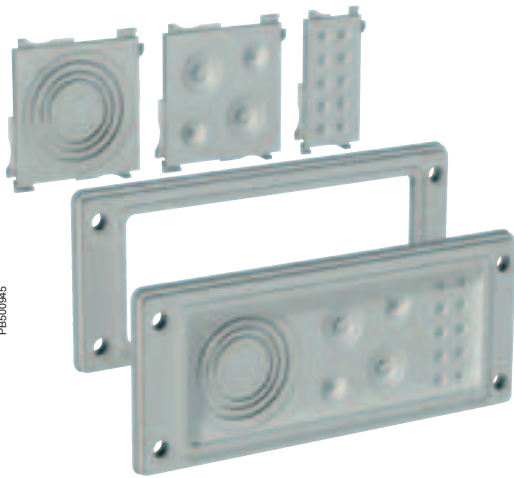
DE300390

Size	L1 (mm)	L2 (mm)	H (mm)	H2 (mm)	Reference
FL21	215	85	10	~ 35	NSYTSAKFL

	M12
	M12 or M20
	M16 or M25

Cable management

Cable entries



PB500945

FL13 or 21 pre-configured flanges

4 models: one FL13 and three FL21, RAL 7035 colour.

Installation on cut-out cable-gland plates or direct installation on the enclosures with our specific offer. Please consult us.

- Material: Fibreglass-reinforced polypropylene and TPE - Halogen Free.
- Certificates: UL-approved materials.
- Fire resistance: UL94 HB.
- Degree of protection: IP 65.
- Temperature range: -20 °C to +125 °C⁽¹⁾.

Test standard EN 60529:1991 + A1 EN 60670-1:2005, EN 50262:1998
EMKO-TUI(03-SEC)FI001/84.
Semko report 816003.

FL	4-10 mm ⁽¹⁾	M20 (6-13 mm) ⁽²⁾	Ref.
13	10	1	NSYAECPKFL11

(1) "Pop-out" membranes only.

(2) "Pop-out" membranes or cable gland installation.



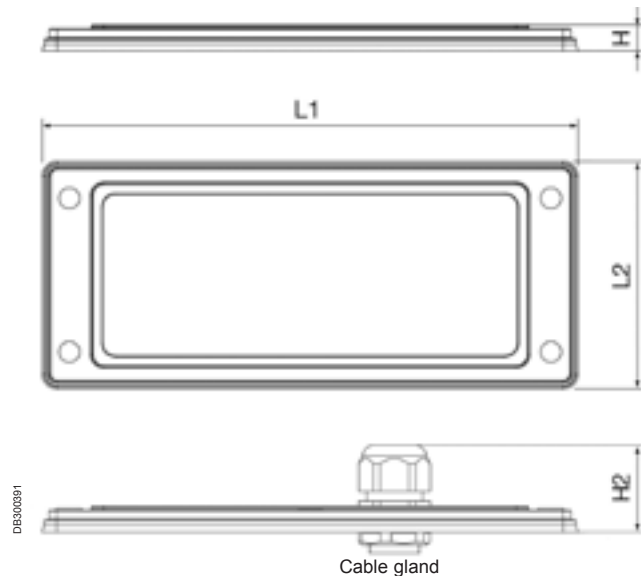
PB500946

Example of mounting with direct cable entry (through pop-out membranes) or mounting of cable gland.

FL	M16 (5-10 mm) ⁽³⁾	M20 (6-13 mm) ⁽³⁾	M25 (8-17 mm) ⁽³⁾	M32 or M40 or M50 ⁽⁴⁾	Ref.
21	2	2	2	1	NSYAECPKFL7A
21		6		1	NSYAECPKFL7B
21	4	2	4		NSYAECPKFL10

(3) "Pop-out" membranes or cable gland installation.

(4) Knock out system.



DE300391

Cable gland

Size	L1 (mm)	L2 (mm)	H (mm)	H2 (mm)
FL13	134	52	6.5	~ 35
FL21	214	90	9	~ 35

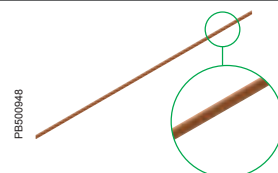


See also the accessories



PB500947

Adjustable cable tie page 455



PB500948

Earthing strip page 493

Cable management

Cable entries

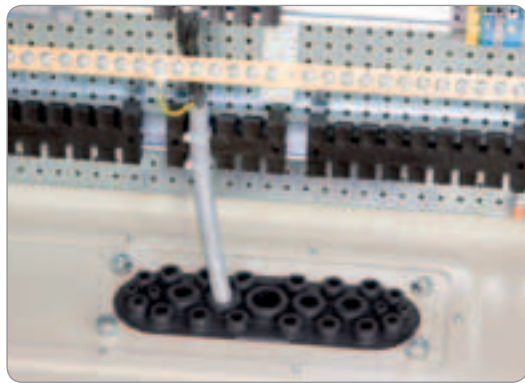
FL21-type membranes "T" range

Number of cable entries	Diameter of the cable entry (Ø mm)											Reference
	5-7	6-10	8-12	8-16	10-14	12-18	14-20	17-32	20-26	24-54	30-60	
0												NSYAECPFLLBP*
7				4						2	1	NSYAECPFLT7
25	4		4		12		4		1			NSYAECPFLT25
35		2	14		16	2		1				NSYAECPFLT35

* Metallic plate.



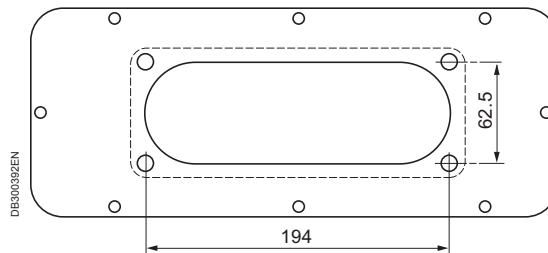
PB500605



PB500606

Sealed cable entries made from insulating material (fire resistance: V0 according to UL 94).

- Guarantees a degree of protection of IP 65.
- Dark grey colour.
- Installation on pre-cut plates (page 98) or direct installation on the enclosures with our specific offer. Please consult us.
- 3 models: 7 to 35 cable entries.
- Cover for cut-out ref. **NSYAECPFLLBP**.



DB300392EN

Features of the membranes

NSYAECPFLT7

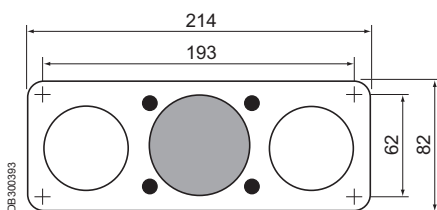
Symbol	For cable Ø	No. of entries
●	8-16	4
○	24-54	2
⊕	30-60	1

NSYAECPFLT25

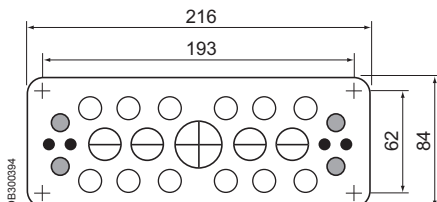
Symbol	For cable Ø	No. of entries
●	5-7	4
●	8-12	4
○	10-14	12
⊕	14-20	4
⊕	20-26	1

NSYAECPFLT35

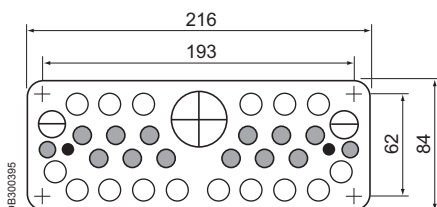
Symbol	For cable Ø	No. of entries
●	6-10	2
●	8-12	14
○	10-14	16
⊕	12-18	2
⊕	17-32	1



DB300393



DB300394



DB300395

Cable management

Cable entries



PB501695

FL 13



PB501696

FL 21

FL 13 or FL 21 membranes type “A” for cable entrance

- 4 models: 2 models FL 13 and 2 models FL 21, RAL 7035.
- Installation on cut-out cable-entry plates with FL 13 or FL 21 cut-outs or direct installation on enclosures with our specific offer. Please consult us.
- **Material:** TPE, SBS, SEBS and PP co-polymer – halogen free.
- **Certificates:**
Cable anchorage pull test: EN 50262.
Long term UV-resistance: ASTM G 154-06.
- **Degree of protection:** IP 65.
- **Temperature range:** –40 to +85 °C.
- **Resistance/Cable retention (daN):** > 20 daN.

Type	Nb of entrances	13	14	15	16	18	21	30	Ref.
FL 13	7			4			3		NSYAECPLA7
FL 13	10	6			4				NSYAECPLA10
FL 21	25		16			6		3	NSYAECPLA25
FL 21	33		24			9			NSYAECPLA33

NSYAECPLA7



PB501697

3 x 21 + 4 x 15 mm

NSYAECPLA10



PB501698

4 x 16 + 6 x 13 mm

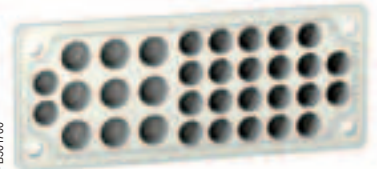
NSYAECPLA25



PB501699

3 x 30 + 6 x 18 + 16 x 14 mm

NSYAECPLA33



PB501700

9 x 18 + 24 x 14 mm

Dimensions

Type	Dimensions (mm)			Ref.
	Height	Width	Depth	
FL 13	20	135	47	NSYAECPLA7
FL 13	20	135	47	NSYAECPLA10
FL 21	25	215	86	NSYAECPLA25
FL 21	25	215	86	NSYAECPLA33

Cable management

Cable entries



Cable clamp for improved cable retention

Installation on FL 21 membrane type "A" for cable entrance to block cables when installed. It can be easily removed.

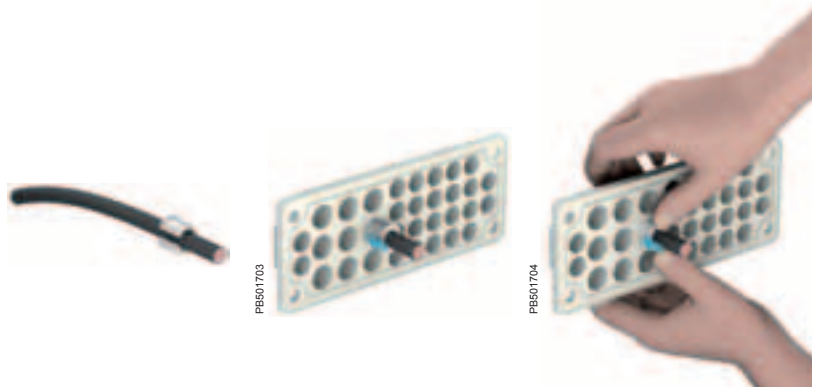
Material: PA6 – halogen free.
Temperature range: –40 to +85 °C.

Installation process

1. Push the cable through the membrane entrance to the desired position.
2. Put the cable clamp around the cable and slide it into the cable entry.
3. Push the cable clamp fully into the membrane entrance and the cable will be fixed.



Secure your installation with an easy solution for cable anchorage



Cable clamp outer diameter (mm)	Membrane entrance diameter (mm)	Cable diameter range (mm)	Supply	Ref.
15	14	7-9	Set of 8	NSYAECPLACA14
18	18	9-11	Set of 6	NSYAECPLACA18
20	18	10-12	Set of 6	NSYAECPLACA20
30	30	20-23	Set of 3	NSYAECPLACA30



2 x 30 + 3 x 18 + 5 x 14 mm

Blanking plugs

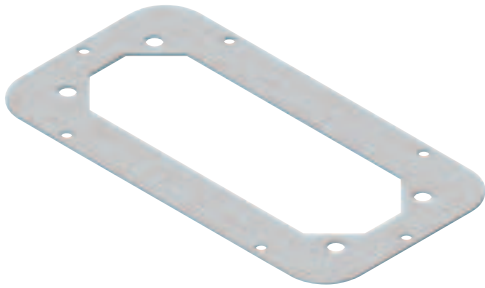
Installation on FL 21 membrane type "A" for cable entrance to fill the opening used.

Material: LDPE – halogen free.
Temperature range: –30 to +50 °C.

Description (mm)	Ref.
Set of 2 plugs for diameter 30 mm, 3 plugs for diameter 18 mm and 5 plugs for diameter 14 mm	NSYAECPLAP

Cable management

Cable entries



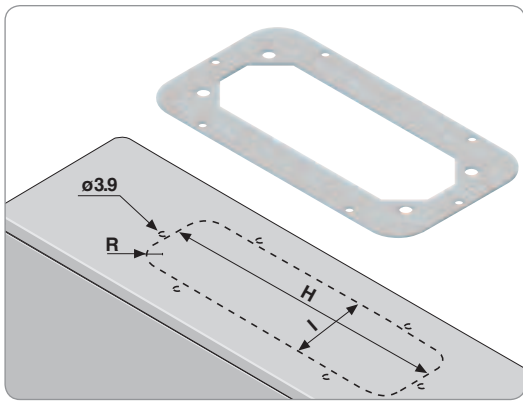
PB503604

Steel adapter plate for FL 13 and FL 21 membranes

- Allows the mounting of FL 13 and FL 21 membranes on every type of enclosure.
- Water tightness: IP 55.
- Delivered with fixing screws and gasket.

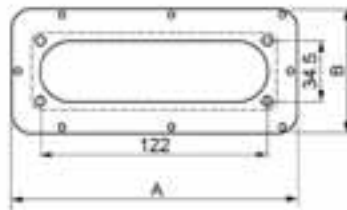
Dimensions

Type	Plate dimensions		Cut-out dimensions	
	A	B	H	I
B	245	80	212	47
C	245	130	212	97
D	345	130	312	97
E	445	130	412	97
F	545	130	512	97
G	495	220	462	187

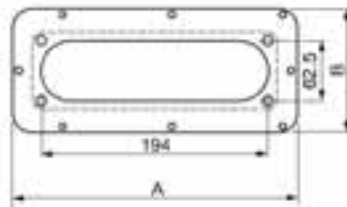


DB30072EN

Adapter dimensions

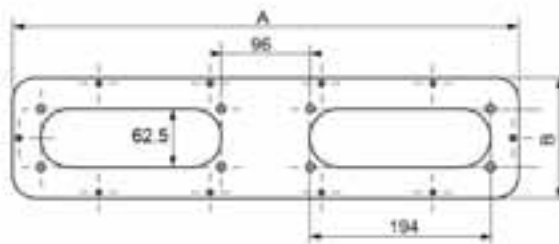


DB30071EN

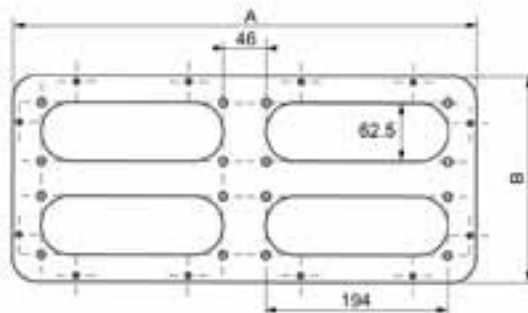


Reference
NSYTLBFL*
NSYTLFCFL
NSYTLDFL
NSYTLFL
NSYTLFFL
NSYTLGFL

* FL 13 cut-out.



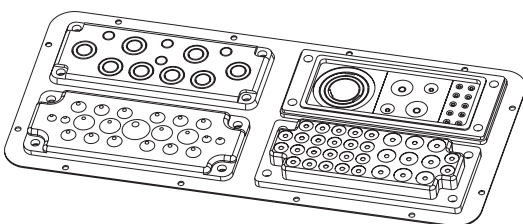
Reference
NSYTLF2FL
NSYTLG2FL



Reference
NSYTLG4FL



Our membrane can be easily adapted to fit onto all our metallic enclosures using the adapter plate



DB300718

Application example

DB300094EN

Cable management

Cable entries



PE500024

IP 65 connector-free cable entries: Two solutions to suit your application


Circular

Compact, flexible system for inserting cables in electrical enclosures or connection boxes, for example:

Specifications

- IP 65 tightness.
- Fire resistance: V0.
- Cut-outs Ø 50 and 63 mm.
- Installation by nut, up to Spacial wall-mounting steel enclosure size 700 x 500 x 250 mm.
- 2 installation methods are possible for sizes larger than 700 x 500 x 250 mm: clipping or screwing (installation by screwing recommended).

 Composition: 10 units.

 Reference by unit. Order by multiples of 10 (10, 20, 30...).



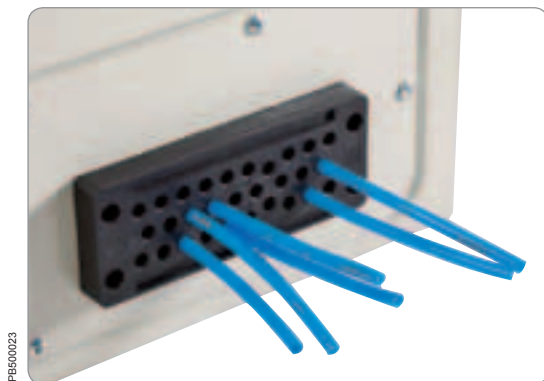
DB300396



DB300397



DB300388



PE500023

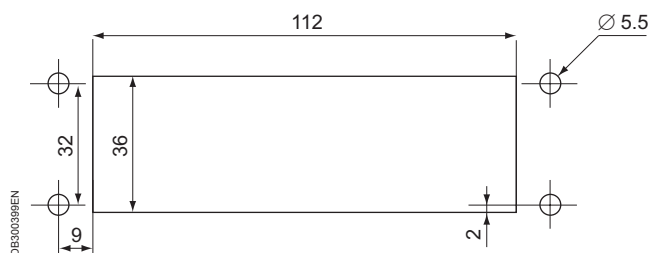
Rectangular

Compact, flexible system for inserting cables in electrical enclosures or connection boxes, for example:

- External dimensions: 146 x 14 x 58 mm.
- Drill-hole diameter: 112 x 36 mm.

Specifications

- IP 65 tightness.
- Fire resistance: V0.
- Identical cut-outs to the 24-point connectors.
- Installation by screwing, up to Spacial wall-mounting steel enclosure size 700 x 500 x 250 mm.
- 2 installation methods are possible for sizes larger than 700 x 500 x 250 mm: clipping or screwing (installation by screwing recommended).


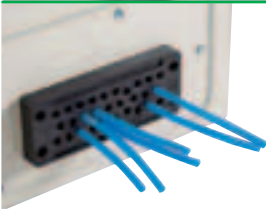


DB300398EN





Cable management

Cable entries

Selection guide

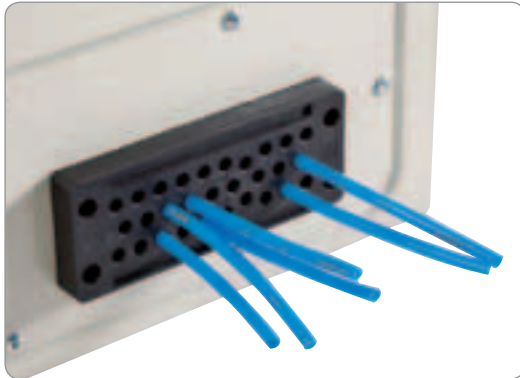
Type	No. of openings	Dimensions/ cut-out Ø	Diameter of the cable entry (Ø mm)								Packaging	Reference
			3-5.5	4.3-8.1	3-6.5	3.6-6.5	5-9.2	6-10	8-12.5	9.6-15.9		
	4	50.5						3		1	10	NSYTSAM504SE
	8	50.5				7		1			10	NSYTSAM508SE
	8	63.5			2		4			2	10	NSYTSAM638SE
	13	63.5	6			6		1			10	NSYTSAM6313SE
	14	112x36			6		4				1	NSYTSAM2414SE
	17	112x36					17			4	1	NSYTSAM2417SE
	22	112x36			16		4		2		1	NSYTSAM2422SE
	23	112x36		23							1	NSYTSAM2423SE
	29	112x36			29						1	NSYTSAM2429SE

Position of the holes on the circular cable entries with diameters 50 and 63 mm

Type	Hole diameter	Reference
 DB300400	1 x Ø 9.6 to 15.9 mm 3 x Ø 6 to 10 mm	NSYTSAM504SE
 DB300401	7 x Ø 6 to 10 mm 1 x Ø 6 to 10 mm	NSYTSAM508SE
 DB300402	2 x Ø 3 to 6.5 mm 4 x Ø 5 to 9.2 mm 2 x Ø 9.6 to 15.9 mm	NSYTSAM638SE
 DB300403	6 x Ø 3 to 5.5 mm 6 x Ø 3.6 to 6.5 mm 1 x Ø 6.0 to 10.0 mm	NSYTSAM6313SE

Cable management

Cable entries



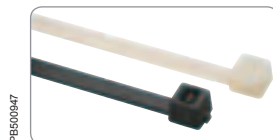
PB500023

Diagrams of dimensions and positions of the holes on a rectangular cable entry

Cable entries (mm)	Type	Reference
6 x 3 to 6.5 4 x 5 to 9.2 4 x 9.6 to 15.9		NSYTSA2414SE
17 x 9.2		NSYTSA2417SE
29 x 3 to 6.5		NSYTSA2429SE
16 x 3 to 6.5 4 x 5 to 9.2 2 x 8 to 12.5		NSYTSA2422SE
23 x 4.3 to 8.1		NSYTSA2423SE

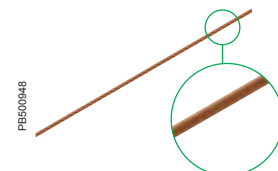


See also
the accessories



PB500947

Adjustable cable tie
page 455

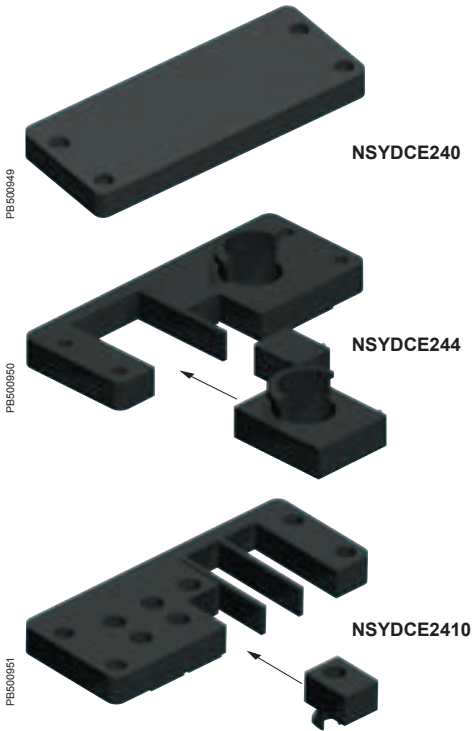


PB500948

Earthing strip
page 493

Cable management

Cable entries



Die for entry of cables equipped with connectors

System in two parts for inserting cables and hoses in the boxes.

- Various split seals suited to the cable diameter.

Specifications

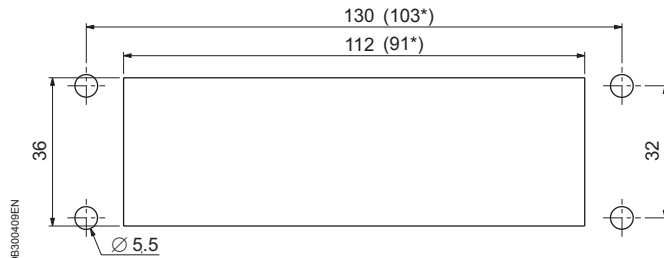
- IP 54 tightness.
- Identical cut-outs to the 16-point or 24-point connectors.
- Installation by screwing, up to Spacial steel enclosure size 700 x 500 x 250 mm.

Composition: 1 die and fixing elements.

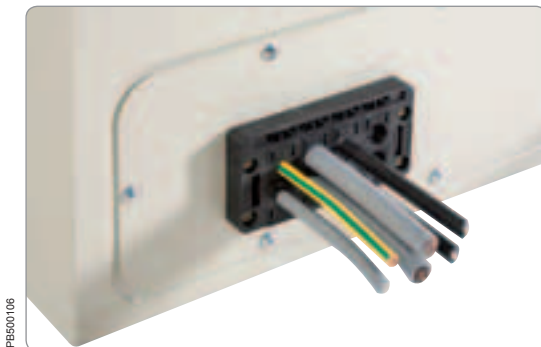
Connector cut-out type	Number of cable entries	Reference
16	8	NSYDCE168
24	0	NSYDCE240
24	4	NSYDCE244*
24	10	NSYDCE2410

* NSYDCE244 accepts 4 entries: 2 large seals and 2 small seals.

Cut-out for reference NSYDCE24...



*Cut-out for reference NSYDCE16...



Example of installation on cable-entry plate.

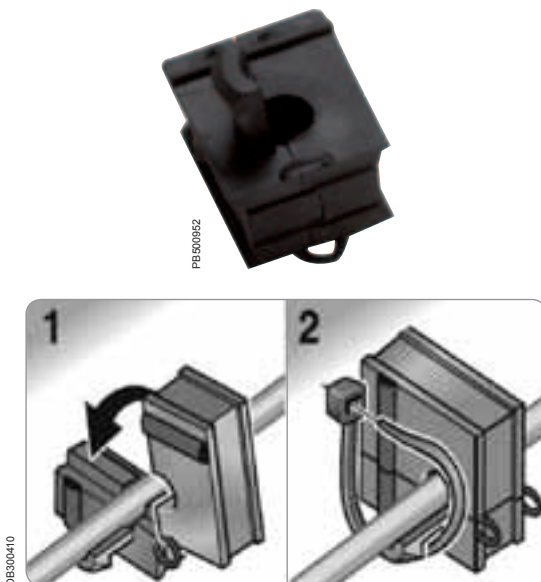
Split seals for cable entries equipped with connectors

Split seals suited to the diameter of the cable to be mounted on the cable-entry dies for the connectors. Ref. NSYDCE...

Composition: 10 units.
Reference per unit. To be ordered in multiples of 10 (10, 20, 30, etc.).

For cables Ø (mm)*	Reference
0	NSYCEJD
3-4	NSYCEJD3
5-6	NSYCEJD5
7-8	NSYCEJD7
9-10	NSYCEJD9
11-12	NSYCEJD11
13-14	NSYCEJD13
16-17	NSYCEJD16*
18-19	NSYCEJD18*
20-21	NSYCEJD20*
22-23	NSYCEJD22*
24-25	NSYCEJD24*
26-27	NSYCEJD26*
28-29	NSYCEJD28*
30-31	NSYCEJD30*

* Large seal, 24/4 die only.



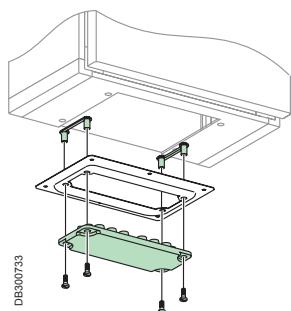
Adjustable cable tie see on page 455.

Cable management

Other cable-gland solutions

Cable-gland plate made of insulating material (pre-drilled or with membrane) in FL21 or rectangular version

They can be used for entering cables with different cross-sections through the bottom of the enclosure while maintaining the IP 55 degree of protection.



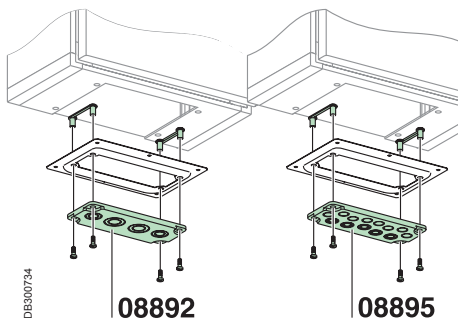
Plain cable-gland plates FL21

Description	Reference
Solid cable-gland plates	08881

Pre-drilled cable-gland plates FL21

Suitable for receiving cable glands with metric pitch.

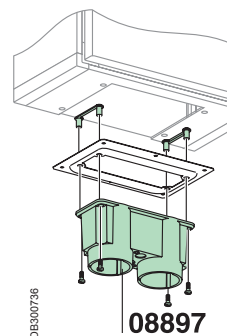
Description	Reference
Pre-drilled cable-gland plates 2 x M20 or M32 + 2 x M25 or M40	08892
Pre-drilled cable-gland plates 5 x M16 or M25 + 8 x M20	08895



Membrane cable-gland plates FL21

Membrane to be drilled according to the required diameter.

No. entries	Amount of entries per diameter	Cable diameter comprised between		Reference
		Min.	Max.	
2	2	28	60	08897



Other membrane cable-gland plates

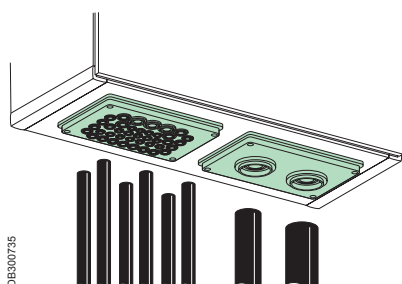
IP 55 membrane to be drilled with the required diameter.

Pre-drilled cable-gland plates for opening of 225 x 137

Suitable for receiving cable glands with metric pitch.

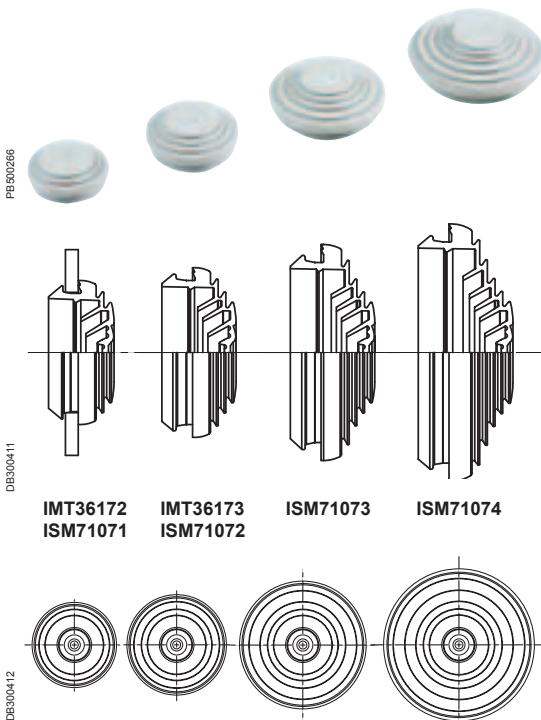
Description	Reference
Cable-gland plate with 39 entries from 7 to 26	08898*
Cable-gland plate with 2 entries from 33 to 72	08899

* Reference 08898 is made up of:
 3 cables with diameters from 14 to 26.
 4 cables with diameters from 10 to 20.
 32 cables with diameters from 7 to 16.



Cable management

Cable entries



Mixed membrane entries for IP 55 direct cable entries

Common accessories for the Thalassa and Spacial offers

- Membrane entries with multiple membranes.
- IP 55.
- RAL 7035.
- Patented concentric cutting. A simple screwdriver is enough. Enables ultra-quick connection with the choice of several cable diameters for the same membrane entry.
- Material: SBS.
- Minor packaging of 10 pieces.
- Warning: The IP becomes 55.
- Suitable for walls from 2 to 3.2 mm.

Ø (mm)		Minor pack.	References and colours	
Drill hole	Cable / conduit		RAL 9010 white	RAL 7035 light grey
23	4 - 20	10	IMT36172	ISM71071
29	4 - 25	10	IMT36173	ISM71072
36	4 - 32	10	-	ISM71073
44	4 - 40	10	-	ISM71074

Installation of IP 55 entries

- Insertion of rigid cables:
 - Strip at least 100 mm.
 - Push the wires through the membrane.
- Insertion of flexible cables:
 - Pierce partially and soften the membrane with a 4 to 5.5 mm screwdriver.
 - Pass the cable through the membrane.
- Insertion of conduits:
 - Peel the necessary step: 16, 20, 25, 32 or 40 mm.
 - Push the conduit.

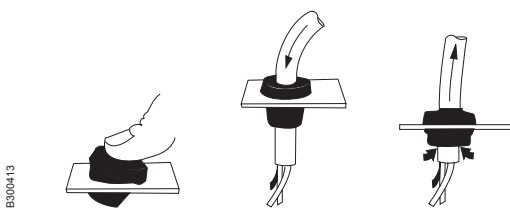
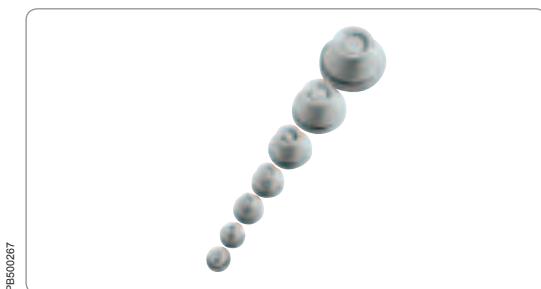
IP 67 quick cable entries

- IP 67.
- Material: EPDM plastic.
- Suitable for walls from 1 to 4 mm (0.5 to 2 mm for ref. **IMT36179**).
- Quick installation with no tools.
- Installation direction: the conical part is inside the box.

ISO	Ø of drill hole	Cable Ø (mm)	Minor pack.	Reference
M12	12.5	3 - 5	50	IMT36179
M16	16	5 - 7	50	IMT36180
M20	20.3	7 - 10	50	IMT36181
M25	25.3	10 - 14	50	IMT36182
M32	32.4	14 - 20	50	IMT36183
M40	40.7	20 - 26	25	IMT36184
M50	50.7	26 - 35	25	IMT36185

Application

- Push the cable entry into the hole. The conical part must be inserted into the box.
- Prepare and loosen the cable entry with a screwdriver. Pass the cable through the cable entry.
- Pull the cable back slightly to fix it in place. The installation is complete.




Cable-gland, disc and plug selection table

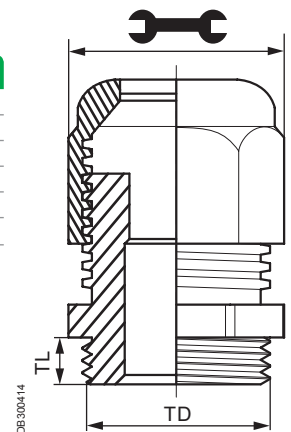
Ø	1-cable cable gland			Multi-cable disc		Gasket	Blanking plug	Transport plug
	Ref.	Ø min / max (mm)	drill \ (2)	Ref.	Number / Ø (mm)			
M12	ISM71501	3 / 6.5	12.2 (0 + 0.2)	-	-	IMT36151	IMT36161	-
M16	ISM71502	4 / 8	16.2 (0 + 0.2)	IMT36157	2 x Ø 4	IMT36152	IMT36162	IMT36167
M20	ISM71503	6 / 12	20.2 (0 + 0.2)	IMT36158	3 x Ø 4	IMT36153	IMT36163	IMT36168
M20 (1)	IMT36150	6 / 12	20.2 (0 + 0.2)	IMT36158	3 x Ø 4	IMT36153	IMT36163	IMT36168
M25	ISM71504	11 / 17	25.2 (0 + 0.2)	IMT36159	4 x Ø 5	IMT36154	IMT36164	IMT36169
M32	ISM71505	15 / 21	32.2 (0 + 0.3)	IMT36160	6 x Ø 5	IMT36155	IMT36165	IMT36170
M40	ISM71506	19 / 28	40.5 (0 + 0.3)	-	-	IMT36156	IMT36166	IMT36171

(1) Cable-gland with high resistance to fire.
 (2) In brackets: tolerance.



ISO cable-gland

Ø	Reference	TD	TL		Thread
M12	ISM71501	12	6	15	1.5
M16	ISM71502	16	8	19	1.5
M20	ISM71503 - IMT36150	20	10	24	1.5
M25	ISM71504	25	8	29	1.5
M32	ISM71505	32	10	36	1.5
M40	ISM71506	40	10	46	1.5



- IP 68, 5 bars.
- According to standard IEC 62208.
- RAL 7035 grey.
- Material: PA6, neoprene gasket.
- Usage temperature: - 30 ... + 80 °C up to + 150 °C intermittently.
- The cable-glands are supplied with nuts.
- The IP is guaranteed with no gasket between the cable-gland and the thermoplastic box. A gasket available as an accessory guarantees the seal in the event of installation on a steel enclosure.
- The cable-gland (ref. **IMT36150**) is especially recommended for security circuits (glow wire resistance: 960 °C).
- Pack of 20 (M12 to M20), 10 (M25 and M32), 5 (M40).

Cable-gland gasket

- Batch of 100 (M12 to M25), 50 (M32), 25 (M40).

Multi-cable disc

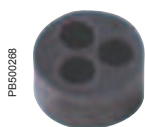
- It is possible to pass several cables through a single cable-gland using the multi-cable bushing.

Blanking plug

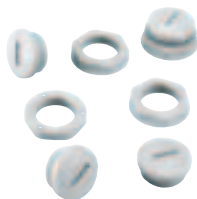
- It is screwed into the cable-gland's place.
- Pack of 20 plugs (M12 to M15), 10 plugs (M32), 5 plugs (M40).

Transport plug

- It is installed to block the cable-gland during transport or during maintenance operations.
- Pack of 20 plugs (M16 to M25), pack of 10 (M32), pack of 5 (M40).



Multi-cable disc



Blanking plug



Transport plug

Cable management

Cable entries



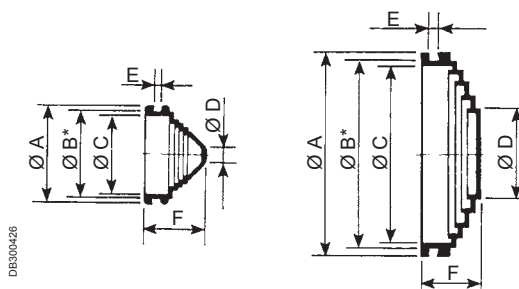
PB500975

PVC adjustable cone-shaped entries

PVC insulating cone-shaped entries which can be cut according to the volume of cables. Installation on insulating distribution boxes and protection boxes; generally suitable for thicknesses matching the dimension E.

Fig.	Ø A	Ø B*	Ø C	Ø D	E	F	Capacity		Composition	Reference
							Cable Ø	Tube		
1	25	21.5	18	5	3.2	13	5 to 18	Pg. 9 to 11	50	NSYECPC3
1	33	29.5	26	5	3.2	20	5 to 26	Pg. 9 to 16	25	NSYECPC5
1	43	38.5	36	5	3.2	22	5 to 36	Pg. 9 to 21	25	NSYECPC6
2	70	63	60	28	3	20	28 to 60	Pg. 21 to 48	10	NSYECPC9
2	98	90	87	28	3	23	28 to 87	Pg. 21 to 48	10	NSYECPC15

*Drill-hole for mounting.



DB300426



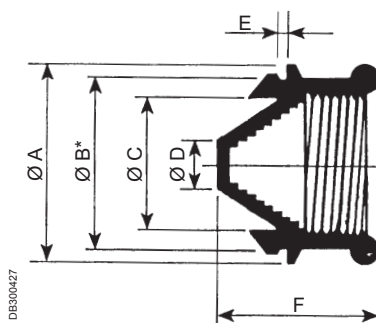
PB500976

PVC adjustable cone-shaped entries

PVC insulating cone-shaped entries, threaded for the entry of Pg tubes and detachable rear for cable entry. They allow the entry of all types of normal and flexible cables and tubes, with diameters comprised between the dimension B and the thread root (maximum Ø).

Ø A	Ø B*	Ø C	Ø D	E	F	Capacity		Composition	Reference
						Cable Ø	Tube		
25	19.5	16	3	1.2	21	3 to 16	Pg. 9	50	NSYEC1
25	19.5	16	6	1.2	21	6 to 16	Pg. 11	50	NSYEC2
27	21.5	18	7	1.2	23	7 to 18	Pg. 13.5	50	NSYEC3
29.5	23.5	20	8	1.2	26	8 to 20	Pg. 16	25	NSYEC4
35	29.5	26	10	1.2	27	10 to 26	Pg. 21	25	NSYEC5
42	38.5	35	12	1.5	30	12 to 35	Pg. 29	25	NSYEC6
52	48.5	44	13	1.5	30	13 to 44	Pg. 36	25	NSYEC7

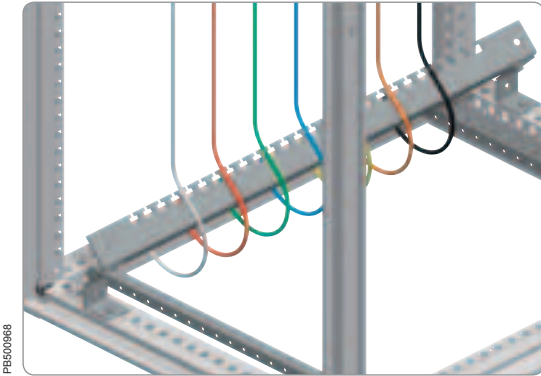
*Drill-hole for mounting.



DB300427

Cable management

Cable holding




PE500968

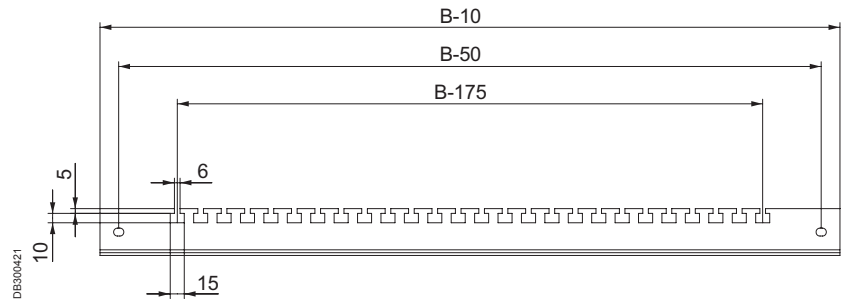
Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility			✓	✓			✓	✓					

Lower cable-guide cross-rail

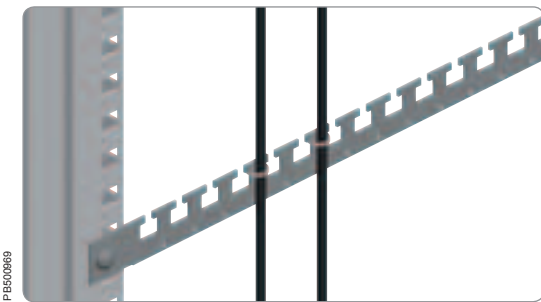
- It allows quick fixing of cables entering and exiting the enclosure.
- Depth adjustable every 25 mm.
- Spacial SF: for suitable enclosures with widths of 1200 and 1600 mm, use the adaptation kit for 2-door suitable enclosures, see page 356.
- Spacial SM: for floor-standing enclosures with a width of 1200 mm, a top/bottom mounting rail installed in central position is required.
- Spacial SFX: no adaptation piece is required for the 1200 mm suitable enclosures.
- Spacial SMX: no adaptation piece is required for the 1600 mm floor-standing enclosures.
- Material: galvanised steel.

 Composition: 1 cable-guide cross-rail and fixing elements.

Spacial dimensions (mm)	Reference
Width (B)	
600	NSYCFP60
800	NSYCFP80
1000	NSYCFP100
1200	2 x NSYCFP60
1600	2 x NSYCFP80



DB300421



PE500969




PE500970

Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility			✓	✓			✓	✓					

Cable-guide cross-rails for framework

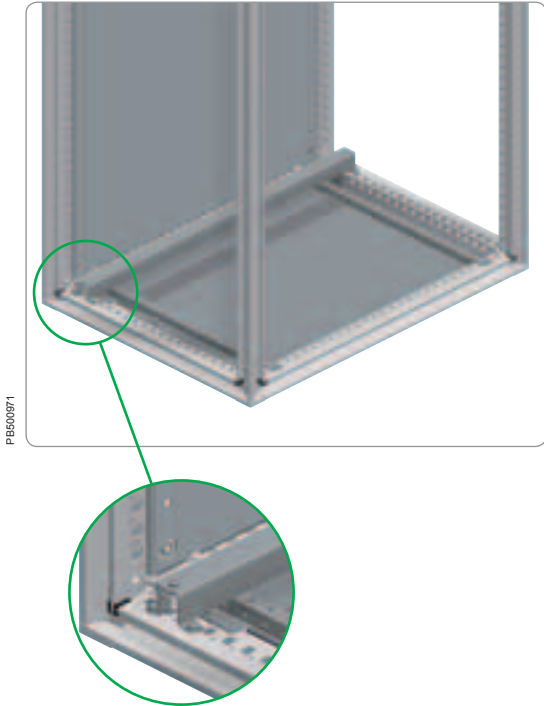
- Spacial SF and SFX: support for direct mounting on the framework, cross-rails or rails.
- Spacial SM: fixing on the bottom mounting rail, or on the floor-standing enclosure by means of adaptation rails and 40 mm universal cross-rails (1 row) in vertical position.
- Spacial SMX: fixing on the bottom mounting rail and 40 mm universal cross-rails (1 row) in vertical position.
- Support types:
 - Angle support at 90°: for vertical cable fixing.
 - Angle support at 120°: for fixing cables near the cable entry.
- Material: zinc-coated steel.

 Composition: 2 supports and fixing elements.

Nominal dimensions (mm)	Support angle	Reference
Width / Depth (B / C)	90°	NSYCFS96
	120°	NSYCFS126
600	90°	NSYCFS98
	120°	NSYCFS128
800	90°	NSYCFS96
	120°	NSYCFS126

Cable management

Cable holding




PE500971

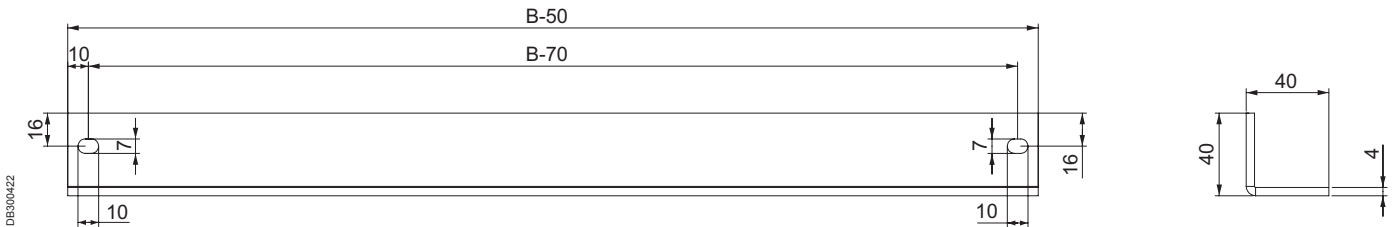
Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility			✓	✓			✓	✓					

L-rail for fixing cables

- Rail for fixing cables entering from the bottom.
- **Spacial SF and SFX:** fixing to the bottom frame, above the cable entry, or else to the plinth, using the plinth cross rails, see page 155.
- **Spacial SM and SMX:** fixing to the bottom adjustment rails, above the cable entry, or else to the plinth, using the plinth cross rails, see page 155.
- Adjustable depth with a pitch of 25 mm.
- The cables are fixed to the rail by means of metal clamps.
- Material: zinc-coated steel.
- It is not possible to mount it on a plinth cross rail.

 Supply: one rail, two mounting supports and fixing elements.

Nominal dimensions (mm)	Reference
Width	
600	NSYFCG60
800	NSYFCG80
1000	NSYFCG100
1200	NSYFCG120
1600	NSYFCG160



DE500422




PE500987

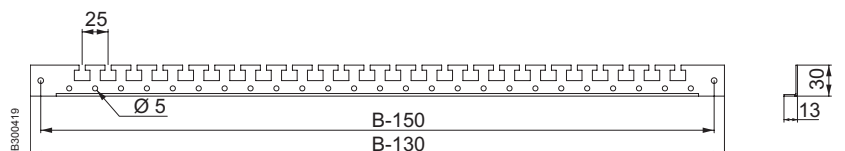
Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility			✓	✓			✓	✓					

Door cable-guide cross-rail

- Recommended for fixing cables in the internal equipment of the door.
- Direct fixing on the reinforcement frame.
- Height adjustable every 25 mm.
- Material: zinc-coated steel.

 Composition: 2 cable-guide cross-rails and fixing elements.

Spacial dimensions (mm)	Reference
Width (B)	
500	NSYSDGCR5
600	NSYSDGCR6
800	NSYSDGCR8
1000	NSYSDGCR10



DE500419

Cable management

Cable holding



PB50086

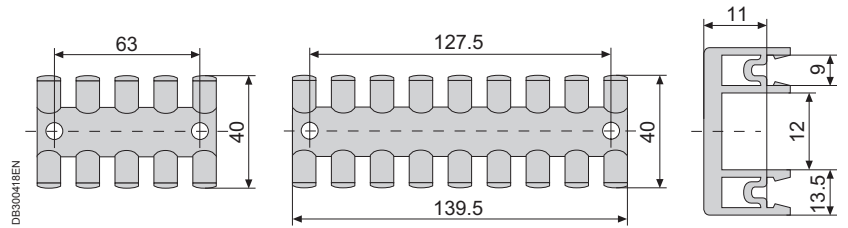
Plastic cable support

- It clips or screws onto 35 mm symmetric rails or a C-shaped rail.
- Quick and easy fixing of cables using cable ties.

Composition: 10 units.

Reference by unit. Order by multiples of 10 (10, 20, 30...).

Width (mm)	Maximum no. of cables	Reference
75	5	NSYSCCDINLG75
140	9	NSYSCCDINLG140



PB50033

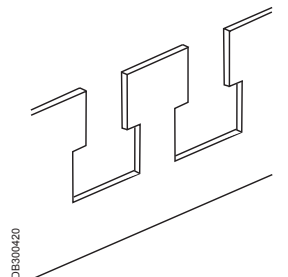
Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility	✓	✓				✓							

Door cable-guide cross-rails for wall-mounting enclosures

- They are installed on wall-mounting enclosures with heights from 400 mm for Spacial S3D/CRN and 500 mm for Spacial S3X.
- They are fixed to the door reinforcement frame by 2 self-tapping screws. The angle can be directed towards the body of the enclosure or towards the door.
- They make it easy to equip the inside of the door.
- Installation cable ties, page 455.

Composition: 2 cable-guide cross-rails and fixing elements.

Door width (mm)	Reference
400	NSYTFPCR4
500	NSYTFPCR5
600	NSYTFPCR6
800	NSYTFPCR8
1000	NSYTFPCR10



DE300420

Thorsman

Cintura Cable Ties



Description

Cable ties are used to bundle up and fix cables, conduits and tubing.

There are two types of Thorsman Cintura cable ties available;

- Made of clear polyamide, only for indoor use.
- Made of UV-stabilized black polyamide, for outdoor use.

The cable ties are self-locking. They cannot be opened and re-sealed.

The cable ties have smooth rounded edges for easier handling and safer installation.

The bent rounded tip allows easier insertion through the head of the cable tie.

Material & operative data

PA (Polyamide) 6.6, halogen-free

- Colour
- Clear

PA (Polyamide) 6.6 UV-stabilized, halogen-free

- Colour
- Black

Melting point

- 250 °C

Hot wire test (NF C 20-455)

- 650 °C / 30 s

Flammability properties

- Self-extinguishing acc. to UL 94 class V-2

Temperature range

- - 40 °C – + 85 °C

Resistance to chemical agents

- Totally resistant to:
 - motor oils,
 - greases,
 - oil products.
- Good resistance to:
 - organic bases/acids,
 - chlorinated solvents.
- Limited resistance to:
 - acids.
- No resistance to:
 - phenol.



Resistance to tearing

Tie width (mm)	Minimal resistance to tearing (kg)
2.5	8
3.6	13.6
4.8	22
7.6	54.5
8	80




Product Environmental Facts

Product Environmental Fact files are available on www.schneider-electric.com

Cable ties

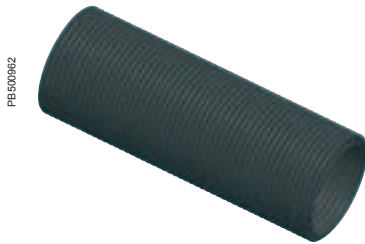
	Max. clamping	Colour	Length (mm)	Qty per package	Ref. No.
Cable ties					
Cable tie for safe and fast clamping of cables, conduits and tubing. Delivered in a sealed packaging to ensure performance, irrespective of storage conditions. Material: PA 6.6.					
Cable tie width 2.5					
110150 	Ø 18 mm	Clear Black	100	1000	ENN46902 ENN46952
	Ø 30 mm	Clear Black	120	1000	ENN46904 ENN46954
	Ø 50 mm	Clear Black	200	1000	ENN46906 ENN46956
Cable tie width 3.6					
110151 	Ø 33 mm	Clear Black	140	1000	ENN46908 ENN46958
	Ø 50 mm	Clear	200	1000	ENN46939
	Ø 76 mm	Clear Black	295	100	ENN46910 ENN46960
	Ø 102 mm	Clear	370	100	ENN46942
Cable tie width 4.8					
	Ø 43 mm	Clear Black	188	1000	ENN46914 ENN46964
	Ø 50 mm	Clear Black	200	1000	ENN46916 ENN46966
	Ø 60 mm	Clear Black	250	100	ENN46918 ENN46968
	Ø 76 mm	Clear Black	300	100	ENN46919 ENN46969
	Ø 102 mm	Clear Black	368	100	ENN46920 ENN46970
	Cable tie width 7.6				
	Ø 76 mm	Black	297	100	ENN46974
	Ø 102 mm	Clear Black	368	100	ENN46925 ENN46975
Cable tie width 9.0					
	Ø 120 mm	Black	430	100	ENN46976
	Ø 140 mm	Clear Black	530	100	ENN46927 ENN46977
	Ø 228 mm	Black	775	100	ENN46978

Identification ties

	Identification ties				
Identification tie with marker for safe and fast clamping of cables, conduits and tubing. Delivered in a sealed packaging to ensure performance, irrespective of storage conditions. Material: PA 6.6.					
Marker size 20 x 9 mm, width 2.5 mm					
P121326 	Ø 18 mm	Clear	110	100	ENN46220
Marker size 25 x 8 mm, width 2.5 mm					
P121329 	Ø 18 mm	Clear	100	100	ENN46222
Marker size 23 x 13 mm, width 4.8 mm					
P121328 	Ø 43 mm	Clear	220	100	ENN46225

Accessories

	For max. tie width	Colour	Dimensions H x W x D (mm)	Qty per package	Ref. No.
	Self-adhesive bases				
	Self-adhesive base for the fixing of cable ties. The base for max. tie width 4.8 mm is both self-adhesive and has an additional screw-fix option. Material: PA 6.6.				
P121327	3.6 mm	Clear	19 x 19 x 6	100	ENN46104
P121325	4.8 mm	Clear	26.5 x 26.5 x 8	100	ENN46105
	Cradle				
	Cradle for the fixing of cable ties. Fixed with screw or rivet. Material: PA 6.6.				
P121330	7.8 mm	Clear	22.2 x 15.9 x 9.7	100	ENN46109
	Cable tie pincers				
	Pincers intended to facilitate tightening and cutting of 6 and 9 mm installation ties. Material: Steel.				
	6 to 9 mm	-	-	1	ENN46150



Corrugated cable tube

- Corrugated tube allowing cable entry between the structure and the door.
- Free from halogens and heavy metals.
- UV protection.
- Material: low-density polyethylene (LDPE), black.



Composition: one 25 m reel.

Nominal diameter (mm)	Inner Ø (mm)	Outer Ø (mm)	Reference
17	16.6	21.2	NSYCPT17
29	29	34.5	NSYCPT29
37	36	42.4	NSYCPT37
50	47.7	54.5	NSYCPT50



Fixing support for corrugated tube

- Fixing support for corrugated tube; it offers the following mounting options:
 - Directly on the enclosure.
 - On a 19" swing rack and/or on cross-rails, by means of a fixing point.
- The supports can be assembled with one another to form sets of tubes that allow a better arrangement of the cables.
- The support is supplied with its cover.
- It allows the rotation of the tube once it is fixed on the support and prevents the corrugated tube from coming loose if subject to pulling movements.
- Material: polyamide (PA), black.



Composition: 10 units and fixing elements.

Model (n. Ø)	Reference
17	NSYCPTS17
29	NSYCPTS29
37	NSYCPTS37
50	NSYCPTS50

n. Ø = nominal diameter





PBE30095

Spiral cable duct

- Spiral strip for bundling cables.
- Allows cables to enter between the body and the door.



Supply: one 50 m reel.

Colour	Tightening range (mm)	Inner Ø (mm)	Outer Ø (mm)	Reference
Colourless	12 to 100	9	12	NSYTC12100



Cable-duct

- Rigid PVC material; with lateral through slots and rear perforations. Supplied in lengths of 2 m. RAL-7030 grey colour or RAL-5000 blue.
- Compliance with standards VDE 0660/506 and DIN 43659.
- Temperature resistance: -5 ... +60 °C.
- Behaviour in fire: material V0 according to UL 94.
- Fire resistance: 960 °C according to IEC 60695-2-1/1.
- Maximum capacity of H07.V.K 1.5 mm² flexible wire (filling factor: 0.6).

Dimensions (mm)		Color	Supply (un)	Body Reference
Width	Height			
25	25	Grey	8	AK2GD2525
25	50	Grey	8	AK2GD2550
37.5	2	Grey	8	AK2GD3750
37.5	75	Grey	8	AK2GD3775
50	50	Grey	8	AK2GD5050
50	75	Grey	8	AK2GD5075
75	50	Grey	8	AK2GD7550
75	75	Grey	8	AK2GD7575
100	75	Grey	8	AK2GD10075
125	75	Grey	8	AK2GD12575
30	35	Blue	8	AK2GA33
30	55	Blue	8	AK2GA35
30	90	Blue	8	AKEGA39
30	144	Blue	8	AK2GA315
60	55	Blue	8	AK2GA65
60	90	Blue	8	AK2GA69
60	144	Blue	8	AK2GA615



Covers for cable-duct

- Replacement covers.
- Supplied in lengths of 2 m.

For cable duct width (mm)	Colour	Supply (un)	Cover Reference
25	Grey	8	AK2CD25
37.5	Grey	8	AK2CD37
50	Grey	8	AK2CD50
75	Grey	8	AK2CD75
100	Grey	8	AK2CD100
125	Grey	8	AK2CD125
30	Blue	8	AK2CA3
60	Blue	8	AK2CA6



Retention bars

- Fixed between 2 cable-duct slats by a hinged screw, preventing cable dropout.
- They can be cut to length to adapt to the width of the ducting.
- Material: flameproof high-impact polystyrene.



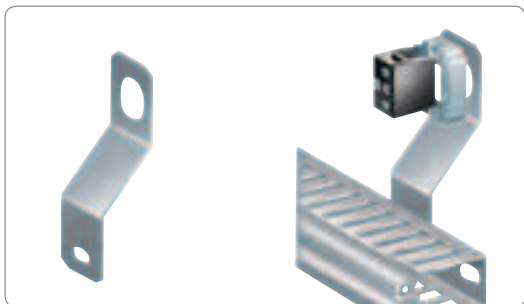
Supply: 50 units.



Reference by unit. Order by multiples of 50 (50, 100, 150...).

Reference
NSYCDRB

PE500218



Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility	✓	✓	✓	✓		✓		✓	✓			✓	

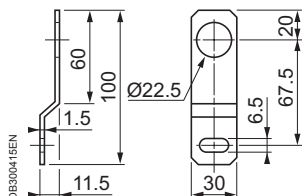
Ø 22 mm cable-duct support

- Installed on the door of the wall-mounting or floor-standing enclosure associated with Ø 22 mm elements.
- Material: treated steel.

Supply: 10 units.

Reference by unit. Order by multiples of 10 (10, 20, 30...).

Reference
NSYSPCP



PE500957



Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility			✓	✓	✓		✓	✓	✓			✓	

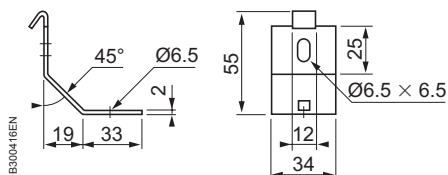
Cable-duct support on technical upright

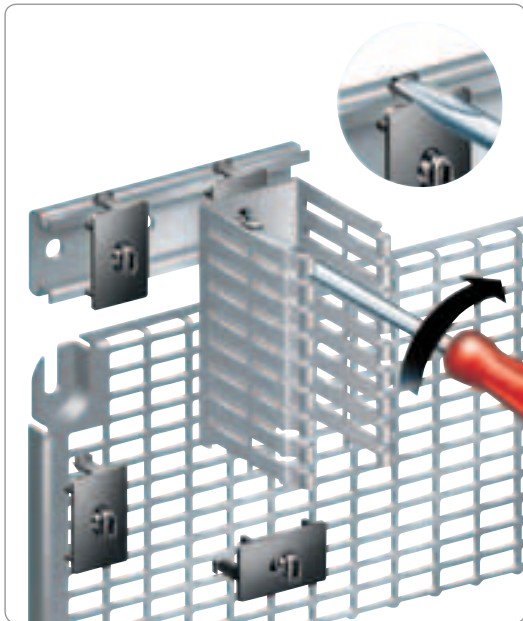
- Allows cable ducts to be installed on technical uprights, while increasing the usable surface of the equipment (up to 20% according to the width of the cable duct).
- Material: galvanised steel.

Supply: 10 units.

Reference by unit. Order by multiples of 10 (10, 20, 30...).

Reference
NSYCDS





PB500958

Plastic cable-duct support

- Clips onto the Telequick mounting plate or the 35 mm DIN rail.
- Includes a bolt for fixing the cable ducts through the 6.5 x 14 mm drill holes made in the back.
- The 2 functions, clipping and bolting, provide considerable time savings.
- Material: black polyamide. Behaviour in fire: V0 according to UL 94.
- Respects electrical insulation.



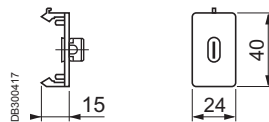
Supply: 20 units.



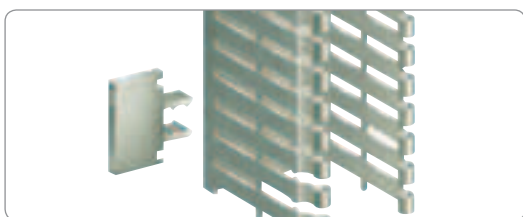
Reference by unit. Order by multiples of 20 (20, 40, 60...).

Reference

NSYSPC



PB500775



PB500959

Label frame

- In transparent plastic, clipping onto the slats of the cable ducts. Paper labels supplied.
- Material: polycarbonate.



Supply: 50 units.



Reference by unit. Order by multiples of 50 (50, 100, 150...).

Reference

NSYCDL



PB500960

Insulated-head screw

- M5 x 10 mm slotted hexagonal head.
- Respects electrical insulation.



Supply: 100 units.



Reference by unit. Order by multiples of 100 (100, 200, 300...).

Reference

NSYSM10M5HP



PE500774

Lyre-shaped clamps

- Clip-on clamps designed for direct installation on the 19" racks, Telequick mounting plates and symmetric DIN rails.



Supply: 10 units.

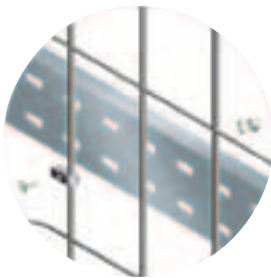


Reference by unit. Order by multiples of 10 (10, 20, 30...).

Use	Reference
For Telequick mounting plates and 19" racks	AK2LA39
For symmetric DIN rail 90 x 2.5 mm cables	AK2LD01
For symmetric DIN rail 75 x 2.5 mm cables	AK2LD02



PE500961



Steel wired cable tray

- Mounting on the cable supports.
- Made from zinc-coated steel wire.
- Dimensions (2 types):
 - 1845 x 200 x 35 mm.
 - 1845 x 200 x 54 mm.



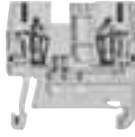
Supply: 1 vertical steel wired cable tray and fixing elements.

Necessary depth (mm)	Reference
35	NSYBPC3
70	NSYBPC5

Terminal blocks accessories



FB501690



Spring technology **468**

Screw technology **470**

General

Depending on the application, all electrical equipment or installations require the connection of cables or wires in order to ensure the flow of very low or very high currents.

There are several types of connection:

- spring terminal connection,
- screw terminal connection,
- push-in connection.

Spring technology terminal blocks

Presentation of terminal blocks AB1 RRN

AB1 RRN spring technology terminal blocks use the most cost effective connection technique in the market. This technique significantly reduces wiring time compared with screw technology. It also eliminates the need for regular re-tightening.

Spring technology is a type of connection that requires no maintenance and ensures the separation of mechanical and electrical functions.

This technology allows the connection not only of flexible conductors and of “flexible conductors with cable ends”, but also of solid conductors with nominal c.s.a. of 0.13 mm² to 35 mm².

The material used (polyamide 6.6) provides better resistance at high temperatures. The inflammability class of these products is V0 according to UL 94.

Advantages of this technology

Spring technology offers the following advantages:

- Resistance to vibration and jolts.
- Wide range of cabling c.s.a.
- Possibility of distributing the potential with use of commoning links.
- Several surfaces available for marking.
- Possibility of testing all the terminal blocks.
- Numerous certifications.

Screw technology terminal blocks

Presentation

AB1 VV screw technology terminal blocks are components which are well-known and widely used throughout the world and are suitable for the vast majority of connection applications, due to their wide range of functions and connection possibilities.

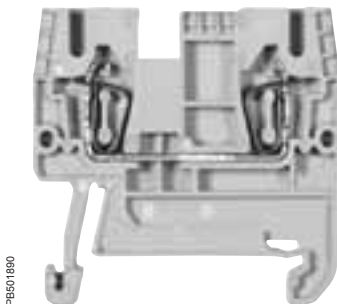
AB1 VV terminal blocks ensure quality, safety and the operational availability of equipment. In addition to these advantages, they optimise the setting up and operation of installations, due to their simplicity and integrated functions.

The material used (polyamide 6.6) provides better resistance at high temperatures. The inflammability class of these products is V0 according to UL 94.

Advantages of this technology

Screw technology offers the following advantages:

- Numerous connection functions.
- Wide range of cabling c.s.a.
- Several surfaces available for marking.
- Test facility.
- Numerous certifications.



PB501890

Terminal block type AB1 RRN



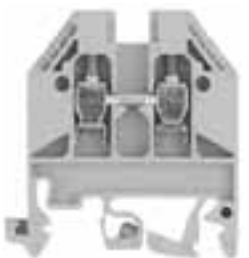
PB501891

Simplified installation



PB501892

Principle of spring technology



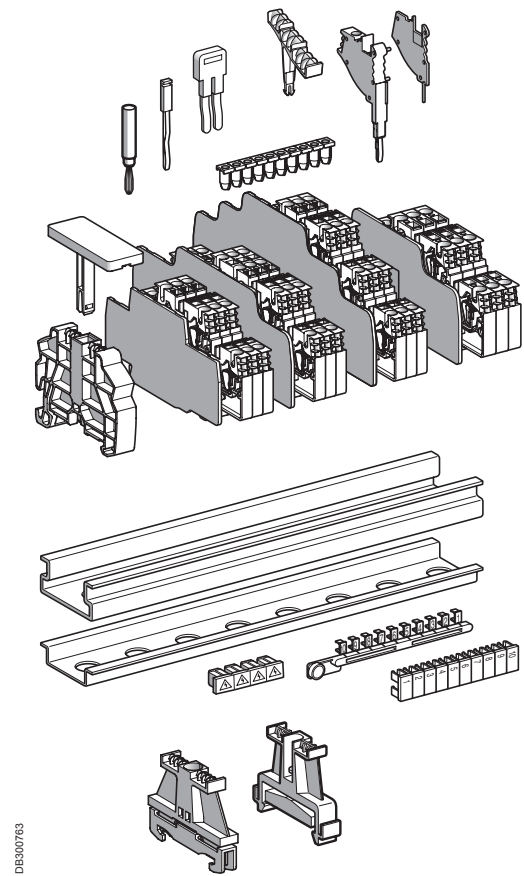
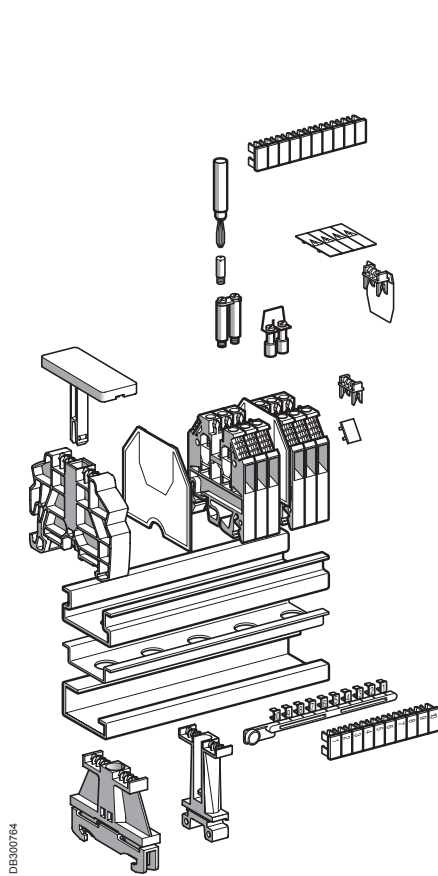
PB501893

Terminal block type AB1 VV



PB501894

Principle of screw technology

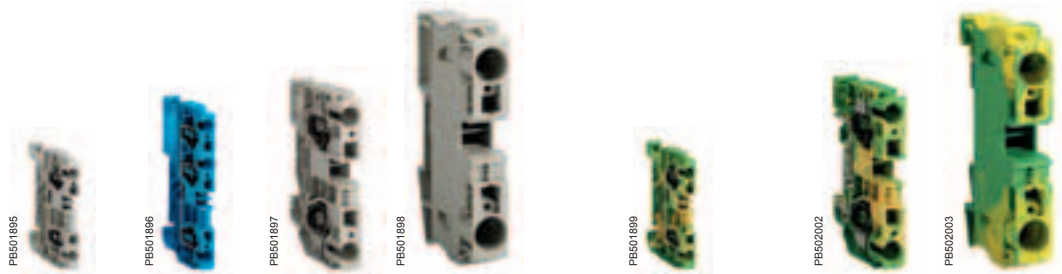


General characteristics

Terminal blocks	Technology		Spring	Insulation displacement	Screw
	Type		AB1 RRN...	AB1 AA...	AB1 VV... / B... / D... / E... / F... / NEN / S... / T...
Component materials	Insulating case			Polyamide 6.6	
	Connector and screw			Zinc chromated steel	
	Commoning link			Copper or brass	
Electrical and thermal characteristics of insulating case (polyamide 6.6)					
Dielectric strength	Conforming to VDE 0303-T21 and IEC 60243-1	kV/mm		80/65	
Dielectric loss Tan coefficient at 1 MHz	Conforming to VDE 0303-T4 and IEC 60250			0.01	
	Dielectric constant at 1 MHz			3.7	
Resistivity	Conforming to VDE 0303-T30 and IEC 60093	$\Omega \cdot \text{cm}$		10^{12}	
Surface resistance	Conforming to VDE 0303-T30 and IEC 60093	Ω		10^{10}	
Creep resistance	Conforming to VDE 0303-T30 and IEC 60093	CTI (kB)		500 (> 400)	
Ambient air temperature around the device	Conforming to VDE 0304-T21 and IEC 60216-1	$^{\circ}\text{C}$		Operation: -40...+130	
Inflammability class	Conforming to UL 94	Class/mm thickness		V-0 / 0.8	

Terminal blocks

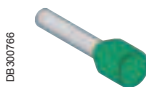
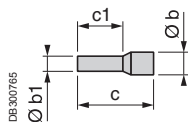
Spring technology



Nominal c.s.a (mm²)		2.5	4	6 to 16	35	2.5	4	6 to 16	35
Number of poles	1 - 1 x 1	AB1RRN235U2GR	AB1RRN435U2GR	AB1RRN635U2GR AB1RRN1035U2GR AB1RRN1635U2GR	AB1RRN3535U2GR	AB1RRNTP235U2	AB1RRNTP435U2	AB1RRNTP635U2 AB1RRNTP1035U2 AB1RRNTP1635U2	AB1RRNTP3535U2
	1 - 1 x 2	AB1RRN235U3GR	AB1RRN435U3GR	AB1RRN635U3GR AB1RRN1035U3GR AB1RRN1635U3GR	-	AB1RRNTP235U3	AB1RRNTP435U3	AB1RRNTP635U3 AB1RRNTP1035U3 AB1RRNTP1635U3	-
	1 - 2 x 2	AB1RRN235U4GR	AB1RRN435U4GR	-	-	AB1RRNTP235U4	AB1RRNTP435U4	-	-
	1 - 2 x 4	-	-	-	-	-	-	-	-
	1 - 3 x 3	-	-	-	-	-	-	-	-
	2 - 1 x 1	AB1RRNP235UNO	-	-	-	-	-	-	-
	2 - 1 x 2	-	-	-	-	-	-	-	-
	3 - 1 x 1	-	-	-	-	-	-	-	-
Colours	grey (*GR)	•	•	•	•	-	-	-	-
	blue (*BL)	•	•	•	•	-	-	-	-
	green/yellow	-	-	-	-	•	•	•	•
	black (*NO)	•	-	-	-	-	-	-	-
Mounting on	35 mm	•	•	•	•	•	•	•	•
	35 mm	•	•	•	•	•	•	•	•

Single cable ends

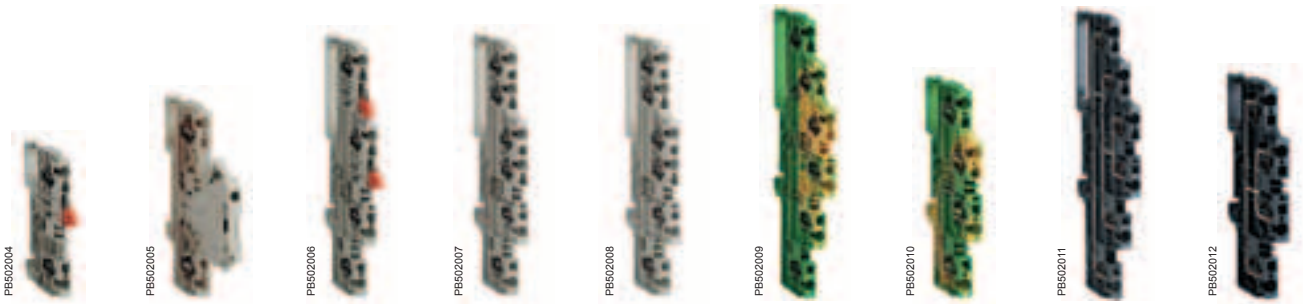
mm²	Øb	Øb1	c
0.5	3	1.4	13
0.75	3.1	1.6	13
1	3.4	1.8	13.5
1.5	4	2.1	13.5
2.5	4.6	2.7	14.5



Type		Single cable ends Sold in lots of 10 x 100			
Packaging		Individual or "strings" of bags	Dispenser pack	Strips of 50 in bag	
Conductor c.s.a. in mm²	0.5	White	DZ5CE005D	AZ5CE005D	DZ5CEB005D
	0.75	Grey	DZ5CE007D	AZ5CE007D	DZ5CEB007D
	1	Red	DZ5CE010D	AZ5CE010D	DZ5CEB010D
	1.5	Black	DZ5CE015D	AZ5CE015D	DZ5CEB015D
	2.5	Blue	DZ5CE025D	AZ5CE025D	DZ5CEB025D

Terminal blocks

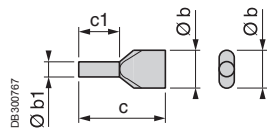
Spring technology



	2.5	4	2.5	2.5	4	2.5	4	2.5	4
AB1RRNSC235U2	AB1RRNSF435UGR	-	-	-	-	-	-	-	-
AB1RRNSC235U3	-	-	-	-	-	-	-	-	-
AB1RRNSC235U4	-	-	-	-	AB1RRNETP235U4	AB1RRNETP435U4	AB1RRNETV235U4	AB1RRNETV435U4	-
-	-	-	-	-	AB1RRNETP235U6	-	AB1RRNETV235U6	-	-
-	-	-	-	-	AB1RRNETP235T6	-	AB1RRNETV235T6	-	-
-	-	AB1RRNSCE235U4	AB1RRNET235U4	AB1RRNET435U4	-	-	-	-	-
-	-	AB1RRNSCE235U5	AB1RRNET235U6	-	-	-	-	-	-
-	-	-	AB1RRNET235T6	-	-	-	-	-	-
•	•	•	•	•	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	•	•	-	-	-
-	-	-	-	-	-	-	•	•	•
•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•

Double cable ends

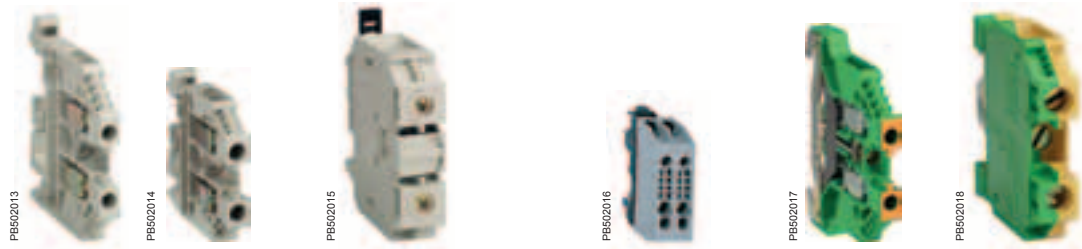
mm ²	Øb	Øb1	c	c
0.75	2.8 x 5	1.8	15	8
1	3.4 x 5.4	2.05	15	8
1.5	3.6 x 3.6	2.3	15	8
2.5	4.2 x 7.8	2.9	18.5	10



Type		Double cable ends Sold in lots of 5 x 100	
Packaging		Dispenser pack	
Conductor c.s.a. in mm ²	2 x 0.75	Grey	AZ5DE007D
	2 x 1	Red	AZ5DE010D
	2 x 1.5	Black	AZ5DE015D
	2 x 2.5	Blue	AZ5DE025D

Terminal blocks

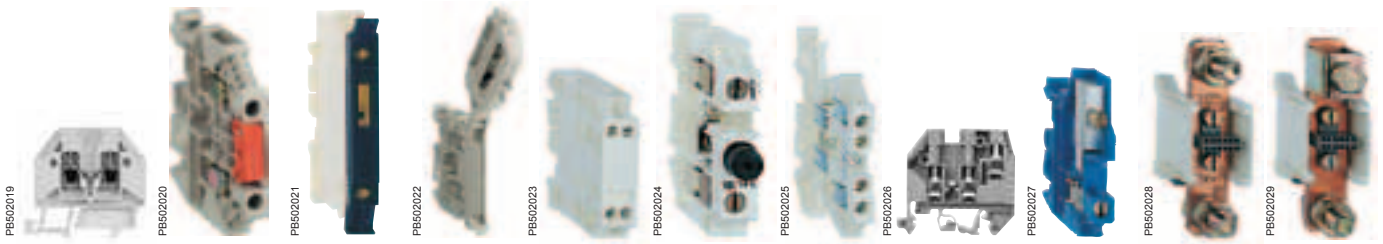
Screw technology



Nominal c.s.a (mm²)		2.5	4	6	10 & 16	35 to 150	4	6	16 & 35	2.5	4	6 to 35
Number of poles	1 - 1 x 1	AB1VV235U	AB1VV435U	AB1VV635U	AB1VVN1035U AB1VVN1635U	AB1VVN3535U AB1VVN7035U AB1VVN15035U	-	-	DB6ED01 DB6FD01	AB1TP235U	AB1TP435U AB1TP215	AB1TP635U AB1TP1035U AB1TP1635U
	2 - 1 x 1	-	-	-	-	-	DB6CD102	DB6DD102	-	-	-	-
	3 - 1 x 1	-	-	-	-	-	-	DB6DD103	-	-	-	-
	5 - 1 x 1	-	-	-	-	-	DB6CD105	-	-	-	-	-
	10 - 1 x 1	-	-	-	-	-	DB6CD110	-	-	-	-	-
	1 - 1 x 2	-	-	-	-	-	-	-	-	-	-	-
	1 - 2 x 2	-	-	-	-	-	-	-	-	-	AB1ETNTP435U AB1ET435UTP	-
	3 - 1 x 1	-	-	-	-	-	-	-	-	-	•	-
Colours	grey	•	•	•	•	•	•	•	•	-	-	-
	blue (*BL)	•	•	•	•	•	-	-	-	-	-	-
	greenn/yellow	-	-	-	-	-	-	-	-	•	•	•
	orange (*GE)	•	•	•	-	-	-	-	-	-	-	-
	red (*RO)	-	•	-	-	-	-	-	-	-	-	-
	green (*VE)	-	•	-	-	-	-	-	-	-	-	-
	white (*BLA)	-	•	-	-	-	-	-	-	-	-	-
	black (*NO)	-	•	-	-	-	-	-	-	-	-	-
Mounting on	35 mm ㄣ	•	•	•	•	•	•	•	•	•	•	•
	35 mm ㄥ	•	•	•	•	•	•	•	•	•	•	•
	35 mm ㄣ	•	•	•	•	•	•	•	•	•	•	•
	tele-quick	-	-	-	-	-	•	•	•	-	-	-
	15 mm ㄣ	-	-	-	-	-	-	-	-	-	•	-

Terminal blocks

Screw technology



	2.5 & 4	4	4	4	2.5	10	4	4	4 to 16	95 to 240	95 to 240
	AB1VV215 AB1VV415	AB1SC435U	AB1FUSE435U5X AB1FUSE435U6X	AB1SF435U	-	AB1FU10135U AB1FU10335U AB1FU10435U	-	-	AB1NEN435U AB1NEN1035U AB1NEN1635U	AB1BB9535 AB1BB18535 AB1BB24035	AB1BC9535 AB1BC15035 AB1BC24036
	-	-	-	-	AB1D11435U	-	AB1ET435U	AB1ETN235U	-	-	-
	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	AB1ETN335U	-	-	-
	-	-	-	-	-	-	AB1ET435U2	AB1ETN435U	-	-	-
	-	-	-	-	-	-	AB1ET3235U	-	-	-	-
	•	•	•	•	•	•	•	•	-	•	•
	•	•	-	-	-	-	-	-	•	-	-
	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	•	-	-	-	-
	-	-	-	-	-	-	•	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	•	-	-	-	-
	-	•	•	•	•	•	•	•	•	•	•
	-	•	•	•	•	•	•	•	•	•	•
	-	•	•	•	•	•	•	•	•	-	-
	-	-	-	-	-	-	-	-	-	-	-
	•	-	-	-	-	-	-	-	-	-	-

Lighting and power socket accessories



DB404856

Lighting and power socket accessories

Contents

PBS01706



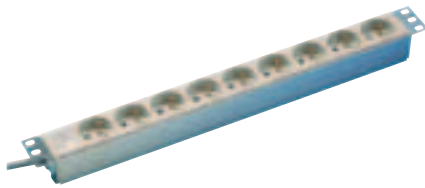
Current distribution accessories **474**

Multi-fixing lamp **475**

Cost-effective lamp **477**

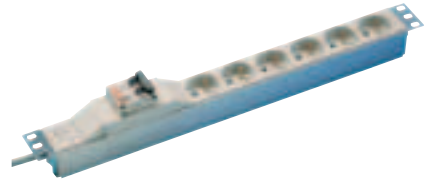
Portable lamp **479**

PB500980



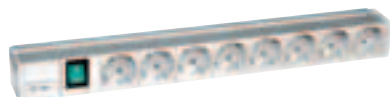
NSYAPU19F9

PB500981



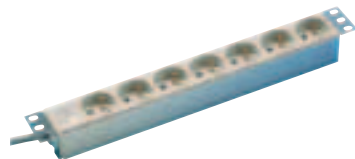
NSYAPU19F6CB

PB500982



NSYAPU19F8S

PB500983



NSYAPU19F7FA

Electrical power distribution rails

- Sockets positioned at 35°, 2P + E, AC 250 V 16 A/3680 W with child protection.
- UTE version according to NFC61314, IEC60884 and NBN61112-1 standards.
- VDE version according to DIN49 440, VDE0620-1, IEC60884 and UNE20315 standards.
- Anodised-aluminium rail with a height of 1 U.
- Direct fixing to the 19" rack or framework uprights by stainless-steel brackets, supplied.
- Material: fiberglass polyamide plastic with fire resistance to 850 °C.
- 3-m power cord (3 x 1.5 mm²) type H05 VVF, equipped with an overmoulded 2P + E, 250 V, 10/16 A plug according to VDE0620-1, IEC60884, UNE20315 and NBN61112-1 standards.

Number of sockets	Width (mm)	Depth (mm)	Type	UTE	VDE
3	10"	44	A	NSYAPU10F3	NSYAPU10S3
3	10"	44	B	NSYAPU10F3S	NSYAPU10S3S
9	19"	44	A	NSYAPU19F9	NSYAPU19S9
8	19"	44	B	NSYAPU19F8S	NSYAPU19S8S
6	19"	76	C	NSYAPU19F6CB	NSYAPU19S6CB
7	19"	44	D	NSYAPU19F7FA	NSYAPU19S7FA
6	19"	44	E	NSYAPU19F6FT	NSYAPU19S6FT
6	19"	76	F	NSYAPU19F6F	NSYAPU19S6F
7	704	44	B	NSYAPUF7S	NSYAPUS7S
10	968	44	B	NSYAPUF10S	NSYAPUS10S
12	1232	76	C	NSYAPUF12CB	NSYAPUS12CB

- A: Rail of sockets without protection.
- B: Rail of sockets with recessed green LED switch.
- C: Rail of sockets with bi-polar magnetothermal circuit-breaker C16 type C60N 16 A curve C.
- D: Suppression filter for interferences of up to 30 MHz, nominal frequency 400 Hz, attenuation 20 dB per decade.
- E: Interference suppression filter and surge arrester, 6.5 kA short-circuit protection, protection level Up 1.5 kV, voltage test Uoc 5 kV Uc 255 V, 50 Hz. Operating LED, interferences of 30 MHz, nominal frequency 400 Hz, attenuation 20 dB per decade.
- F: Differential protection 30 mA, 2 poles 25 A NC type.



PB500984

NSYAPUB



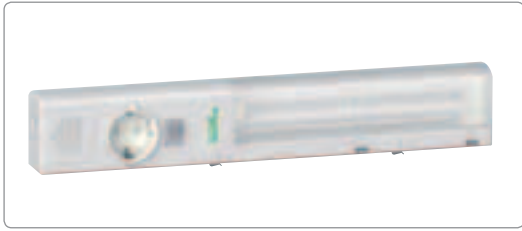
PB500985

NSYAPUBV

Fixing brackets

- For vertical assembly of distribution rails.
- Batch of 2 brackets, adaptable to all rails, delivered with fixings.
- Material: treated steel, thickness 10/10 mm.
- Fixing to the ends of the rail: reference **NSYAPUBV**.
- Fixing with an orientation of 90°: reference **NSYAPUB**.

Fixing	Reference
Orientation of 90°	NSYAPUB
Ends of the rail	NSYAPUBV



PB501706

Multi-fixing lamp

This lamp is designed to optimise the space and accessibility of the enclosure, as well as having four fixing options as standard in each model.

Four fixing options as standard

Four fixing modes allow it to be installed in practically any enclosure on the market. Quick fixing saves installation time and makes it easier to select the best location within the enclosure.

Fixing modes:

- Fixing by sliding brackets, with a pitch of 25 mm, directly on the structure profiles of the Spacial SF, SFX, SM, SMX, SD and SDX enclosures and on all uprights or cross-rails with the same cut-outs.
- Direct fixing on DIN rails by means of two easy-mounting clips.
- Magnetic fixing which takes less than 3 seconds to assemble, providing the most versatile fixing in any metal enclosure*.
- Direct fixing by screws, allowing it to be installed practically anywhere.

* Does not apply to stainless-steel enclosures.

Socket independent from the door switch

The lamp has five connection terminals which support the use of a door switch to control the light, without the socket of the lamp being disconnected when the door is closed. This means that the socket can be used with its nominal current indefinitely without overloading the door switch.

Protected switch

The switch is semi-recessed to avoid being damaged during enclosure assembly or maintenance. The use of a door switch is optional. No door switch is required for the version with presence detector, which results in savings on the cost of the switch, cable and installation.



PB501707

Direct fixing to the vertical rail.



PB501708

Direct fixing to the horizontal rail.



PB501709

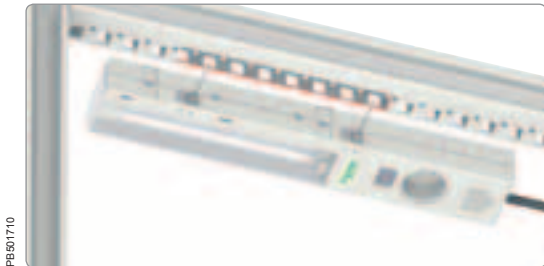
Fixing to 19" and 1 U rack.



ENVIRONMENTALLY FRIENDLY

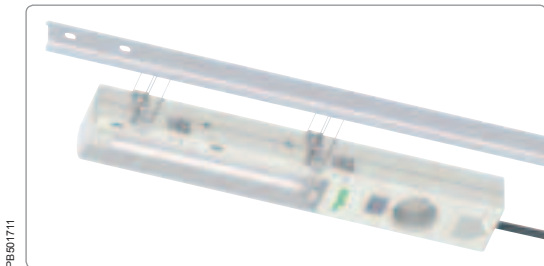


TIME SAVING



PB501710

Fixing by sliding brackets.



PB501711

Fixing to DIN rail.



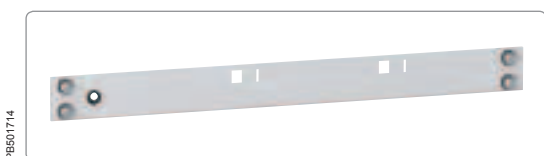
PB501712

Magnetic fixing.



PB501713

Fixing by screws.



PB501714

Technical data

- Fluorescent base: 2 G11.
- Built-in switch.
- Power consumption: 11 W.
- Frequency: 50/60 Hz.
- Luminosity: 900 Lm.
- Colour: RAL 7035.
- Light temperature: 4500 K.
- Fluorescent tube service life: 8000 h.
- Connection: max. 2.5-mm² terminals, with cable tie.
- Casing: plastic, UL94-V0.
- Degree of protection: IP 20.
- Degree of insulation: class I - lamps with socket.
class II - lamps without socket.
- Compliant with RoHS and Reach.
- Operating/storage temperature: -16 °C to +65 °C (-3 °F to +149 °F).
-40 °C to +70 °C (-40 °F to +158 °F).

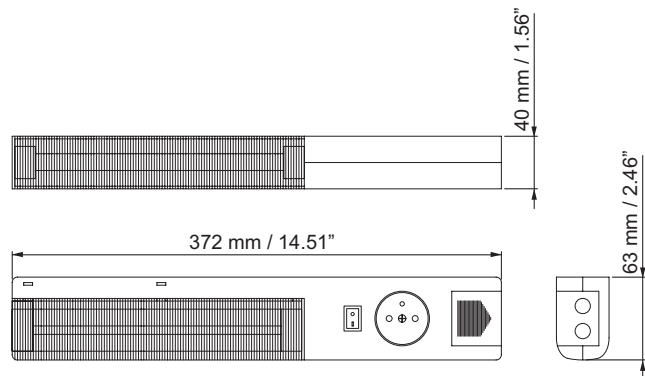
Standards:

- IEC 61000-6-4.
- UL508A: for installation in enclosures that comply with standard UL508A.
- UL94: for plastic components.



Supply: 1 lamp and fixing elements.

DB300721



Description	Voltage	Socket	Reference
Multi-fixing with socket	230 V	Schuko	NSYLAMCS
Multi-fixing with socket	230 V	UTE	NSYLAMCF
Multi-fixing with socket	230 V	British	NSYLAMCB
Multi-fixing with socket	120 V	UL-CSA	NSYLAMCU
Multi-fixing without socket	230 V	-	NSYLAMC
Multi-fixing with presence detection	230 V	-	NSYLAMCD

Rack for VDI

1 U, 19" rack. For lamp installation in VDI enclosures. Supplied with fixing elements.

Description	Reference
1 U 19" rack for lamp	NSYLAM1U



PB501715



PB501716



PB501717

Figure 1.



PB501718

Figure 2.

Cost-effective lamp

These lamps offer excellent value for money and can adapt to any installation.

Small size

Designed for installation in the smallest wall-mounting enclosures or the largest assemblies of suitable enclosures.

Its compact size allows it to be fixed to the frame of the enclosure door without impeding access to the equipment or enclosure maintenance (Fig. 1).

Interconnection

The lamps can be interconnected easily using a 1-m cable supplied as standard, and they can be installed in different locations of the same enclosure or of different enclosures, up to a maximum of 10 lamps (Fig. 2).

This reduces installation time and makes it possible to control several lamps with a single door switch.

Two fixing options as standard

The two fixing modes allow it to be installed in practically any enclosure on the market.

Quick fixing saves installation time and makes it easier to select the best location within the enclosure.

Fixing modes:

- Fixing by adapter brackets: designed to enable fixing on any structural rail of the Spacial SF, SFX, SM, SMX, SD and SDX enclosures and on all uprights or cross-rails with the same cut-outs. Also suitable for fixing in polyester enclosures and other surfaces in which the brackets can be screwed.
- Magnetic fixing: provides the most versatile fixing in any metal enclosure*.

* Does not apply to stainless-steel enclosures.



ENVIRONMENTALLY FRIENDLY



TIME SAVING



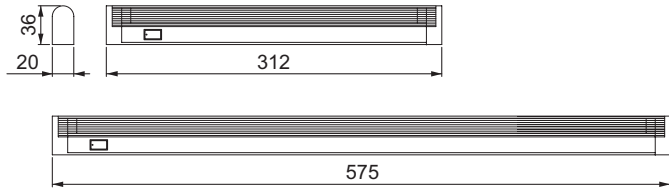
PB501719

Technical data

- Fluorescent: T5.
- Built-in switch.
- Colour: RAL 9002.
- Light temperature: 4500 K.
- Fluorescent tube service life: 8000 h.
- Power cable: 3 m with connector and no plug at the end.
- Interconnection cable: 1 m with connectors.
- Casing: plastic, UL94-V0.
- Degree of protection: IP 20.
- Degree of insulation: class I.
- Compliant with RoHS and Reach.
- Operating/storage temperature: $-16\text{ }^{\circ}\text{C}$ to $+65\text{ }^{\circ}\text{C}$ ($-3\text{ }^{\circ}\text{F}$ to $+149\text{ }^{\circ}\text{F}$).
- $-40\text{ }^{\circ}\text{C}$ to $+70\text{ }^{\circ}\text{C}$ ($-40\text{ }^{\circ}\text{F}$ to $+158\text{ }^{\circ}\text{F}$).

Standards:

- IEC 61000-6-4.
- UL94.



PB501720

DE300722

Interconnection

The lamps can be interconnected and use a single power source:

- 8 W lamps: max. 10 lamps interconnected.
- 14 W lamps: max. 5 lamps interconnected.



Supply: 1 lamp and fixing elements.



PB501721



PB501722

Power	Voltage	Frequency	Lumens*	Dimensions		Reference
				(mm)	(in)	
8 W	220 V	50-60 Hz	400 lm	213 x 20 x 36	12.17 x 0.78 x 1.40	NSYLAM8T5
14 W	220 V	50-60 Hz	650 lm	575 x 20 x 36	22.43 x 0.78 x 1.40	NSYLAM14T5

* Approximate values.



PB501723

Portable lamp

Double function:

- As an internal enclosure lamp.
- As a maintenance lamp.

Two fixing options as standard

Fixing by screws or adhesive. Provides the most versatile fixing in any enclosure.

Winding cable

The 3-m cable can be wound onto the base of the lamp, avoiding accidents and inconvenience while not in use.

Switch

Easy-access switch in the handle of the lamp, recessed to avoid accidentally switching the lamp off.



PB501724

Fluorescent

Compact 4-pin fluorescent lamp. Easy to find replacements on the market.

Technical data

- Compact fluorescent base: G24d.
- Built-in recessed switch.
- Colour: RAL 7035.
- Light temperature: 4500 K.
- Fluorescent tube service life: 8000 h.
- Power cable: 3 m with connector and male plug at the end.
- Casing: plastic, UL94-V0.
- Degree of protection: IP 20.
- Degree of insulation: class II.
- Compliant with RoHS and Reach.
- Operating/storage temperature: $-20\text{ }^{\circ}\text{C}$ to $+50\text{ }^{\circ}\text{C}$ ($-4\text{ }^{\circ}\text{F}$ to $+122\text{ }^{\circ}\text{F}$), $-45\text{ }^{\circ}\text{C}$ to $+70\text{ }^{\circ}\text{C}$ ($-40\text{ }^{\circ}\text{F}$ to $+158\text{ }^{\circ}\text{F}$).

Standards:

- IEC 61000-6-4.
- UL94.

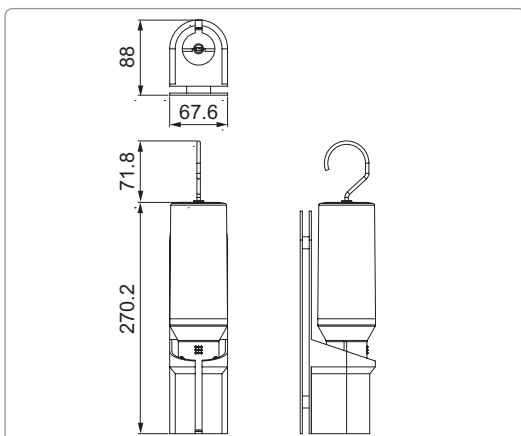


Supply: 1 lamp and fixing elements.



PB501725

Description	Voltage	Reference
Portable lamp with ON/OFF switch	230 V	NSYLAMP0RT



DE300722

Door accessories



DB40480

Door accessories

Contents

PB500188



Document pocket

483

PB500223




Door retainer

485



Door switch for floor-standing enclosures

- The switch is fixed to the structure of the enclosure.
- Drilled M20 cable entry for cable gland.
- NC + NO contact, 10 A/500 V.

 Supply: 1 door switch and fixing elements.


Reference	For ranges
NSYDCM20	SF & SFX
NSYMDCM20	SM



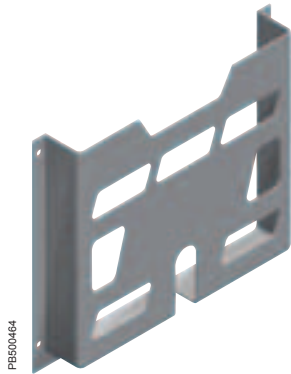
Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility	✓	✓				✓							

Door switch for wall-mounting enclosures

- Switch/commutator unit equipped with support and fixings for direct fixing to the enclosure.
- Can be used to control lighting, air-conditioning units, etc.
- It is not compatible with installing the 19" swing rack and the internal door.
- NC + NO contact, 10 A/500 V.

 Supply: 1 door switch and fixing elements.

Reference
NSYINLCRN



Plastic document pocket

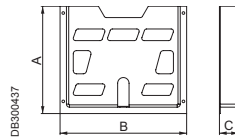
- Fixing by adhesive tape.
- Formats: A5 and A4.
- Material: polystyrene (PS), RAL-7035 grey.



Supply: 1 plastic document pocket.

Document format (mm)	A	B	C	Reference
A5	174	188	22	NSYDPA5
A4	230	248	22	NSYDPA4
A4	234	278	40	NSYDPA44 (1)
A3	258	476	35	NSYDPA3

(1) Not compatible with 19" chassis or modular distribution.



Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility			✓	✓			✓	✓					

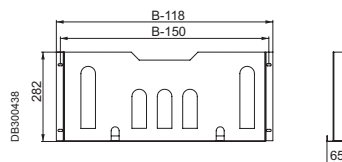
Metal document pocket

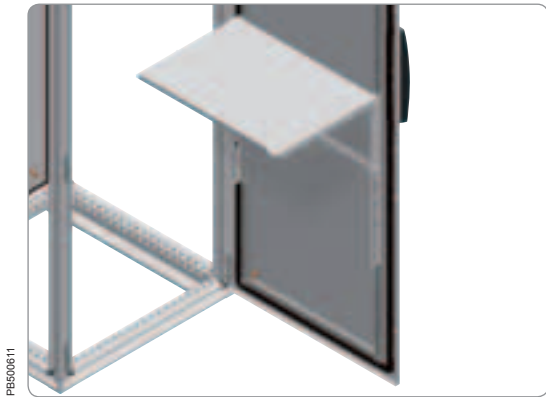
- Direct fixing on the door reinforcement frame.
- Height adjustable in steps of 25 mm.
- Material: steel.
- Finish: painted with epoxy-polyester resin, RAL-7035 grey.



Supply: 1 metal document pocket and fixing elements.

Enclosure dimensions (mm)	Reference
Width (B)	
600	NSYSDP6M
800	NSYSDP8M





PB500611



PB500612

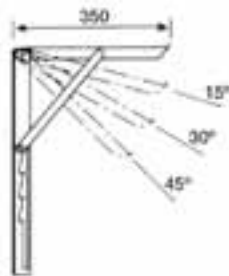
Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility			✓	✓			✓	✓					

Folding support tray

- Adjustable horizontal support for laptop computers, documents or any other elements.
- Mounting on the door reinforcement frame.
- It can also be mounted on door cross-rails, see page 454.
- Height adjustable in steps of 25 mm.
- In 1000-mm-wide enclosures, any size can be mounted using door cross-rail ref. **NSYSDCR10**.
- 4 positions: 45°, 60°, 75° and 90°.
- Material: steel.
- Thickness: 1.5 mm.
- Finish: painted with polyester-epoxy resin, RAL-7035 grey.
- Maximum load: 30 kg.

Supply: 1 folding support tray and fixing elements.

Spacial dimensions (mm)	Reference
Width	
500	NSYSDT5
600	NSYSDT6
800	NSYSDT8



DB300439

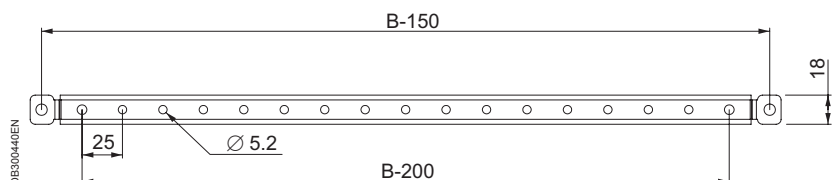
Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility			✓	✓			✓	✓					

Door cross rails

- Direct mounting cross rails on the profiles of the reinforcement frame of the door.
- Adjustable height with a pitch of 25 mm.
- Material: galvanised steel.
- Thickness: 2 mm.

Supply: two cross rails and bag of fixings.

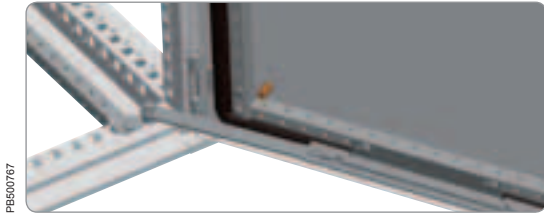
Nominal dimensions (mm)	Reference
Width (B)	
400	NSYSDCR4
500	NSYSDCR5
600	NSYSDCR6
800	NSYSDCR8
1000	NSYSDCR10



DB30040EN



PB500491



PBS00767



PBS00508

Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility			✓	✓									

Floor-standing door retainer

- Door blocker at the opening limit.
- It is fixed directly to the front frame of the enclosure and to the reinforcement frame of the door.
- It can be installed on doors that open both to the right and to the left.



Supply: door stop and fixing elements.

Door stop model	Reference	For enclosures	Limit
Mechanical	NSYSFMDR	Spacial SF	90° and 120°
	NSYSMDR	Spacial SM	90°
Pneumatic	NSYSFNDR	Spacial SF	120°
	NSYSMNDR	Spacial SM	90° and 120°

PB500223



Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility	✓	✓											

Wall-mounting door retainer (steel)

To block the door in the open position.

- It is installed on enclosures with heights from 400 mm and widths from 300 mm.
- Earthing connection of the enclosure by means of the reinforcement rail.
- Earthing accessories supplied with the enclosure (earth-connection wire to be ordered separately), see page 492.
- Warning: cannot be installed on 19" mounting plates or on enclosures equipped with internal door.

Description	Reference
Steel door retainer for Spacial wall-mounting steel enclosure	NSYAEDRSCST

PB500953



Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility		✓											

Wall-mounting door retainer (polyamide)

To block the door in the open position.

- It is installed on the perforated rails of the enclosure doors at the required height.
- Material: polyamide 6 (PA6).
- It is only installed on enclosures with a height of less than 400 mm (no perforated rails).
- It cannot be installed in the Spacial CRN enclosures.

Description	Reference
Door-holding system for Spacial wall-mounting steel enclosure	NSYAEDRS3DPA6



See also
the accessories

Support for cable ducting
with diameter 22
page 461

Door cable-guide
cross-rail
page 454

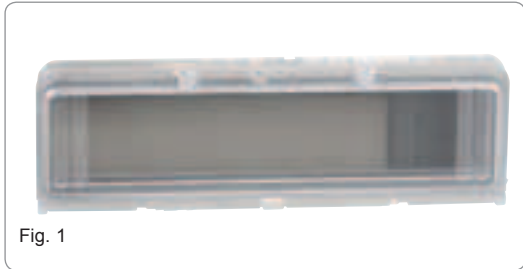


Fig. 1

PE500694



Fig. 2

PE500695

Window for modular equipment, IP 65

They provide viewing and access to the inside of the enclosure while keeping the IP 65 protection degree. Made from transparent polycarbonate.



Supply: 1 window.

N.° of modules	Fig. n.°	A	B	C		Reference	
				Low cover	High cover	Low cover	High cover
2	1	78	60	15	25	NSYVA272M	NSYVA272MA
4	1	78	95	15	25	NSYVA274M	NSYVA274MA
6	1	78	130	15	25	NSYVA276M	NSYVA276MA
8	1	78	165	15	25	NSYVA278M	NSYVA278MA
10	1	78	200	15	25	NSYVA2710M	NSYVA2710MA
12	1	78	235	15	25	NSYVA2712M	NSYVA2712MA
16	2	195	165	13	-	NSYVA2716M	-
24*	2	196	235	13	-	NSYVA2724M	-
36*	2	248	235	13	-	NSYVA2736M	-
51**	2	248	325	13	-	NSYVA2751M	-

* In rows of 12 modules mounted vertically.

** In rows of 17 modules mounted horizontally.

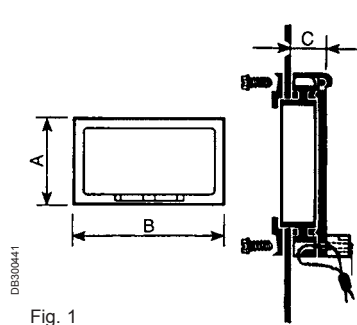


Fig. 1

DB300441

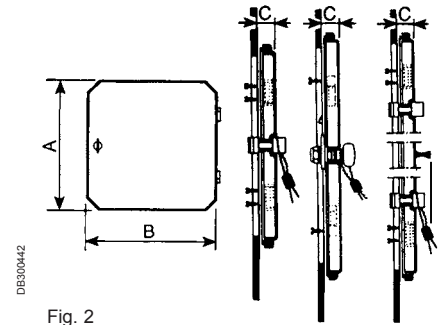
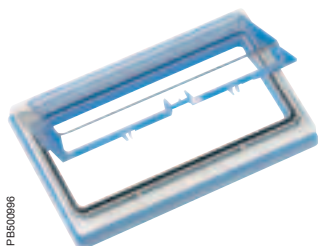


Fig. 2

DB300442



Plastic window IP 55

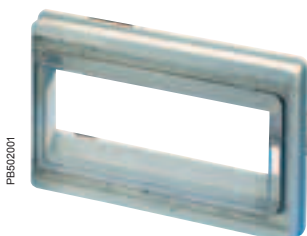
- Plastic window with hinged cover for installation on front panel, IP 55.
- Polycarbonate cover and PVC body.
- External dimensions: 213 x 133 mm.
- Internal dimensions of the window: 180 x 78 mm.
- Delivered with a drilling template.



Composition: 1 plastic window.

Reference

NSYMW10M



Plastic window for modular equipment, IP 55

- Frame with transparent hinged cover for mounting modular switchgear on the front panel.
- Opening: 46 x 180 mm (10 modules).



Composition: 1 modular front panel.

Reference

NSYMW10MK



Kit for fixing the switchgear

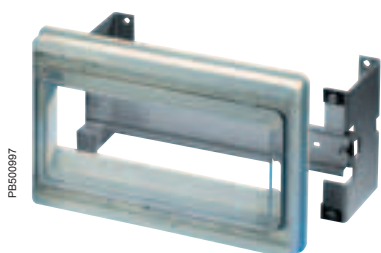
- The fixing kit includes a DIN rail and its two supports.
- The unit is delivered assembled.



Composition: 1 DIN rail and two supports.

Reference

NSYMW10MR




Mounting example:

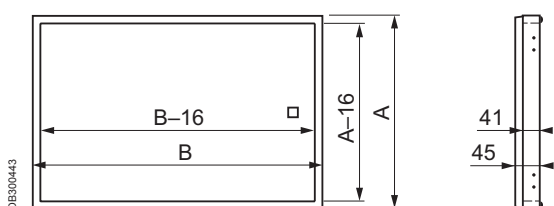
NSYMW10MK + NSYMW10MR



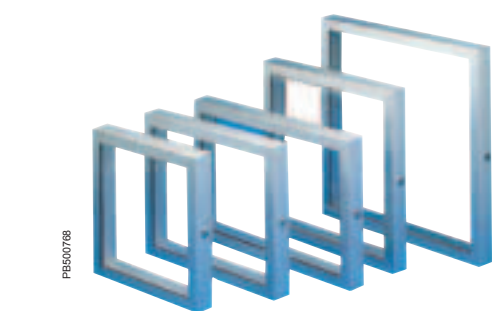
Acrylic window IP 55

- Transparent acrylic window, hinged, with gasket for installation on front panel. IP 55.
- Closure by lock with key n° 1242 E (2 locks for the height of 800 mm).
- Delivered with 2 hinges (3 for the height of 800 mm) and the fixings required for installation.
- Does not filter out UV.

 Composition: 1 acrylic window, hinges, fixings and drilling template.




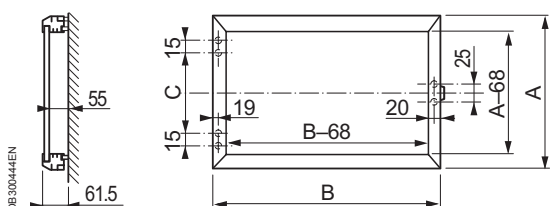
Acrylic window (mm)			Reference
A	B	Depth	
200	400	45	NSYAW24
400	400	45	NSYAW44
500	400	45	NSYAW54
600	400	45	NSYAW64
800	400	45	NSYAW84
200	500	45	NSYAW25
400	500	45	NSYAW45
500	500	45	NSYAW55
600	500	45	NSYAW65
800	500	45	NSYAW85
200	600	45	NSYAW26
400	600	45	NSYAW46
500	600	45	NSYAW56
600	600	45	NSYAW66
800	600	45	NSYAW86



Control window with aluminium protection frame

- To prevent accidental handling of the control units by any unauthorised person.
- Allows all the displayed information to be read without opening the door.
- Construction: aluminium frame and Altuglas viewing window.
- Equipped with hinges for opening.
- Closure by a n° 1242 E lock, type 911 B Ronis.
- Indoor installation.

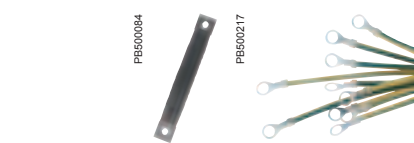
 Composition: 1 frame with window, hinges, fixings and drilling template.



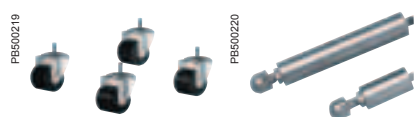
Door window (mm)			Reference
A	B	C	
400	400	220	NSYMA44
400	500	220	NSYMA45
400	600	220	NSYMA46
400	800	220	NSYMA48
500	500	320	NSYMA55
600	500	420	NSYMA65
500	600	320	NSYMA56
500	800	320	NSYMA58
600	600	420	NSYMA66

Other accessories

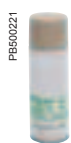




Earthing accessories **492**



Floor accessories **495**



Paint accessories **497**

PB500084



Earth braids

- Guarantee the earth connection for high frequencies, avoiding the disturbing electric currents that are produced.
- Material: tinned copper.



Supply: 10 earth braids (nuts and washers not included).



Reference by unit. Order by multiples of 10 (10, 20, 30...).

Length (mm)	Width (mm)	Section (mm ²)	Terminal Ø (mm)	Reference
150	12	6	6.5	NSYEB156D6
150	17	10	6.5	NSYEB1510D6
155	17	16	8.5	NSYEB1516D8
200	27	25	8.5	NSYEB2025D8
200	33	50	8.5	NSYEB2050D8

PB500217



Earth cables

- Make it easier to install a safe earth connection, with a perfect contact, with optimised length.
- Material: brass and copper alloy terminal, green and yellow PVC insulating sheath.

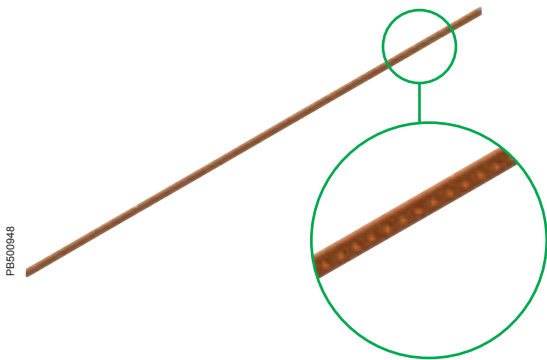


Supply: 10 earth cables (nuts and washers not included).



Reference by unit. Order by multiples of 10 (10, 20, 30...).

Length (mm)	Section (mm ²)	Terminal Ø (mm)	Reference
130	6	6.4	NSYEL136D6
160	6	6.4	NSYEL166D6
160	6	8.3	NSYEL166D8
170	10	8.3	NSYEL1710D6
220	6	6.4	NSYEL226D6
220	25	8.3	NSYEL2225D8
250	10	6.4	NSYEL2510D6
350	25	8.3	NSYEL3525D8



Earthing strip

- Perforated brass bar, 15 x 3 mm.
- 1 m long.
- 87 connection points, M5 drill holes.



Composition: 1 earthing strip and fixing elements.

Reference

NSYECB1M153

Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility			✓	✓	✓		✓	✓	✓				



Central earthing point

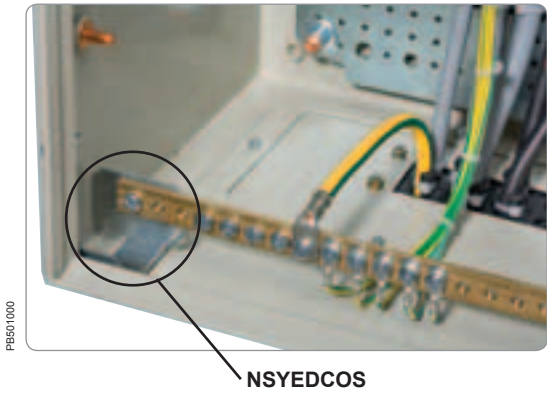
- Connects earthing braids and cables to the structure of the enclosure.
- Fixing to the structure by means of self-tapping screws.
- The earth connection is made by means of the M8 x 18 mm bolt.



Supply: 1 central earthing point, elements for fixing to the structure, and fixings for fixing to the bolt.

Reference

NSYCEP



Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility	✓	✓				✓							

Fixing lugs for the earthing strip

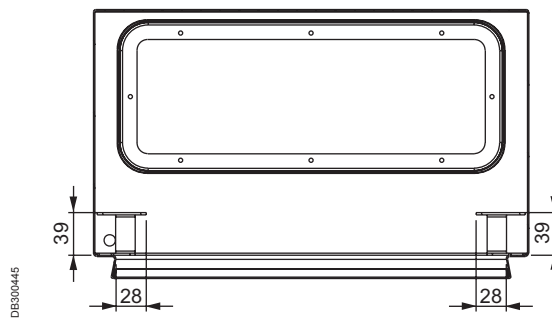
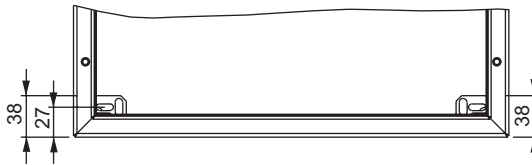
- They allow the mounting of an earth-collector rail or a DIN rail at the top and bottom of an enclosure.
- Fixing on holes made in the gutter of the enclosure.
- Mounting incompatible with certain accessories. Please consult us.
- Earthing strip, page 493.



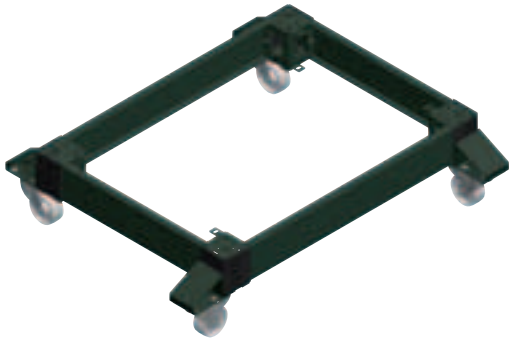
Composition: 2 lugs and fixings.

Reference

NSYEDCOS



PE500578



Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility			✓	✓	✓								

Transport casters

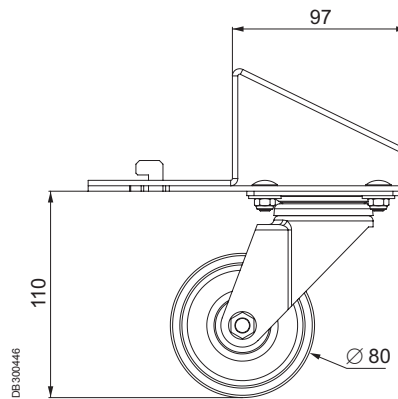
- Set of 4 casters, 2 with a blocking system.
- Quick installation on plinths with heights of 100 and 200 mm, except the plinth for enclosure sets.
- They can be installed in front or side position.
- Clipping and fixing to the corner by screws.
- Maximum load: 100 kg per castor.
- For use on flat surfaces.
- Height: 110 mm.



Supply: 4 transport casters (2 with a blocking system) and fixing elements.

Reference

NSYSTW



DB300446

PE500219



Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility			✓	✓	✓		✓	✓	✓				

Enclosure casters

- Set of 4 casters.
- Double casters.
- Maximum load: 160 kg per castor.
- Height: 92 mm.
- Diameter: 64 mm.



Supply: 4 casters and fixing elements.

Reference

NSYSW



PB501001

Fixed feet.



PB501002

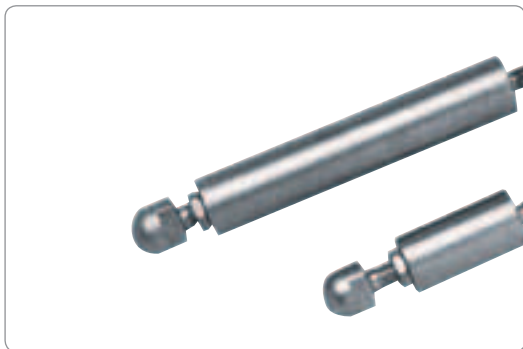
Adjustable feet.

Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility			✓	✓	✓		✓	✓	✓				

Levelling feet (fixed and adjustable)

- Set of 4 floor feet.
- 2 models:
 - Fixed: height 42 mm.
 - Adjustable: height 22 mm.
- Material: steel.
- Adjustable: height 22 mm.
- Maximum load: 100 kg per foot.

Levelling feet	
Model	Reference
Fixed feet	NSYSPSJ
Adjustable feet	NSYSPRJ



PB500220

Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility			✓	✓	✓		✓	✓	✓				

Hygienic stainless-steel feet

- Set of 4 hygienic feet, made from 316L stainless steel, specific for harsh environments.
- Models:
 - Height: 100 mm.
 - Height: 200 mm.
- Height adjustment: 20 mm.
- Maximum load: 100 kg per foot.

 Supply: 4 feet.

316L stainless-steel hygienic feet	
Model with height (mm)	Reference
100	NSYPHX100
200	NSYPHX200



Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility	✓	✓	✓	✓	✓								

Aerosol paint can

- Air-drying paint.
- Content: 150 g.
- Colours: RAL 7035 and RAL 7032.

RAL	Reference
7032	NSYBPA7032
7035	NSYBPA7035



Range	CRN	S3D	SM	SF	SD	S3X	SMX	SFX	SDX	PLS	PLM	PLA	PLD
compatibility	✓	✓	✓	✓	✓								

Paint touch-up

- Paint for touching up with a brush.
- Air-drying.
- Colours: RAL 7035 and RAL 7032.

RAL	Reference
7032	NSYTUP7032
7035	NSYTUP7035

Applicative offer

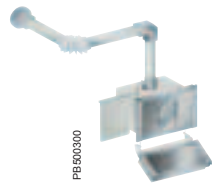
Applicative offer

Contents

Human-Machine Interface	501
<hr/>	
ATEX	561
<hr/>	
EMC	577
<hr/>	
Power distribution systems	593
<hr/>	
Seismic	619
<hr/>	
Electronic Applications	627
<hr/>	
Automobile applications	665

Human-Machine Interface





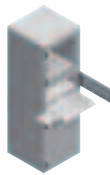
PE600300

Spacial S3CM	504
---------------------	------------



PE601202

Spacial SD Steel Control Desk solutions	522
--	------------



PE600501

Spacial SF Steel suitable PC racks	542
---	------------



PE601224

Spacial SDX Stainless-steel control desks	548
--	------------



PE601223

Spacial SMX Stainless-steel monobloc PC racks	556
--	------------

> Indoor non-clean industrial environment

Steel

Control enclosure with suspension system



Control Desks



PC racks



> Demanding industrial environment

Stainless-steel

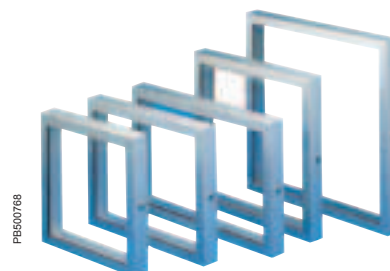
Control Desks

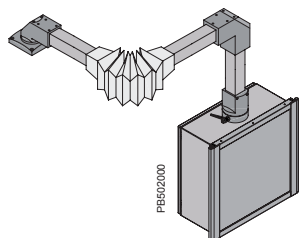


PC racks



See also our control and protection windows
Pages 487 to 489





Spacial S3CM Control enclosure with suspension system

The Spacial S3CM offer for human-machine interface combines **robustness** with **aesthetics** and **ergonomics**. Consist of:

- **Control enclosure.**
- **A keyboard-box.**
- **A suspension system** of arms and joints, for a fixed or rotating solutions.
- **And support accessories.**

> See page **504**



Spacial SD Control desks

The range of Spacial SD control desks provides all the functions required of a workstation intended for industrial and infrastructure applications. Spacial SD offers two clearly differentiated solutions:

- **The SD Compact control desk.**
- **The SD Control desk with console.**

The range has protection ratings of IP 55 and IK 10, which guarantee the safety and the protection of the installed devices.

> See page **522**



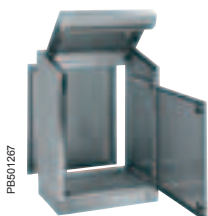
Spacial SF suitable PC rack

The Spacial SF PC rack is designed to protect and control computer equipment in an industrial environments.

Access to the various functions and working heights, guaranteeing optimum comfort.

The roof and panels, fixed from the inside, prevent access by unauthorised personnel.

> See page **542**



Spacial SDX Control desks

The Spacial SDX range of control desks offers all the functions required to set up a control station that meets the industrial or infrastructural needs of applications in harsh environments or in the food and beverage sector.

Easy to implement, compatible with dialogue components, guaranteeing the security and protection of control devices, these control desks, with their range of dimensions, meet the strictest needs of their users.

> See page **548**



Spacial SMX monobloc PC rack

The stainless-steel monobloc PC racks have been especially designed to protect computer equipment installed in corrosive or specially environments that require washing or exposure to sprays of liquid.

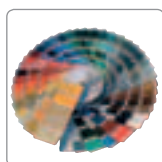
Access to the various functions and working heights, guaranteeing optimum comfort.

> See page **556**

Customised service: All standard dimensions from our catalogue on request and more...



Specific



PB501688

Paints



PB500359

Holes & Cutouts



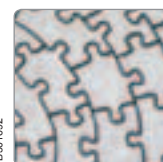
PB501680

Mounting



PB501691

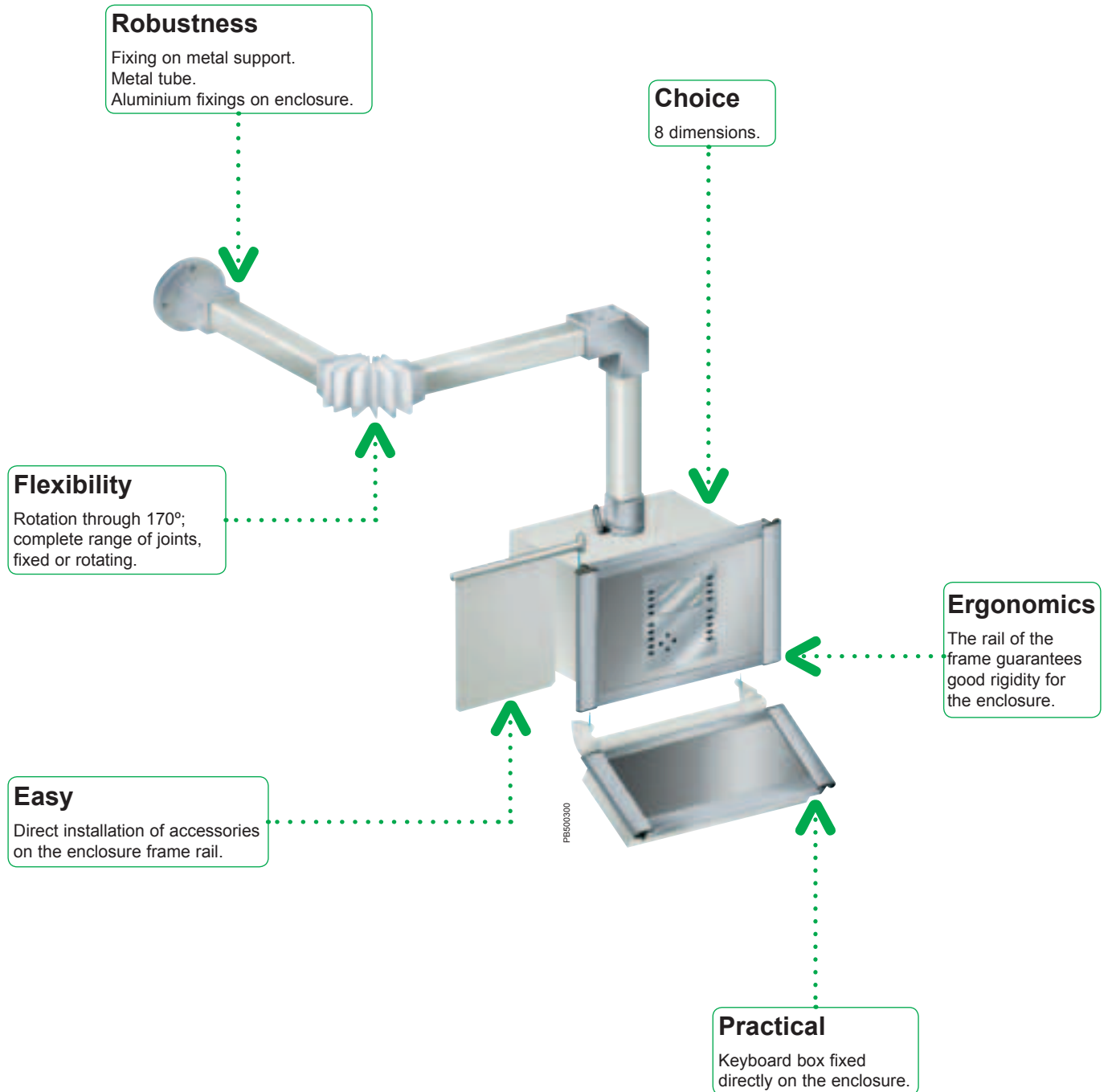
Construction changes



PB501692

Accessories

The Control and Human-Machine Dialogue enclosure, ideal for all your interfaces



The Control and Human-Machine Dialogue enclosure, ideal for all your interfaces

The Spacial S3CM offer for human-machine dialogue consists of:

- Control enclosures.
- A box-keyboard.
- A system of arms and joints, fixed or rotating.
- Accessories.

The global dialogue system combines robustness with aesthetics and ergonomics.

Choice

8 enclosure sizes, with steel body, from 300 x 300 x 200 mm to 800 x 600 x 300 mm.

Robustness

2 tube sizes in extruded steel, 50 and 80 mm square, thickness 4 mm.

IK 10.

Top wall reinforced by a plate with a thickness of 3 mm.

Sealing

IP 54, polyurethane gasket.

Aesthetics

Extruded aluminium rail frame.

RAL 7040 paint: frame.

RAL 7035 paint: enclosure.

Customisation to your image or the aesthetics of your machine: consult us.

Ergonomics

Frame designed for handling the enclosure and facilitating the usage by the operator.

Easy

Easy access to the equipment by a rear door, opening to 120°.

- Direct installation of accessories on the enclosure frame rail:
 - Vertical document support.
 - Keyboard support.
 - Laptop computer support.
- A box-keyboard is installed directly on the enclosure.



PE500418



PE500416



PE500433



PE500446



PE500432



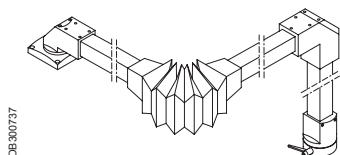
PE500430



Specific

Customised enclosure production, contact us.

Choice of suspension system according to the overhang load and configuration

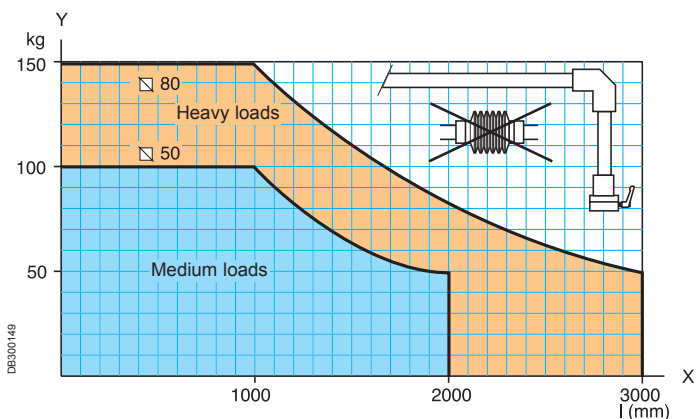
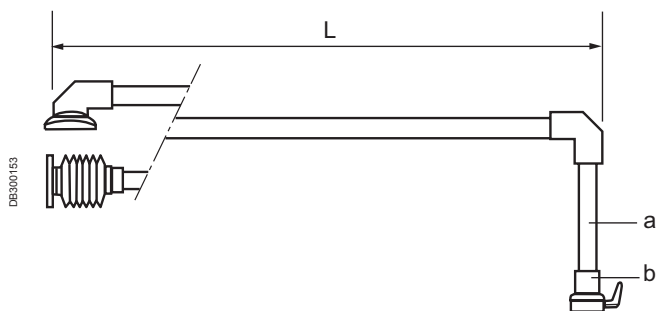


Our system of tubes and joints, fixed or rotating, enables all the solutions to respond to the installation needs of the control enclosures for human-machine dialogue. Every model is suitable for tubes with a square section of 50 mm for medium loads, or of 80 mm for heavy loads (see selection table on page 508).

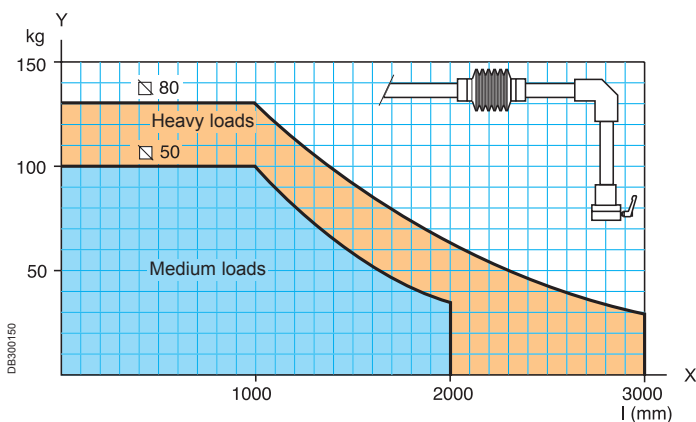
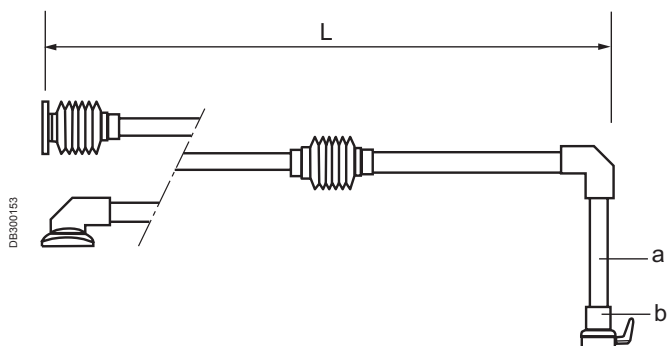
Steps to choose the suspension system (medium or heavy loads)

- 1 Define the total load of the system*: a + b + enclosure + installed equipment (Y axis).
- 2 Define the length of arm L (X axe).
- 3 Define the configuration:

– Suspension system without intermediate joint.



– Suspension system with intermediate joint.



* The load (a + b + enclosure + installed equipment) must be less than the maximum load.

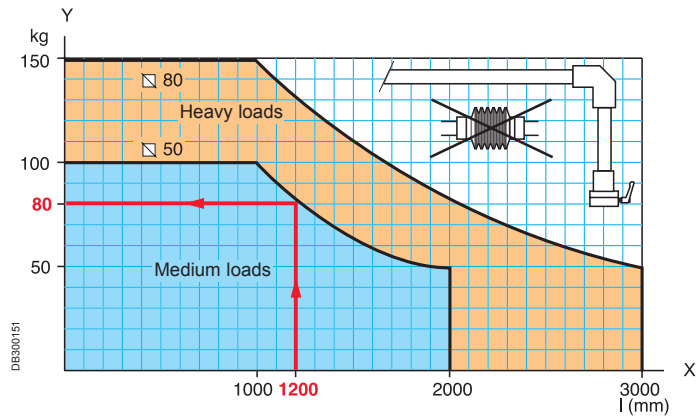
Choice of suspension system according to the overhang load and configuration

Example 1:

- 1 Total load (kg) = 80 kg.
- 2 Length (L) = 1200 mm.
- 3 Suspension system without intermediate joint.

Recommended system

➤ Medium loads \square 50.

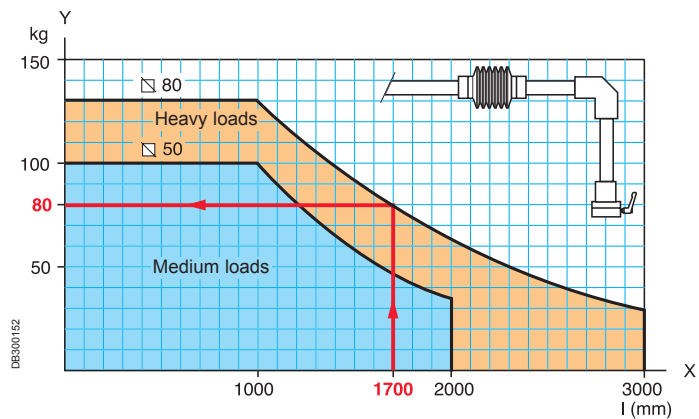


Example 2:

- 1 Total load (kg) = 80 kg.
- 2 Length (L) = 1700 mm.
- 3 Suspension system with intermediate joint.

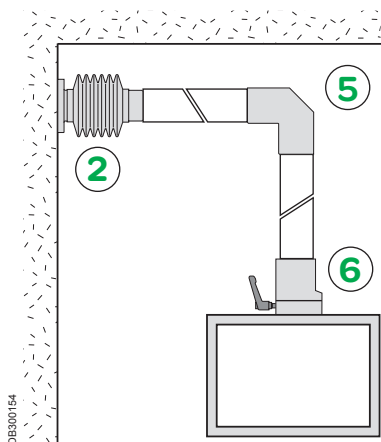
Recommended system

➤ Heavy loads \square 80.



Enclosure		References		
		Tube section		
		∅ 50 mm	∅ 80 mm	
	H x W x D (mm) top wall			
	300 x 300 x 200	NSYS3CM303020	-	
	300 x 400 x 200	NSYS3CM304020	-	
	400 x 400 x 200	NSYS3CM404020	-	
	400 x 600 x 250	NSYS3CM406025	-	
	500 x 500 x 250	NSYS3CM505025	-	
	600 x 600 x 200	NSYS3CM606020	-	
	600 x 800 x 300	-	NSYS3CM608030	
800 x 600 x 300	-	NSYS3CM806030		
Tube		∅ 50 mm	∅ 80 mm	
	Length (m) / Tube section			
	0.5	NSYCMT5005	NSYCMT8005	
	1	NSYCMT5010	NSYCMT8010	
	1.5	NSYCMT5015	NSYCMT8015	
	2	NSYCMT5020	NSYCMT8020	
Fixing on support (steel material)		∅ 50 mm	∅ 80 mm	
	① Fixed base	NSYCMUMR50	NSYCMUMR80	
		② Wall fixing with joint	NSYCMUMA50	NSYCMUMA80
			③ Rotating straight fitting	NSYCMUMC50
Inter-tube fitting (aluminium material)			∅ 50 mm	∅ 80 mm
	④ Horizontal inter-tube joint	NSYCMUIA50	NSYCMUIA80	
		⑤ Fixed bracket	NSYCMUTC50	NSYCMUTC80
Fixing on enclosure (aluminium material)		∅ 50 mm	∅ 80 mm	
	⑥ Rotating fixing on enclosure	NSYCMUCR50	NSYCMUCR80	
		⑦ Rotating fixing in bracket on enclosure	NSYCMUCC50	NSYCMUCC80
		⑧ Tilting fixing on enclosure	NSYCMUCP50	NSYCMUCP80 (1)

(1) Installation on an enclosure D300 requires plate ref. **NSYCMUCPAD87** (see page 520).



Fixing on support

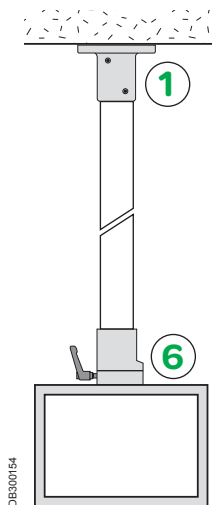
2 See page 515

Inter-tube fitting

5 See page 517

Fixing on enclosure

6 See page 518



Fixing on support

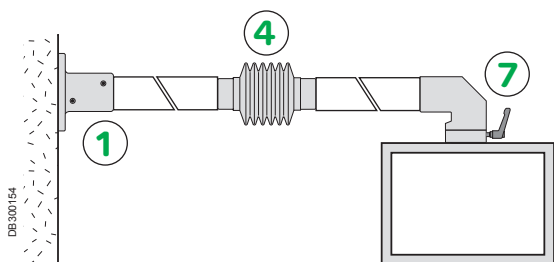
1 See page 515

Inter-tube fitting

-

Fixing on enclosure

6 See page 518



Fixing on support

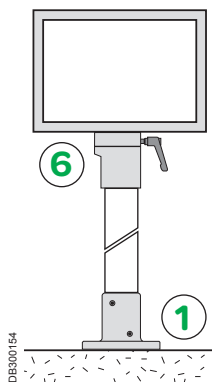
1 See page 515

Inter-tube fitting

4 See page 517

Fixing on enclosure

7 See page 519



Fixing on support

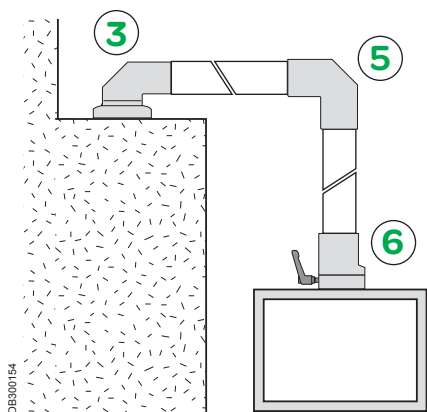
1 See page 515

Inter-tube fitting

-

Fixing on enclosure

6 See page 518



Fixing on support

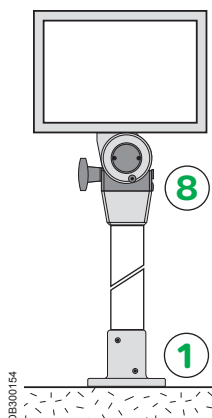
3 See page 516

Inter-tube fitting

5 See page 517

Fixing on enclosure

6 See page 518



Fixing on support

1 See page 515

Inter-tube fitting

-

Fixing on enclosure

8 See page 520

Control enclosure

Introduction



PB500435

Technical characteristics:

- RAL 7035 grey, structured finish, epoxy-polyester powder.
- Protection degree: IP 54.
- Resistance to external mechanical impacts: IK 10.
- Dimensions and weights, see page 511.

The control enclosures consist of:

- **A steel body equipped with:**
 - Reinforcement plate: the top wall is reinforced by a plate (3 mm) and pierced with a hole Ø 54 or 87 mm (according to the reference) to allow hanging installation of the enclosure.
 - 4 welded studs on the 2 inner vertical walls, for fixing the rails.
 - 2 rails (with drill holes) for installing equipment.
 - A rear door, opening to 120° and closing with double-bar lock.
- **An aluminium front face (2.5 mm thick):**
 - This surface is protected on both sides by a plastic film, allowing the installation of the dialogue elements.
 - A trim frame made from 4 extruded-aluminium rails: the frame and the front face are delivered assembled. Structured finish, epoxy-polyester powder, RAL 7040 grey colour (other colours on demand).
- The design of these rails takes into account the accessory mounting functions (lamp, document support, keyboard support, laptop support, etc.), the ergonomics for handling the enclosure and its overall aesthetics.



PB500431

Perforated rails installed on lateral studs:



PB500432

Rear door with double-bar lock.



PB500417

Detail of the reinforcement plate.



PB500434

Fixing of the trim frame by screws.



PB500420

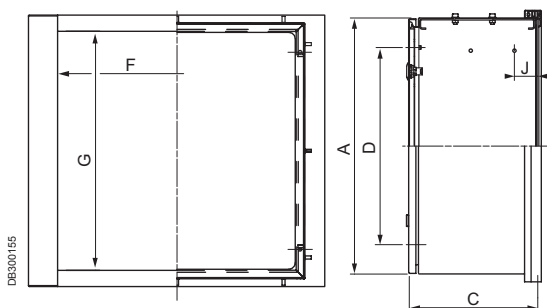
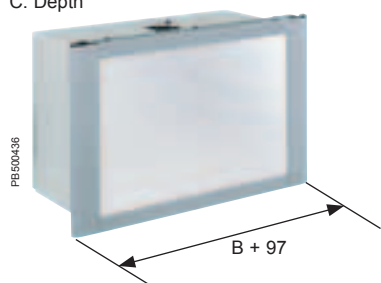
Enclosure dimensions (mm)			Enclosure load (kg)	Tube section (mm)	References
Height	Width	Depth			
300	300	200	8.6	50	NSYS3CM303020
300	400	200	9.5	50	NSYS3CM304020
400	400	200	11.4	50	NSYS3CM404020
400	600	250	17.9	50	NSYS3CM406025*
500	500	250	20.2	50	NSYS3CM505025
600	600	200	26.5	50	NSYS3CM606020*
600	800	300	34.9	80	NSYS3CM608030
800	600	300	33.6	80	NSYS3CM806030*

* Enclosure equipped with a cable-gland plate (see diagram below).

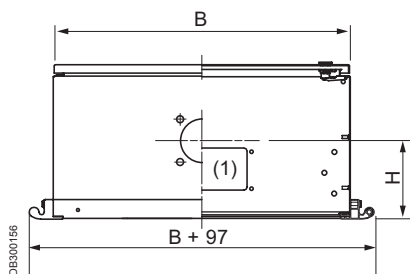
Enclosure dimensions (mm)			D	F	G	H	J	Cable-gland plate	Ø Top hole (mm)	Fig.	Enclosure
Height A	Width B	Depth C									References
300	300	200	162	262	262	100	45	-	54	1	NSYS3CM303020
300	400	200	162	362	262	100	45	-	54	1	NSYS3CM304020
400	400	200	262	362	362	100	45	-	54	1	NSYS3CM404020
400	600	250	262	562	362	125	75	●	54	1	NSYS3CM406025*
500	500	250	362	462	462	125	75	-	54	1	NSYS3CM505025
600	600	200	462	562	562	100	45	●	54	1	NSYS3CM606020*
600	800	300	462	762	562	150	100	-	87	2	NSYS3CM608030
800	600	300	662	562	762	150	100	●	87	2	NSYS3CM806030*

* Enclosure equipped with a cable-gland plate (see diagram below).

A: Height
B: Width
C: Depth



W600 enclosure + box-keyboard installation



(1) Cable-gland plate.

Figure 1

Enclosure depth from 200 to 250

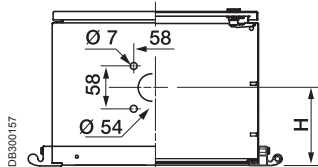
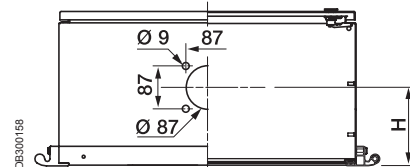


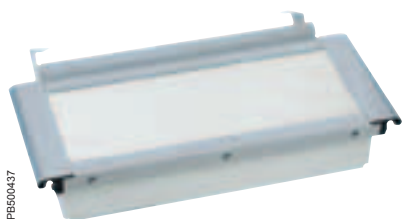
Figure 2

Enclosure depth 300



Box-keyboard for control enclosure

Introduction



PB500437



PB500438

The box is installed on the control enclosures with a width of 600 mm. It then has an angle of 120° with its front face. All the accessories required for installation are delivered with 2 brackets and 1 trim rail, 1 hose for cable entry.

Technical features:

- Protection degree: IP 54.
- Resistance to external mechanical impacts: IK 10.
- Weight: 8 kg.

The box for the keyboard consists of:

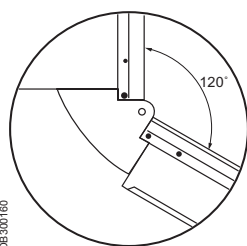
- A steel body, structured finish, epoxy-polyester powder, RAL 7035 grey colour, with a screwed cover.
- An aluminium front face (2.5 mm thick) for installing a keyboard.
- A trim frame made from 2 extruded-aluminium rails guaranteeing ergonomic handling of the box and the aesthetics of the unit.

The frame and the front face are delivered assembled. Structured finish, epoxy-polyester powder, RAL 7040 grey colour.

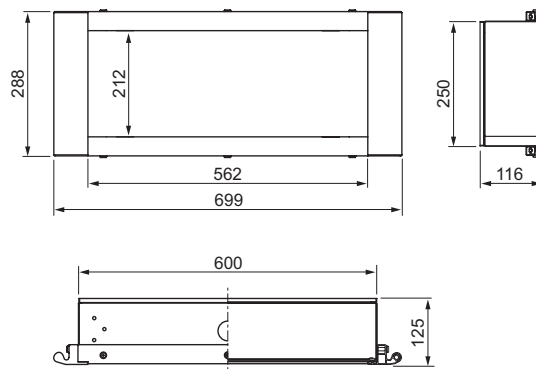
External dimensions (mm)			Box-keyboard
Height	Width	Depth	Reference
250	600	116	NSYCMT2560110



Detail from the installation of the box-keyboard on the control enclosure



DB300160



DB300159



Specific

These enclosures can be customised (colour, machining, etc.). Please contact us.



PB500439

Support example.

Support

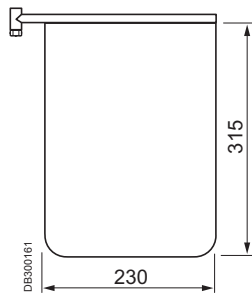
- Three different types of support are available:
 - Vertical support for documents, size 315 x 230 mm, sheet steel 1.2 mm thick.
 - Horizontal support for keyboard, size 500 x 200 mm, sheet steel 2 mm thick.
 - Horizontal support for laptop computer, size 350 x 310 mm, sheet steel 2 mm thick.
- Installation on the left or right rail of the frame of the control enclosure.
- Structured finish, epoxy-polyester powder, RAL 7035 grey colour.

Weight (kg)	Type of support	References
1.15	Vertical	NSYCMSPP
2.16	Keyboard	NSYCMBPT
2.04	Laptop computer	NSYCMBPC



PB500440

NSYCMSPP

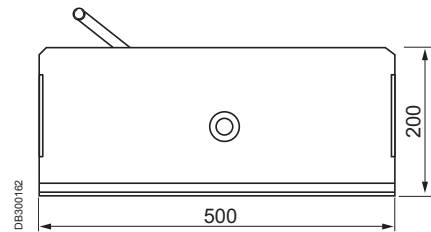


DB300161

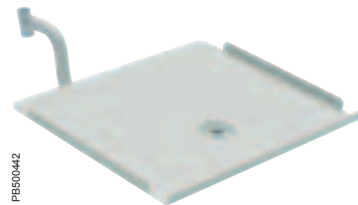
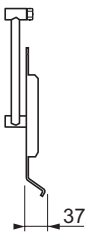


PB500441

NSYCMBPT

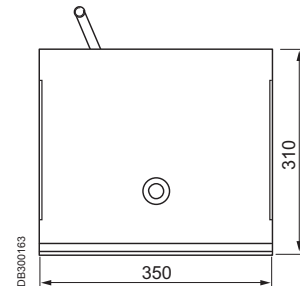


DB300162

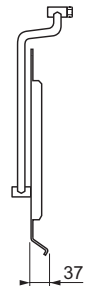


PB500442

NSYCMBPC

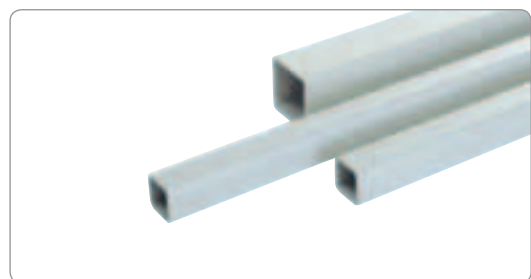
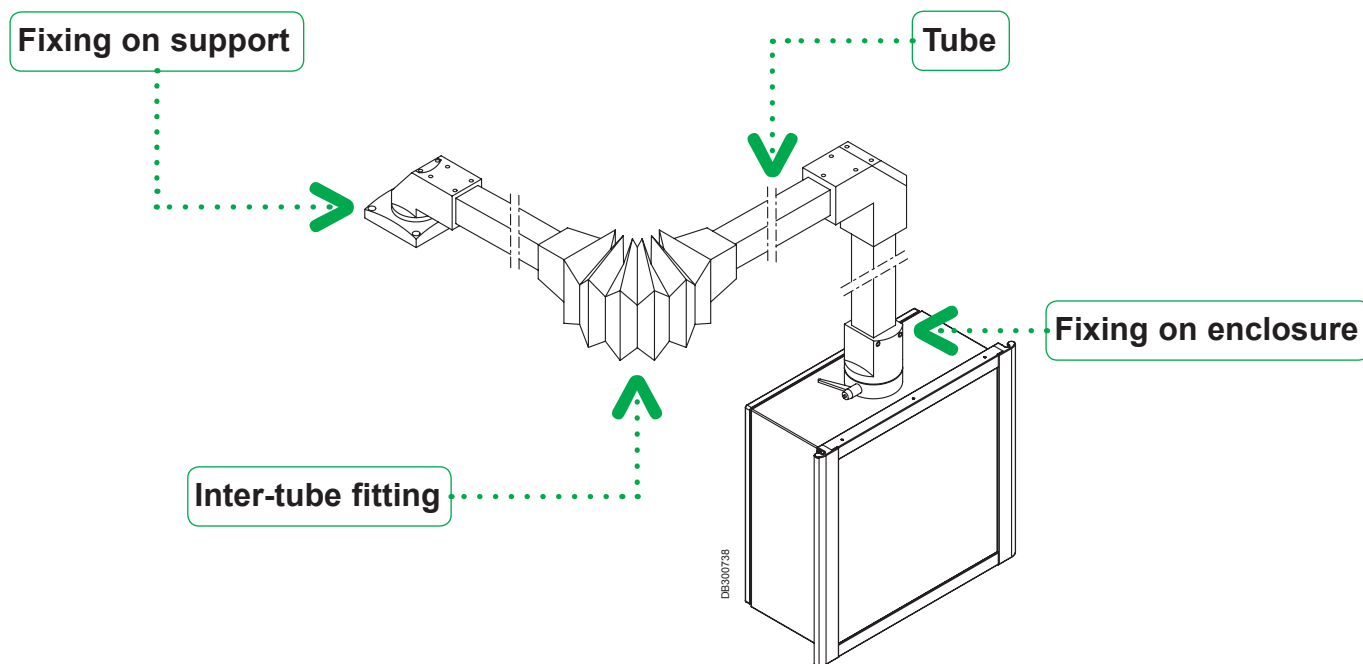


DB300163



Suspension system

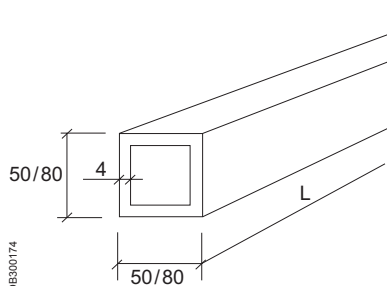
Fixing on support



Tube

- The tubes are available in:
 - 2 sizes: square of 50 and 80 mm.
 - 4 lengths: 0.5, 1, 1.5 and 2 m.
- Material: extruded steel, 4 mm thick, structured finish, powder, RAL 7035 grey colour.
- Weights:
 - 50 x 80: 6.5 kg/m.
 - 80 x 80: 10.5 kg/m.

Joints		
References		
Length (m)	50 mm square	80 mm square
0.5	NSYCMT5005	NSYCMT8005
1	NSYCMT5010	NSYCMT8010
1.5	NSYCMT5015	NSYCMT8015
2	NSYCMT5020	NSYCMT8020



Suspension system

Fixing on support

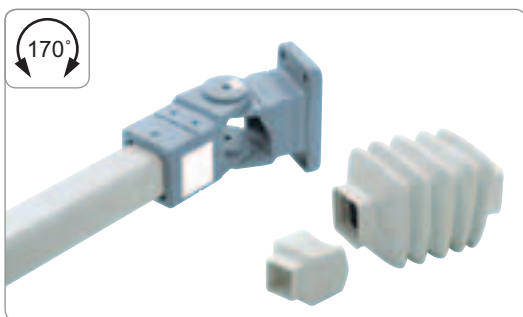
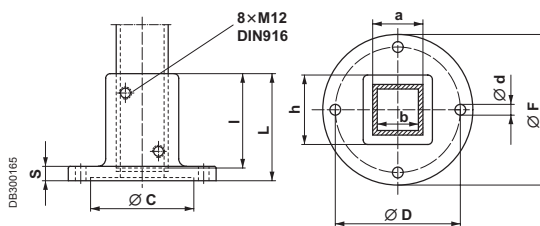


PB500423

1 Fixed base

- Support foot for direct horizontal or vertical connection.
- Material: moulded steel, structured finish, powder, RAL 7040 grey colour.

Dimensions (mm)										Weight (kg)	References
□ a	b	c	d	D	F	h	I	L	S		
50 mm square	42	105	11	125	152	72	97	110	15	3.25	NSYCMUMR50
80 mm square	72	134	11	173	201	111	126	140	16	7	NSYCMUMR80

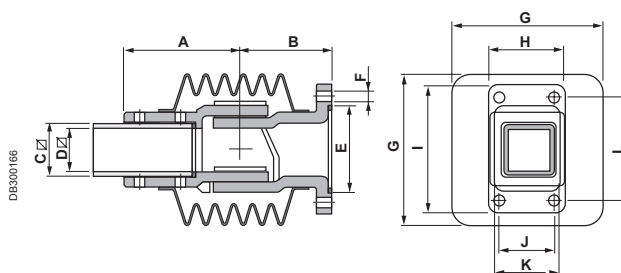


PB500424

2 Wall fixing with joint

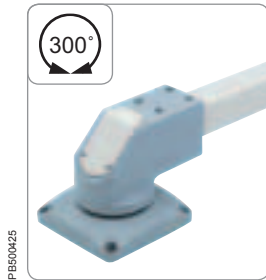
- Device allowing rotation through 170° of a horizontal tube, with a square section of 50 or 80 mm, and its fixing on a vertical surface.
- Protection by bellows, RAL 7035 grey colour.
- Possibility of passing cables through the inside of the joint.
- Material: moulded steel, structured finish, powder, RAL 7040 grey colour.

Dimensions (mm)											Weight (kg)	References	
□ C for tube	A	B	D	E	F	G	H	I	J	K			L
50 mm square	118	92	42	85	11	148	80	130	55	68	105	4.35	NSYCMUMA50
80 mm square	160	115	72	130	11	190	115	175	90	103	150	9.45	NSYCMUMA80



Suspension system

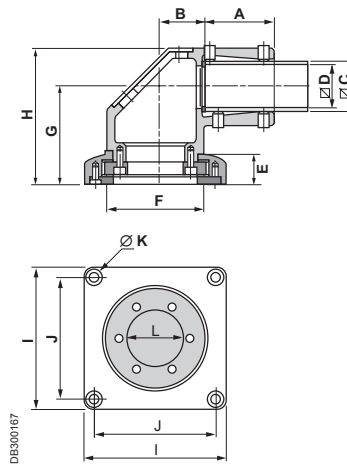
Fixing on support



③ Rotating straight fitting

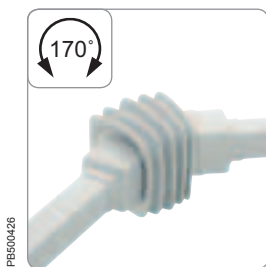
- Device allowing the fixing and rotation through 295° of tubes, with a square section of 50 or 80 mm, in horizontal position.
- Without blocking the chosen position.
- Option of passing cables through the inside.
- Material: moulded steel, structured finish, epoxy-polyester powder, RAL 7040 grey colour.
- Fixing by 4 screws, not included.

□ C	Dimensions (mm)											Weight (kg)	References
	A	B	D	E	F	G	H	I	J	K	L		
50 mm square	68	50	42	30	96	96	134	140	120	9	55	5.4	NSYCMUMC50
80 mm square	98	74	72	45	144	141.5	195.5	210	180	13	84	15.7	NSYCMUMC80



Suspension system

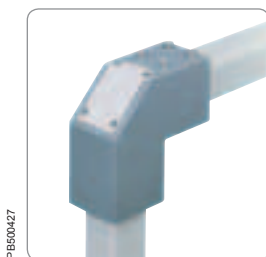
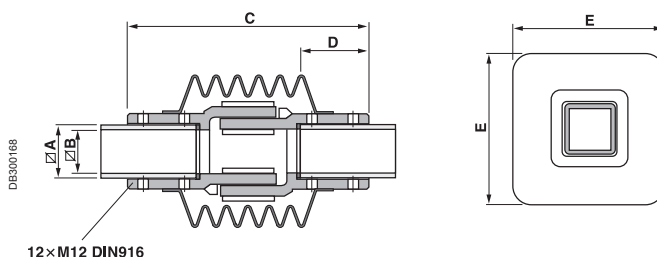
Inter-tube fitting



4 Horizontal inter-tube joint

- Device allowing the linking and rotation through 170° of 2 horizontal tubes, with a square section of 50 or 80 mm.
- Protection by bellows, RAL 7035 grey colour.
- Possibility of passing cables through the inside of the joint.
- Material: moulded steel, structured finish, powder, RAL 7040 grey colour.

Dimensions (mm)					Weight (kg)	References
∇ A for tube	B	C	D	E		
50 mm square	42	236	67	148	4.25	NSYCMUIA50
80 mm square	72	320	94	190	10	NSYCMUIA80

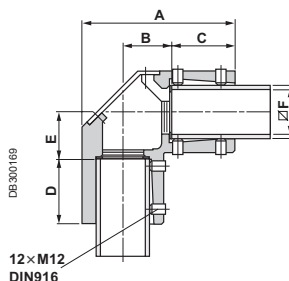


5 Fixed bracket

Our system of tubes and joints, fixed or rotating, enables all the solutions to respond to the installation needs of the control enclosures for human-machine dialogue. Every model is suitable for tubes with a square section of 50 mm for light loads, or of 80 mm for heavy loads (see selection table on page 508).

- Device allowing the combination and fixing of a horizontal tube with a vertical tube.
- Two models for tubes with a square section of 50 or 80 mm.
- Option of passing cables through the inside.
- Material: aluminium, structured finish, powder, RAL 7040 grey colour.

Dimensions (mm)							Weight (kg)	Fixed bracket
∇ G	A	B	C	D	E	F		References
50 mm square	144	46	60	60	46	42	1.35	NSYCMUTC50
80 mm square	193	56	83	83	56	70	2.4	NSYCMUTC80



Suspension system

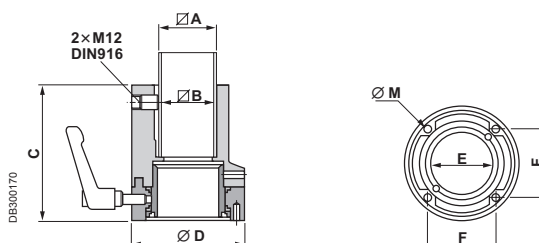
Fixing on enclosure



6 Rotating fixing on enclosure

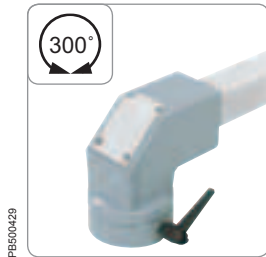
- Device allowing the fixing and rotation through 310° of tubes, with a square section of 50 or 80 mm, in vertical position.
- System for blocking in the chosen position.
- Option of passing cables through the inside.
- Material: aluminium, structured finish, powder, RAL 7040 grey colour.
- Fixing through the support surface by 4 screws.

Dimensions (mm)							Weight (kg)	References
∅ A	B	C	D	E	F	M		
50 mm square	42	115	96	52,3	58	M6	1.25	NSYCMUCR50
80 mm square	72	145	139	85	87	M8	3.1	NSYCMUCR80



Suspension system

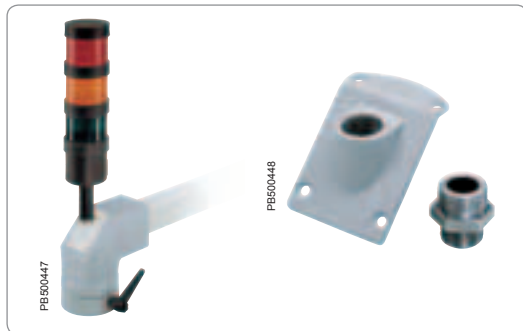
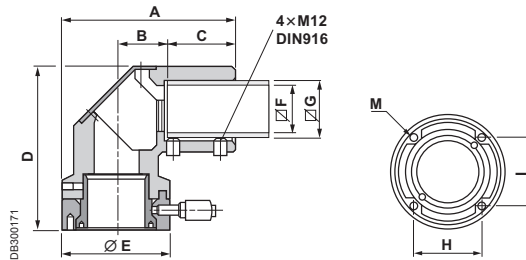
Fixing on enclosure



7 Rotating fixing in bracket on enclosure

- Devices allowing the fixing and rotation through 310° of tubes, with a square section of 50 or 80 mm, in horizontal position.
- System for blocking in the chosen position.
- Option of passing cables through the inside.
- Material: aluminium, structured finish, powder, RAL 7040 grey colour.
- Fixing through the support surface by 4 screws.

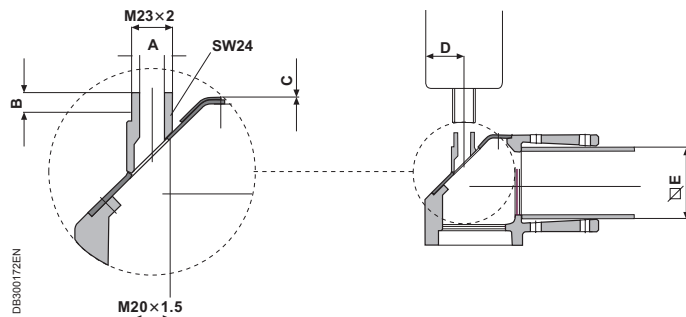
∅ G	Dimensions (mm)									Weight (kg)	References
	A	B	C	D	E	F	H	I	M		
50 mm square	154	46	60	147	96	42	42	58	M6	2	NSYCMUCC50
80 mm square	208.5	56	83	190	139	72	70	87	M8	6.55	NSYCMUCC80



Adapter for signalling beacon

- This adapter allows the direct installation of a beacon for signalling the state of the machine.
- It is installed on fixed brackets ref. **NSYCMUTC50** and **NSYCMUTC80**.
- Option of passing cables through the inside.
- Material: aluminium, structured finish, powder, RAL 7040 grey colour.

∅ E	Dimensions (mm)				Weight (kg)	References
	A	B	C	D		
50 mm square	14	11	8.7	31.5	0.025	NSYCMACS50
80 mm square	14	11	2.5	43	0.08	NSYCMACS80



Suspension system

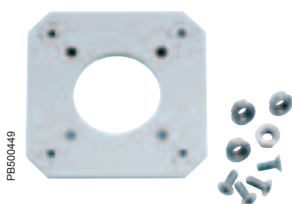
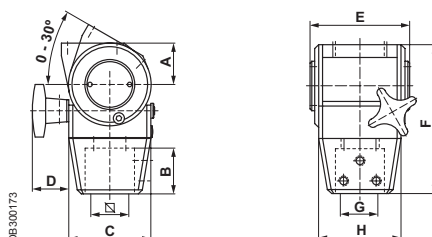
Fixing on enclosure



8 Tilting fixing on enclosure

- This fixing allows the enclosures to be tilted up to 30°.
- System for blocking in the chosen position.
- It is installed on enclosures with depths of 200 and 250 mm.
- The installation on enclosures with a depth of 300 mm requires an adapter plate.

∅ for tube	Dimensions (mm)								Weight (kg)	References ∅ 50 mm
	A	B	C	D	E	F	G	H		
50 mm square	50	55	100	44	121	182	50	100	2.98	NSYCMUCP50
80 mm square	50	55	100	44	121	182	50	100	3.10	NSYCMUCP80

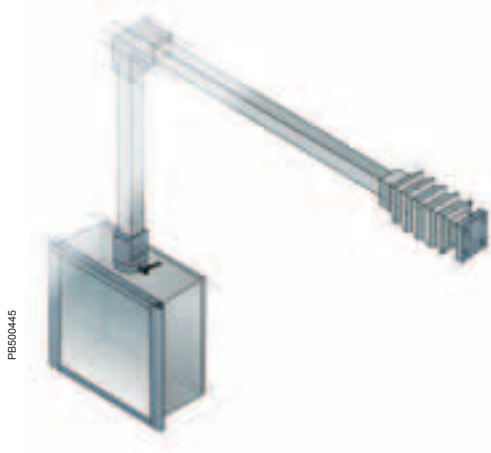


Adapter part for enclosure D300 / ∅ 80 mm

Reference
NSYCMUCPAD87

Suspension system

Exemples



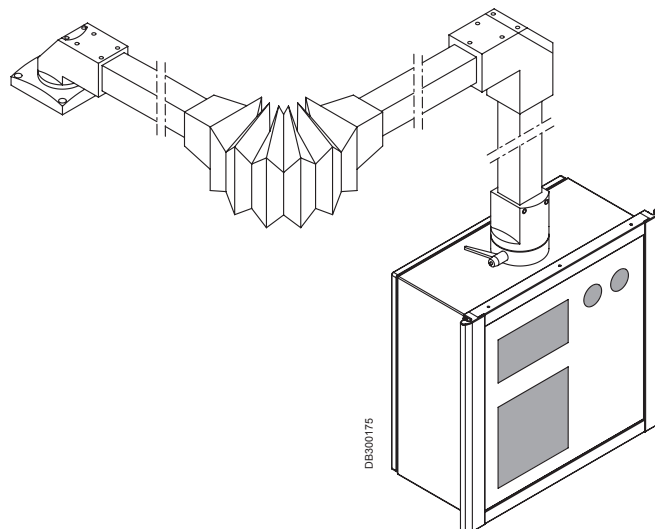
Example
Installation on enclosure with rotating straight fixing, fixed fitting bracket and support fixing with joint.

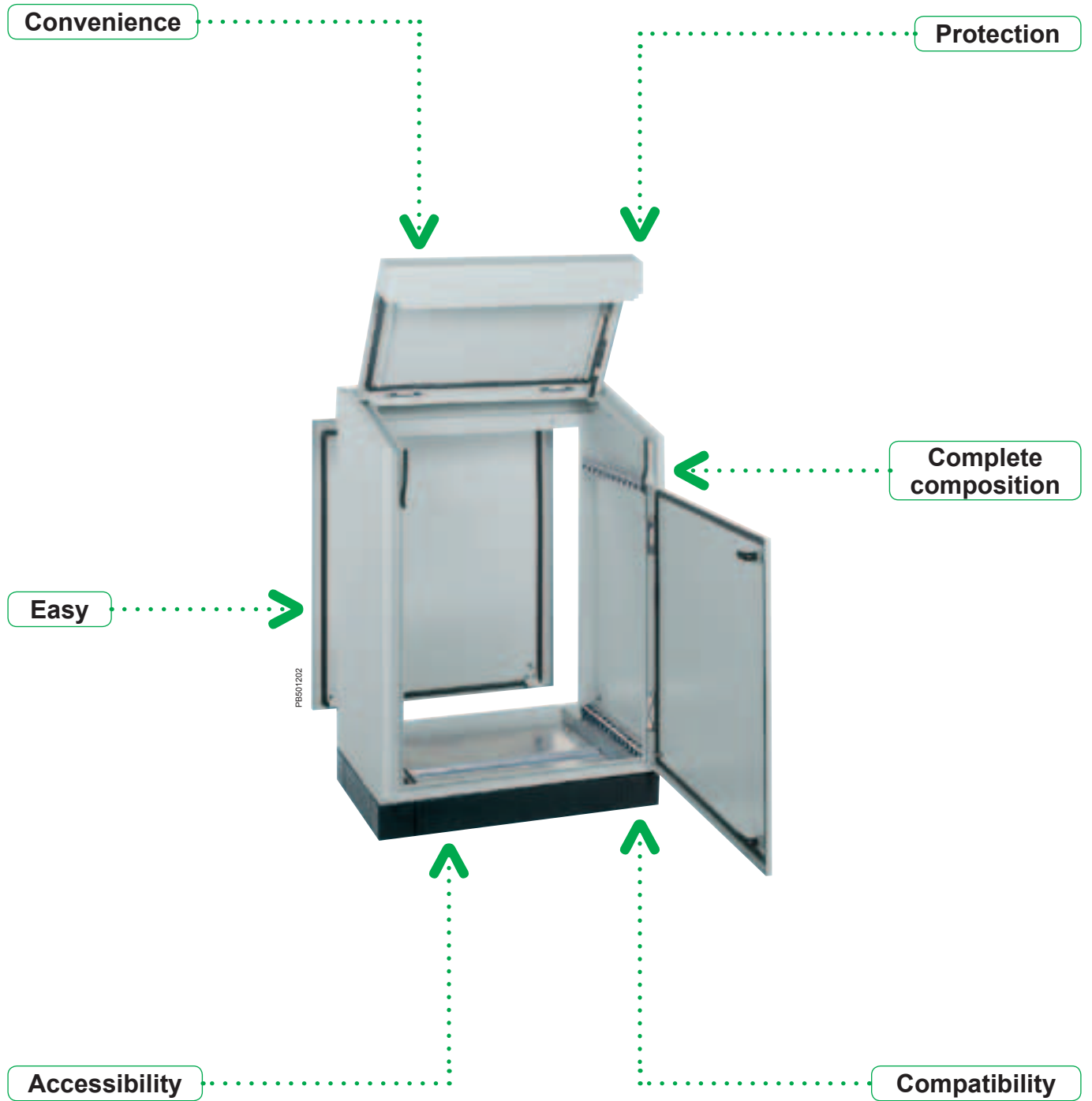


Example
Installation with tilting fixing on the enclosure and fixed base.



Specific
Cut-outs on front face:
contact us.





The range of Spacial SD control desks provides all the functions required of a workstation intended for industrial and infrastructure applications.

Spacial SD offers two clearly differentiated solutions:

- The SD Compact control desk, available in 4 different widths (600, 800, 1000 and 1200 mm).
- The SD Control desk with console, available in 4 different widths (800, 1000, 1200 and 1600 mm).

Protection

The Spacial SD range has protection ratings of IP 55 and IK 10, which guarantee the safety and the protection of the installed devices.

Accessibility

There are two versions of the Compact control desk:

- Front accessibility: Designed for straightforward solutions.
- Front and rear accessibility through a removable panel: Enables the installation of two adjoining plates and to work at the rear.

The control desk with console offers full accessibility, since it is fully accessible from the rear thanks to the 3-point closure door it includes.

For Spacial SD, the accessibility which allows quick and easy work is one of its main priorities. For this reason, its design excludes the central upright.

Easy

The console opens easily and safely thanks to the installed pneumatic opening lid stays.

Cable entry is optimised because all the models of the range include a cable-gland plate with two adjustable parts.

Convenience

The possibility of connecting the modular control desk to the modular consoles affords multiple combinations.

The opening direction of the door can be changed quickly thanks to the included hinges.

Complete composition

All the control desks have mounting plate supports and rails that allow the installation of all kinds of mounting plates. Adjustable with a pitch of 25 mm.

The console and the front panels are equipped with cut-out vertical rails to allow quick installation of all types of equipment.

Compatibility

Furthermore, the Spacial SD control desk is compatible with most of the accessories of the Spacial SF and SM ranges.



PB501195



PB501199



PB501200



PB501202



PB501194



PB501197



PB501198



Specific

Customised enclosure production, contact us.

Compact Control Desks

Introduction



Spacial SD Compact control desk

- This range is available in 4 widths (600, 800, 1000 and 1200 mm) with fixed rear panel. Full accessibility is provided from the front (no central upright).

Technical characteristics

- Welded folded sheet steel, thickness 1.5 mm.
- Structured finish, epoxy-polyester powder paint, colour RAL 7035 grey.
- Protection degree IP 55.
- Resistance to external mechanical impacts IK 10.
- Easy removable and reversible door opening to 120°. Locking by 3-mm double-bar lock (other inserts or cylinders also available, to be ordered separately, see page 537).
- Desk lid equipped with a pneumatic opening stay. Opens to 75°. Perforated reinforcement rails with a pitch of 25 mm.
- Control desk equipped with adjustment rails with a pitch of 25 mm and brackets allowing adjustment of the mounting plate depth.
- Cable-gland plate with 2 adjustable parts, with polyurethane gasket.
- M8 x 18-mm earthing bolt for equipotential connection between the door and the body.

Dedicated accessories

- It can also be equipped with a mounting plate*, see page 538.

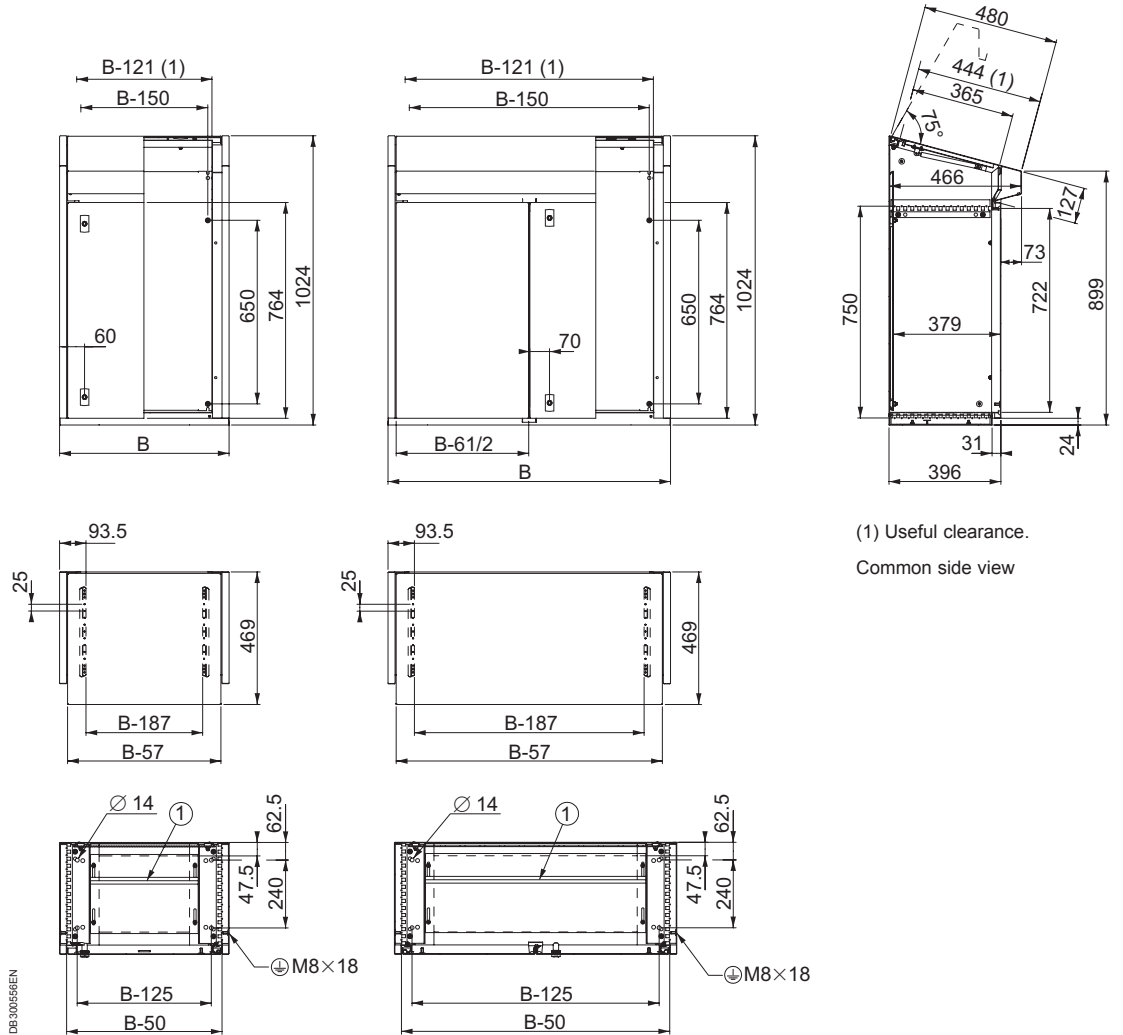
Dimensions (mm)			Door number	Reference
Width (B)	Height	Depth		Without mounting plate
600	1000	469	1	NSYSD6
800	1000	469	1	NSYSD8
1000	1000	469	2	NSYSD10
1200	1000	469	2	NSYSD12

*Example of installation of a plain mounting plate.
To be order separately.

Compact Control Desks Dimensions

1 door

2 doors



Cable-gland plate clearance dimensions (mm)	
Width	Maximum opening
B-280	56

Compact control desks

Introduction



PE501202



PE501192

(2) Example of installation of a plain mounting plate.
To be order separately.



PE501195

(1) Example of installation of a modular console.

Spacial SD Compact control desk with rear panel

- Removable rear panel. It enables the installation of two racks back-to-back, allowing the installation of a large number of devices, while ensuring full accessibility from the front and the rear.
- At the top, these control desks are equipped with cable-entry cut-outs, that allows the installation of one or more modular consoles.

Technical characteristics

- Welded folded sheet steel, thickness 1.5 mm.
- Structured finish, epoxy-polyester powder paint, colour RAL 7035 grey.
- Protection degree IP 55.
- Resistance to external mechanical impacts IK 10.
- Easy removable and reversible door, opening to 120°. Locking by 3-mm double-bar lock (other inserts or cylinders also available, to be ordered separately, see page 537).
- Desk lid equipped with a pneumatic opening stay. Opens to 75°. Perforated reinforcement rails with a pitch of 25 mm.
- Top cable-entry cut-outs covered by a entire blanking cover.
- Control desk equipped with adjustment rails with a pitch of 25 mm and brackets allowing adjustment of the mounting plate depth.
- Cable-gland plate with 2 adjustable parts, with polyurethane gasket.
- M8 x 18-mm earthing screw for equipotential connection between the door and the body.

Dedicated accessories

- Modular consoles to be installed on top of compact control desk (1). See details and combinations page 528.
- It can also be equipped with a mounting plate (2), see page 538.

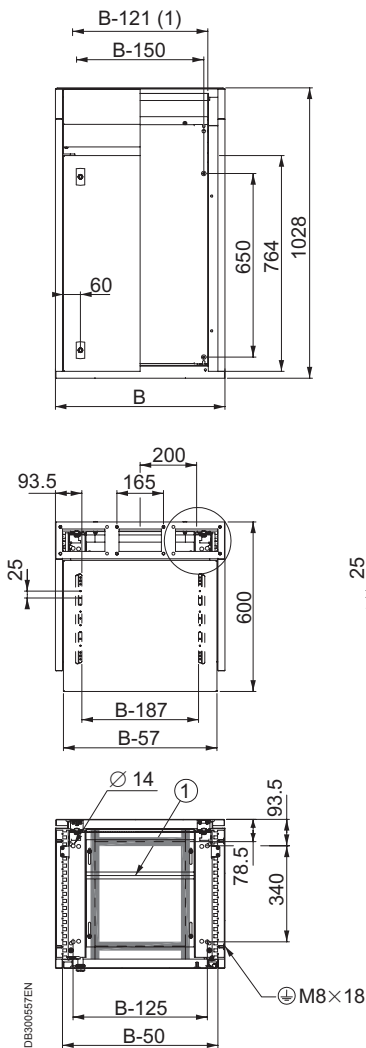
Dimensions (mm)			Door number	Reference
Width (B)	Height	Depth		Without mounting plate
600	1000	600	1	NSYSD6R
800	1000	600	1	NSYSD8R
1000	1000	600	2	NSYSD10R
1200	1000	600	2	NSYSD12R

Compact control desks

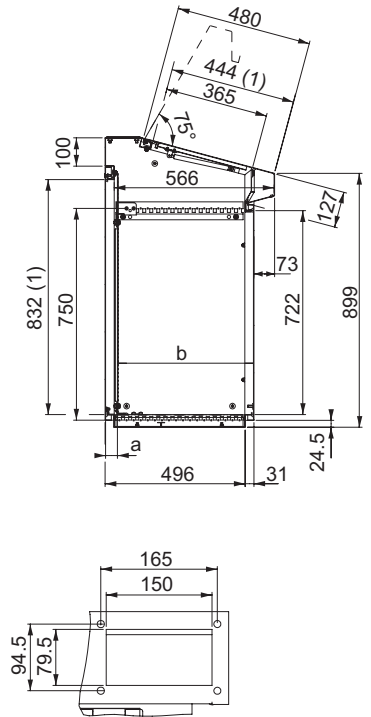
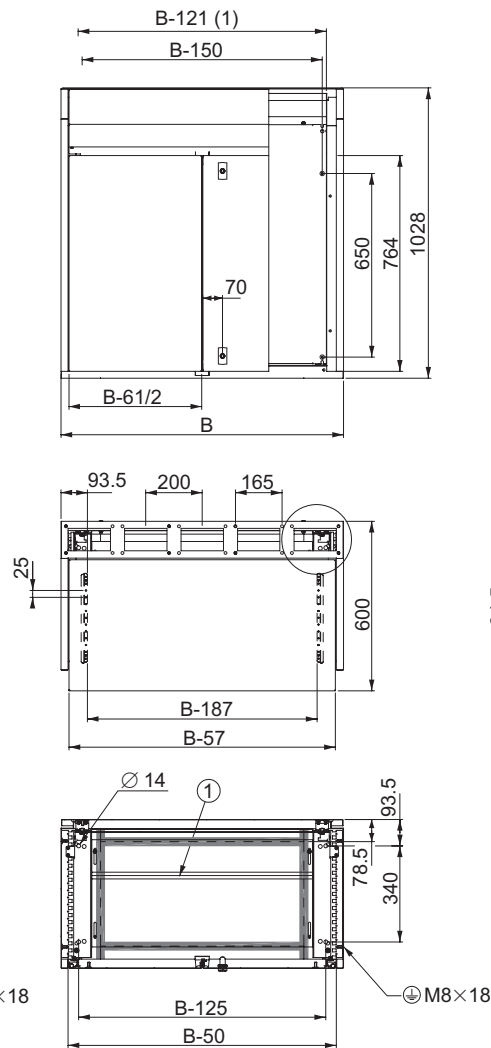
Dimensions

Spacial SD Compact control desks with rear panel

1 door



2 doors



(1) Useful clearance.
Common side view

Cable-gland plate clearance dimensions (mm)	
Width	Maximum opening
B-280	56

Adjustment of the depth of the mounting plate (mm)		
Depth	Min.	Max.
a	42	392
b	129	479

Modular consoles

Introduction

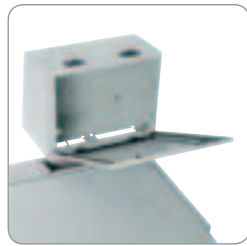


Modular consoles for Compact control desk with rear panel

- Two widths: 400 and 600 mm.
- Two depths: 200 and 300 mm.

Technical characteristics

- Welded folded sheet steel, thickness 15 / 10 mm.
- Structured finish, epoxy-polyester powder paint, colour RAL 7035 grey.
- Protection degree IP 55.
- Resistance to external mechanical impacts IK 10.
- Hinged modular console cover equipped with a pneumatic opening stay. Opens to 75°.
- Locking of the hinged modular console cover by two 3-mm double-bar locks (other inserts or barrels also available, to be ordered separately, see page 537).
- Screw fixed rear panel equipped with step slides in the version with a depth of 300 mm.

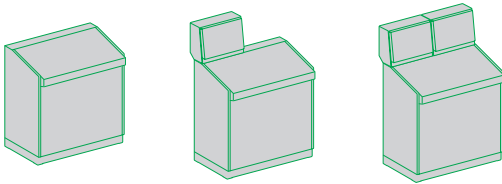


* Example of installation of a modular console.

Dedicated accessories

- The link between the control desk and the modular console requires, in certain cases, the addition of one or several blanking covers (to be ordered separately).
- Optional galvanised mounting plate.

DE300593

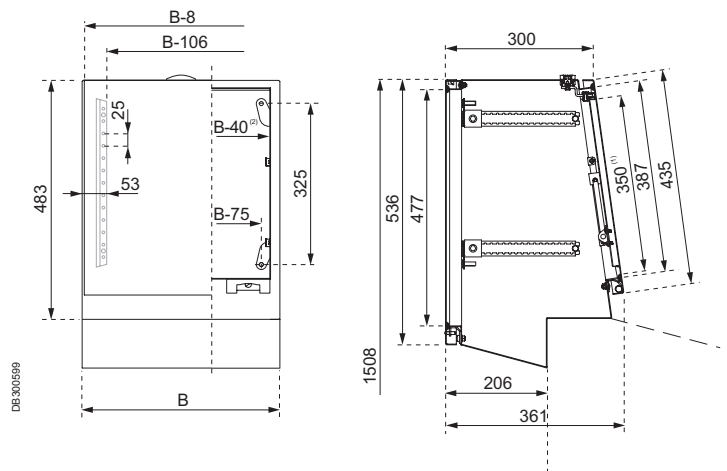
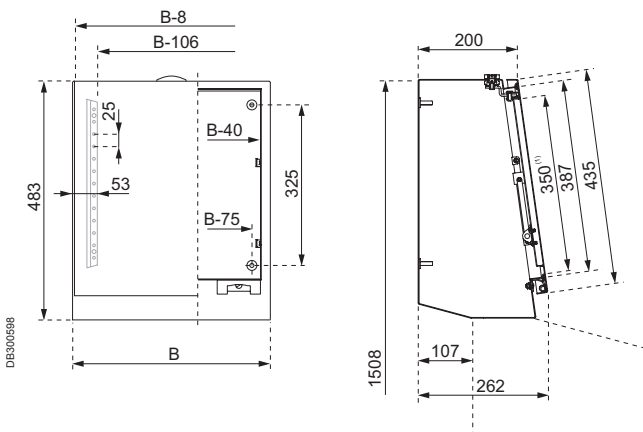


Multiple combinations, see page 530.

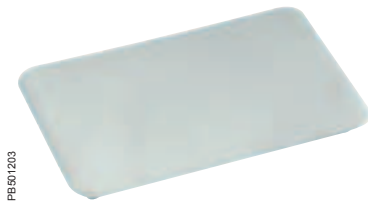
Modular console dimensions (mm)			N° cable entry cut-outs	Reference
Height	Width (B)	Depth		
483	400	200	2	NSYSDC42
483	400	300	2	NSYSDC43
483	600	200	3	NSYSDC62
483	600	300	3	NSYSDC63

Modular console, depth 200 mm

Modular console, depth 300 mm



- (1) Useful clearance.
- (2) Same dimensions for the rear panel.



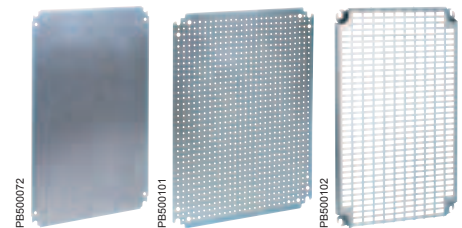
Blanking cover

- To conceal the free space of the control desk when the width of the console or consoles is less than the width of the control desk (see the connection examples below). In any case, it is necessary to previously remove the top plate delivered with the control desk.
- Lengths: 200 mm.
- Sheet steel, thickness 1.5 mm.
- Structured finish, epoxy-polyester powder paint, colour RAL 7035 grey.
- Fixing by screws.

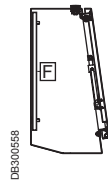
Blanking cover length (mm)	Reference RAL 7035
200	NSYRP2

Mounting plates for modular consoles

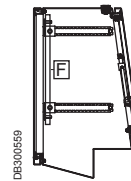
- Steel mounting plates can be installed at the back of modular consoles (F).
- See more information about the mounting plates pages 338 to 346.



Modular console width (mm)	Fixing centre-to-centre distance (mm)		Plain mounting plate	Microperforated mounting plate	Telequick mounting plate
	Height	Width			
400	325	325	NSYMM44	NSYMF44	NSYMR44
600	625	325	NSYMM64	NSYMF64	NSYMR64



Example installation of a mounting plate in a console depth 200 mm.



Example installation of a mounting plate in a console depth 300 mm.

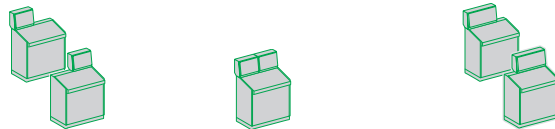
Combination examples of modular consoles installation

600



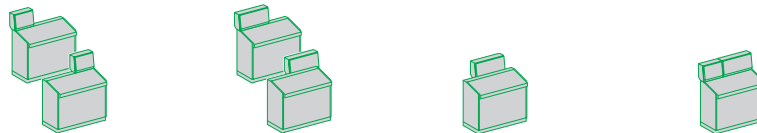
	Reference	
Compact control desk	NSYSD6R	NSYSD6R
Modular console	NSYSDC42/ NSYSDC43	NSYSDC62/ NSYSDC63
Blanking cover	NSYRP2	-

800



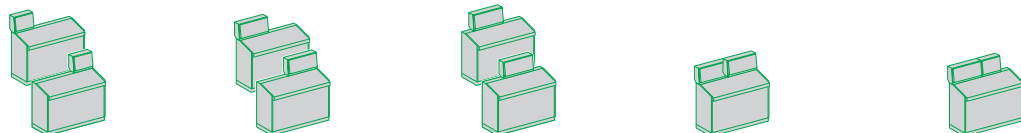
	Reference		
Compact control desk	NSYSD8R	NSYSD8R	NSYSD8R
Modular console	NSYSDC42/ NSYSDC43	2 x NSYSDC42/ 2 x NSYSDC43	NSYSDC62/ NSYSDC63
Blanking cover	2 x NSYRP2	-	NSYRP2

1000



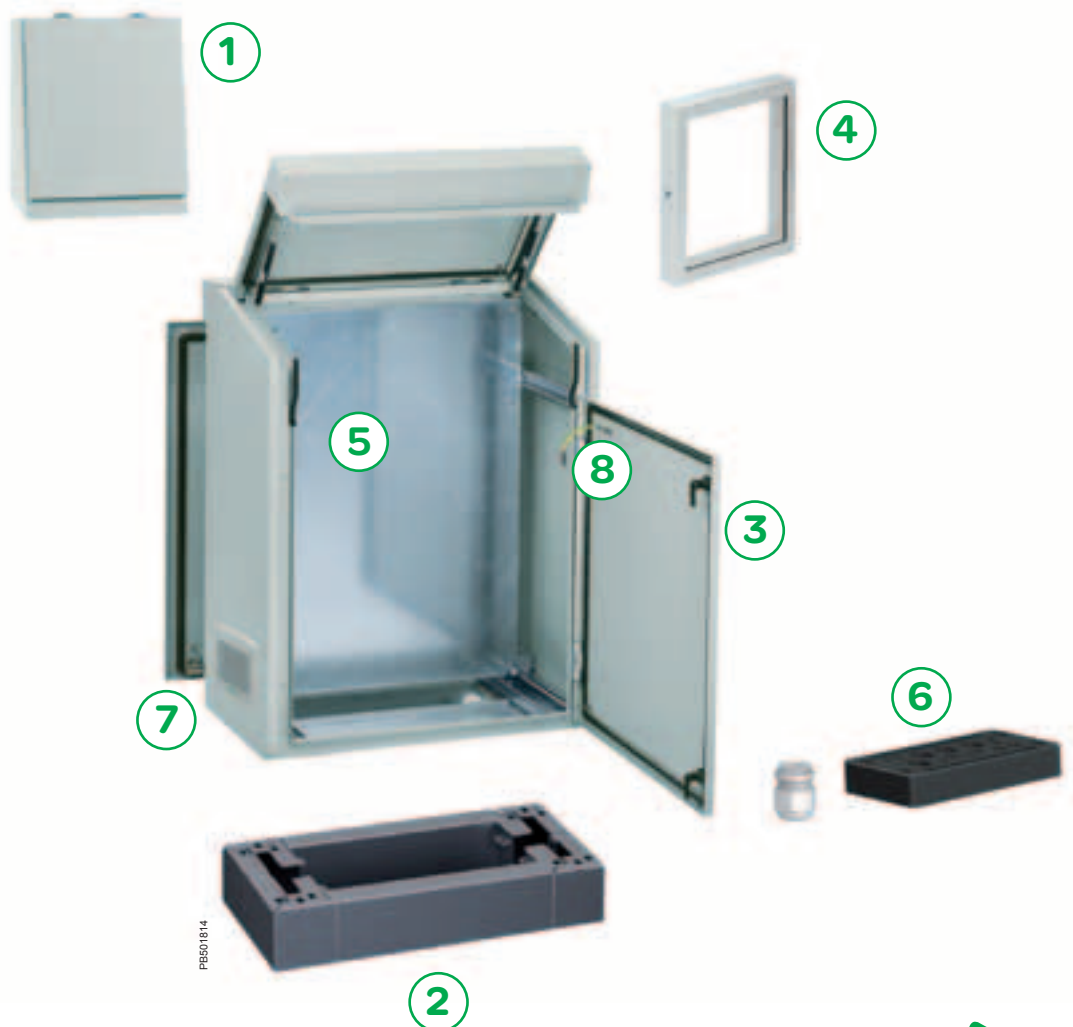
	Reference			
Compact control desk	NSYSD10R	NSYSD10R	NSYSD10R	NSYSD10R
Modular console	NSYSDC42/ NSYSDC43	NSYSDC62/ NSYSDC63	NSYSDC62/ NSYSDC63	NSYSDC42 + NSYSDC62/ NSYSDC43 + NSYSDC63
Blanking cover	3 x NSYRP2	2 x NSYRP2	2 x NSYRP2	-

1200



	Reference				
Compact control desk	NSYSD12R	NSYSD12R	NSYSD12R	NSYSD12R	NSYSD12R
Modular console	NSYSDC42/ NSYSDC43	NSYSDC62/ NSYSDC63	NSYSDC62/ NSYSDC63	2 x NSYSDC62/ 2 x NSYSDC63	NSYSDC42 + NSYSDC62/ NSYSDC43 + NSYSDC63
Blanking cover	4 x NSYRP2	3 x NSYRP2	3 x NSYRP2	-	NSYRP2

DE900662



> Composition

- 1 Modular consoles
see page 528
- 2 Floor
see page 534
- 3 Door and locking
see page 535
- 4 Windows
see page 487

> Mounting and cable management

- 5 Installation
see page 538
- 6 Cable management
see page 95 / 434
- 7 Thermal management
see page 671
- 8 Earthing
see page 492



Configured

Save time by having your accessories mounted in the factory!
To find out more about our Configured offer, please contact us.

Control Desks with console

Introduction



Spacial SD Control desk with console

- With a height of 1400 mm, these control desks are available in four widths (800, 1000, 1200 and 1600 mm) and two depths (845 and 1045 mm).
- Full accessibility is provided from the front and rear.

Technical characteristics

- Welded folded sheet steel, thickness 1.5 mm.
- Structured finish, epoxy-polyester powder paint, colour RAL 7035 grey.
- Protection degree IP 55.
- Resistance to external mechanical impacts IK 10.
- Easy removable and reversible front door, opening to 120°. Locking by two-point locks with 3-mm double-bar insert.
- Desk lid equipped with a pneumatic opening stay. Opens to 75°. Perforated reinforcement rails with a pitch of 25 mm for quick installation of cables and cable ducts. Locking by two-point locks with 3-mm double-bar insert.
- Hinged console cover equipped with a pneumatic opening stay. Opens to 75°. Locking by two-point locks with 3-mm double-bar insert.
- Easy removable and reversible rear door, opening to 120°. Locking by three-point lock with flat escutcheon, 5-mm double-bar insert.
- One entry cable-gland plate, with polyurethane gasket.
- Control desk equipped with adjustment rails with a pitch of 25 mm and brackets allowing adjustment of the mounting plate depth.
- M8 x 18-mm earthing bolt for equipotential connection between the door and the body.

Dedicated accessories

- Plinth options see page 534.
- It can also be equipped with a mounting plate (1), see options page 538.
- Locking system: other inserts or cylinders also available, see page 537).
- The console can support the installation of a 14" screen with an optional PC support plate (2), see page 540.



(1) Example of installation of a mounting plate in the upper part. To be order separately.



(2) Example of installation of a PC support plate. To be order separately.

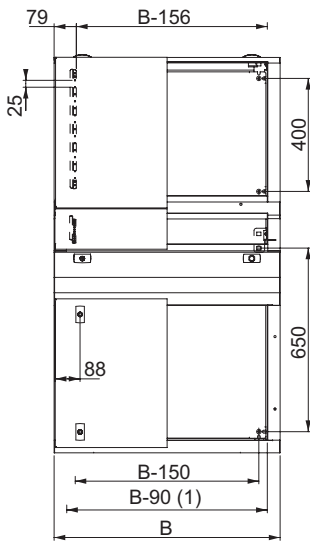
Control desk with console dimensions (mm)			N° Front doors	N° Rear doors	N° cable gland plates	References
Height	Width (B)	Depth				
1400	800	845	1	1	1	NSYSDF88
1400	1000	845	2	2	1	NSYSDF108
1400	1200	845	2	2	1	NSYSDF128
1400	1600	845	2	2	2	NSYSDF168
1400	800	1045	1	1	1	NSYSDF810
1400	1000	1045	2	2	1	NSYSDF1010
1400	1200	1045	2	2	1	NSYSDF1210
1400	1600	1045	2	2	2	NSYSDF1610

Control Desks with console

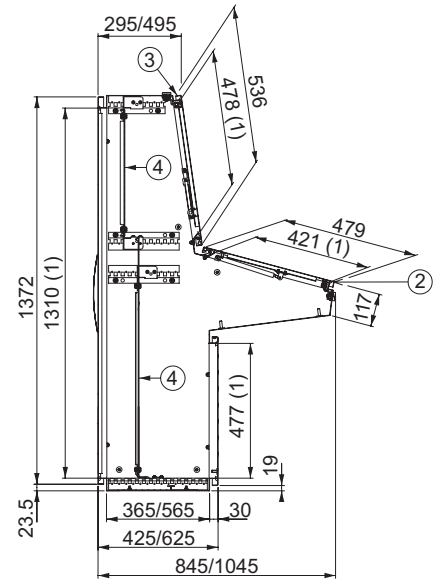
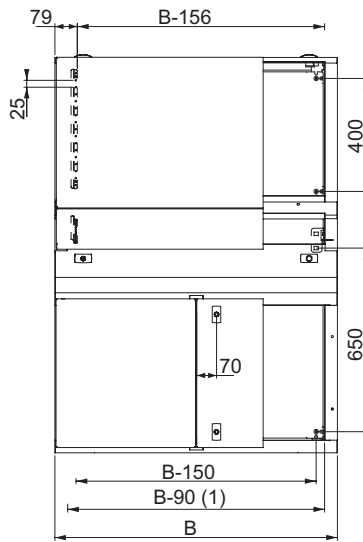
Dimensions

Spacial SD Control desk with console

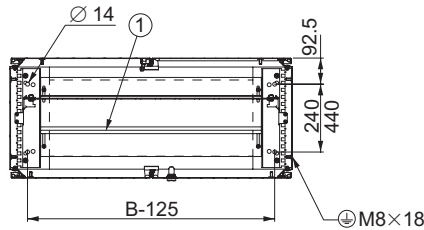
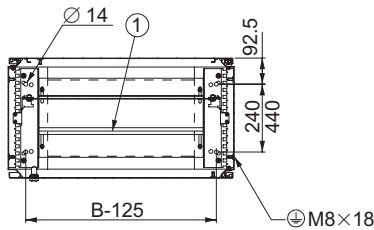
1 door



2 doors



(1) Useful clearance.
Common side view



DB300564EN

Notes	
①	1 entry cable-gland plate
②	Maximum opening of the hinged desk lid: 75°
③	Maximum opening of the hinged console cover: 75°
④	Optional mounting plate installation, see page 538

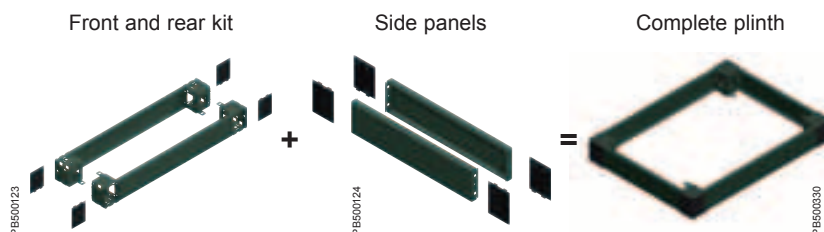
Cable-gland plate clearance dimensions (mm)	
Width	Maximum opening
B-280	56

Composition accessories

Floor accessories

Plinth kit

The complete plinth consists of two elements: on the one hand, the front and rear kit, determined by the width of the enclosure and, on the other hand, the side panels determined by the depth of the enclosure.



Front and rear plinth

Accessory shared with the Spacial SM and SF floor-standing enclosures. Numerous options available: plain, ventilated, with cable gland.

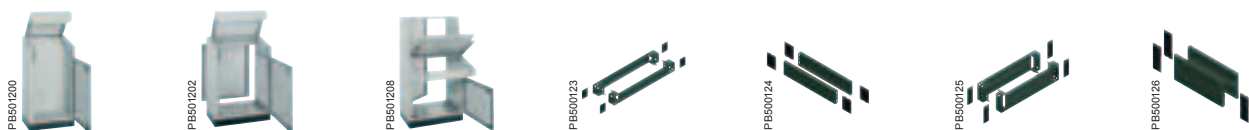
See page 151.

- Supply:
 - **Height 100 mm:** 4 corner pieces, 2 panels (front and rear), 4 corner covers and fixing elements.
 - **Height 200 mm:** 4 corner pieces, 4 panels (2 front and 2 rear), 4 corner covers and fixing elements.

Plinth side panels

They are fixed to the corners of the plinth by two fixing screws.

- Material: folded sheet steel.
- Finish: epoxy-polyester resin paint, RAL 7022 grey colour.
- Protection degree: IP 30 for the complete plinth.
- Resistance to external mechanical impacts: IK10.
- Models with heights: 100 and 200 mm.
- For control desk depths 400, 500 and 600 mm:
- Supply:
 - **Height 100 mm:** 2 side panels, 4 corner covers and fixing elements.
 - **Height 200 mm:** 4 side panels (height of 100 mm, 2 for each side), 4 corner covers and fixing elements.



Control desk references			Plinths			
Compact Control desks		Control desk with console	Height 100 (mm)		Height 200 (mm)	
With fixed rear panel	With removable rear panel		Front and rear kit	Side panels	Front and rear kit	Side panels
NSYS6			NSYS6100	NSYS6100SD	NSYS6200	NSYS6200SD
NSYS8			NSYS8100	NSYS8100SD	NSYS8200	NSYS8200SD
NSYS10			NSYS10100	NSYS10100SD	NSYS10200	NSYS10200SD
NSYS12			NSYS12100	NSYS12100SD	NSYS12200	NSYS12200SD
	NSYS6R		NSYS6100	NSYS6100SD	NSYS6200	NSYS6200SD
	NSYS8R		NSYS8100	NSYS8100SD	NSYS8200	NSYS8200SD
	NSYS10R		NSYS10100	NSYS10100SD	NSYS10200	NSYS10200SD
	NSYS12R		NSYS12100	NSYS12100SD	NSYS12200	NSYS12200SD
		NSYSDF88	NSYSDF8100	NSYSDF8100SD	NSYSDF8200	NSYSDF8200SD
		NSYSDF108	NSYSDF10100	NSYSDF10100SD	NSYSDF10200	NSYSDF10200SD
		NSYSDF128	NSYSDF12100	NSYSDF12100SD	NSYSDF12200	NSYSDF12200SD
		NSYSDF168	NSYSDF16100	NSYSDF16100SD	NSYSDF16200	NSYSDF16200SD
		NSYSDF810	NSYSDF8100	NSYSDF8100SD	NSYSDF8200	NSYSDF8200SD
		NSYSDF1010	NSYSDF10100	NSYSDF10100SD	NSYSDF10200	NSYSDF10200SD
		NSYSDF1210	NSYSDF12100	NSYSDF12100SD	NSYSDF12200	NSYSDF12200SD
		NSYSDF1610	NSYSDF16100	NSYSDF16100SD	NSYSDF16200	NSYSDF16200SD

Composition accessories

Door accessories



PB601213

Pneumatic opening stay

- Holds the desk lid in open position at an angle of 75°.
- Delivered with fixings.

Nominal load per stay (N)	Stay reference
244	NSYPLS24
300	NSYPLS30

- The stays are delivered as standard with the control desks, according to the following table:

Max. load on lid (kg)	Control desk reference	Standard supply stay
13	NSYSD6 and NSYSD6R	NSYPLS24
13	NSYSD8 and NSYSD8R	NSYPLS24
17	NSYSD10 and NSYSD10R	NSYPLS30
15	NSYSD12 and NSYSD12R	NSYPLS30
13	NSYSDF88 and NSYSDF810	NSYPLS24
17	NSYSDF108 and NSYSDF1010	NSYPLS30
15	NSYSDF128 and NSYSDF1210	NSYPLS30
11	NSYSDF168 and NSYSDF1610	NSYPLS30



PB601214

Document lip

- Retaining bar to be fixed on the front of the inclined control desk lid. Prevents documents and equipment from falling.
- Material: PVC, RAL 7011 grey.
- Fixing by adhesive.

Control desk width (mm)	Reference
600	NSYDL6
800	NSYDL8
1000	NSYDL10
1200	NSYDL12
1600	NSYDL16

Composition accessories

Locking system



PB501215

Locks and inserts

- The Control desks are supplied with 3 mm double-bar escutcheon locks as standard.
- Possibility to replace the standard shape insert:

Description	Reference
8-mm triangular insert	NSYTT8CRN
8-mm male square insert	NSYTC8CRN
7-mm male square insert	NSYTC7CRN



PB501216

NSYML405SD

Escutcheon with key lock

- Polyamide PA 6 material charged with 30% fibreglass.
- RAL 7011 grey.
- Fire resistance: 650°.
- Resistance to external mechanical impacts: IK 10.
- Insert breakage torque: 15 daN.

Description	Reference
405 E key	NSYML405SD



PB501217

Pivoting handle

- To be installed on the rear door of Control desk with console, replacing the flat escutcheon supplied as standard.
- Ergonomic locking system with pivoting handle (delivered without insert).
- Broad range of inserts for covering the greatest variety of needs (shape inserts, DIN cylinders, KABA, ASSA). See page 537.
- Changing the opening direction to right / left thanks to the symmetric design of the lock unit (no linkages to be removed). Lock unit supported by 2 screws.

Technical features

- Material: PA 6 charged with 30% fibreglass.
- Colour RAL 7011 grey.
- Fire resistance: 650°.
- Resistance to external mechanical impacts: IK 10.


Description	Reference
Pivoting handle without insert	NSYS DH


Composition accessories

Locking system

Shape inserts and cylindrical barrels for pivoting handle

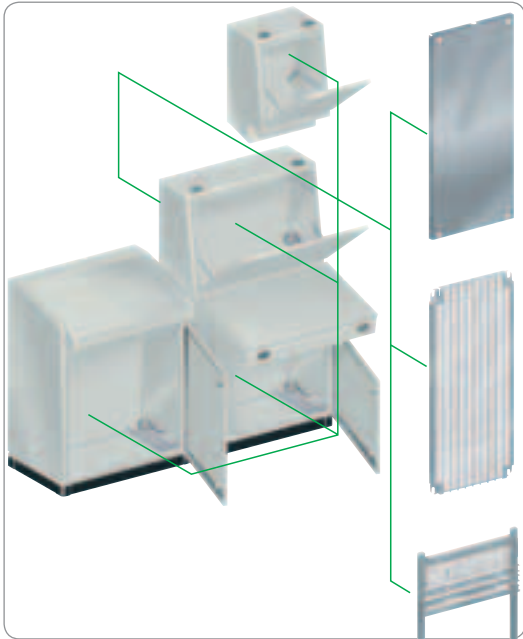
Shape inserts		Reference
 <p>PB500614</p>	6-mm square insert	NSYINS61
	6-mm female square insert	NSYINS6G1
	7-mm square insert	NSYINS71
	8-mm square insert	NSYINS81
	8-mm female square insert	NSYINS8G1
	8-mm square insert with slot	NSYINS8H1
	6.5-mm triangular insert	NSYINT61
	7-mm triangular insert	NSYINT71
	8-mm triangular insert	NSYINT81
	9-mm triangular insert	NSYINT91
	10-mm triangular insert	NSYINT101
	10-mm keyless hexagonal insert	NSYINH31
	3-mm double-bar insert	NSYINDB31
	5-mm double-bar insert	NSYINDB51
	Daimler Benz insert	NSYINBENZ1
	Fiat insert	NSYINFIAT1
	USA keyless slot insert	NSYINUSA1
	2 x 4 keyless slot insert	NSYIN241
Crown insert	NSYINCW1	

Push button		Reference
 <p>PB501218</p>	Push button	NSYINPULSD

Cylindrical barrels		Reference
 <p>PB500616</p>	Lock with 405E key	NSYIN405E1
	Lock with 421E key	NSYIN421E1
	Lock with 455 key	NSYIN4551
	Lock with 1242E key	NSYIN1242E1
	Lock with 1332E key	NSYIN1332E1
	Lock with 2124E key	NSYIN2124E1
	Lock with 2131A key	NSYIN2131A1
	Lock with 2132A key	NSYIN2132A1
	Lock with 2331A key	NSYIN2331A1
	Lock with 2433A key	NSYIN2433A1
	Lock with 2452E key	NSYIN2452E1
	Lock with 3113A key	NSYIN3113A1
	Lock with 3122E key	NSYIN3122E1
	Lock with 3123A key	NSYIN3123A1
	Lock with 3133A key	NSYIN3133A1
	Lock with 3422E key	NSYIN3422E1
	Lock with 3432E key	NSYIN3432E1
	Lock with EDF1300 key	NSYINF1301
	Lock with EDF1400 key	NSYINF1401
	Michelin 8079 keyless lock	NSYINICHEL8791
Michelin 8133 keyless lock	NSYINICHEL8131	
Michelin 8376 keyless lock	NSYINICHEL8371	
E1 keyless lock	NSYINE11	

Mounting accessories

Installation accessories



PE601219

Plain mounting plate

- For repetitive equipment.
- To install equipment fixed by screws, with drill holes made by the customer.
- Addition of rails for clip in equipment.

Telequick mounting plate

- For repetitive equipment.
- For easy installation of equipment fixed by screws, without drilling.
- Addition of rails for clip in equipment.
- Upgradeable solution, during or after manufacturing the equipment.

Mixed mounting plate

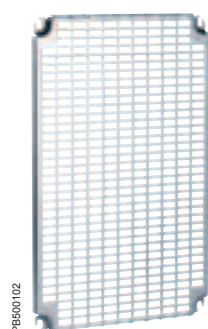
- Solution supporting plain and Telequick mounting plates and DIN rails chassis.
- Flexibility of use: allows the installation of screw-on and clip in devices.
- Upgradeable solution, during or after manufacturing the equipment.
- Power cable can be installed at the rear.
- Option of having equipment on the front and rear.

Installation type	Compact control desks				Control desk with console							
	Plain		Telequick		Plain		Telequick		Plain		Telequick	
Control desk width (B) (mm)	Surface (dm ²)	Reference	Surface (dm ²)	Reference	Surface (dm ²)	Reference	Surface (dm ²)	Reference	Surface (dm ²)	Reference	Surface (dm ²)	Reference
600	35	NSYPMP8560	34	NSYTMP6760	-	-	-	-	-	-	-	-
800	49	NSYPMP8580	48	NSYTMP6780	31	NSYPMP4580	30	NSYTMP4280	49	NSYPMP8580	48	NSYTMP6780
1000	63	NSYPMP85100	61	NSYTMP67100	40	NSYPMP45100	39	NSYTMP42100	63	NSYPMP85100	61	NSYTMP67100
1200	77	NSYPMP85120	75	NSYTMP67120	77	NSYPMP45120	39	NSYTMP42120	77	NSYPMP85120	75	NSYTMP67120
1600	-	-	-	-	67	NSYPMP45160	-	-	105	NSYPMP85160	-	-



Plain mounting plate

- Material: galvanised sheet steel.
- Thickness: 2,5 mm.
- Can be installed on:
 - Compact control desks, in the lower part (A).
 - Control desks with console:
 - In the upper part (B) (1)
 - In the lower part (C)
 - Across the entire height (D) (1)
 - In the desk (E)



Telequick mounting plate

- Material: zinc-coated steel.
- Thickness: 2 mm.
- Can be installed on:
 - Compact control desks, in the lower part (A).
 - Control desks with console:
 - In the upper part (B) (1)
 - In the lower part (C)
 - Across the entire height (D) (2)

(1) For this installation, order a set of 4 adjustment rails and fixing brackets (see page 540).

(2) For this installation, order a set of 2 uprights ref. **NSYTVR14** and set of 4 adjustment rails and 4 fixing brackets.

Installation type	Control desk with console							
	Mounting plates							
	Plain		Telequick		Plain		Telequick	
Control desk width (B) (mm)	Surface (dm ²)	Reference	Surface (dm ²)	Reference	Surface (dm ²)	Reference	Surface (dm ²)	Reference
600	–	–	–	–	–	–	–	–
800	90	NSYMP148	84	2 x NSYSTMP6080	28	NSYSPMP4080	–	–
1000	116	NSYMP1410	108	2 x NSYSTMP60100	36	NSYSPMP40100	–	–
1200	142	NSYMP1412	132	2 x NSYSTMP60120	44	NSYSPMP40120	–	–
1600	–	–	–	–	60	NSYSPMP40160	–	–



PB501815

Fixing brackets

- Set of 4 fixing brackets.
- Depth adjustment on 25 mm pitch.
- Included as standard with desk (all versions).
- Material: 4 mm thick galvanized steel.
- Maximum load: 250 kg.
- To be ordered separately when required for installation of two back to back mounting plates in control desks with rear access.

For desk width	Reference
600 -1600	NSYMPBSD

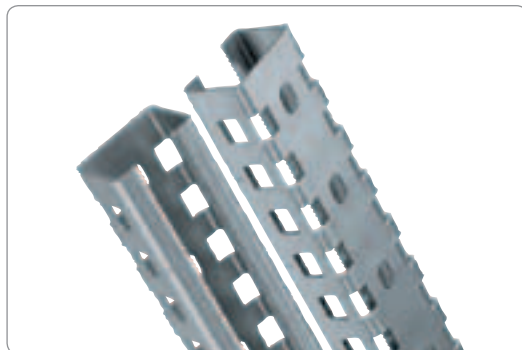


PB501815

Adjustment rails and fixing brackets

- Set of 4 rails and 4 fixing brackets.
- To install a plain mounting plate or a Telequick mounting plate, either at the top or across the height of the monobloc control desk with console.
- For positioning 2 plates (back to back), order fixing brackets ref. **NSYMPBSD**.

For control desks with console. Depth (mm)	Reference
400	NSYMPB4SD
600	NSYMPB6SD



PB500483

Technical uprights

- Set of 2 equipment uprights.
- Support for fixing Telequick mounting plates and rails.
- Material: Zink coated with a thickness of 20/10 mm.

For control desk height (mm)	Centre-to-centre distance (mm)	Reference
1000	650	NSYTVR8
1400	1250	NSYTVR14



PE301210

PC screen support

- For a control desk with monobloc console with a depth of 600 mm.
- This support is a galvanized mounting plate, in horizontal position, fixed to the adjustment rails of the console.
- Maximum acceptable load: 50 kg/m².
- Delivered with fixings.

For width (mm)	Reference
800	NSYPCS8
1000	NSYPCS10
1200	NSYPCS12
1600	NSYPCS16



Configured

Save time by having your accessories mounted in the factory. To find out more about our Configured offer, please contact us.

Configured

- Standard dimensions and finishes.
- Machining.
- Standard accessory installation.



PB501195



Specific

Optimisation of your time: with our customisation services which provide the enclosure in your colours and with your cut-outs. Please consult us.

Specific

- Special dimensions.
- Finishes.
- Cut-outs.
- Accessory installation.

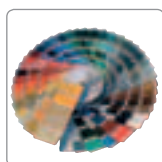


PB501781

Customised service: All standard dimensions from our catalogue on request and more...



Specific



PB501688

Paints



PB500359

Holes & Cutouts



PB501690

Mounting



PB501691

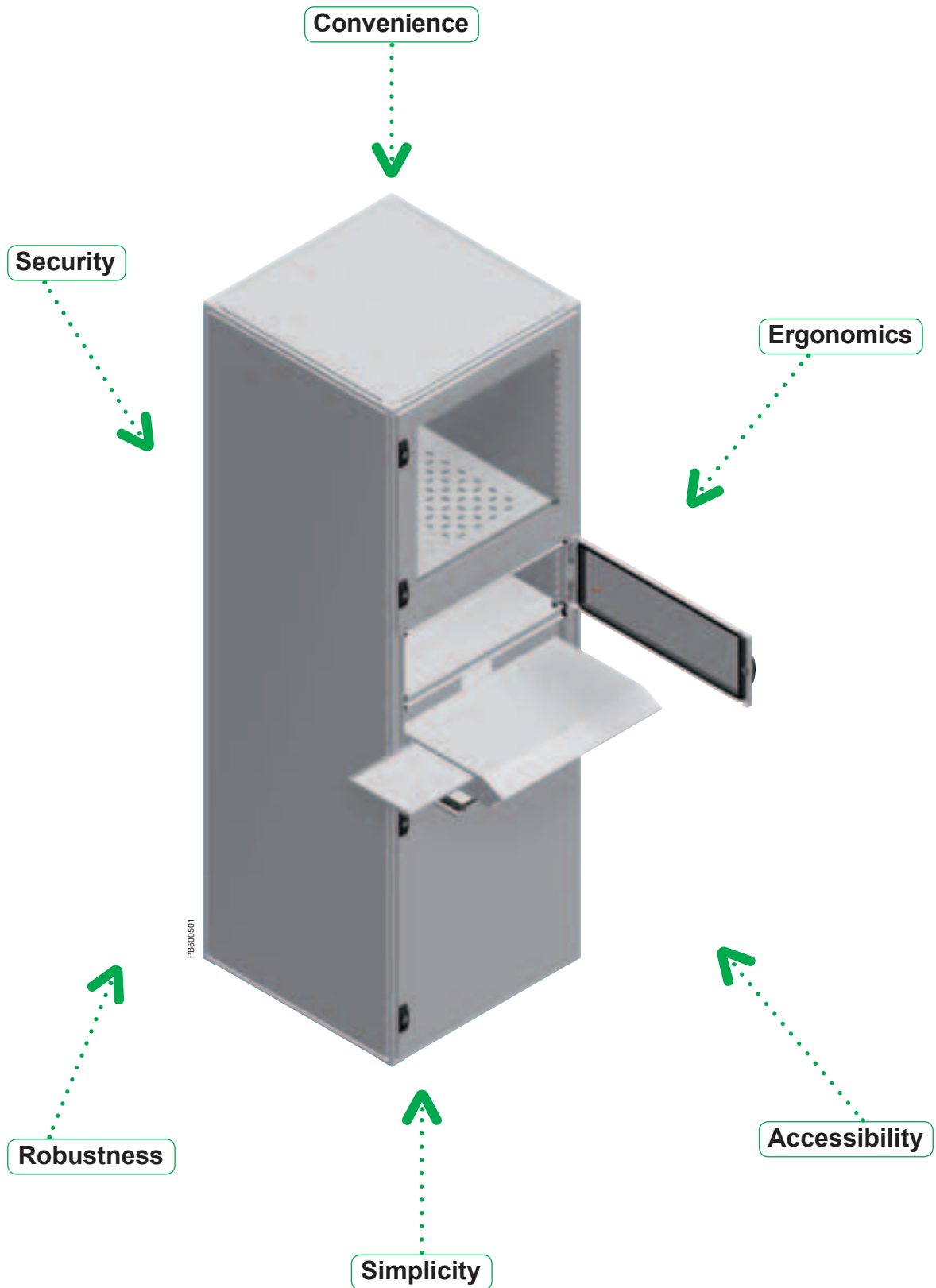
Construction changes



PB501692

Accessories

Steel suitable PC racks



The Spacial SF PC rack is designed to protect and control computer equipment in an industrial environments.

Security:

The roof and panels, fixed from the inside, prevent access by unauthorised personnel.

Convenience:

Anti-glare glazed door designed for viewing until 25,5° screens.
Cable entry made easier by a cable-land plate in 2 pieces.

Ergonomics:

Access to the various functions and working heights, guaranteeing optimum comfort.
Partial doors delimit the access to each function with a 3 mm double-bar lock.
Built-in screen and CPU support.
Built-in keyboard and mouse support.

Accessibility:

The Spacial SF PC rack offers full accessibility from all sides of the enclosure.

Robustness:

Spacial SF structure formed from a single 1.5 mm galvanised-steel section, with a high moment of inertia.
Vertical uprights joined with top and bottom frames, screwed together with connections of sintered steel.
Panels built into the structure.

Simplicity:

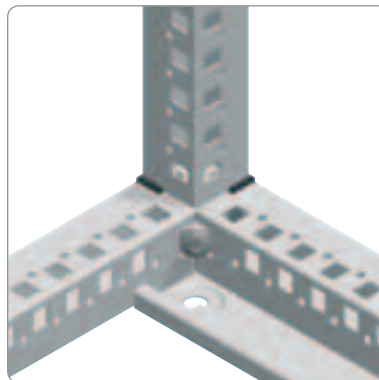
The Spacial SF design allows enclosures to be coupled in any direction, adapting to all installation surfaces.



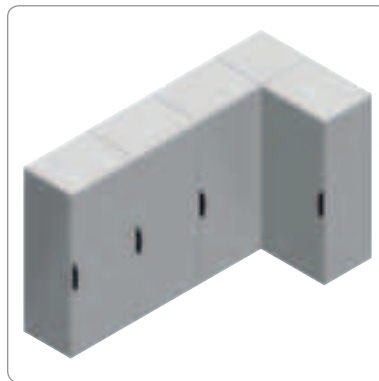
PBS00064



PBS00065



PBS000490



PBS000495



Specific

Customised enclosure production, contact us.



Detail of 3 mm DB lock on partial door.



Detail of 5 mm DB lock on rear door.

Introduction

Enclosure designed to protect and control computer equipment in an industrial environments.

- Available in two heights: 1600 and 1800 mm.

Technical characteristics

- Structure: top and bottom frame and vertical uprights.
- Structured finish, epoxy-polyester powder paint, RAL 7035 grey colour.
- Protection degree: IP 55, or IP 40 with hinged keyboard.
- Resistance to external mechanical impacts: IK 10.

Composition

- Models:
 - Partial door for PC screen, with Securit® anti-glare glass.
 - Plain partial door for CPU (enclosures with height of 1800 mm).
 - Hinged plain door for keyboard.
 - Plain partial door for optional installation of A4 printer support.
- Partial front doors opening to the right.
- Plain rear door, reversible opening direction (right or left).
- Locking system with flat escutcheon, made from polyamide 6 with 30% fibreglass, RAL 9005 black, with 5 mm double-bar insert for the plain rear door, and small flat escutcheon with 3 mm double-bar insert for the partial front doors.
- Roof and side panels fixed from the inside.
- Cable-gland plate with 1 entry.

Ergonomics

- Partial front doors delimit the access to each function.
- Glued anti-glare window.
- Access to the various functions and working heights, guaranteeing optimum comfort during use.

Monitor-screen compartment

- The anti-glare glazed door is designed for viewing screens:
 - Maximum 25,5".
- The monitor tray can withstand a maximum weight of 150 kg, evenly distributed.

CPU / keyboard compartment

- The CPU is placed on a fixed tray.
- Telescopic keyboard support with a built-in mouse support.

Optional accessories

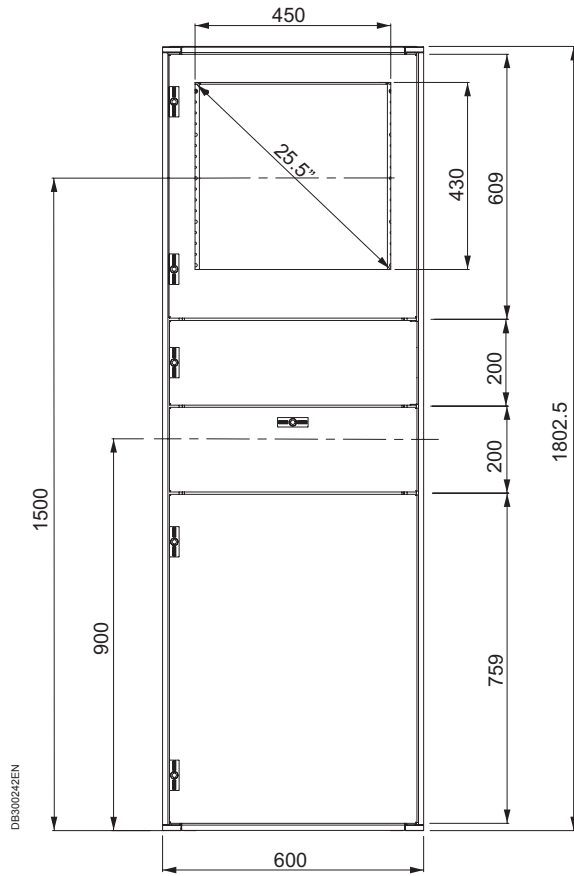
- Plinths with heights of 100 and 200 mm, [see page 546](#).
- Other locks for partial doors, [see page 546](#).
- Tray installed on a telescopic rail, [see page 547](#).
- Possibility to install a printer support in the lower part of the enclosure, [see page 547](#).

Certifications

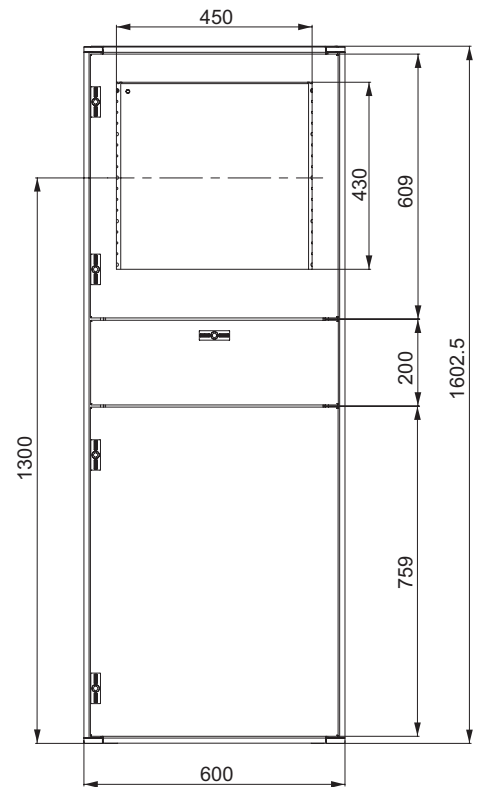
- UL*, CUL.
- *1, 12, 12 K.

Spacial SF PC rack dimensions (mm)			No. of compartments	Reference
Height (A)	Width (B)	Depth (C)		
1600	600	600	3	NSYSF16660PC
		800	3	NSYSF16680PC
1800		600	4	NSYSF18660PC
		800	4	NSYSF18680PC

Dimensions



PC rack with a height of 1800 mm.



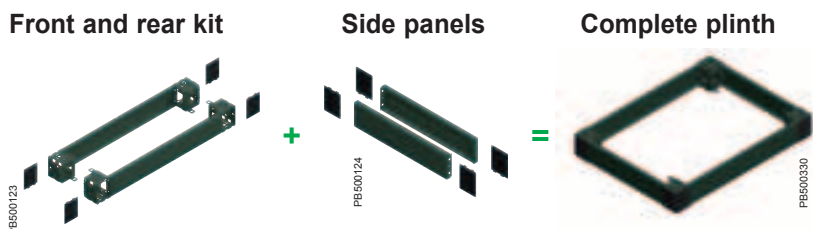
PC rack with a height of 1600 mm.

Steel suitable PC racks

Composition accessories

Plinth kit

The complete plinth consists of two elements: on the one hand, the front and rear kit, determined by the width of the enclosure and, on the other hand, the side panels determined by the depth of the enclosure.



- See Spacial SF composition accessories: floor, page 143.
- Model heights: 100 and 200 mm.

Front plinth

- Supply:
- **Height 100 mm:** four corners, two panels (front and rear), four corner covers and fixing elements.
 - **Height 200 mm:** four corners, four panels with a height of 100 mm (two front and two rear), four corner covers and fixing elements.

Plinth side panels

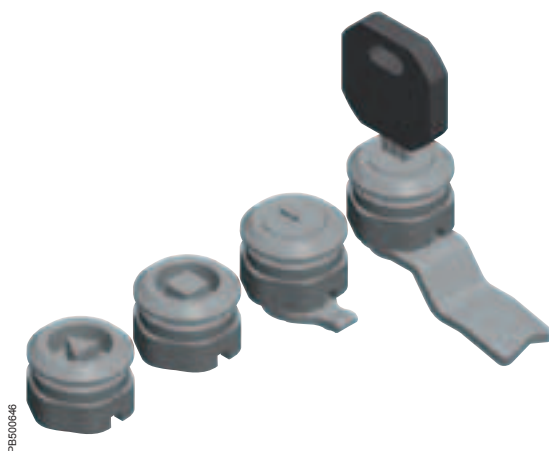
- Supply:
- **Height 100 mm:** two side panels, four corner covers and fixing elements.
 - **Height 200 mm:** four side panels with a height of 100 mm (two for each side), four corner covers and fixing elements.

Spacial SF Dimensions (mm)		Front plinth reference (mm)		Plinth side panel reference (mm)	
Width	Depth	100	200	100	200
600	600	NSYSPF6100	NSYSPF6200	NSYSPS6100	NSYSPS6200
600	800			NSYSPS8100	NSYSPS8200

Locks for partial doors

- Locks to replace the 3 mm double-bar lock supplied with the partial doors.
- Models:
 - Transformation of lock with shape inserts, triangular 6.5 mm and square 6 mm.
 - Lock with 2233X key for partial doors.
 - Lock with 2233X key, exclusive for hinged keyboard door.

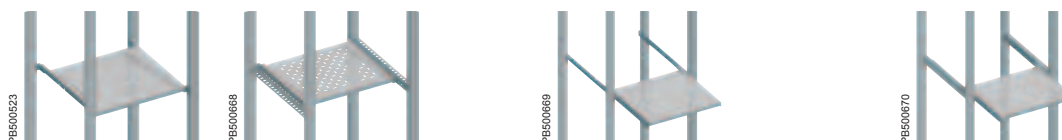
- Supply:
- Lock with shape inserts, triangular 6.5 mm and square 6 mm: metal body, shape insert and safety washer.
 - Lock with 2233X key for partial doors: metal body, insert, bolt, safety washer and key.
 - Lock with 2233X key, exclusive for hinged keyboard door: metal body, insert, special bolt, safety washer and key.



Description	Reference
One lock with 6.5 mm triangular insert for partial and hinged door	NSYMLT6
One lock with 6 mm square insert for partial and hinged door	NSYMLS6
One lock with 2233X key for partial door	NSYML23
One lock with 2233X key for hinged keyboard door	NSYMLCD23

Trays

- Optional installation of a supplement fixed or telescopic tray directly on structure or on cross rails.
- Acceptable load: 150 kg for fixed trays and 50 kg for telescopic rails, both evenly distributed.
- See more details and other options on Mounting: Equipment support accessories, page 375.




Installation type		Fixed Trays				Telescopic Trays					
		On structure		On cross rails		On structure		On cross rails			
PC rack dimensions (mm)		Tray	Tray	Universal cross rail	Quick cross rail	Tray	Telescopic rails	Tray	Telescopic rails	Universal cross rail	Quick cross rail
Width	Depth			40 mm (1 row)	40 mm (1 row)					40 mm (1 row)	40 mm (1 row)
600	600	NSYFXT6060	NSYFXT6060	NSYSUCR4060	NSYSQCR4060	NSYFXT6060	NSYTTG60	NSYFXT6060	NSYTTG60	NSYSUCR4060	NSYSQCR4060
600	800	-	NSYFXT6060	NSYSUCR4080	NSYSQCR4080	-	-	NSYFXT6060	NSYTTG60	NSYSUCR4080	NSYSQCR4080



Handle for telescopic trays

- Handle designed for easy extraction of the sliding trays.
- Material: polyamide 6 (black).


 Supply: two units and fixing elements.

Reference
NSY1TH



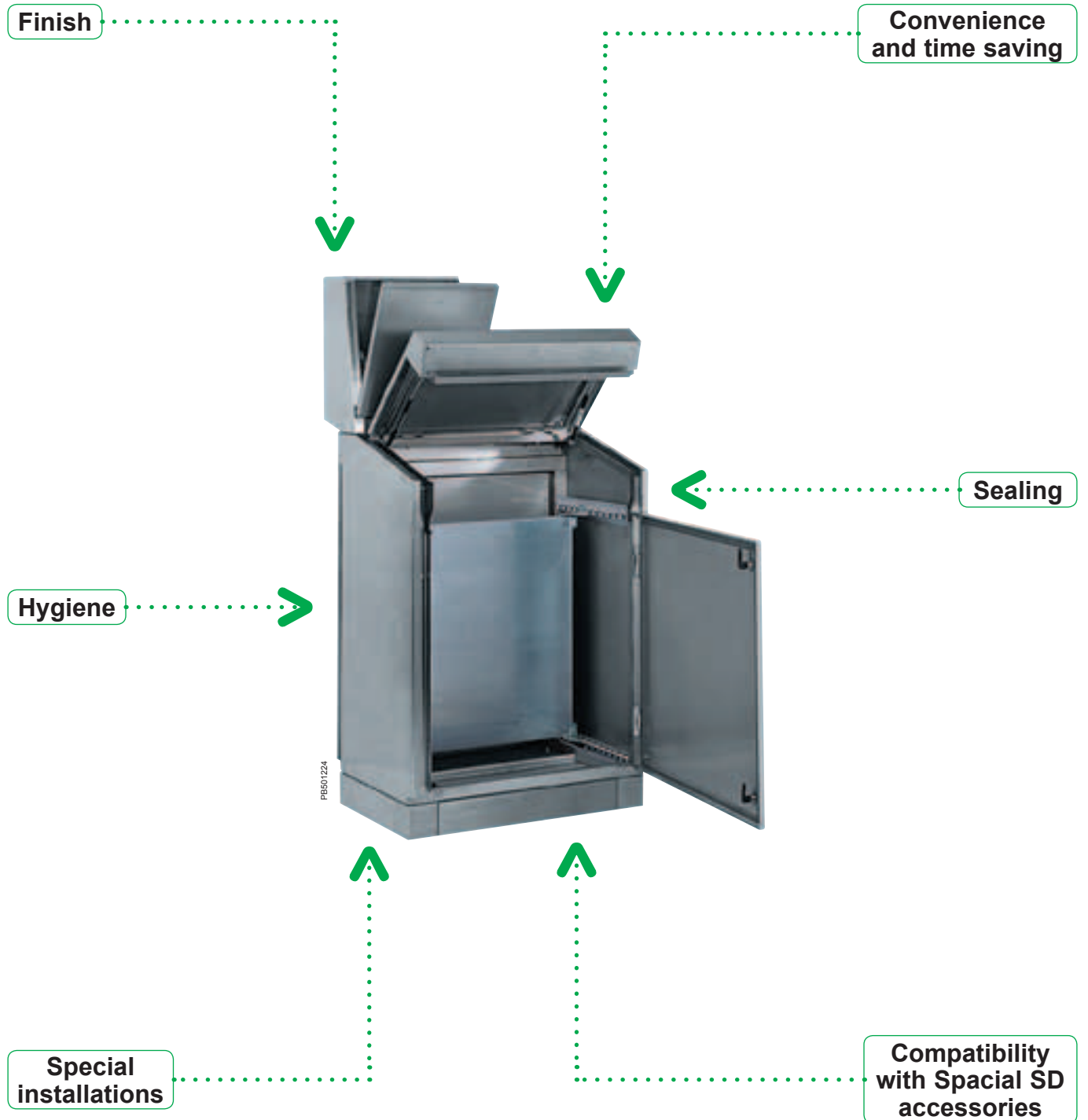
Printer support

- Support for placing an A4 printer, with area reserved for paper.
- Fixed directly to the structure of the enclosure, with a depth of 600 mm. For a depth of 800 mm, it can be installed with 40 mm (1 row) universal or quick-fixing cross rails, see page 373.
- Material: steel painted RAL 7035 grey.

 Supply: one printer support and fixing elements.

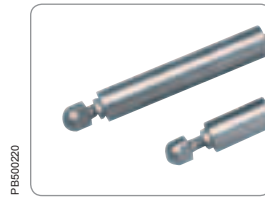
Reference
NSYPSA4

Stainless-steel control desks



Hygiene:

The high quality of the standard finish enables very easy maintenance while avoiding contamination. The hygienic feet made from 316L stainless steel, 100 mm and 200 mm high, make it easier to clean under the enclosures.



Sealing:

- Protection rating of IP 55:
 - complete protection against dust and water sprays.
- Door and body gaskets made from polyurethane.
- Single-piece cable-gland plate with polyurethane gasket.
- Removable plates for concealing the free space left by the console.



Resistance to corrosion:

High resistance to corrosion. 304L and 316L stainless steels provide the best solutions for applications in extremely demanding environments.

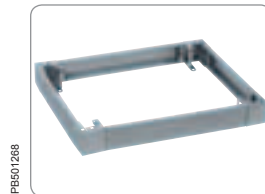


Finishes:

304L stainless steel with Scotch-Brite® brushed finish as standard.
Micro-beaded 316L (on request).

Compatibility with the other ranges:

- Stainless-steel accessories:
 - plinths, locks.
- Accessories of the steel control desks offer:
 - mounting plate, pneumatic opening stay, etc.

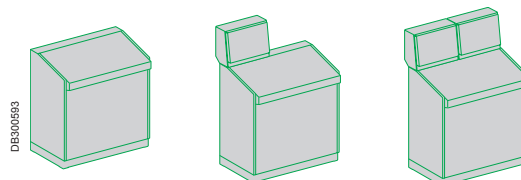


Convenient:

The association of a monobloc control desk with one or more consoles enables all combinations. Complete accessibility to the inside of the control desk thanks to its design without intermediate crossbars. The desk lid and the console are equipped with pneumatic opening stays (opening to 75°) allowing complete access to the inside and preventing sudden falls of the console or the hinged cover. Equipped with adjustment rails for adjusting the depth of the mounting plate. Removable rear panel.



Examples of associations of consoles and control desks:



Multiple combinations available, see page **XXX**.

Stainless-steel control desks

Introduction



Spacial SDX Compact control desk with rear panel

The Spacial SDX range of control desks offers all the functions required to set up a control station that meets the industrial or infrastructural needs of applications in harsh environments or in the food and beverage sector.

Easy to implement, compatible with dialogue components, guaranteeing the security and protection of control devices, these control desks, with their range of dimensions, meet the strictest needs of their users.

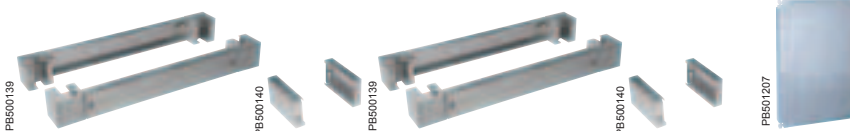
- Removable rear panel. It enables the installation of two mounting plates back-to-back, allowing the installation of a large number of devices, while ensuring full accessibility from the front and the rear.
- At the top, these control desks are equipped with cable-entry cut-outs, that allows the installation of one or more modular consoles.
- With a height of 1000 mm and a depth of 500 mm, this range is available in 4 widths (600, 800, 1000 and 1200 mm).

Technical characteristics

- 304L stainless-steel sheet, thickness 1.5 mm.
- Scotch-Brite® brushed finish.
- Protection degree: IP 55 according to IEC 60529.
- Resistance to external mechanical impacts: IK 10 according to IEC 62262.
- Easy removable and reversible door, opening to 120°. Locking by 3-mm double-bar lock (chrome-plated zamak).
- Hinges made entirely from stainless steel.
- Desk lid equipped with a pneumatic opening stay. Opens to 75°. Perforated reinforcement rails with a pitch of 25 mm for quick fixing of cables and trunkings.
- Top cable-entry cut-outs covered by a entire blanking cover.
- Control desk equipped with adjustment rails with a pitch of 25 mm and brackets allowing adjustment of the mounting plate depth.
- Plain cable-gland plate with 2 adjustable parts, with polyurethane gasket.
- M8 x 18 mm earthing bolt for equipotential connection between the door and the body.

Dedicated accessories

- Stainless-steel modular consoles to be installed on top of compact control desk. See details and combinations page 552.
- It can also be equipped with a mounting plate (2).



Dimensions (mm)			Reference	Number of front doors	316L stainless-steel plinth, height 100 mm (1)		316L stainless-steel plinth, height 200 mm (1)		Plain mounting plate (2)
Height	Width	Depth			Front + corner	Side	Front + corner	Side	
1000	600	500	NSYSDX6	1	NSYSPXF6100H	NSYSPXS5100H	NSYSPXF6200H	2 x NSYSPXS5100H	NSYPMP8560
1000	800	500	NSYSDX8	1	NSYSPXF8100H	NSYSPXS5100H	NSYSPXF8200H	2 x NSYSPXS5100H	NSYPMP8580
1000	1000	500	NSYSDX10	2	NSYSPXF10100H	NSYSPXS5100H	NSYSPXF10200H	2 x NSYSPXS5100H	NSYPMP85100
1000	1200	500	NSYSDX12	2	NSYSPXF12100H	NSYSPXS5100H	NSYSPXF12200H	2 x NSYSPXS5100H	NSYPMP85120

(1) See section on stainless-steel composition accessories.
 (2) See other mounting plates in common accessories.

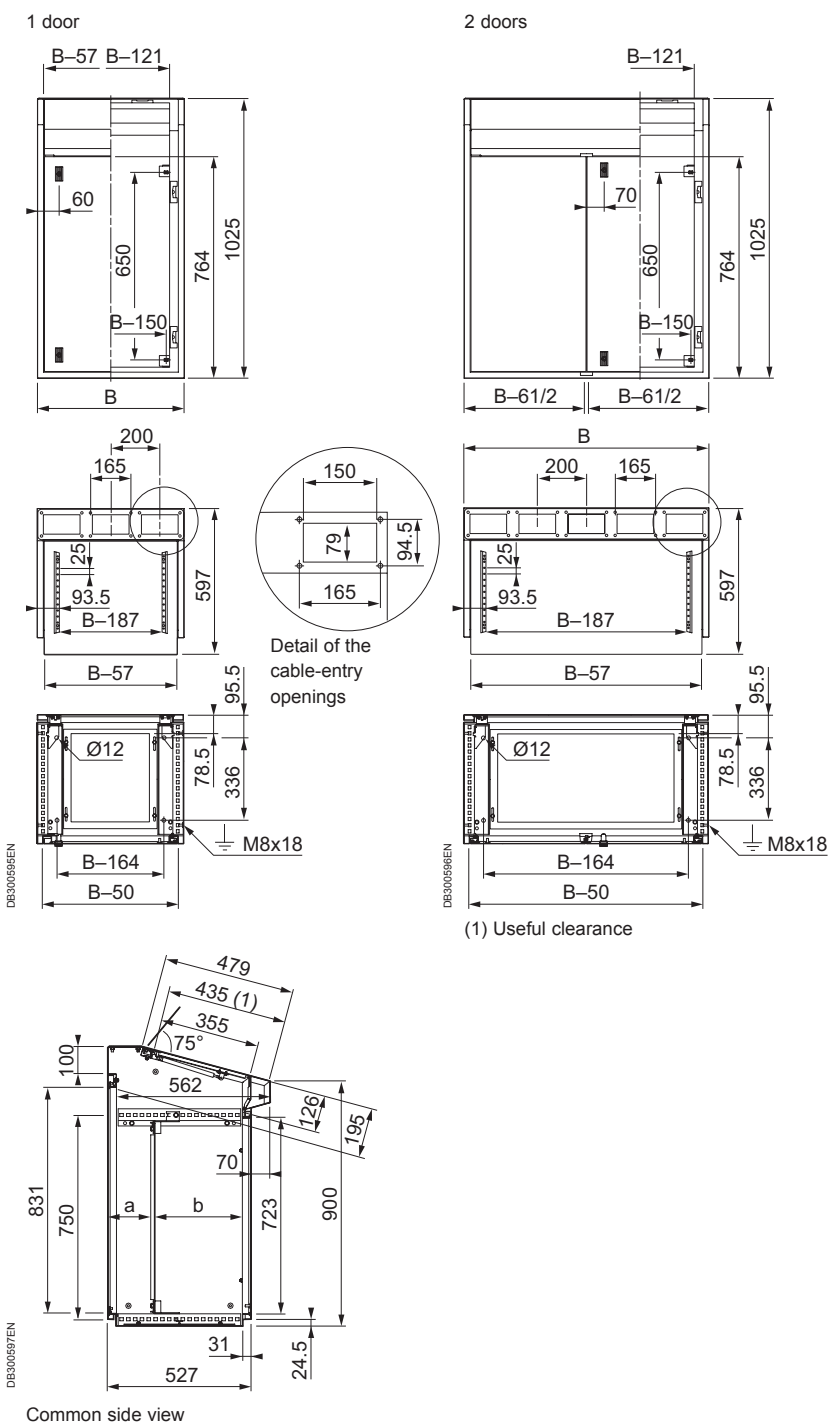
Stainless-steel control desks

Dimensions

Spacial SDX Compact control desk with rear panel

Cable-gland plate clearance dimensions (mm)	
Width	Depth
B-280	370

Adjustment of mounting-plate depth (mm)		
Dimensions	Min.	Max.
a	45	395
b	126	476



Stainless-steel modular consoles

Introduction



PE501226

Stainless-steel modular consoles for Compact control desk with rear panel

- Two widths: 400 and 600 mm.
- Two depths: 200 and 300 mm.

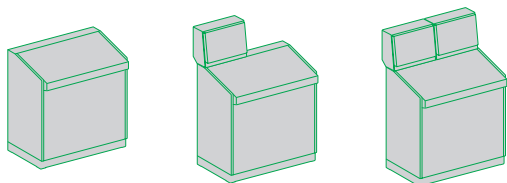
Technical characteristics

- 304L stainless-steel sheet, thickness 1.5 mm.
- Scotch-Brite® brushed finish.
- Protection degree: IP 55.
- Resistance to external mechanical impacts: IK 10.
- Hinged modular console cover equipped with a pneumatic opening stay. Opens to 75°.
- Locking of the hinged modular console cover by two 3-mm double-bar locks (other inserts or barrels also available, to be ordered separately, see page 537).
- Screw fixed rear panel equipped with step slides in the version with a depth of 300 mm.

Dedicated accessories

- The link between the control desk and the modular console requires, in certain cases, the addition of one or several blanking covers (to be ordered separately).
- Optional galvanised mounting plate.

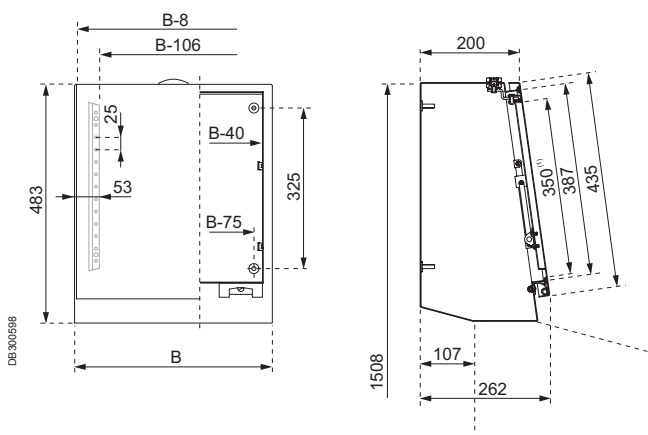
DE300593



Multiple combinations, see page 554.

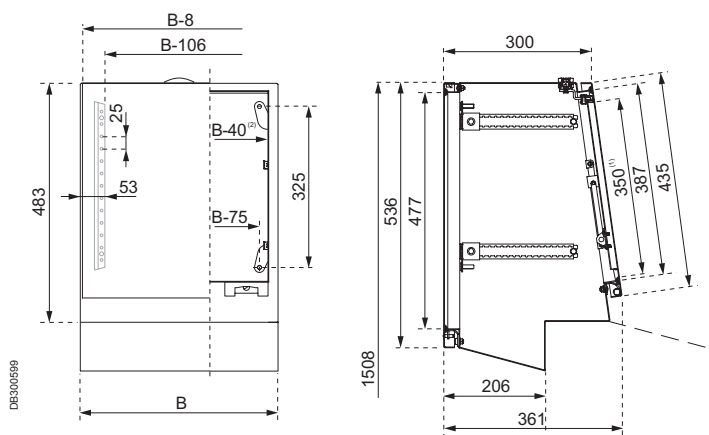
Modular Console dimensions (mm)			N° cable entry cut-outs	Reference
Height	Width (B)	Depth		
483	400	200	2	NSYSDCX42
483	400	300	2	NSYSDCX43
483	600	200	3	NSYSDCX62
483	600	300	3	NSYSDCX63

Modular console, depth: 200 mm



DE300598

Modular console, depth: 300 mm



DE300599

(1) Useful clearance.
 (2) Same dimensions for the rear panel.

Modular consoles

Accessories



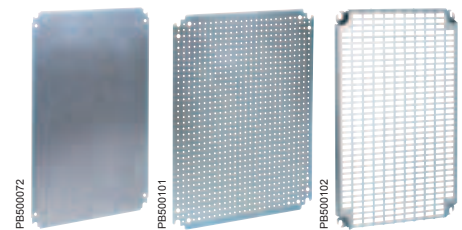
Blanking covers

- To conceal the free space of the control desk when the width of the console or consoles is less than the width of the control desk (see the combination examples below). In any case, it is necessary to previously remove the top plate delivered with the control desk.
- Length: 200 mm.
- 304L stainless-steel, thickness 1.5 mm.
- Fixing by screws.

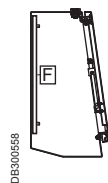
Width (mm)	Reference
200	NSYRPX2

Mounting plates for modular consoles

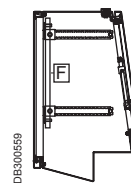
- Steel mounting plates can be installed at the back of modular consoles (F).
- See more information about the mounting plates pages 338 to 346.



Modular Console width (mm)	Fixing centre-to-centre distance (mm)		Plain mounting plate	Microperforated mounting plate	Telequick mounting plate
	Height	Width			
400	325	325	NSYMM44	NSYMF44	NSYMR44
600	325	625	NSYMM64	NSYMF64	NSYMR64

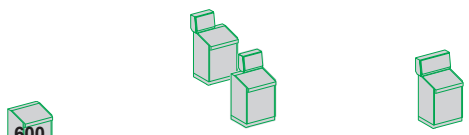


Example installation of a mounting plate in a console depth 200 mm.

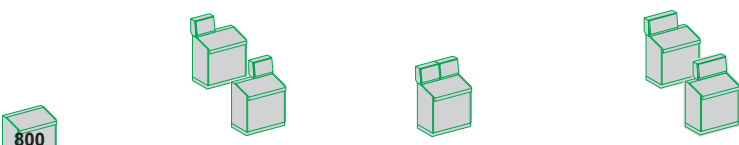


Example installation of a mounting plate in a console depth 300 mm.

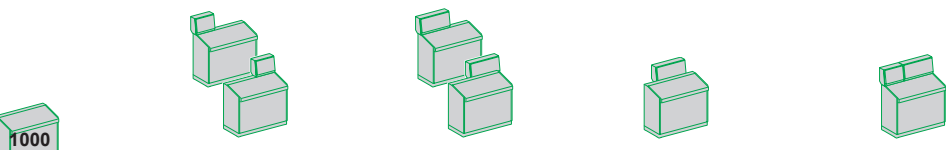
Combination examples of modular consoles installation



	Reference	
Compact control desk	NSYSDX6	NSYSDX6
Modular console	NSYSDCX42/ NSYSDCX43	NSYSDCX62/ NSYSDCX63
Blanking cover	NSYRPX2	-

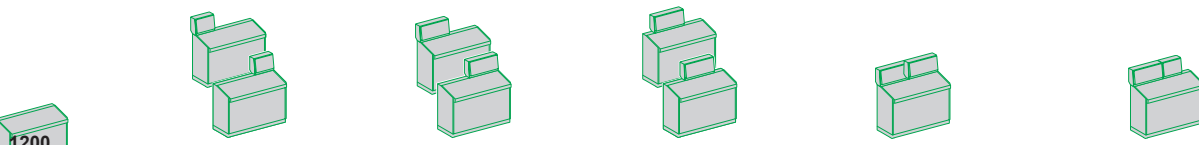


	Reference		
Compact control desk	NSYSDX8	NSYSDX8	NSYSDX8
Modular console	NSYSDCX42/ NSYSDCX43	2 x NSYSDCX42/ 2 x NSYSDCX43	NSYSDCX62/ NSYSDCX63
Blanking cover	2 x NSYRPX2	-	NSYRPX2



	Reference			
Compact control desk	NSYSDX10	NSYSDX10	NSYSDX10	NSYSDX10
Modular console	NSYSDCX42/ NSYSDCX43	NSYSDCX62/ NSYSDCX63	NSYSDCX62/ NSYSDCX63	NSYSDCX42 + NSYSDCX62/ NSYSDCX43 + NSYSDCX63
Blanking cover	3 x NSYRPX2	2 x NSYRPX2	2 x NSYRPX2	-

DE900662



	Reference				
Compact control desk	NSYSDX12	NSYSDX12	NSYSDX12	NSYSDX12	NSYSDX12
Modular console	NSYSDCX42/ NSYSDCX43	NSYSDCX62/ NSYSDCX63	NSYSDCX62/ NSYSDCX63	2 x NSYSDCX62/ 2 x NSYSDCX63	NSYSDCX42 + NSYSDCX62/ NSYSDCX43 + NSYSDCX63
Blanking cover	4 x NSYRPX2	3 x NSYRPX2	3 x NSYRPX2	-	NSYRPX2



PB501213

Pneumatic opening stay

- Holds the desk lid in open position at an angle of 75°.
- Delivered with the fixings.

Nominal load per stay (N)	Stay reference
244	NSYPLS24
300	NSYPLS30

- The stays are delivered as standard with the control desks, according to the following table:

Max. load on lid (kg)	Control desk reference	Standard supply stay
13	NSYSDX6	NSYPLS24
13	NSYSDX8	NSYPLS24
17	NSYSDX10	NSYPLS30
15	NSYSDX12	NSYPLS30

> Customised offer



Configured

Configured

- Standard dimensions and finishes.
- Machining.
- Standard accessory installation.

PB501224



Specific

Specific

- Special dimensions.
- Finishes.
- Cut-cuts.
- Accessory installation.

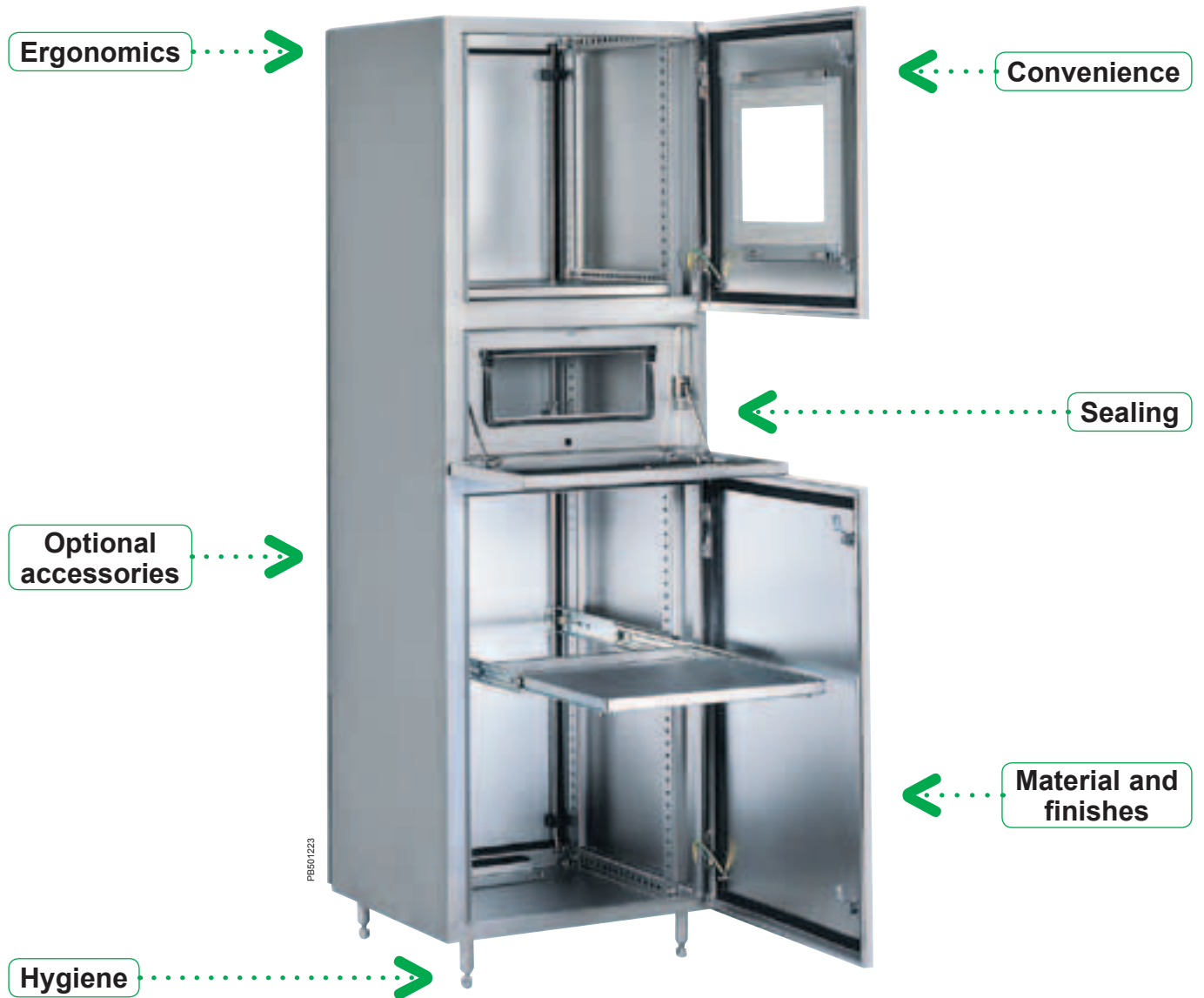
PB501198



PB501236

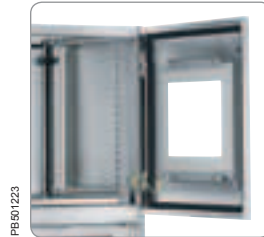


Stainless-steel monobloc PC racks



Convenience:

Anti-glare glazed door designed for viewing 14" and 17" screens by removing part of the silkscreen printing.
Cable entry made easier by a cable-gland plate (at the rear) in 2 pieces.



PB501223

Sealing:

IP 55, even with the keyboard drawer open, thanks to the pivoting Plexiglas shutter.



PB501223

Resistance to mechanical impacts:

Resistance to external mechanical impacts: IK 10.



PB501223

Optional accessories:

Shelf mounted on telescopic rails.



Ergonomic:

Partial doors delimit the access to each function with a 3-mm double-bar lock.
Access to the various functions and working heights, guaranteeing optimum comfort.
Built-in screen and CPU support.
Built-in mouse support.



PB501266

Hygiene:

The high quality of the standard finish enables very easy maintenance while avoiding contamination.
The hygienic feet made from 316L stainless steel, 100 mm and 200 mm high, make it easier to clean under the enclosures.



PB501223

Resistance to corrosion:

High resistance to corrosion. 304L and 316L stainless steels provide the best solutions for applications in extremely demanding environments.



PB501233

Material and finishes:

Micro-beaded 304L as standard.
Micro-beaded 316L on request.

Stainless-steel monobloc PC racks

Introduction



PE501228

Technical characteristics

The stainless-steel monobloc PC racks have been especially designed to protect computer equipment installed in corrosive or specially environments that require washing or exposure to sprays of liquid.

- Monobloc structure in 304L stainless-steel sheet, micro-beaded finish.
- Can be made in 316L stainless steel on request.
- Protection rating: IP 55, even with the keyboard drawer open.
- High resistance to mechanical impacts: IK 10 according to standard IEC 62262.

Composition

- Top and bottom partial doors on the front side.
- Pivoting panel for the keyboard.
- Plain rear door.

Ergonomics

- Partial front doors delimit the access to each function with a 3 mm double-bar lock (other inserts or key locks available).
- Glued anti-glare window.
- Access to the various functions and working heights, guaranteeing optimum comfort during use.

Monitor-screen compartment

- The anti-glare glazed door is designed for viewing screens:
 - 14" as standard,
 - 17" by removing a part of the silkscreen printing.
- The height of the monitor support can be adjusted.
- The monitor shelf can withstand a maximum weight of 50 kg.

CPU / keyboard compartment

- The keyboard fixed to the inside becomes operational by tilting the central panel.
- The CPU is placed on a height-adjustable shelf, visible and accessible through a pivoting, transparent shutter.

Optional accessories

- Shelf installed on a sliding rail, with adjustable height.
- Plinths with heights of 100 and 200 mm.
- Telescopic tray: **NSYTTG60**.



PE501286



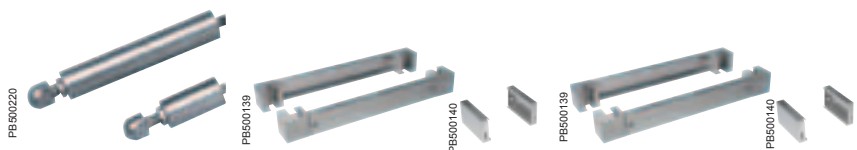
Optimisation of your time: with our customisation services which provide the enclosure in your colours and with your cut-outs. Please consult us.

Specific

304L stainless-steel PC racks



PE501228



PE500220

PE500139

PE500140

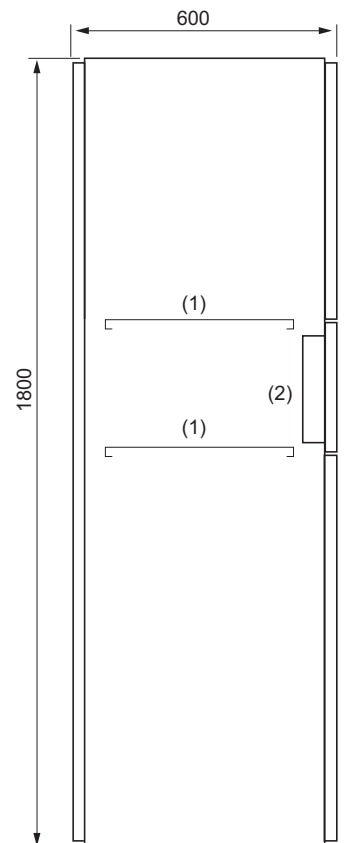
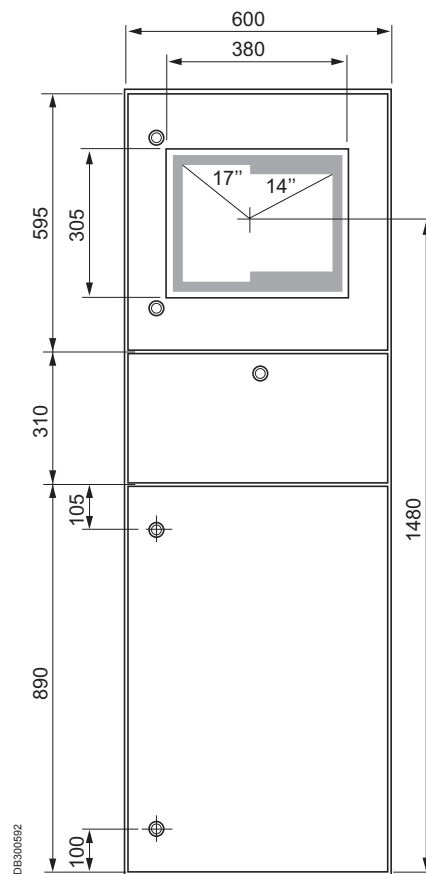
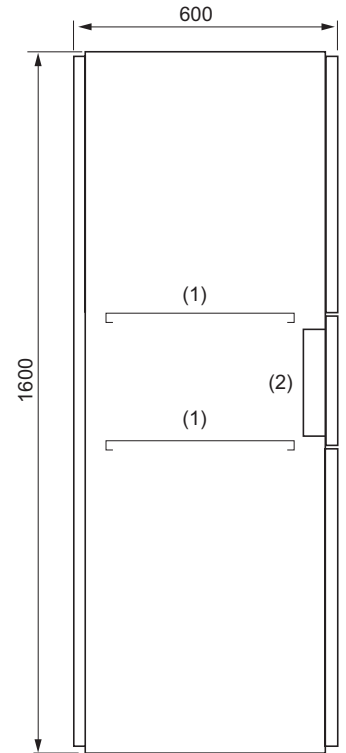
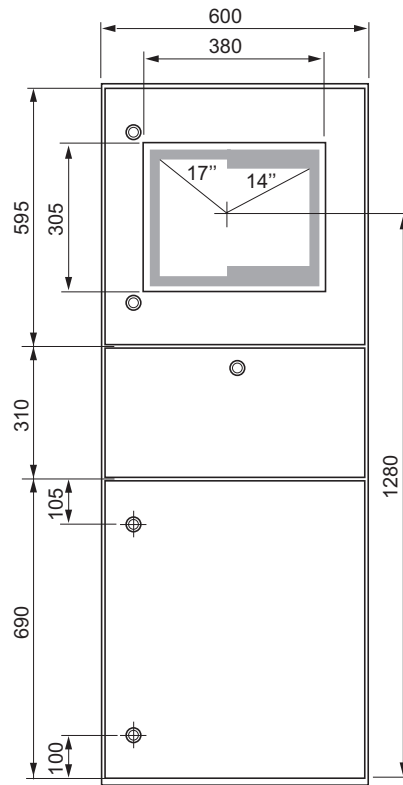
PE500139

PE500140

External dimensions (mm)			Stainless-steel PC rack reference	Hygienic feet		Brushed 316L stainless-steel plinth height 100 mm (1)		Brushed 316L stainless-steel plinth height 200 mm (1)	
Height	Width	Depth		Height 100 (mm)	Height 200 (mm)	Front + corner	Side	Front + corner	Side
1600	600	600	NSYSMX16660PC	NSYPHX100	NSYPHX200	NSYSPXF6100H	NSYSPXS6100H	NSYSPXF6200H	2 x NSYSPXS6100H
1800	600	600	NSYSMX18660PC	NSYPHX100	NSYPHX200	NSYSPXF6100H	NSYSPXS6100H	NSYSPXF6200H	2 x NSYSPXS6100H

(1) See section on stainless-steel composition accessories.

Stainless-steel monobloc PC racks Dimensions



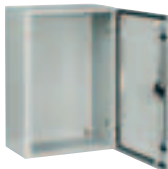
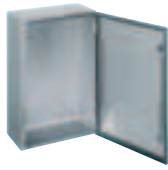

- (1) Screwed shelf, adjustable height.
- (2) Sealed case for keyboard.

ATEX



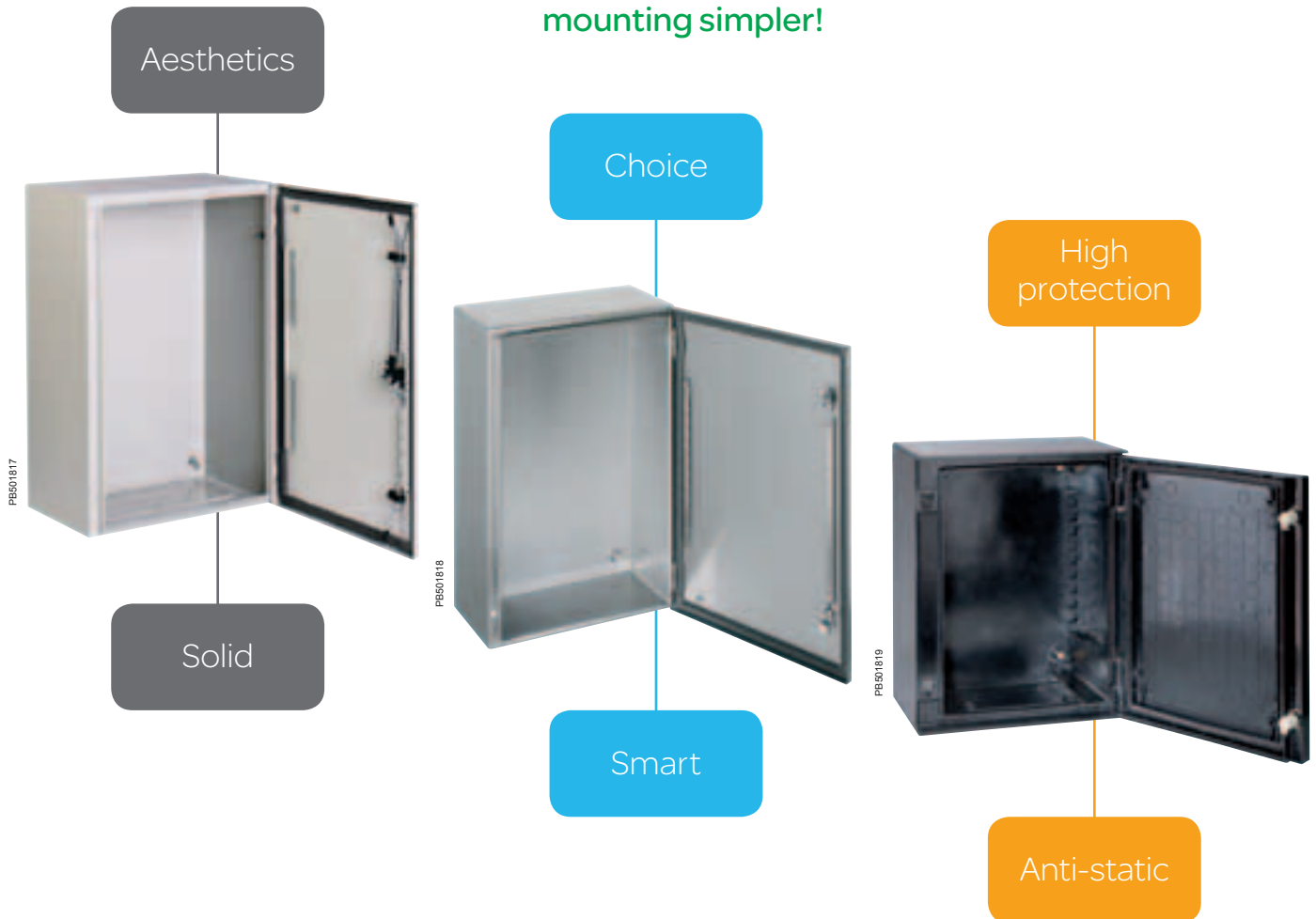
PBS00148

ATEX Contents

 PBE00088	Spacial S3DEX	564
 PBE00075	Spacial S3EX	568
 PBE00146	Thalassa PLMEX	572

Enclosures for explosive atmospheres

Practical: Our enclosures share the same sizes and most of the mounting, cabling and installation accessories, to make selection and mounting simpler!



In accordance with the ATEX directive

- The enclosures bear the marking:
 Ex II 2 GD Ex e II Ex tD A21 IP 66 according to directive 94/9/EC and standards EN 60079-0, EN 60079-7, EN 61241-0 and EN 61241-1.
- The enclosures offer a degree of protection of IP 66 according to EN 60629, reaching the highest dust protection according to ATEX standards.
- The certification of our production sites and inspection procedures guarantees the observance and regularity of the quality level.

Safety of all applications in ATEX II2 or II3 areas —surface installations with occasional or rare risks— thanks to ATEX-certified steel, stainless-steel and polyester enclosures.



Download our ATEX certificates from the web.



PB501817

Industrial environments, equipment rooms

Spacial S3DEX steel enclosure:

- The **Spacial S3DEX steel enclosure** is certified by the LCIE with no. LCIE 02ATEX0037U and supplementary certificates 01 and 03 (component certification).
- Ten sizes: from 300 x 200 x 150 mm to 1000 x 800 x 300 mm.
- Degree of protection: IP 66.
- Ambient temperature limits: $-25\text{ °C} \leq Ta \leq +40\text{ °C}$.
- Resistance to external mechanical impacts: IK 10.
- Structured finish, epoxy-polyester powder paint, RAL 7035 grey colour.



PB501818

Laboratories, agri-business industry, specific hygiene and corrosion demands

Spacial S3XEX stainless-steel enclosure:

- The **Spacial S3XEX stainless-steel enclosure** is certified by the LOM with no. LOM 09ATEX3068U (component certification).
- Seven sizes: from 300 x 200 x 150 mm to 1000 x 800 x 300 mm.
- Degree of protection: IP 66.
- Ambient temperature limits: $-25\text{ °C} \leq Ta \leq +60\text{ °C}$.
- Resistance to external mechanical impacts: IK 10.
- Scotch-Brite® brushed finish.



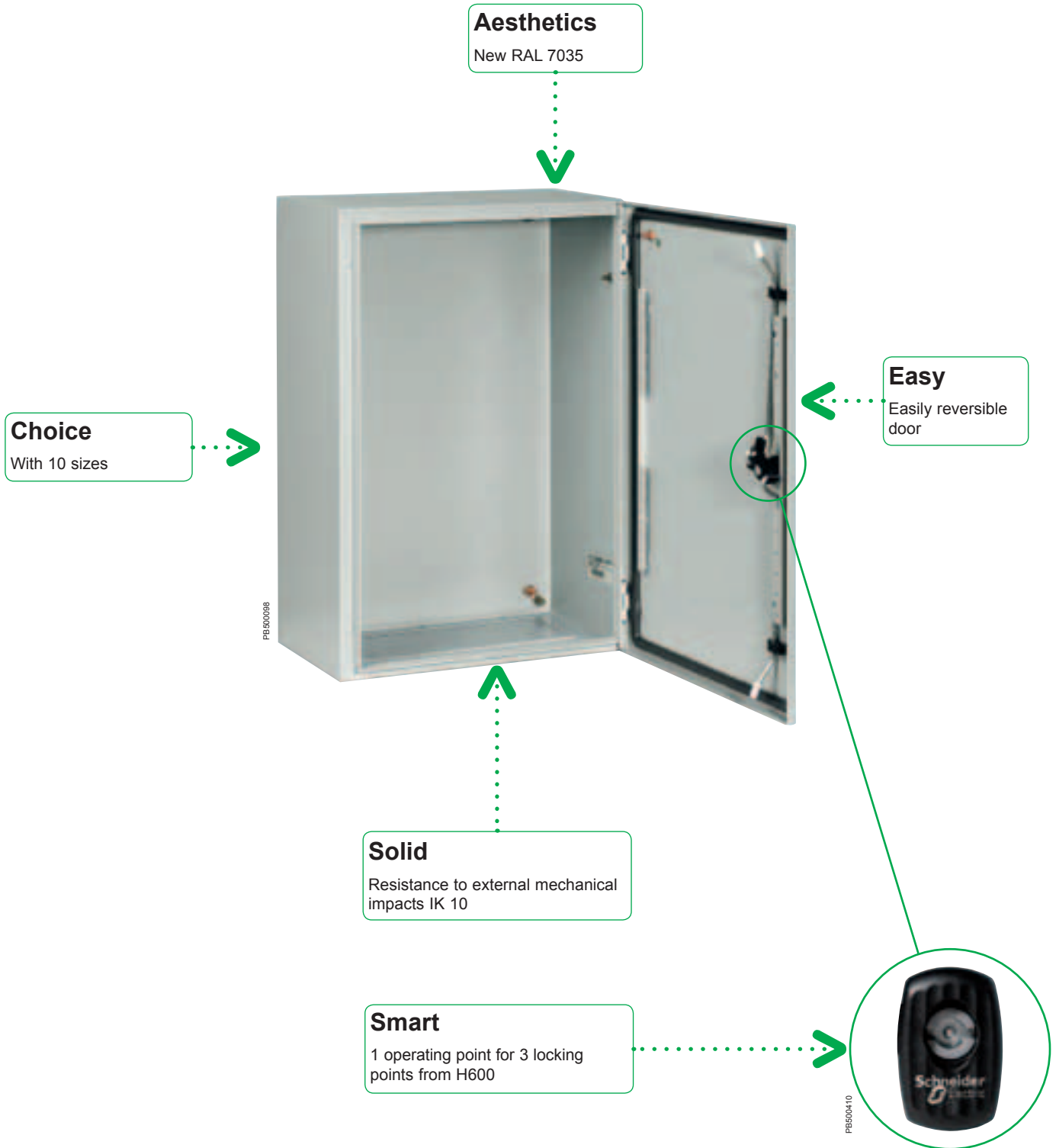
PB501819

Seaside, petrochemical, severely corrosive environments

Thalassa PLMEX polyester enclosure:

- The **Thalassa PLMEX polyester enclosure** is certified by the LOM with no. LOM 10ATEX3051U (component certification).
- Seven sizes: from 307 x 255 x 164 mm to 1056 x 852 x 350 mm.
- Degree of protection: IP 66.
- Ambient temperature limits: $-25\text{ °C} \leq Ta \leq +60\text{ °C}$.
- Resistance to external mechanical impacts: IK 10.
- Black colour.

The Spacial S3DEX steel enclosure according to the ATEX directive



The Spacial S3DEX steel enclosure according to the ATEX directive

Aesthetics

- Sheet-steel enclosure.
- Structured finish, RAL 7035 grey colour.
- Single-piece body with a cross-shaped structure.

Solid

- Resistance to external mechanical impacts: IK 10.
- Protection degree: IP 66. Polyurethane gasket.
- Front rail of the body with double fold, gutter-shaped.

Choice

- Solid door: 10 references.

Smart

- 3-mm double-bar lock as standard.
- For heights exceeding 600 mm, three closure points with single operating point.

Easy

- The door can be removed and turned over to open towards the left.

Practical

- Large variety of common accessories with the Spacial wall-mounting enclosure range.
 - Plain mounting plate.
 - Silkscreened mounting plate.
 - Microperforated mounting plate.
 - Telequick mounting plate.
 - DIN rail chassis.
- Reusable packaging.



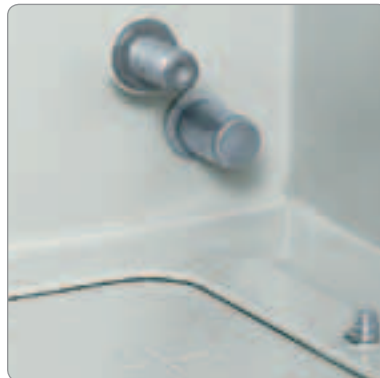
PB500411

Blind nut for external earth connection.



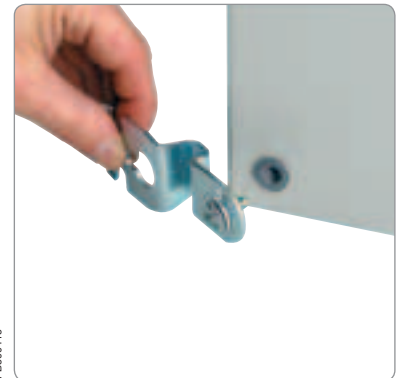
PB500407

Earthing studs welded to the door and inside the body.



PB500412

The chassis is mounted on four 10-mm shouldered backstuds.



PB500413

The 4 fixing holes are blocked by 4 crimped blind nuts.



PB500204

Example of specific ATEX marking.



DB500073

Delivered in reusable cardboard with assembly instructions enclosed and wall installation template on the cardboard.



PB500032



PB500096



Download our ATEX certificates and product sheets over the internet.

Technical characteristics

The Spacial S3DEX range of steel enclosures is certified by LCIE with no. LCIE 02ATEX0037U and codicil no. LCIE 02ATEX0037U/01 & /03 (component certificate).

The enclosures have the following marks:

Ⓔ II 2 GD Ex e II tD A21 IP6X according to ATEX directive 94/9/EC and standards EN 60079-0, EN 60079-7, EN 61241-0 and EN 61241-1.

Technical description

- Tightness by protection rating: IP 66 (enclosures with single door)
- Resistance to external impacts: IK 10.
- Structured finish, epoxy-polyester powder paint, RAL 7035 grey colour.

Compared with the universal Spacial wall-mounting enclosure, the Spacial S3DEX enclosure has:

- The four fixing holes blocked by four crimped blind nuts.
- One crimped M8 blind nut for an external earth connection (braid not supplied).

Enclosure body

- 4 M8 x 25 shouldered backstuds for mounting the mounting plate and the step slides leaving a space of 10 mm behind them.
- Cable-gland plate with grid pattern to facilitate drilling and provide the maximum access surface.
- Welded earthing stud for equipotential connection between the door and the body.

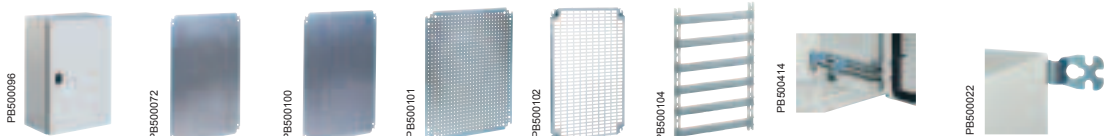
Door

- Standard enclosure supplied with a double-bar lock.
- Polyurethane sealing gasket.
- Equipotential connection between the door and the body by means of the M6 x 16 earthing screws.
- Removable and reversible door, opening to 120°.
- Simple reversal of linkage.
- Maximum load: 50 kg/m².
- Perforated rails on the door: 2 vertical rails from H = 400 mm, 2 vertical rails and 2 horizontal rails from W = 800 mm.

Ambient temperature limits:

-25 °C ≤ Ta ≤ +40 °C.

Delivered in an impact-resistant, eco-friendly packaging.



PB500096

PB500072

PB500100

PB500101

PB500102

PB500104

PB500414

PB500022

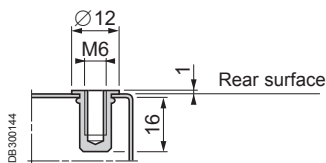
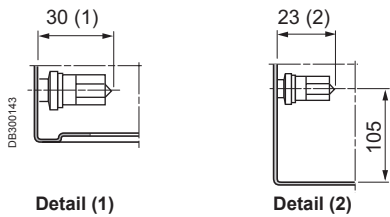
Enclosure dimensions (mm)			Enclosure reference	Mounting plates				Mixed symmetrical chassis	Bars slides	Wall-fixing lugs	
Height	Width	Depth		Plain	Silkscreened	Microperforated	Telequick			Steel	Stainless steel
300	200	150	NSYS3DEX3215	NSYMM32	-	-	NSYMR32	-	-	NSYAEFPFSC	NSYAEFPFXSC
300	300	200	NSYS3DEX3320	NSYMM33	-	NSYMF33	NSYMR33	NSYMD33	NSYSDCR200	NSYAEFPFSC	NSYAEFPFXSC
400	300	200	NSYS3DEX4320	NSYMM43	NSYMS43	NSYMF43	NSYMR43	NSYMD43	NSYSDCR200	NSYAEFPFSC	NSYAEFPFXSC
400	400	200	NSYS3DEX4420	NSYMM44	NSYMS44	NSYMF44	-	-	NSYSDCR200	NSYAEFPFSC	NSYAEFPFXSC
500	400	200	NSYS3DEX5420	NSYMM54	NSYMS54	NSYMF54	NSYMR54	NSYMD54	NSYSDCR200	NSYAEFPFSC	NSYAEFPFXSC
600	400	250	NSYS3DEX6425	NSYMM64	NSYMS64	NSYMF64	NSYMR64	NSYMD64	NSYSDCR250	NSYAEFPFSC	NSYAEFPFXSC
600	600	250	NSYS3DEX6625	NSYMM66	NSYMS66	NSYMF66	NSYMR66	NSYMD66	NSYSDCR250	NSYAEFPFSC	NSYAEFPFXSC
700	500	250	NSYS3DEX7525	NSYMM75	NSYMS75	NSYMF75	NSYMR75	NSYMD75	NSYSDCR250	NSYAEFPFSC	NSYAEFPFXSC
800	600	300	NSYS3DEX8630	NSYMM86	NSYMS86	NSYMF86	NSYMR86	NSYMD86	NSYSDCR300	NSYAEFPFSC	NSYAEFPFXSC
1000	800	300	NSYS3DEX10830	NSYMM108	-	NSYMF108	NSYMR108	NSYMD108	NSYSDCR300	NSYAEFPFSC	NSYAEFPFXSC



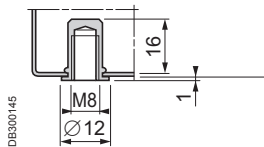
The accessories of the Spacial standard wall-mounting enclosures can be installed in the Spacial S3DEX wall-mounting enclosures. However, plastic accessories should not be used, due to the risk of a static charge.

A: Height
B: Width
C: Depth

- (1) 4 M8 x 25 mm backstuds.
- (2) 2 M6 x 17.5 mm earthing studs.
- (3) Stud centre-to-centre distance.
- (4) Crimped blind nut centre-to-centre distance.
- (5) Blind nut for external earth.

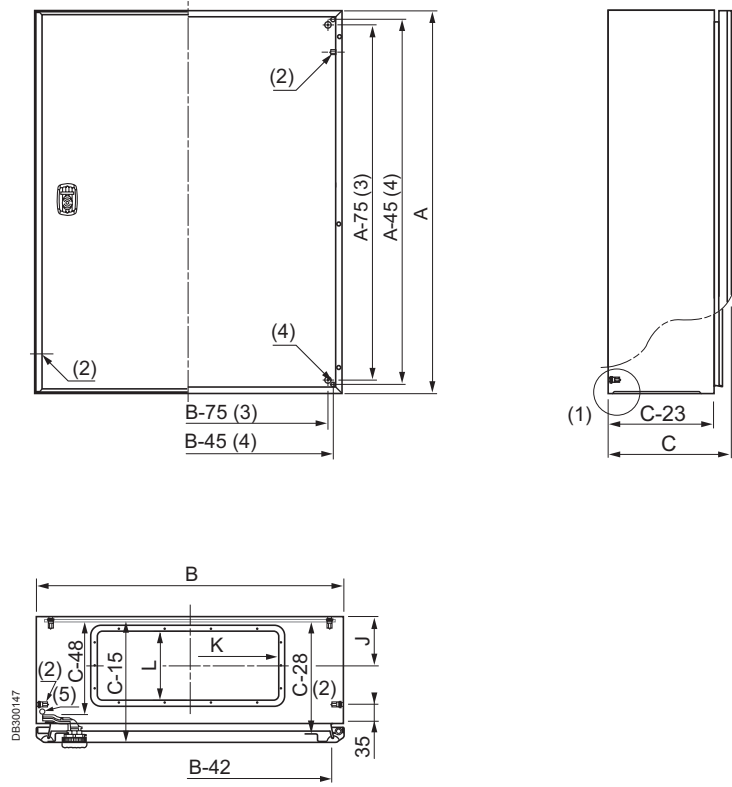


4 crimped blind nuts for direct fixing of the fixing lugs



1 crimped blind nut for the external earth

1-door enclosure

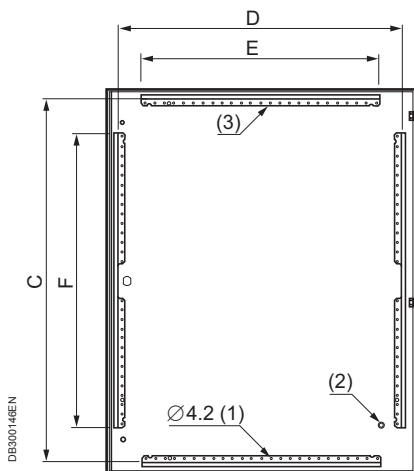


Enclosure (mm)		Cable-gland plate				
Width	Depth	Dimensions (mm)	No	J	K	L
200	150	140 x 80	1	57	115	55
300	200	245 x 130	1	80	220	105
400	200-250	345 x 130	1	80	320	105
500	250	445 x 130	1	80	420	105
600	250	545 x 130	1	80	520	105
600	300	495 x 220	1	126	470	195
800	300	345 x 130	2	80	320	105

Perforated rails on the door

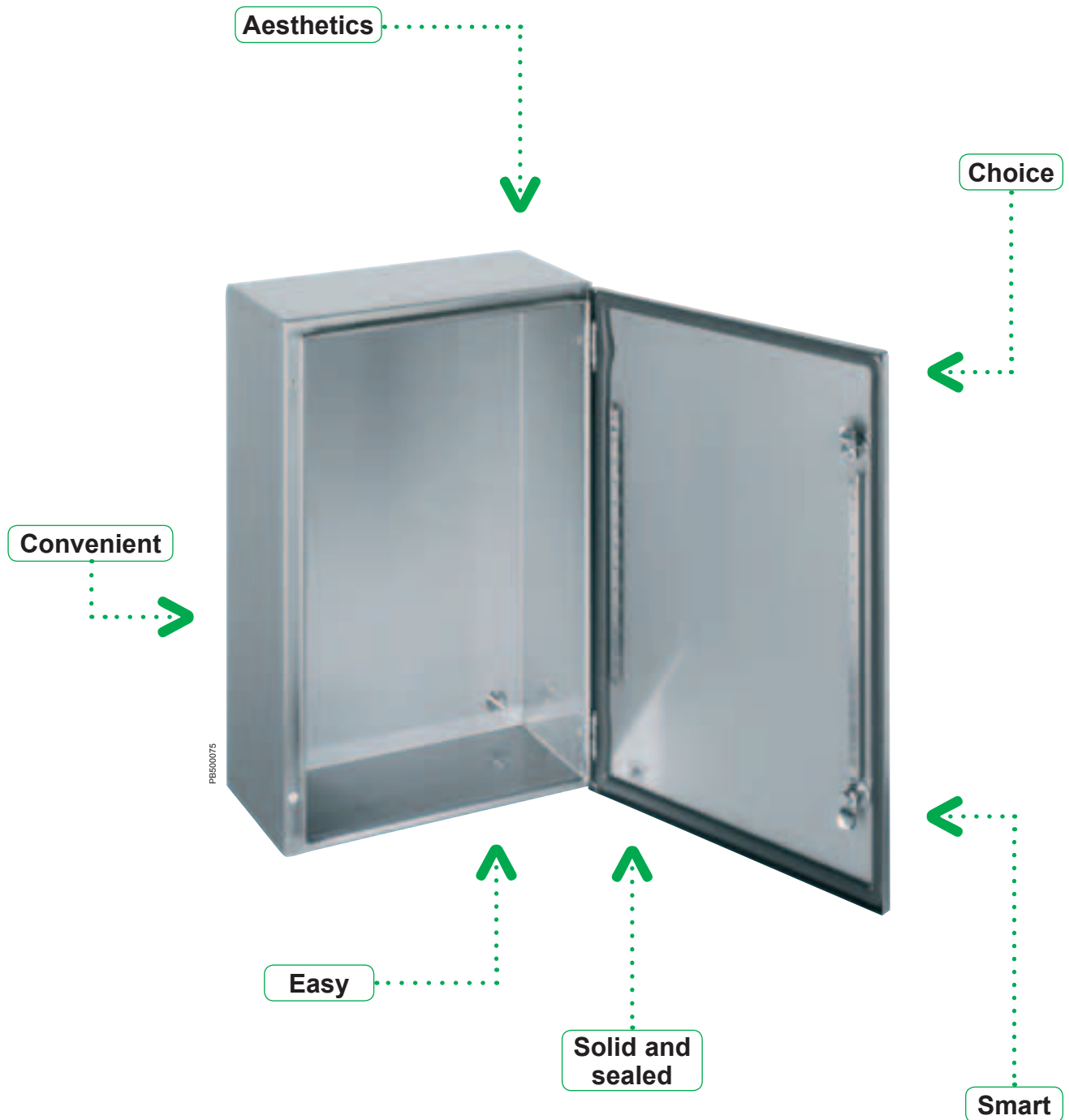
Enclosure (3) (mm)		Perforated rails on the door (mm)			
Height (A)	Width (B)	Vertical		Horizontal	
		F	D	E	C
400	300	320	237	-	-
400	400	320	337	-	-
600	400	370	337	-	-
600	600	370	537	-	-
700	500	470	437	-	-
800	600	570	537	-	-
1000	800	770	737	620	949

(3) The doors of enclosures with dimensions of less than 800 x 600 mm do not have horizontal wire guides.



- (1) Perforations with a pitch of 25 mm.
- (2) 1 M6 x 17.5 mm earthing stud.

Spacial S3XEX compliant with the ATEX directive



Aesthetics:

Stainless-steel enclosure with no cut-out.
Scotch-Brite® brushed finish.
Monobloc body with a cross-shaped structure.

Choice:

Plain door: 7 references.
Plain mounting plate.
Silkscreened mounting plate.
Microperforated mounting plate.
Telequick mounting plate.
DIN rail chassis.

Solid and sealed:

Resistance to external mechanical impacts: IK10.
Protection rating: IP66. Polyurethane gasket.
Gutter-shaped front profile.

Smart:

3-mm double-bar lock as standard.
Door rails cut-out with a pitch of 25 mm allowing accessories to be mounted on the door.

Easy:

The 4 fixing holes are blocked by four crimped blind nuts.
The door can be easily removed and turned over to open towards the left.

Convenient:

Large variety of common accessories with the Spacial S3X range.
Reusable packaging.



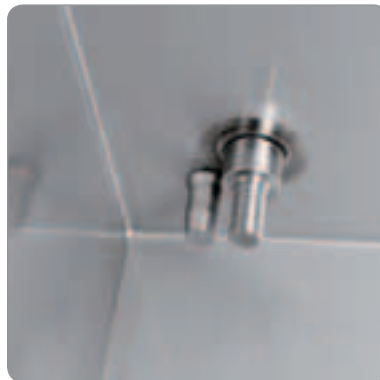
PB501249

Blind nut for external earth connection (on request).



PB501250

Earthing studs welded to the door and in the body.



PB501251

The mounting plates are mounted on 4 10-mm shouldered backstuds.



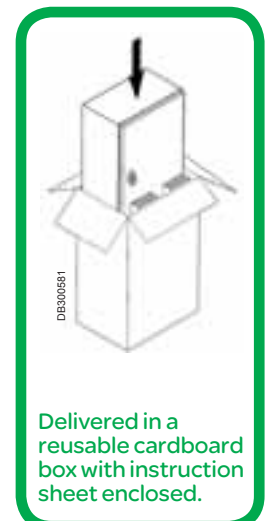
PB501252

The 4 fixing holes are blocked by 4 crimped blind nuts.



PB501253

Specific ATEX marking.



DE300561

Delivered in a reusable cardboard box with instruction sheet enclosed.



The compulsory wall-fixing lugs:
 – 304 stainless steel: reference **NSYPFCX**.
 – 316L stainless steel: reference **NSYPFC2X**.

Technical characteristics

The Spacial ATEX range of stainless-steel enclosures is certified by the LOM with no. LOM 09ATEX3068U (component certificate).

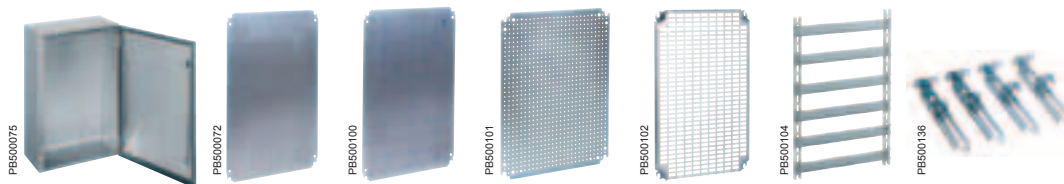


Download our ATEX certificates and product sheets over the internet.

The enclosures have the following marks:
 Ⓜ II 2 GD Ex e II Ex tD A21 IP66 according to ATEX directive 94/9/EC and standards EN 60079-0, EN 60079-7, EN 61241-0 and EN 61241-1.

- Stainless-steel material: AISI 304L with Scotch-Brite® brushed finish.
- Plain door.
- Protection rating of IP66 according to IEC 60529.
- Resistance to external mechanical impacts of IK10 according to IEC 62262.
- Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure.
- Single-piece body (cross-shaped structure). Gutter-shaped front profile.
- 2 perforated vertical profiles on the door (from a height of 600 mm), with drill holes with a diameter of 4.25 mm and a pitch of 25 mm for installing accessories.
- Door reinforcement frame (from a height of 1000 mm), cross-section of 20 mm x 15 mm, with drill holes with a diameter of 5 mm and a pitch of 25 mm.
- Standard closure with 3-mm double-bar lock (chrome-plated zamak).
- 2 closure points for heights of more than 500 mm.
- Stainless-steel hinges screwed onto the body of the enclosure, making it easier to remove and invert the door. Opening angle: 120°.
- Polyurethane gasket.
- M6 x 16 screws on the door and on the body, allowing equipotential connection.
- The wall-fixing lugs are compulsory; they are blocked by sealing plugs. The 4 fixing holes are blocked by 4 crimped blind nuts.
- One crimped M6 blind nut for an external earth connection (braid not supplied).
- Authorised ambient temperature limits:
 –25 °C ≤ Ta ≤ +60 °C

Selection guide for wall-mounting enclosures and main accessories



External dimensions (mm)			Enclosure reference	Mounting plate reference				DIN rail chassis	Step slides
Height	Width	Depth		Plain	Silkscreened	Microperforated	Telequick		
300	200	150	NSYS3XEX3215	NSYMM32	-	NSYMF32	NSYMR32	-	-
400	300	200	NSYS3XEX4320	NSYMM43	NSYMS43	NSYMF43	NSYMR43	NSYMD43	NSYSDCR200
500	400	200	NSYS3XEX5420	NSYMM54	NSYMS54	NSYMF54	NSYMR54	NSYMD54	NSYSDCR200
600	400	200	NSYS3XEX6420	NSYMM64	NSYMS64	NSYMF64	NSYMR64	NSYMD64	NSYSDCR200
700	500	250	NSYS3XEX7525	NSYMM75	NSYMS75	NSYMF75	NSYMR75	NSYMD75	NSYSDCR250
800	600	250	NSYS3XEX8625	NSYMM86	NSYMS86	NSYMF86	NSYMR86	NSYMD86	NSYSDCR250
1000	800	300	NSYS3XEX10830	NSYMM108	-	NSYMF108	NSYMR108	NSYMD108	NSYSDCR300

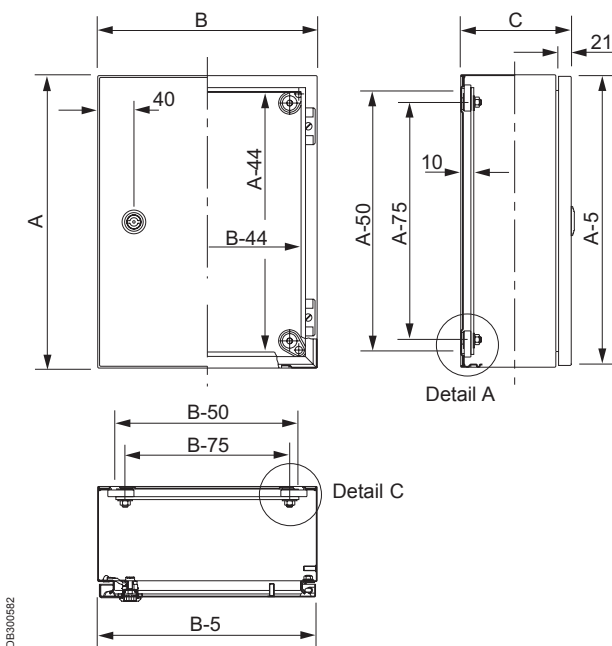


The accessories of the Spacial S3X enclosure can be installed in the Spacial S3XEX enclosure. However, plastic accessories should not be used, due to the risk of a static charge.

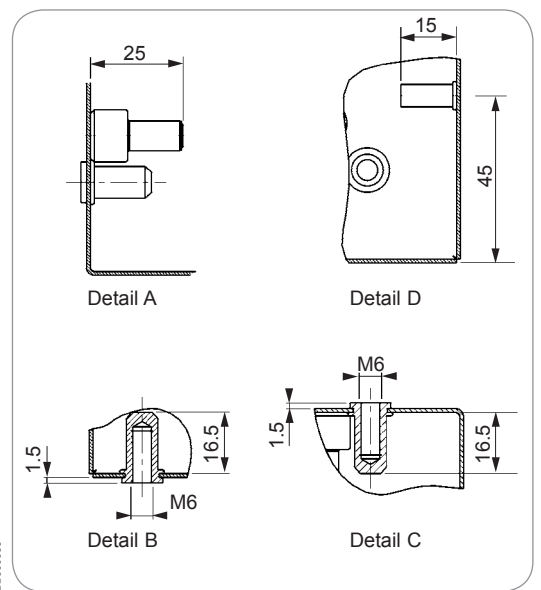
External dimensions (mm)			
Height (A)	Width (B)	Depth (C)	Fig.
300	200	150	1
400	300	200	1
500	400	200	2*
600	400	200	2
700	500	250	2
800	600	250	2
1000	800	300	3

*Without door reinforcement.

Fig. 1

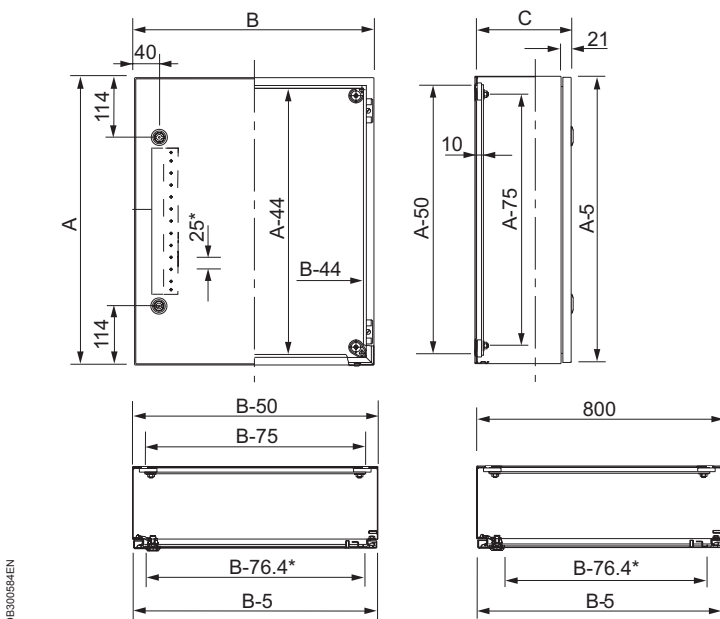


DE300582



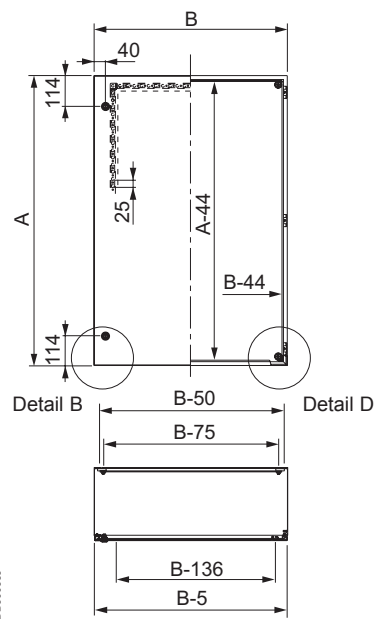
DE300583

Fig. 2



DE300584EN

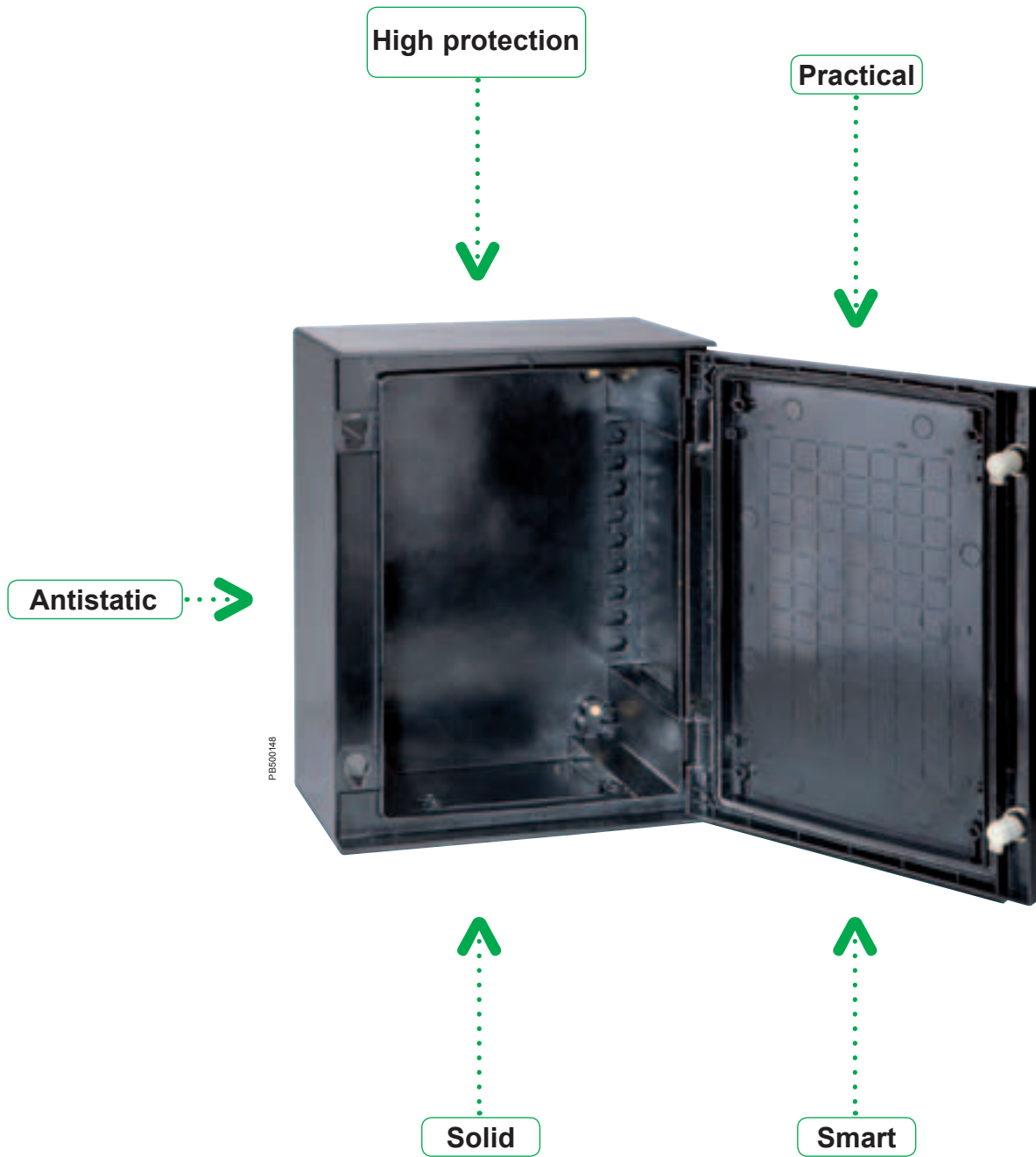
Fig. 3



DE300585

*Door reinforcement.

Thalassa PLMEX polyester wall-mounting enclosure compliant with the ATEX directive



Thalassa PLMEX polyester wall-mounting enclosure compliant with the ATEX directive

High protection:

Built-in canopy.
High degree of protection: IP 66.
Locks outside the sealed zone.

Solid:

Single-piece body.
IK 10.
Corrosion-resistant pin.

Practical:

Opens to 180°.
Can open to right or left by turning the enclosure over.

Smart:

Chequered back of the door.
One notch every 25 mm for easy mounting of a DIN rail.

Antistatic:

No static electricity thanks to the presence of graphite additives in the polyester.



PE500148



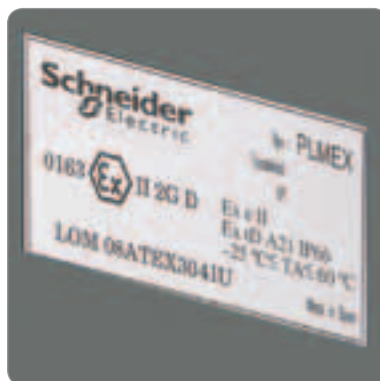
PE500148



PE500148

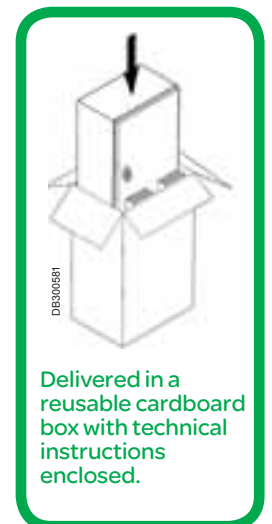


PE500148



PE501349

Specific ATEX marking.



DB300581

Delivered in a reusable cardboard box with technical instructions enclosed.

Thalassa PLMEX polyester wall-mounting enclosure

Introduction



Download our ATEX certificates and product sheets over the Internet.

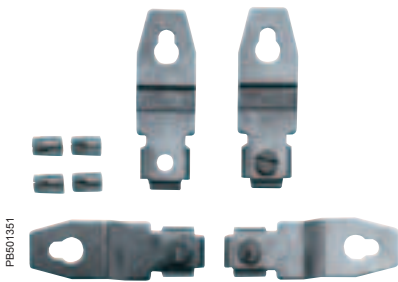
Technical characteristics

The Thalassa.ATEX range of polyester enclosures is certified by the LOM with no. LOM 10ATEX3051U (component certificate).

The enclosures have the following marks:
 Ⓔ II 2 GD Ex e II Ex tD A21 IP 66 according to ATEX directive 94/9/EC and standards EN 60079-0, EN 60079-7, EN 61241-0 and EN 61241-1.
 Outdoor installation: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure.



PB501390



PB501351

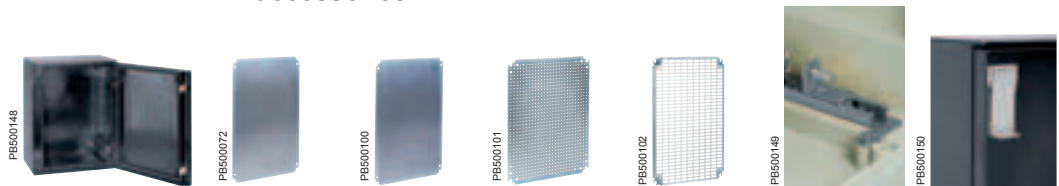
The enclosures must be fixed by 4 stainless-steel lugs, which are mounted in inserts to be placed on the rear of the enclosure, in horizontal or vertical position. Ref.: NSYFPXPLM.

Specifications	NSYPLMEX3025	NSYPLMEX43/54/64/75/86	NSYPLMEX108
Degree of protection	IP 66	IP 66	IP 66
Impact resistance	IK 10	IK 10	IK 10
Built-in canopy	No	Yes	Yes
Opening	120°	180°	180°
Pins	Stainless steel	Polyamide	Stainless steel
Locking system	2 double-bar lock	2 double-bar lock	1 lock with double-bar insert and 4-point closure
Lock outside sealed zone	No	Yes	Yes
Notch system for DIN rails every 25 mm	No	Yes	Yes
Mounting plate assembly	Installed studs	Inserts and studs	Inserts and studs

Specific ATEX characteristics

- The surface resistance is <math>< 10^9 \Omega</math>.
- Ambient temperature limits: - Black colour (RAL9004).

Selection guide for wall-mounting enclosures and main accessories



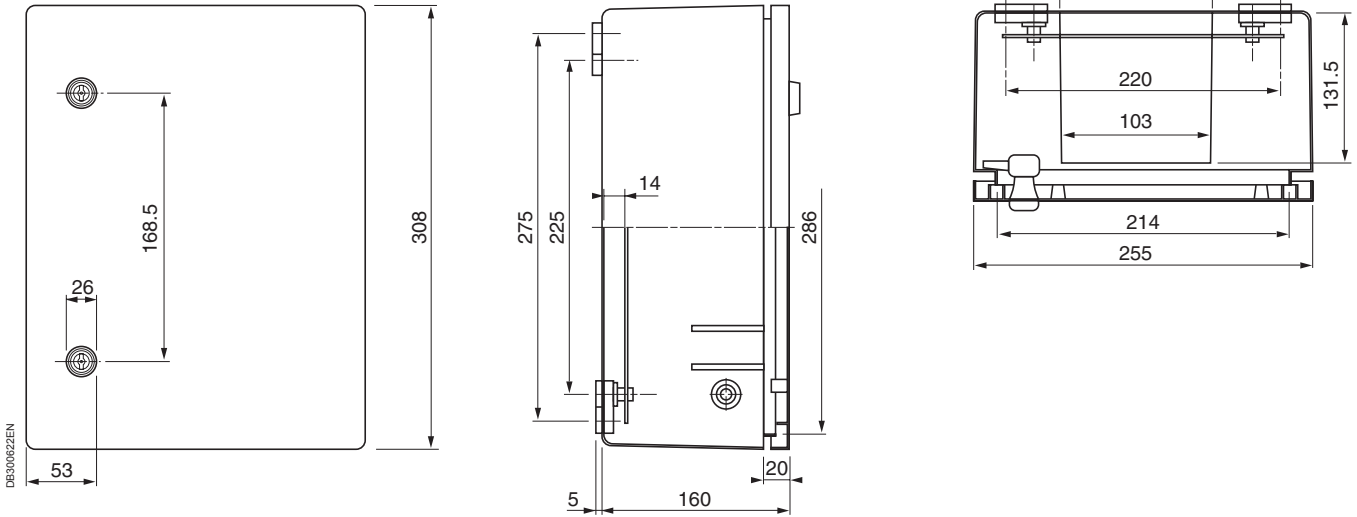
External dimensions (mm)			References	Metallic mounting plate references				References	
Height	Width	Depth	Enclosures	Plain	Silkscreened	Microperforated	Telequick	Step slides	Padlocking
308	255	160	NSYPLMEX3025	NSYMM3025	-	-	NSYMR3025	-	-
430	330	200	NSYPLMEX43	NSYMM43	NSYMS43	NSYMF43	NSYMR43	NSYDPLM200	NSYKPLM
530	430	200	NSYPLMEX54	NSYMM54	NSYMS54	NSYMF54	NSYMR54	NSYDPLM200	NSYKPLM
647	436	250	NSYPLMEX64	NSYMM64	NSYMS64	NSYMF64	NSYMR64	NSYDPLM250	NSYKPLM
747	536	300	NSYPLMEX75	NSYMM75	NSYMS75	NSYMF75	NSYMR75	NSYDPLM300	NSYKPLM
847	636	300	NSYPLMEX86	NSYMM86	NSYMS86	NSYMF86	NSYMR86	NSYDPLM300	NSYKPLM
1056	852	350	NSYPLMEX108	NSYMM108	-	NSYMF108	NSYMR108	NSYDPLM350	NSYBCPL

Accessories for Thalassa PLM enclosures can be installed in Thalassa PLM enclosures. However, plastic accessories should not be used, due to the risk of a static charge.

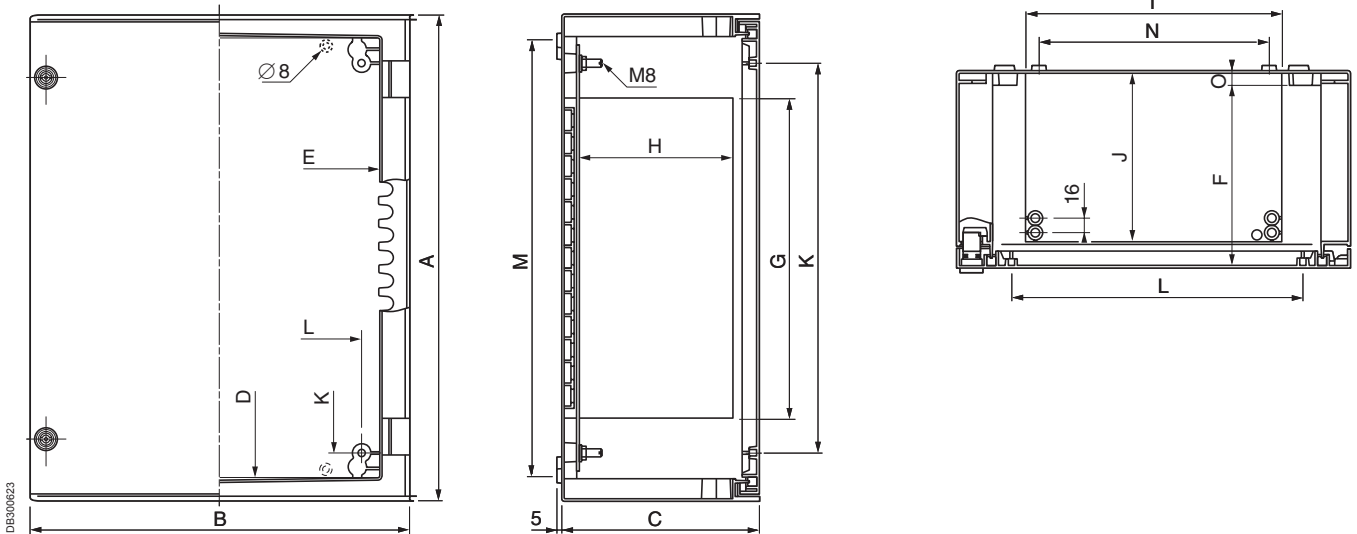
Thalassa PLMEX polyester wall-mounting enclosure

Dimensions

Ref. NSYPLMEX3025



Ref. NSYPLMEX43/54/64/75/86/108*



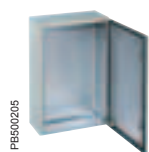
*

Dimensions										Bottom screw and door bosses		Fixing	References
A	B	C	D	E	F	G	H	I	J	K	L	O	
430	330	200	380	260	181	247	150	179	168	325	225	13	NSYPLMEX43
530	430	200	480	360	181	347	150	279	168	425	325	13	NSYPLMEX54
647	436	250	580	360	228	388	192	279	212	525	325	13	NSYPLMEX64
747	536	300	680	460	278	487	241	379	261	625	425	15	NSYPLMEX75
847	636	300	780	560	278	587	241	479	261	725	525	15	NSYPLMEX86
1056	852	350	980	760	327	775	280	680	300	925	725	15	NSYPLMEX108

EMC



FBS01682



PB50205

Spacial S3HF

580



PB501662

Spacial SFHF

582



PB501683

Spacial SMHF

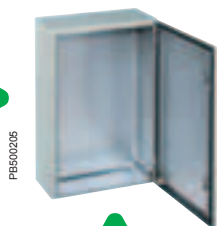
586

Solutions for difficult or aggressive environments

Boxes, enclosures and floor standing enclosures already offer good IP protection against liquids and dust as well as mechanical protection against impacts. However, they can also reduce electromagnetic interference.

Performance: the type of sheetmetal and gaskets used for the fabrication of the EMC enclosure play an important part in this process.

Practical: delivered with plain galvanized mounting plate.



Choice: 9 dimensions.



Choice: 4 dimensions.

Practical: share the range of accessories from Spacial SM and SF.



Choice: 12 dimensions.



EMC = electromagnetic compatibility

Protection
All sensitive devices are effectively protected by zinc plated sheetmetal enclosures, manufactured in accordance with established standards.

Shielding
Provision of adequate screening, with the effectiveness of a Faraday cage.

Solutions for difficult or aggressive environments

Our Spacial EMC range



EMC box, IP 55

Spacial S3HF Wall mounting enclosure IP 55 IK 10

From H 400 x W 300 x D 200 to H 1200 x W 800 x D 300 mm

- Metal monobloc enclosures constructed from special ALU-ZINC 150 sheet. Body constructed from single folded and welded sheet.
- The enclosure surface, comprising 55% aluminium ensures good reflection of radiated electromagnetic interference.
- Textured epoxy polyester external paint finish, colour grey RAL 7035.
- Integral, galvanised, sheet steel, plain chassis (reference potential plate). The low resistivity of this plate facilitates earth continuity. Special body/door gasket (IP + EMC) providing both environment protection and continuity between the door and body of the enclosure. Body completely sealed, without any cable entries or apertures. Integral earth braid between enclosure body and door, ensuring good earthing and, in consequence, good electromagnetic compatibility. Metal closing points with earth continuity, thus improving overall screening.



EMC enclosure, IP 55

Spacial SMHF floor standing enclosure IP 55 IK 10

From H 1800 x W 800 x D 400 to H 2000 x W 800 x D 600 mm

- Metal monobloc enclosure constructed from special ALU-ZINC 150 sheet. The enclosure surface, comprising 55% aluminium ensures good reflection of radiated electromagnetic interference.
- Exterior painted with an epoxy polyester external powder paint finish, colour grey RAL 7035.
- Integral galvanised sheet steel plain chassis (sheet potential reference). The earth continuity is much easier thanks to its weak resistance.
- Special body-door seal (IP + EMC), providing not only water tightness, but also electrical continuity between the door and the body, necessary for those assemblies. Cable gland plate with special built-in seal (IP + EMC).



EMC floor standing enclosure, IP 55

Spacial SFHF suitable enclosure IP 55 IK 10

From H 1800 x W 600 x D 600 to H 2200 x W 800 x D 800 mm

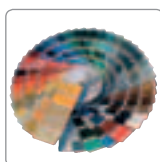
- Metal, extendable enclosure constructed thanks to a closed triangular profile, door and panel from special ALU-ZINC 150 sheet. The enclosure surface, comprising 55% aluminium ensures good reflection of radiated electromagnetic interference.
- Exterior painted with an epoxy polyester external powder paint finish, colour grey RAL 7035.
- Integral galvanised sheet steel plain chassis (sheet potential reference). The earth continuity is much easier thanks to its weak resistance.
- Special body/door gasket (IP + EMC) providing both environmental protection and electrical continuity between the door and body of the enclosure.
- Integral earth braid between enclosure body and door, ensuring good earthing and, in consequence, good electromagnetic compatibility.
- The suite joining set is also available for the EMC enclosures, IP 55.

Customised service:

All standard dimensions from our catalogue on request and more...



Specific



Paints



Holes & Cutouts



Mounting



Construction changes



Accessories

The steel enclosure suited to your electromagnetic protection needs



Enclosure delivered with solid mounting plate

- Single-piece metal enclosures made from special sheets of ALUZINC 150.
- The presence of 55% aluminium on the surface of the sheet metal ensures good reflection of electromagnetic waves.
- Painted on the outside with epoxy-polyester resin, RAL 7035 grey, structured.

Technical characteristics

- Protection degree: IP 55, according to IEC 60529.
- Resistance to external mechanical impacts: IK 10.
- Body:
 - Single-piece body, folded and welded.
 - Entirely sealed body with no cable entry and no opening.
- Equipped with four shouldered backstuds allowing direct fixing of the mounting plate:
 - Built-in plain mounting plate made from galvanised sheet steel (potential reference sheet).
 - Its low resistivity promotes earth continuity.
 - Direct fixing or using wall-fixing lugs, ref. **NSYPFCR** (to be ordered separately).
- Door:
 - The special body-door gasket (IP + EMC) provides, in addition to water and dust **tightness**, electric continuity between the door and the body of the enclosure.
 - The metal lock with earth continuity helps improve the general shielding.
 - An earthing braid added to the enclosure between the body and the door guarantees a good earth connection and, consequently, good electromagnetic compatibility.
 - 3 mm double-bar lock as standard delivery (if a 405 key is needed it is possible to mount ref. **NSYCLL405CRN**).

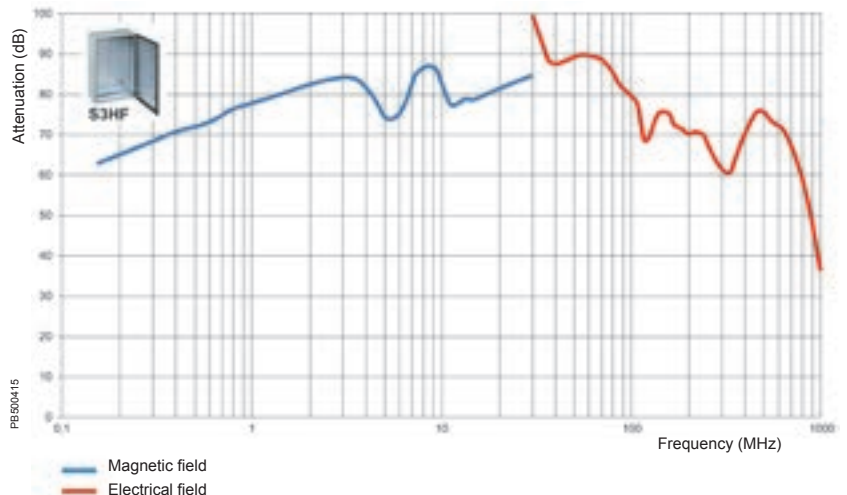
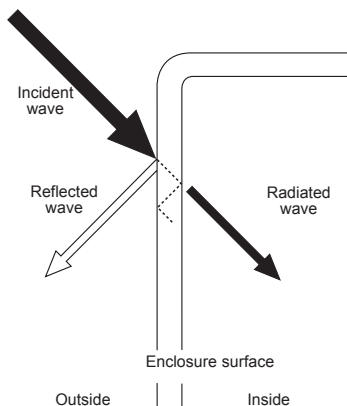
Other sizes: consult us.

Dimensions (mm)			Fig.	Weight Kg	Reference
Height	Width	Depth			
400	300	200	1	7.5	NSYS3HF4320P
400	600	200	1	13.0	NSYS3HF4620P
500	400	200	2	11.5	NSYS3HF5420P
600	400	200	2	13.0	NSYS3HF6420P
600	600	250	2	20.5	NSYS3HF6625P
700	500	250	2	19.0	NSYS3HF7525P
800	600	300	2	32.8	NSYS3HF8630P
1000	800	300	2	53.2	NSYS3HF10830P
1200	800	300	2	59.0	NSYS3HF12830P

Fixing lugs, ref. **NSYPFCR** to be ordered separately (1 set of 4 lugs).

Attenuation of the Spacial S3HF enclosure

The graphic next to these lines shows the attenuation curves (dB) according to the frequency (MHz).
General information on Electromagnetic Compatibility, see pages 802 to 804.



A = Height.
 B = Width.
 C = Depth.

Figure 1

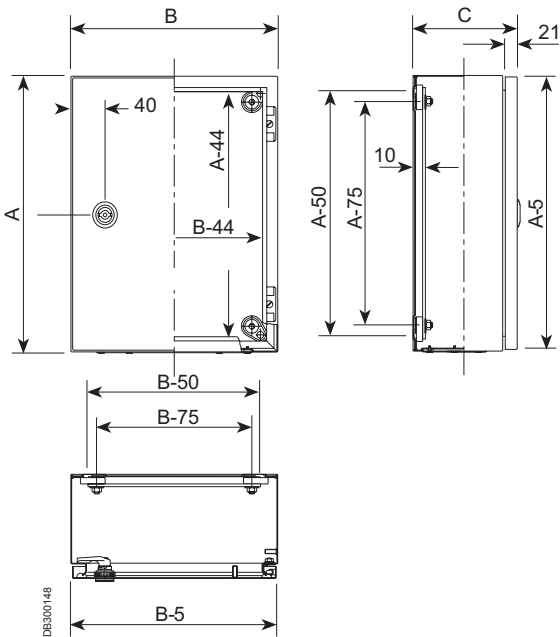
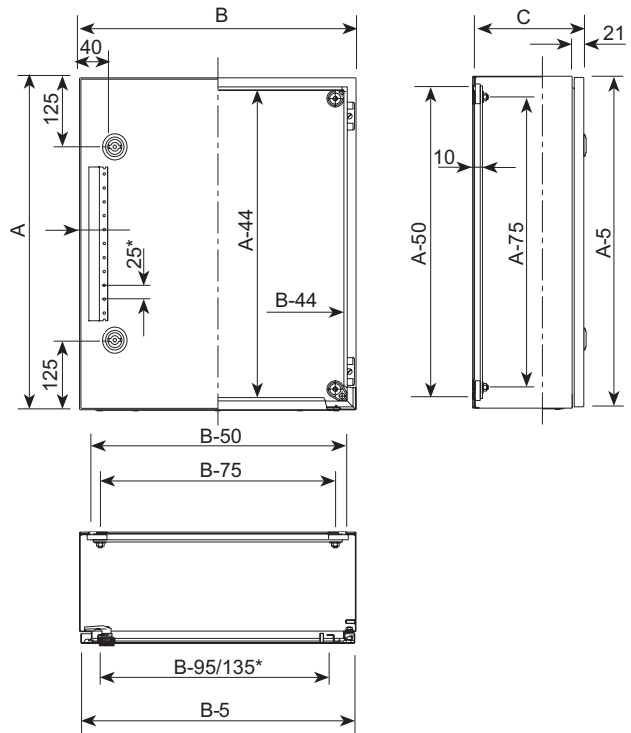


Figure 2



* Model 1200 x 800.



See also
 the accessories

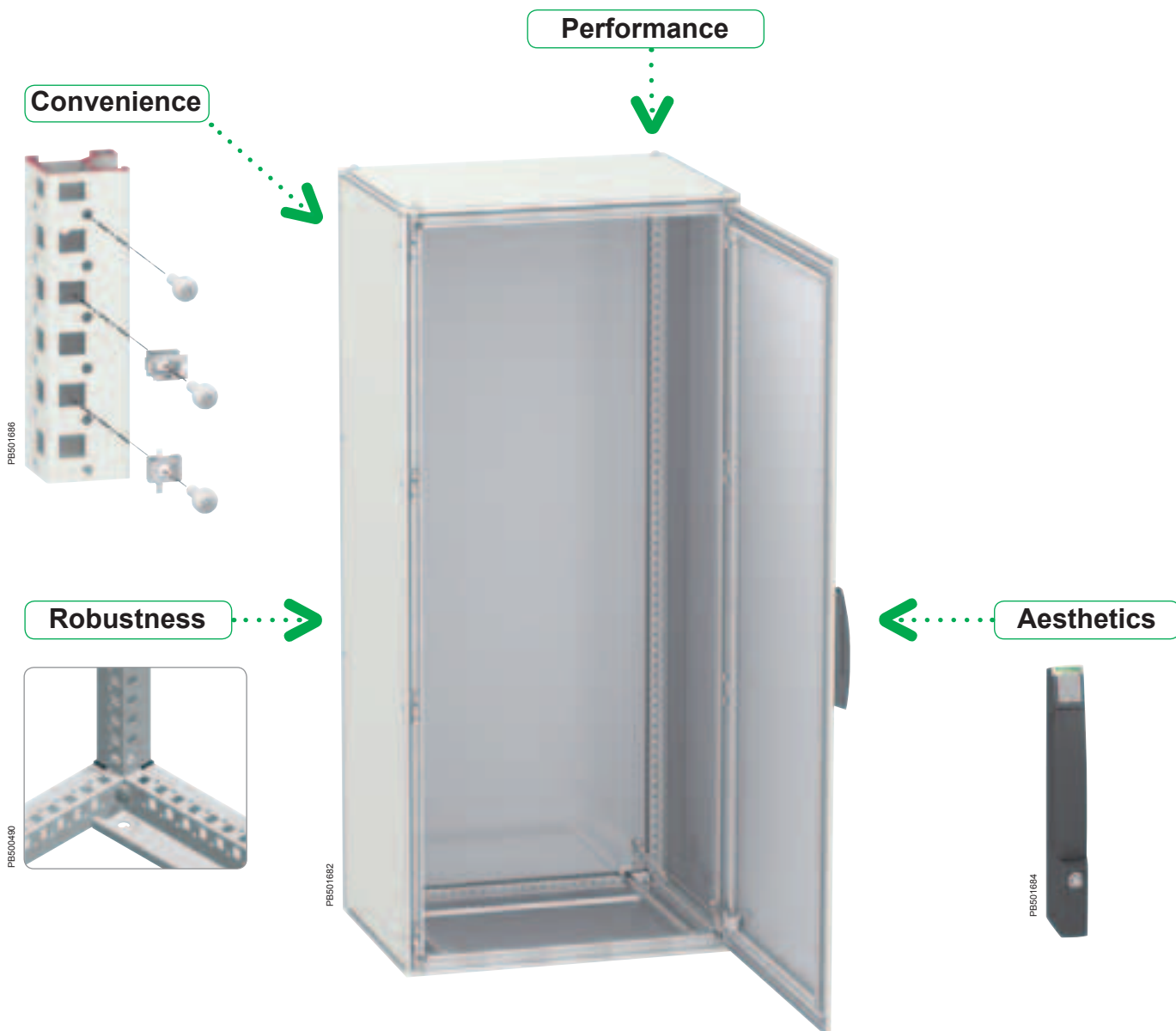
Door accessories
 see page 484

Rails
 see page 379

Ventilation
 see page 690

The steel enclosure suited to your electromagnetic protection needs

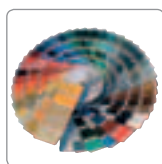
Suitable and multi-purpose metal enclosure which ensures reflection of radiated electromagnetic interference



Customised service: All standard dimensions from our catalogue on request and more...



Specific



PB501688

Paints



PB500359

Holes & Cutouts



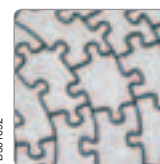
PB501680

Mounting



PB501691

Construction changes



PB501682

Accessories



Standard Spacial SF EMC with all claddings.



Special gasket (IP+EMC).



Earth braid.

Introduction

Spacial SFHF suitable enclosures

- IP 55 according to IEC 60529.
- IK 10 according to IEC 62262.
- Colour: RAL 7035 grey epoxy polyester resin on the outside (inside not painted).

Technical characteristics:

- Structure:
 - Galvanised-steel structure.
 - Top and bottom frame, vertical upright.
- Claddings:
 - Enclosure with screwed panels (on side and rear) and front plain door (with reinforcement frame) made from Aluzinc steel.
 - Side panels have to be ordered separately (see selection guide on page 584).
 - Special gasket (IP+EMC) between body, door and panels.

The enclosure is delivered as follows:

- 1 single plain door with door-reinforcement frame (double door on request, please consult us).
- Left or right opening to 120°.
- Delivered with standard locking system handle and 5-mm double-bar insert.
- 1 rear panel screwed from the outside.
- 1 removable roof.
- 1 part cable-gland plate with special gasket (IP+EMC).

Accessories:

- 4 brackets **NSYSMP SB** (fixing of mounting plate on back) delivered with the enclosure.
- 4 brackets **NSYSFP B** (fixing of mounting plate on intermediary position) delivered with the enclosure.

Further accessories:

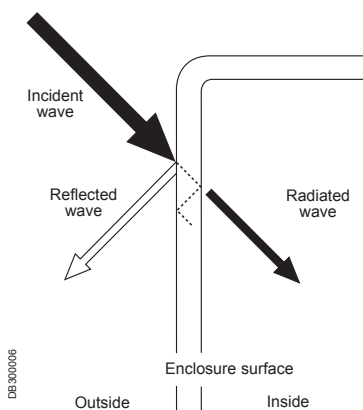
- Compatible with mounting accessories for the standard SF enclosures.
- Plain galvanized mounting plate to be ordered separately (see page 347).
- Earth braids to be ordered separately (see page 492).
- Plinth height 100 mm or 200 mm (see page 143).
- (IP+EMC) coupling kit available (see page 591).
- Other lock options available (see pages 178 to 183).
- Eye bolt (optional) maximum load 830 kg slinging at 60°.
- For other further description, see our specific solution.

Certification:

- RoHS compliant.

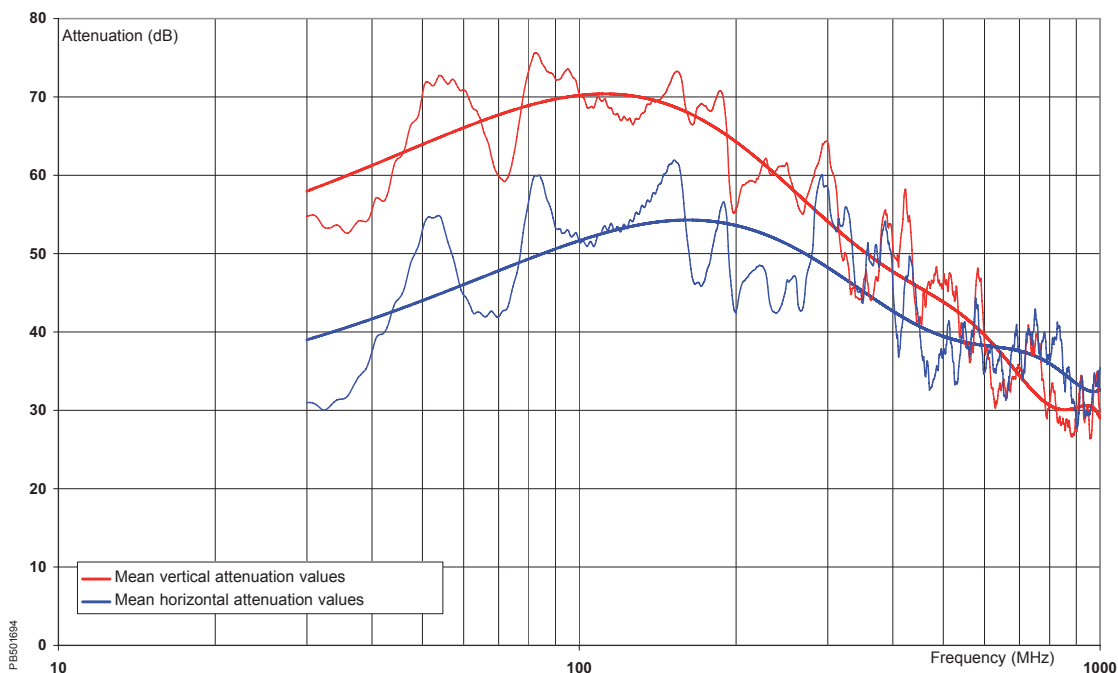
Height	Width	Depth	SFHF enclosure ref.	Side panel ref.
1800	600	600	NSYSFHF18660	NSY2SPHF186
	800	400	NSYSFHF18840	NSY2SPHF184
	800	600	NSYSFHF18860	NSY2SPHF186
2000	600	400	NSYSFHF20640	NSY2SPHF204
	600	600	NSYSFHF20660	NSY2SPHF206
	600	800	NSYSFHF20680	NSY2SPHF208
	800	400	NSYSFHF20840	NSY2SPHF204
	800	600	NSYSFHF20860	NSY2SPHF206
	800	800	NSYSFHF20880	NSY2SPHF208
2200	600	600	NSYSFHF22660	NSY2SPHF226
	800	600	NSYSFHF22860	NSY2SPHF226
	800	800	NSYSFHF22880	NSY2SPHF228

The presence of 55% aluminium on the surface of the sheet metal ensures good reflection of electromagnetic waves.

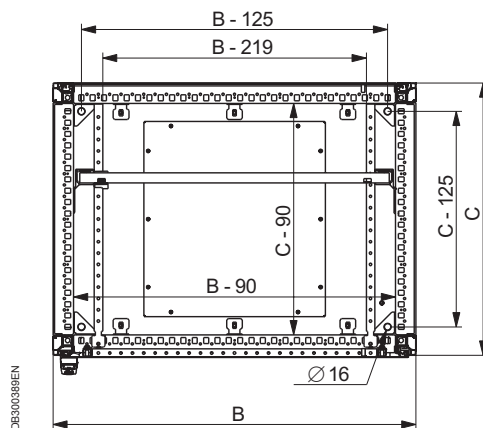
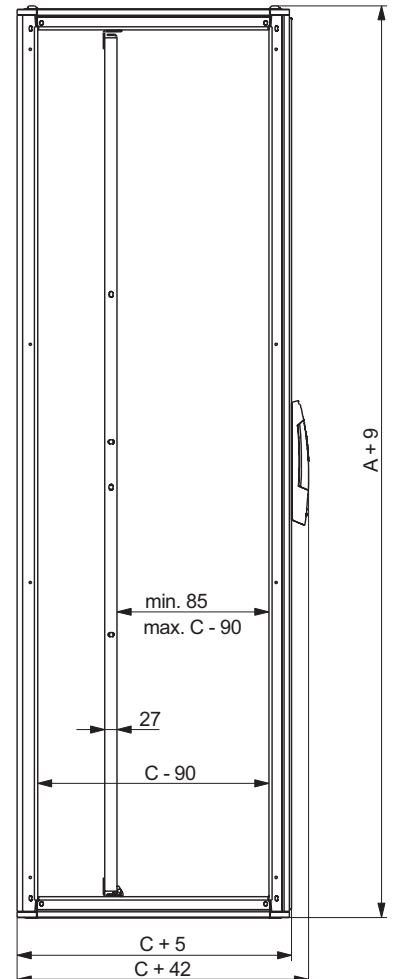
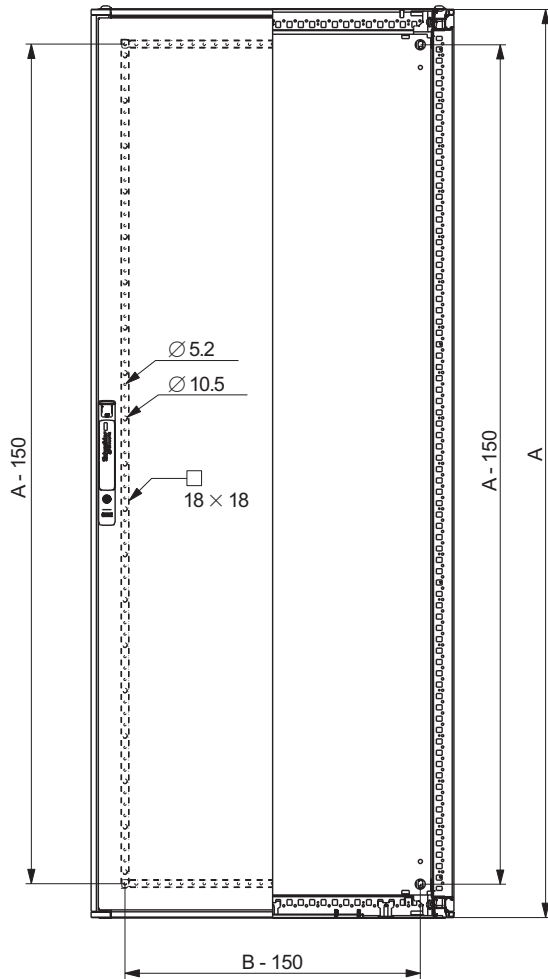


Floor-standing suitable enclosure

The illustration opposite indicates the attenuation (dB) curves related to the frequency (MHz). Enclosure is tested with its sides panels and earth braids mounted on all claddings (Test performed following IEC 61587-3).



Since the enclosure is tested empty, it is advisable to rerun the tests with the enclosure completely equipped in its final configuration.



Download our DXF drawings from our website.

Please note that for technical reasons all mounting-plate positions are not suitable, please consult us.

The steel enclosure suited to your electromagnetic protection needs

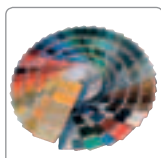
Compact and multi-purpose metal enclosure which ensures reflection of radiated electromagnetic interference



Customised service: All standard dimensions from our catalogue on request and more...



Specific



PE501688

Paints



PE500359

Holes & Cutouts



PE501680

Mounting



PE501691

Construction changes



PE501682

Accessories



PB501683

Standard Spacial SM EMC with all claddings.



PB501693

Special gasket (IP+EMC).



PB501687

Earth braid.

Introduction

Spacial SMHF compact enclosures

- IP 55 according to IEC 60529.
- IK 10 according to IEC 62262.
- Colour: RAL 7035 grey epoxy polyester resin on the outside (inside not painted).

Technical characteristics:

- Body:
 - Body made from Aluzinc steel painted on the outside only.
- Door:
 - Front plain door (with reinforcement frame) made from Aluzinc steel.
 - Special gasket (IP+EMC) between body and door.

The enclosure is delivered as follow:

- 1 plain door with door-reinforcement frame.
- Left or right opening to 120°.
- Standard handle with 5-mm double bar.
- 1 part cable-gland plate with special gasket (IP+EMC).

Accessories:

- 4 support bracket **NSYSMPB** for mounting plate.
- 1 plain galvanized mounting plate.
- Earth braid between enclosure body and door (see page **492**).

Further accessories:

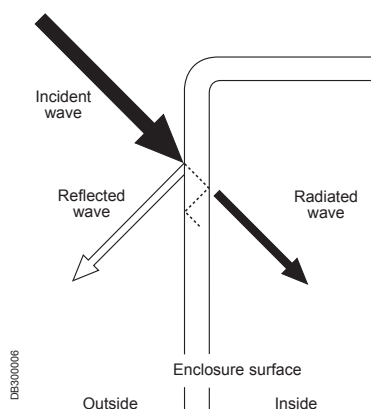
- Compatible with mounting accessories for the standard SM enclosures.
- Individual and set plinth with heights of 100 and 200 mm to be ordered separately (see page **143**).
- Other lock options available (see pages **178 to 183**).
- Eye bolt (optional) maximum load 830 kg slinging at 60°.
- For other descriptions, see our specific solution.

Certification:

- RoHS compliant.

Height	Width	Depth	SM EMC ref.
1800	800	600	NSYSMHF18660P
	800	600	NSYSMHF18860P
2000	800	400	NSYSMHF20840P
	800	600	NSYSMHF20860P

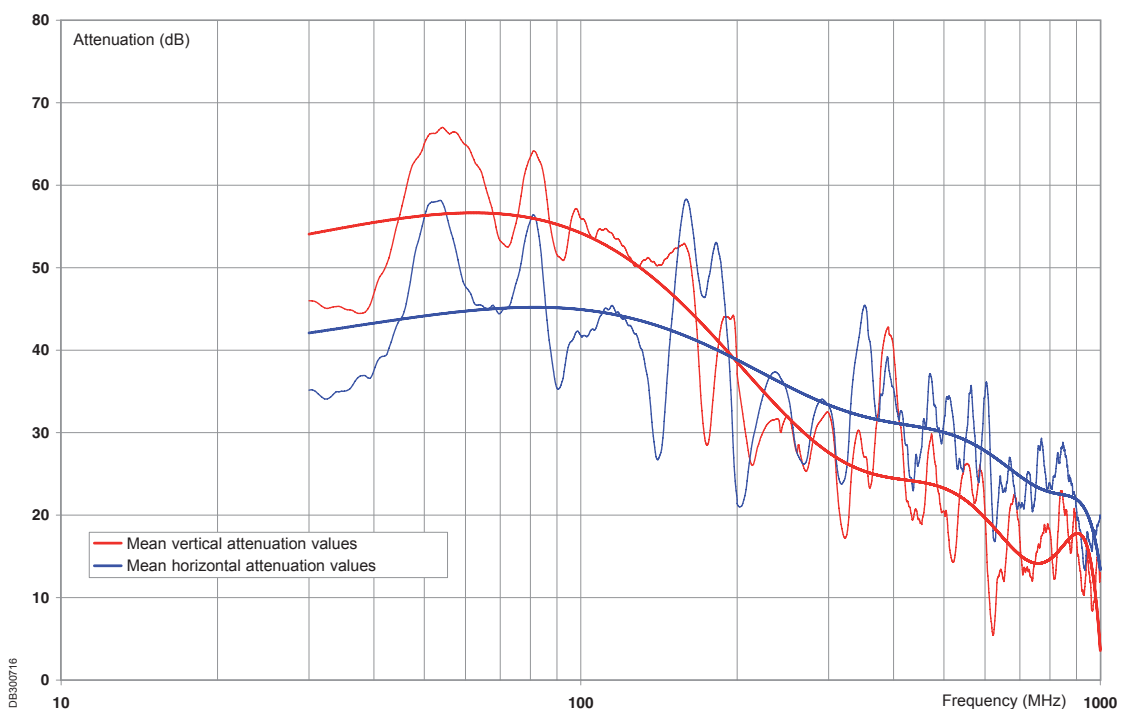
The presence of 55% aluminium on the surface of the sheet metal ensures good reflection of electromagnetic waves.



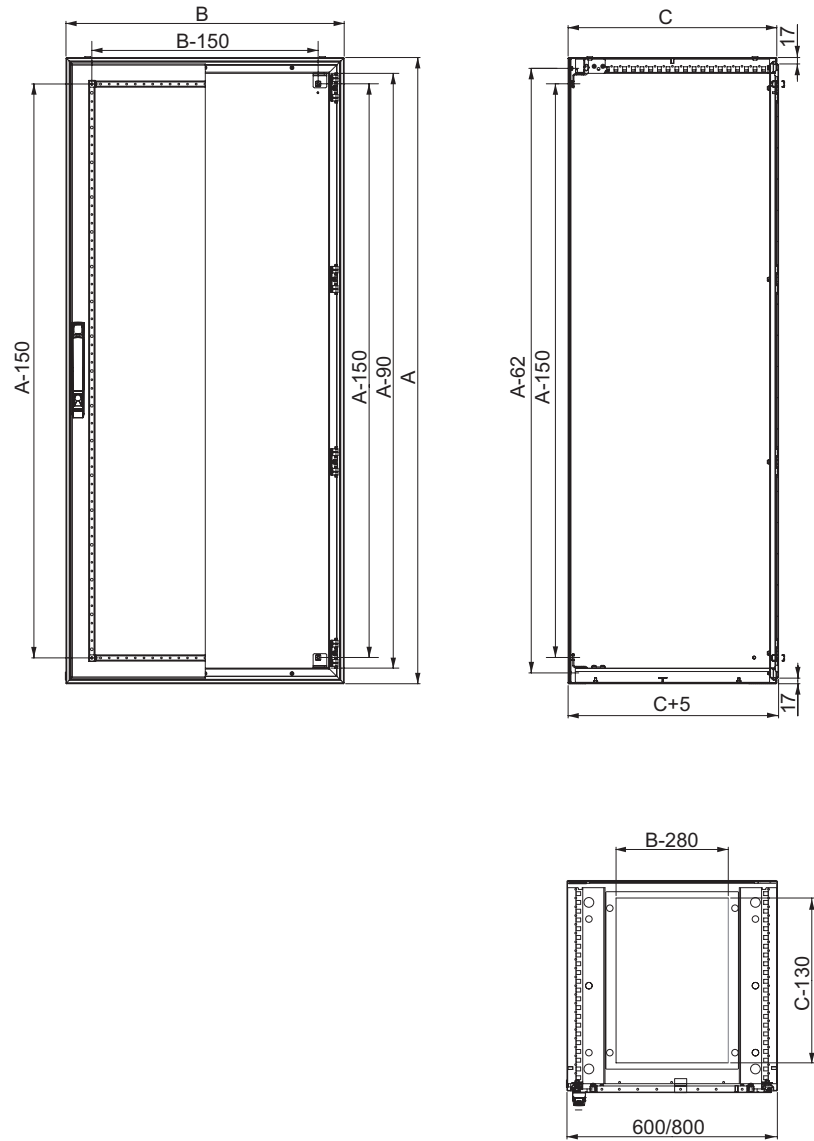
Floor-standing compact enclosure

The illustration opposite indicates the attenuation (dB) curves related to the frequency (MHz).

The enclosure is tested with earth braids mounted on all claddings (test performed following IEC 61587-3).



Since the enclosure is tested empty, it is advisable to rerun the tests with the enclosure completely equipped in its final configuration.



DE300717



Download
our DXF
drawings
from our
website.

> **Lifting**
Pages 162 and 163

> **Canopies**
Page 166

> **19" frame**
Page 648

> **Maintenance accessories**
Page 483

> **Modular distribution**
Pages 400 to 402

> **Locks and inserts**
Pages 178 to 183

> **Cable management**
Page 433

> **Thermal control**
Pages 762 and 763



PR501682

> **Thermal solution**
Pages 750 and 751

> **Plinth page**
Pages 143 and 144

> **Fixing to the floor**
Pages 153 to 155

Get your accessories mounted directly at our factory with our Specific solution, please consult us.

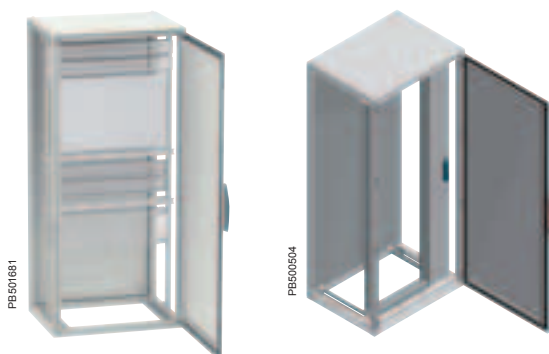


Specific



PR501680

Mounting



All mounting accessories are compatible with the SF and SM standard range

- Mounting plate (see page 347).
- Rails (see page 366).
- 19" frame (fixed and swinging) (see page 648).



Earth braids

- They guarantee the earth connection for high frequencies, avoiding the disturbing electric currents that are produced.
- Material: tinned copper.

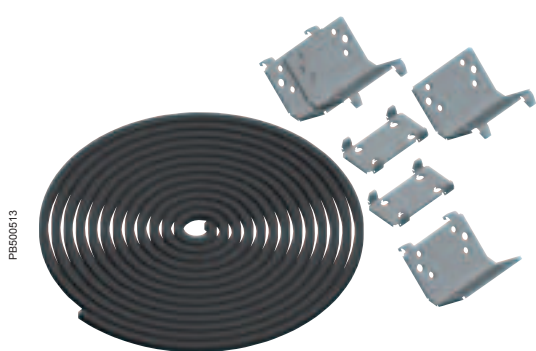


Supply: 10 earth braids (nuts and washers not included).



Reference by unit. Order by multiples of 10 (10, 20, 30 etc.).

Length (mm)	Width (mm)	Section (mm ²)	Terminal Ø (mm)	Reference
150	12	6	6.5	NSYEB156D6
150	17	10	6.5	NSYEB1510D6
155	17	16	6.5	NSYEB1516D8
200	27	25	6.5	NSYEB2025D8
200	33	50	6.5	NSYEB2050D8



EMC coupling kit

- Used to join enclosures side-by-side or depthwise.
- Degree of protection: IP 55.
- Special gasket for EMC solution.
- Attenuation level is decreased by 5 db when enclosures are joined (please consult us).

Height	Depth	Ref. SM EMC
1800	400	NSYSFHFBK184
	600	NSYSFHFBK186
2000	400	NSYSFHFBK204
	600	NSYSFHFBK206
	800	NSYSFHFBK208
2200	600	NSYSFHFBK226
	800	NSYSFHFBK228



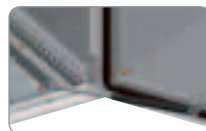
Also check the selection table Pages 124 and 125



General accessories pages 162 and 163



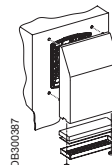
Locks and inserts pages 178 to 183



Door accessories page 481



Mounting accessories pages 358 to 360



Ventilation pages 690 to 693

Power distribution systems



Power distribution systems

Contents

Spacial S3DM	594
---------------------	------------

Spacial SF	596
-------------------	------------

Accessories	613
--------------------	------------

The dimensioned steel enclosure for your modular distribution application



PB500097

S3DM enclosure (standard delivery).



PB500406

S3DM enclosure equipped with a DLM* modular chassis.



PB500305

Top and bottom chequered cable-gland plates.



PB500407

Earth braids on page 492 (to be ordered separately).

8 dimensions with a depth of 150 mm and glazed door. From H 400 x W 300 to H 1000 x W 800 mm.

Enclosure with transparent door, 4 mm Securit® glass.

Plain door on demand, see page 595.

Selection guide, page 24.

Technical characteristics

- Structured finish, polyester powder, RAL 7035 grey colour.
- Protection degree: IP 66.
- Resistance to external mechanical impacts: IK 08.

Body

- Single-piece body, folded and welded. Front rail with double sheet thickness, gutter-shaped.
- Wall mounting by means of fixing lugs (to be ordered separately).
- 4 M8 x 25 mm shouldered backstuds for installing chassis and step slides, leaving a space of 10 mm behind them.
- Cable-gland plate (245 x 80) at the top and bottom of the enclosure, guaranteeing the maximum access surface (also available in plain door).

Door

- Transparent door, 4 mm Securit® glass (also available in plain door).
- Easily removable and reversible door, with 20 mm return with double thickness granting excellent rigidity, opening to 120°, equipped with 2 or 3 invisible hinges. Three locking points for heights of more than 600 mm.
- Wall-mounting enclosure supplied with 3 mm double-bar lock as standard.
- Perforated rails on the hinge side of the door, with drill holes with a diameter of 4.2 mm in steps of 25 mm.
- Polyurethane gasket.
- M6 x 16 mm earthing screw for equipotential connection between the door and the body of the enclosure.

Dedicated accessories

- The Spacial S3DM enclosure for modular distribution can be equipped with:
 - A modular chassis (**NSYDLM*****) with cut-out front panels for 24 to 234 modules according to the dimensions and references (see page 396).
 - A 6 mm² earth connection placed between the body and the door.
- For enclosures with a depth of 150 mm, the chassis can be installed at the front or on the backstuds at the rear. It is possible to adjust its depth using the adjustable supports (**NSYSDCR** type).

It can also be equipped with a plain mounting plate, see page 338.



PB500408

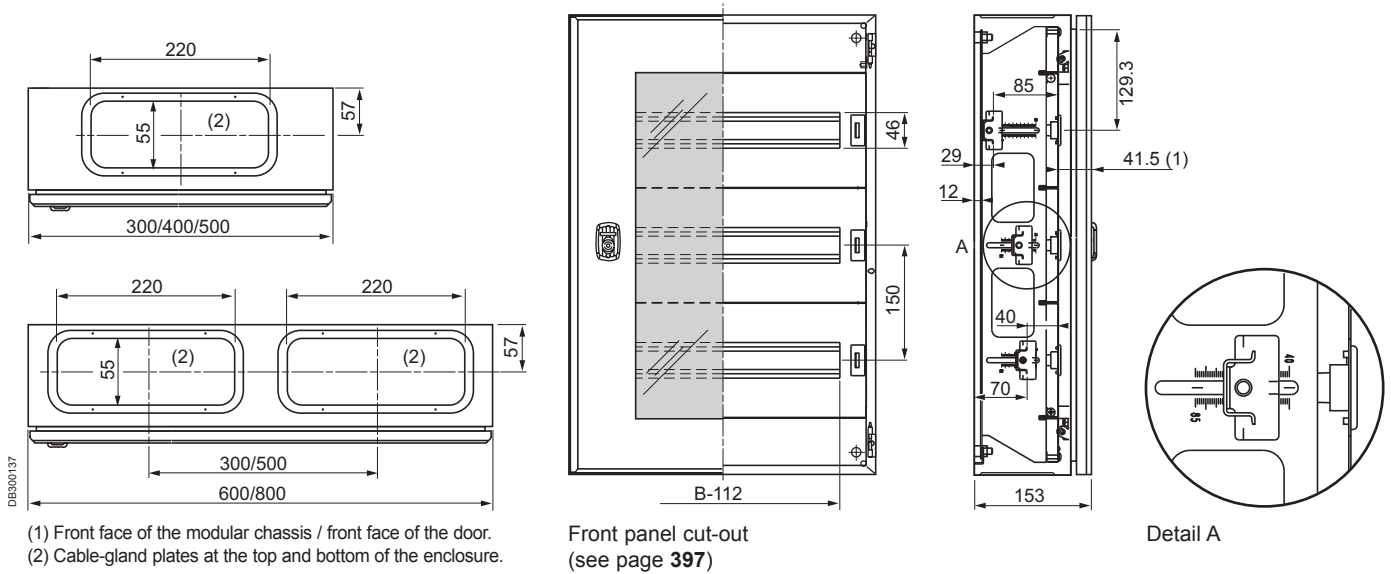
*The DLM modular chassis consists of metal cut-out front panels which can clip on with any screws. Rigid structure made from galvanised steel. The depth of the chassis can be adjusted from 40 to 85 mm, between the rail and the front panel, allowing the installation of all types of devices. The enclosure can be equipped with accessories from the Spacial standard wall-mounting range.



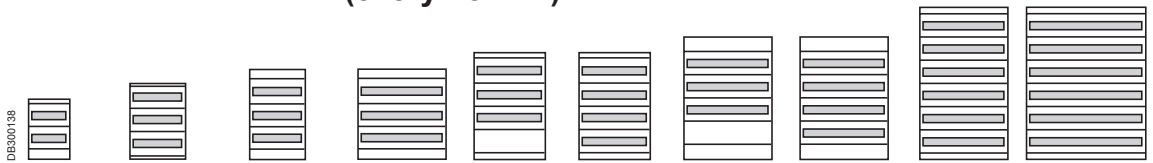
See also the accessories

Blanking plate page 399

Terminal blocks page 422



Number of modules per chassis** (every 18 mm)



Chassis reference	NSYDLM24	NSYDLM48*	NSYDLM48P*	NSYDLM84P*	NSYDLM66	NSYDLM88	NSYDLM84	NSYDLM112	NSYDLM168	NSYDLM240
Enclosure height (mm)	400	500	600	600	700	700	800	800	1000	1000
Enclosure width (mm)	300	400	400	600	500	500	600	600	600	800
Number of rows	2	3	3	3	3	4	3	4	6	6
Modules per row	12	16	16	28	22	22	28	28	28	39
Total n° of modules	24	48	48	84	66	88	84	112	168	234

* References **NSYDLM48**, **NSYDLM48P** and **NSYDLM84P**, the central row cannot receive modules at the height of the lock (check our technical instructions) when installed at the front of the enclosure. In this case, 1 module is sealed up.
 ** DLM modular chassis, see page 396.



The provided dimensions are with the modular chassis, which is the most commonly used accessory with this enclosure.

Selection guide of plain doors for S3DM enclosure

Description	References
Spacial wall-mounting enclosure, H400 x W300	NSYPS3D43
Spacial wall-mounting enclosure, H500 x W400	NSYPS3D54
Spacial wall-mounting enclosure, H600 x W400	NSYPS3D64
Spacial wall-mounting enclosure, H600 x W600	NSYPS3D66
Spacial wall-mounting enclosure, H700 x W500	NSYPS3D75



Mounting plate
page 338

Accessories for
mounting plate
page 344

Cable-management
accessories
page 95 / 434

See also
the accessories

Spacial SF for Prisma Plus P system



PB500211

The Spacial SF range includes specific enclosure models for installing the Prisma Plus P system: functional units and vertical and horizontal busbars. The panels are subject to type tests according to standard IEC 61439-2. Partition types: forms 2 and 3 thanks to the components of the Prisma Plus P system.

RAL 7035 grey, IP 55, IK 10.
Specific finishes and colours are available on demand using our customisation service.

The offer consists of:

- Steel suitable enclosures, height 2000 mm.
- Width 700 mm for installing Prisma P functional units and width 300 mm for installing cable ducting or vertical busbars.
- Depths 500 and 600 mm for panels up to 1600 A.
- Depth 800 mm for panels up to 3200 A or connection of devices by the rear.

To create mixed power distribution and automation panels, the Spacial SF enclosures for Prisma Plus P system can be coupled with standard Spacial SF enclosures and therefore use the universal mounting accessories.

Note: The standard Spacial SF 400mm width can also be used for cable ducting.

Electrical characteristics

The installation of devices with the Prisma Plus P system for Spacial SF allows the installation of low-voltage equipment compliant with standards IEC 50298, IEC 62262 and IEC 61439-2 and having the following characteristics:

- Rated insulation voltage of the main busbar: 1000 V.
- Rated operational current: In 3200 A.
- Rated peak withstand current: Ipk: 187 kA.
- Rated short-time withstand current: Icw 85 kA eff/1 s.
- Frequency: 50/60 Hz.

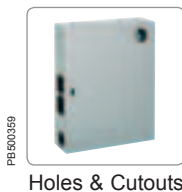
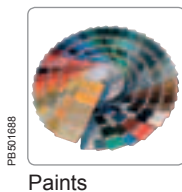
Mechanical characteristics

- Galvanised-steel framework.
- Sheet-steel panels, painted with epoxy-polyester resin, textured finish, RAL 7035 grey.
- The panels can be removed.
- The frameworks can be coupled side-to-side or back-to-back.
- IP 55.
- IK 10 (IK 08 for glazed doors).



PB500740

Customised service: All standard dimensions from our catalogue on request and more...



Spacial SF for Prisma Plus P system

Composition accessories



W = 300 mm.



W = 700 mm.



Enclosure depth 500 Enclosure depth 600 or 800

Technical characteristics

These Spacial SF enclosures have been designed specially for installing the Prisma Plus P system: functional units and busbars. Height: 2000 mm. IP 55 and IK 10 enclosures for the plain-door version or IK 08 for the glazed-door version.

The enclosures are available with 3 depths:

- 500 and 600 mm for panels up to 1600 A;
- 800 mm for panels up to 3200 A or connection by the rear.

The enclosures with width 700 mm support direct installation of Prisma Plus P system functional in white - RAL 9001.

The enclosures with width 300 mm can be used as cable ducts or for the installation of a flat busbar.

The bar compartment can be positioned on the right or on the left. Bar compartments can be coupled side-to-side and back-to-back.

The enclosures with width 700 mm are compatible with all existing Prisma Plus P system functional units, except prefabricated connections, see Prisma Plus catalogue.

The enclosures with width 700 mm consist of:

- 2 frames (top and bottom with screwed roof);
- 4 vertical uprights;
- 4 adapter uprights (enclosure depth 500);
- 2 adapter uprights and 2 intermediate uprights (enclosure depths 600 and 800);
- Screwed rear panel.
- Plain or glazed door.

And can be coupled side-to-side and back-to-back.

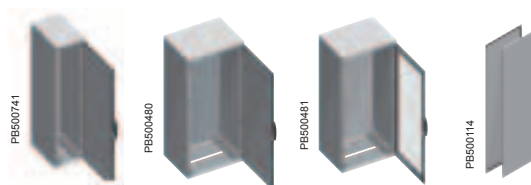
The enclosures with width 300 mm consist of:

- 2 frames (top and bottom with screwed roof);
- 4 vertical uprights;
- Screwed rear panel;
- Plain door.

The Linergy busbar can only be installed in lateral position with depth 500 mm. Add the set of 2 Prisma Plus P system functional uprights **NSYSFPA**.

The enclosures are supplied assembled, without lateral panels.

All Spacial SF enclosures for Prisma Plus P system can be coupled with Spacial SF enclosures with the same depth.

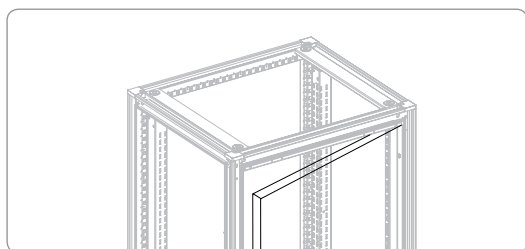


Height	Depth	Width			Set of 2 lateral panels
		300 Plain door	700 Plain door	700 Glazed door	
2000	500	NSYSF20350	NSYSFP20750	NSYSFP20750T	NSY2SP205
	600	NSYSF20360	NSYSFP20760	NSYSFP20760T	NSY2SP206
	800	NSYSF20380	NSYSFP20780	NSYSFP20780T	NSY2SP208

Use the earth cables to guarantee the earth connection of the side panels.

Spacial SF for Prisma Plus P system

Accessories



DB300295

Prisma Plus hinged support frame

Hinged support frame for cover plates with width 700 mm.

- Reversible, opening to right/left.
- Colour: white - RAL 9001.
- Locking at 2 points by 1/4 turn nuts.
- Installed on enclosures with width 700 mm.
- Mandatory for installing Prisma Plus Functional units.

Reference

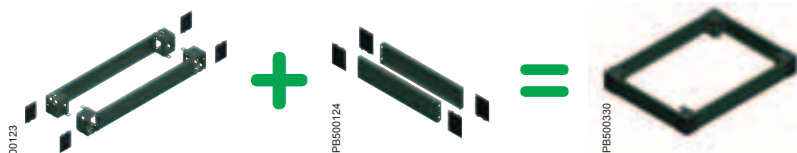
08566

Plinths

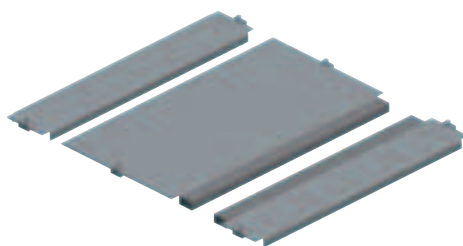
The plinths are available in 2 heights: 100 and 200 mm. They can be combined to obtain heights of 300 mm, 400 mm or more.

The complete plinth comprises two assemblies:

- The front and rear panels, with the 4 corners;
- 2 side panels.



Width	Depth	Plinth H 100 mm		Plinth H 200 mm	
		Front/rear panels	Side panels	Front/rear panels	Side panels
300	500		NSYSPS5100		NSYSPS5200
	600	NSYSPF3100	NSYSPS6100	NSYSPF3200	NSYSPS6200
	800		NSYSPS8100		NSYSPS8200
700	500		NSYSPS5100		NSYSPS5200
	600	NSYSPF7100	NSYSPS6100	NSYSPF7200	NSYSPS6200
	800		NSYSPS8100		NSYSPS8200



PB500116

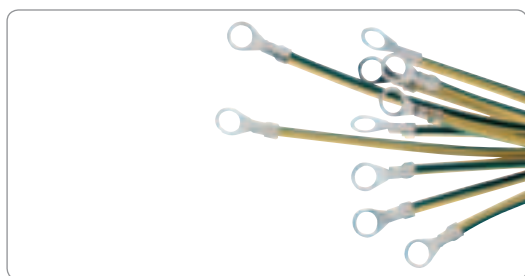
Cable-gland plate

Galvanised-steel plates for cable entry by the bottom of the enclosures, thickness 1.5 mm.

Fixing by C-shaped clips fixed by screws ensuring electrical continuity.

Plate with 1 entry: self-extinguishing polyurethane adhesive seal, rectangular section of 15 x 25 mm and fixing elements.

Width	Depth	Reference
300	500	NSYEC351
	600	NSYEC361
	800	NSYEC381
700	500	NSYEC751
	600	NSYEC761
	800	NSYEC781



PB500217

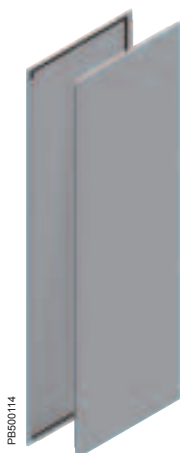
Earth cables

- Essential to guarantee the earthing of the side panels, roof and door.
- Material: brass and copper alloy terminal, green and yellow PVC insulating sheath.
- Composition: 10 earth cables, to be ordered by multiples of 10 (nuts and washers not included).

Length (mm)	Cut (mm ²)	Terminal Ø (mm)	Reference
160	6	8.3	NSYEL166D8
350	25	8.3	NSYEL3525D8

Spacial SF for Prisma Plus P system

Accessories



Side panels

External fixing

- Set of 2 side panels fixed from the outside of the enclosure.
- Captive screws.
- Material: steel.
- Finish: painted with epoxy-polyester resin, textured RAL 7035 grey.
- Supply: 2 side panels fixed from the outside and fixing elements.

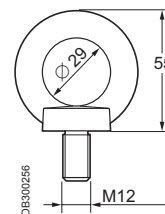
Nominal dimensions (mm)		Reference
Height	Depth	
2000	500	NSY2SP205
	600	NSY2SP206
	800	NSY2SP208



Eyebolts

Set of 4 moulded galvanised-steel M12 eyebolts for direct screwing in the framework of the enclosure, in line with the uprights.

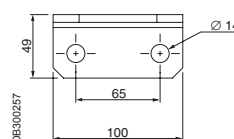
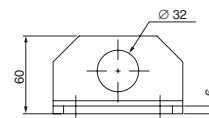
Reference
NSYSFEB



Lifting brackets

Set of 4 zinc-coated steel transport brackets for fixing to the framework, spanning two coupled enclosures, in line with the uprights.

Reference
NSYSFELB

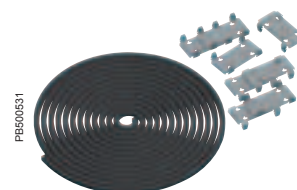


Coupling kit

For side to side or back to back* coupling of 2 enclosures:

- Fixing from the inside of the enclosure.
- Protection degree: IP 55.
- Material:
 - Flat links: zinc-coated steel.
 - Sealing gasket: EPDM.

Reference
NSYSFBK19



* Back to back associations must be shipped individually.

Spacial SF for Prisma Plus P system

Horizontal busbars up to 1600 A

Busbar configuration

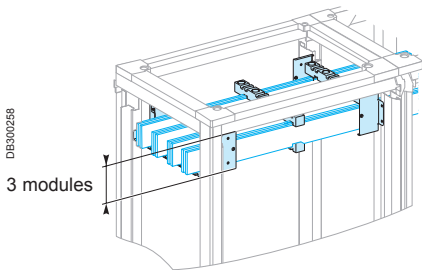
The bars are supported by insulating supports fixed to the framework.

The tables on this page show:

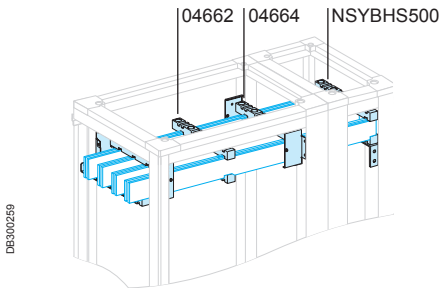
- The number and section of the bars to be used according to the permissible current level of the busbar;
- The number of bar supports to be installed in each type of framework, according to:
 - The section of the bars
 - The rated short-time withstand current I_{cw} .

For further information on configuring the busbar, see page 603.

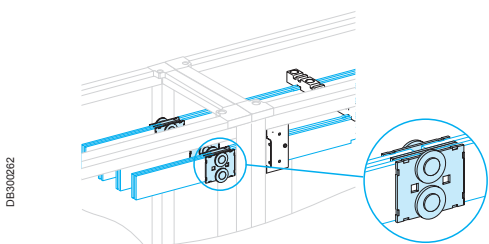
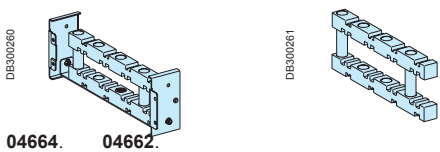
The busbar takes up 3 Prisma modules of 50 mm each.



Busbar selection



Fixed support and mobile support.



Connection.

Number and section of the copper bars

Permissible current level (A)	No. bars/phase
IP55	
750	1 bar, 60 x 5
900	1 bar, 80 x 5
1250	2 bars, 60 x 5
1600	2 bars, 80 x 5

Note: The busbar permissible current level values are provided for an ambient temperature of 35 °C around the panel.

Number of supports

Framework width (mm)	Bar section (mm)	No. of I_{cw} supports (kA eff/1 s)				
		≤ 15	≤ 25	≤ 30	≤ 40	≤ 50
700	1 bar, 60 x 5					
	1 bar, 80 x 5					
	2 bars, 60 x 5		2			3
	2 bars, 80 x 5		2			3
300	All sections	1				2

Flat bars with width 2000 mm

Type of bar	Reference
Plain copper bar, 60 x 5	04536
Plain copper bar, 80 x 5	04538

Bar supports

2 compulsory fixed supports for frameworks with width 700 and 1 compulsory support for frameworks with width 300. If more supports are required, complete them using mobile supports.

Busbar centre-to-centre distance (mm)	Enclosure W700 Depth 500	Enclosure W300 Depth 500	Enclosure W300 Depth 600	Enclosure W300 Depth 800
	75	75	75	75
Fixed support for horizontal bars	04664	NSYBHS500	NSYBHS600	NSYBHS800
Mobile support (additional)	04662	04662	04662	04662

Connections

Connections	Reference
1 connection for bars	Width 60 mm
	Width 80 mm

Note: When installed at the bottom of the enclosure, the busbar must be partitioned.

Spacial SF for Prisma Plus P system

Horizontal busbars up to 3200 A

Busbar configuration

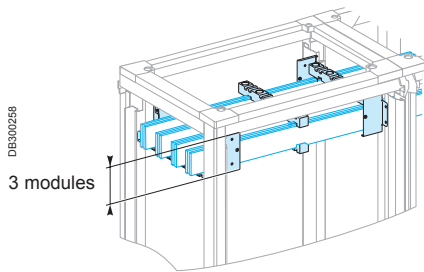
The bars are supported by insulating supports fixed to the framework.

The tables on this page show:

- The number and section of the bars to be used according to the permissible current level of in the busbar;
- The number of bar supports to be installed in each type of framework, according to:
 - The section of the bars.
 - The rated short-time withstand current I_{cw} .

For further information on configuring the busbar, see page 603.

The busbar takes up 3 Prisma modules of 50 mm each.



Number and section of the copper bars

Permissible current level (A)	No. bars/phase
1080	1 bar, 50 x 10
1250	1 bar, 60 x 10
1600	1 bar, 80 x 10
1850	2 bars, 50 x 10
2000	2 bars, 60 x 10
2500	2 bars, 80 x 10
2900	2 bars, 100 x 10

Note: The busbar permissible current level values are provided for an ambient temperature of 35 °C around the panel.

Number of supports (centre-to-centre distance: 75 mm)

Framework width (mm)	Bar section (mm)	No. of I_{cw} supports (kA eff/1 s)							
		≤ 25	≤ 30	≤ 40	≤ 50	≤ 60	≤ 65	≤ 75	≤ 85
700	1 bar, 50 x 10	2	3	4	4	4	4	4	4
	1 bar, 60 x 10								
	1 bar, 80 x 10								
	2 bars, 50 x 10								
	2 bars, 60 x 10								
	2 bars, 80 x 10								
2 bars, 100 x 10									
300	All sections	1			2				

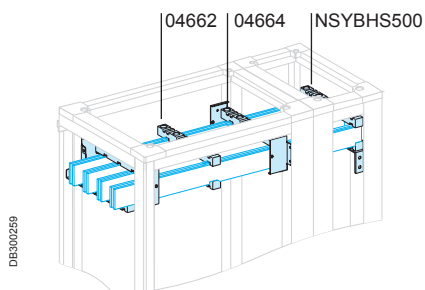
Number of supports (centre-to-centre distance: 115 mm)

Framework width (mm)	Bar section (mm)	No. of I_{cw} supports (kA eff/1 s)							
		≤ 25	≤ 30	≤ 40	≤ 50	≤ 60	≤ 65	≤ 75	≤ 85
700	1 bar, 50 x 10	2	3	4	4	4	4	4	4
	1 bar, 60 x 10								
	1 bar, 80 x 10								
	2 bars, 50 x 10								
	2 bars, 60 x 10								
	2 bars, 80 x 10								
2 bars, 100 x 10									
300	All sections	1			2				

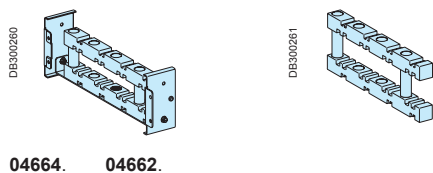
Spacial SF for Prisma Plus P system

Horizontal busbars up to 3200 A

Busbar choice



Fixed support and mobile support.



04664. 04662.

Flat bars with width 2000 mm

Type of bar	Reference
Plain copper bar, 50 x 10	04545
Plain copper bar, 60 x 10	04546
Plain copper bar, 80 x 10	04548
Plain copper bar, 100 x 10	04550

Bar supports

2 compulsory fixed supports for frameworks with width 700 and 1 compulsory fixed support for frameworks with width 300. If more supports are required, complete them using mobile supports.

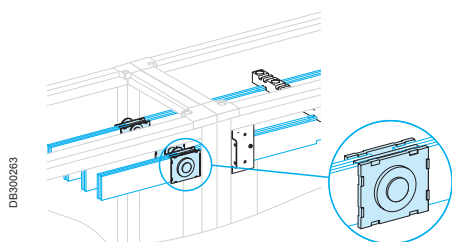
Busbar centre-to-centre distance (mm)	Bar width	Enclosure W700	Enclosure W300 Depth 500	Enclosure W300 Depth 600	Enclosure W300 Depth 800
		75	75	75	75
Fixed support for horizontal bars	≤80 mm	04664	NSYBHS500	NSYBHS600	NSYBHS800
	>80 mm	04664 +04671	NSYBHS500 +04671	NSYBHS600 +04671	NSYBHS800 +04671
Mobile support (additional) for bars	≤80 mm	04662	04662	04662	04662
	>80 mm	04662 +04671	04662 +04671	04662 +04671	04662 +04671

Busbar centre-to-centre distance (mm)	Bar width	Enclosure W700 Depth 800	Enclosure W300 Depth 800
		115	115
Fixed support for horizontal bars	≤80 mm	NSYBHS800L	NSYBHS800L
	>80 mm	NSYBHS800L +04671	NSYBHS800L +04671
Mobile support (additional) for bars	≤80 mm	04678	04678
	>80 mm	04678 +04671	04678 +04671

Connections

Connections	Reference	
1 connection for bars	Widths 50 and 60 mm	04640
	Widths 80 and 100 mm	04641

Note: When installed at the bottom of the enclosure, the busbar must be partitioned.



Spacial SF for Prisma Plus P system

Lineryy vertical busbars up to 3200 A, depth 500 mm

Busbar configuration

The table on this page shows:

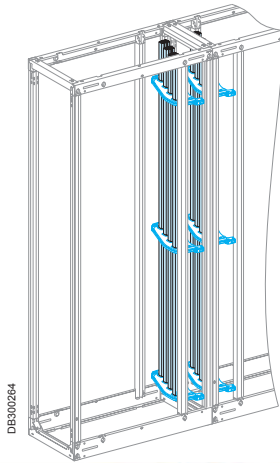
- The reference of the aluminium profiles to be used according to the permissible current level of the busbar.
 - The number of supports to be used according to the rated short-time withstand current (I_{cw} in kA eff/1 s).
- Beyond 1600 A, the busbar is doubled in two bar compartments, side-by-side.

In this case, it is compulsory to install 3 equipotential links between the busbars.

- The support is identical, regardless of the current-carrying capacity.

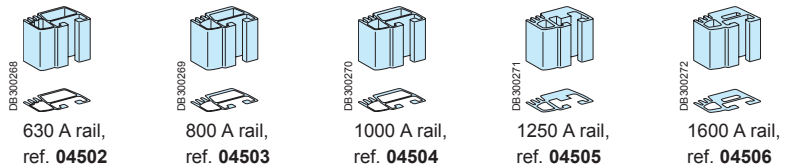
Lineryy rail	Reference of 1 rail	Permissible current level (A) at 35 °C for panel	No. of supports according to the rated short-time withstand currents I _{cw} (kA eff / 1 s)							
			IP > 31	≤ 25	≤ 30	≤ 40	≤ 50	≤ 60	≤ 65	≤ 75
Single busbar										
Lineryy 630	04502	590								
Lineryy 800	04503	760								
Lineryy 1000	04504	950								
Lineryy 1250	04505	1170								
Lineryy 1600	04506	1480								
Double busbar										
Lineryy 2000	04504 x 2	1820	2 x 3		2 x 4		2 x 5			
Lineryy 2500	04505 x 2	2260								
Lineryy 3200	04506 x 2	2920								

Note: The busbar permissible current level values are provided for an ambient temperature of 35 °C around the panel. The bottom support can also be used to wedge the bars. Each reference consists of 1 rail.



Busbar selection

Lineryy rail with width 1670 mm, section 32.5 x 42.5 mm.
Choice of references: see table below.

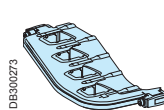


Bar support and adapter upright

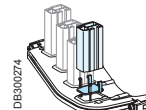
- To install a Lineryy busbar in a 300-mm sheath, depth 500 mm, it is necessary to add the adapter uprights.
- The Lineryy bar supports are delivered with class 8.8 fixings.

Description	Reference
Adapter upright, batch of 2	NSYSFPA
Lineryy bar support	04651

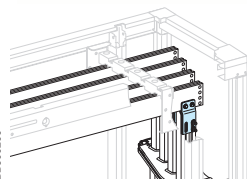
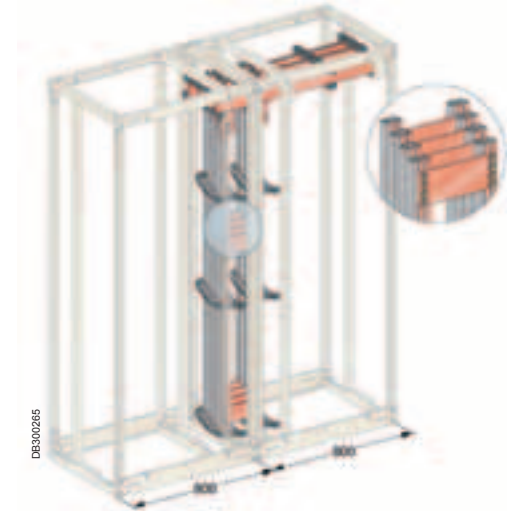
The busbar is installed in suitable enclosures with width 700 mm and depth 500 mm.



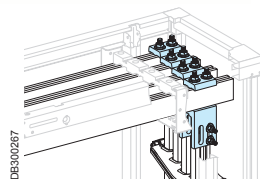
Bar support installed



Each rail is delivered with one stop to be on the bottom support



04635 connection to horizontal bars, thickness 5 mm.



04636 connection to horizontal bars, thickness 10 mm.

Connection to a horizontal busbar

It connects a horizontal busbar (thickness 5 or 10 mm) to a Lineryy lateral busbar. It is delivered with fixings.

Connection (1)		Reference
to horizontal bars, thickness 5 mm	1000 A connection conductor	04634
	1600 A connection conductor	04635
to horizontal bars, thickness 10 mm	connection conductor for horizontal bar width ≤ 80 mm	04636
	connection conductor for horizontal bar width > 80 mm	04636 + 04642

(1) References **04634**, **04635** and **04636** are delivered as a unit: 1 link per phase.

Spacial SF for Prisma Plus P system

Linery rear busbars up to 1600 A

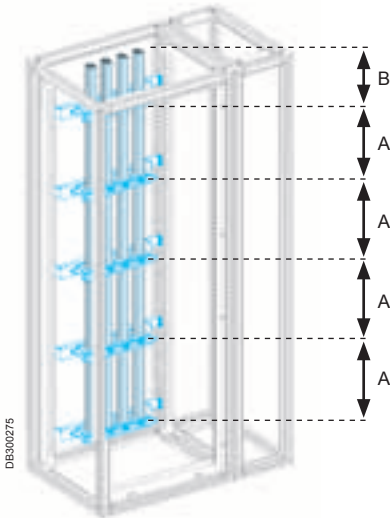
Busbar configuration

The table on this page shows:

- The reference of the profiles to be used according to the permissible current level of the busbar.
- The number of supports to be used according to the rated short-time withstand current (I_{cw} in kA eff/1 s).

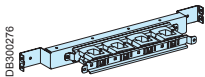
The busbar is installed in enclosures with width 700 mm, depth 500 mm.

- The support is identical, regardless of the current-carrying capacity.

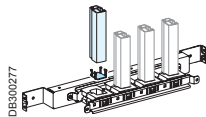


Busbar up to 1600 A (30 kA SCC and 40 kA).
The bottom support can also be used to wedge the bars.

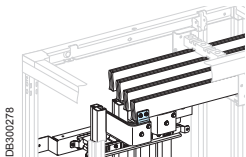
B = max. 387.5 mm
A = max. 350 mm



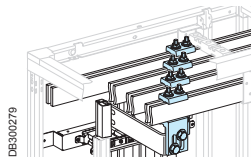
Bar support.



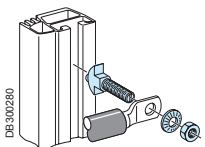
Each bar is delivered with one stop to be installed on the bottom support (vertical wedging).



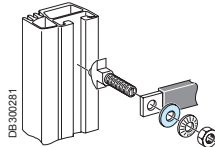
04635 connection with horizontal bars, thickness 5 mm.



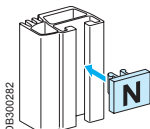
04636 connection with horizontal bars, thickness 10 mm.



Linery bolts (screw + nut + contact washer).



Flat washers.



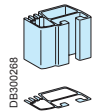
Set of 12 phase identifiers.

Linergy rail	Reference of 1 rail	Permissible current level (A) at 35 °C for panel	No. of supports according to the rated short-time withstand currents I_{cw} (kA eff/1 s)			
			IP > 31	≤ 25	≤ 30	≤ 40
Linergy 630	04502	590	3	4	5	7
Linergy 800	04503	760				
Linergy 1000	04504	950				
Linergy 1250	04505	1170				
Linergy 1600	04506	1480				

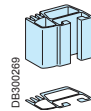
Note: The busbar permissible current level values are provided for an ambient temperature of 35 °C around the panel. The bottom support can also be used to wedge the bars. Each reference consists of 1 rail.

Busbar selection

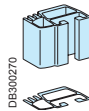
Linergy rail with width 1670 mm, 32.5 x 42.5-mm section.
Choice of references: see table below.



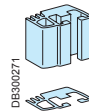
630 A rail, ref. **04502**



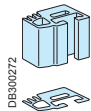
800 A rail, ref. **04503**



1000 A rail, ref. **04504**



1250 A rail, ref. **04505**



1600 A rail, ref. **04506**

Bar support

- A stop for the bottom support also allows the bars to be wedged.
- Delivered with class 8.8 fixings.

Bar support for Linergy rear busbar	Reference
	04652

Connection to a horizontal busbar

For connecting a horizontal busbar (thickness 5 or 10 mm) and a Linergy rear vertical busbar.

Connection (2)		Reference
to horizontal bars, thickness 5 mm		04635 (1)
to horizontal bars, thickness 10 mm	horizontal bars, width ≤ 80 mm	04636 (1)
	horizontal bars, width > 80 mm	04636 + 04642 (1)

(1) A part of the link must be made using insulated flexible bars.

(2) References **04635** and **04636** are delivered as a unit: 1 link per phase.

Linergy accessories

Linergy screws (3)

Batch of 20 Linergy M8 bolts (20 screws + 20 nuts + 20 contact washers)	Reference
Width = 25 mm (to connect flexible bars and lugs)	04766
Width = 39 mm (to connect copper bars)	04767

(3) The 8.8 screws slide along the rail and immobilise at the desired location.

Flat washers

Batch of 20 M8 flat washers		Reference
steel	outer diameter 20 mm	04772
	outer diameter 24 mm	04773
	outer diameter 28 mm	04774
brass	outer diameter 20 mm (i 25v lug connection on Linergy)	04775

Identification

Set of 12 phase identifiers	Reference
12 clip-on supports + N, L1, L2, L3, PE, PEN labels	04794

Spacial SF for Prisma Plus P system

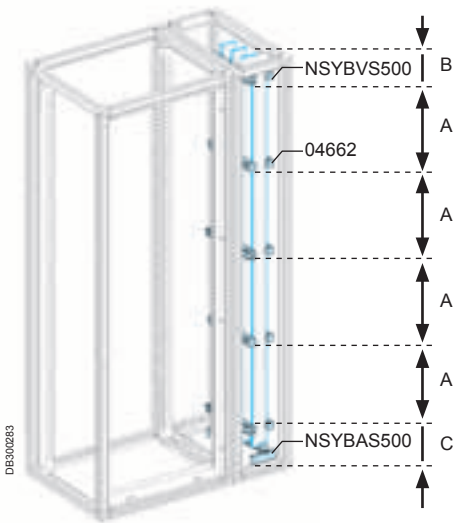
Vertical busbars up to 1600 A

Flat bars, thickness 5 mm

Busbar configuration

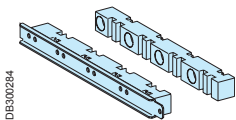
The bars are supported by insulating supports: 3 fixed supports (screwed to the framework) are compulsory. If necessary, use additional mobile supports. The bars are resting against a bottom support. The table on this page shows:

- The number and section of the bars to be used according to the permissible current level of the busbar.
- The number of bar supports to be installed in an enclosure according to the rated short-time withstand current (I_{cw}).

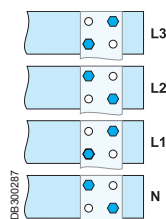
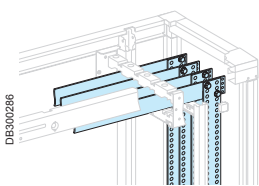


Busbar with I_{cw} 30 kA eff/1 s. The bars are supported by 3 fixed supports (compulsory) and 2 mobile supports.

B = max. 100 mm
A = max. 350 mm
C = max. 87.5 mm



Mobile bar support **04662**.



Separation required between bar coupling points to guarantee the insulation distances.

Number of copper bars and supports

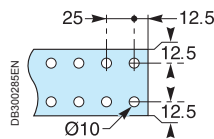
Permissible current level (A) for panel	No. of bars/phase and section (mm)	No. of supports according to the rated short-time withstand currents I _{cw} (kA eff/1 s)				
		15	≤ 25	≤ 30	≤ 40	≤ 50
750	1 bar, 60 x 5	3	5	5	7	7
900	1 bar, 80 x 5					
1250	2 bars, 60 x 5					
1600	2 bars, 80 x 5					

Note: The busbar permissible current level values are provided for an ambient temperature of 35 °C around the panel.

Busbar selection

Flat bars with width 1675 mm

Perforated copper bar	Reference
60 x 5 mm	04516
80 x 5 mm	04518



Bar supports: fixing directly on framework of 300-mm duct

3 fixed supports are compulsory for supporting the bars. If more than 3 supports are required, use the mobile supports (additional).

Busbar centre-to-centre distance (mm)	Enclosure W300 Depth 500	Enclosure W300 Depth 600	Enclosure W300 Depth 800	Enclosure W300 Depth 800
	75	75	75	115
Fixed support for lateral flat busbar	NSYBVS500	NSYBVS600	NSYBVS800	NSYBVS800L
Mobile support (additional)	04662	04662	04662	04678

Bar wedging

The bottom support allows the bars to be installed and positioned. It does not count as a bar support.

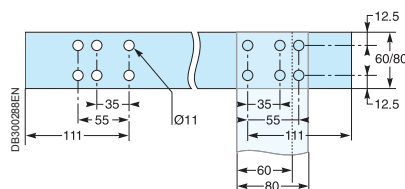
Busbar centre-to-centre distance (mm)	Enclosure W300 Depth 500	Enclosure W300 Depth 600	Enclosure W300 Depth 800	Enclosure W300 Depth 800
	75	75	75	115
Bottom support for lateral flat busbar	NSYAS500	NSYAS600	NSYAS800	NSYAS800L

Note: When connecting 5-mm flat bars to a horizontal busbar, references **NSYAS•00** are not required.

Connection to a horizontal busbar, thickness 5 mm

Direct connection (centre-to-centre distance 75 mm)

For a busbar centre-to-centre distance of 75 mm, the bars must be completely overlapped.



Drilling dimensions for the horizontal bars, thickness 5 mm.

Spacial SF for Prisma Plus P system

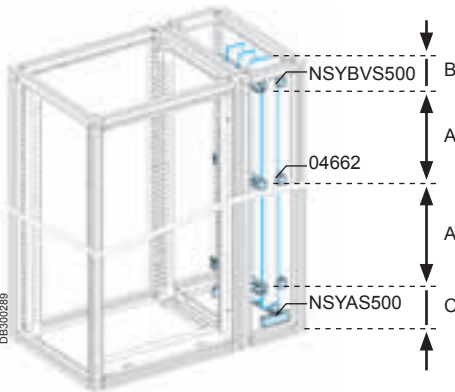
Vertical busbars up to 3200 A

Flat bars, thickness 10 mm

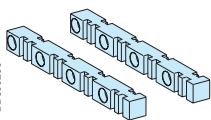
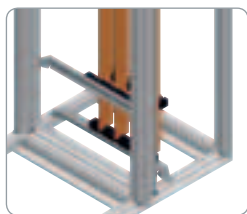
Busbar configuration

The bars are supported by insulating supports: 3 fixed supports (screwed to the framework) are compulsory. If necessary, use additional mobile supports. The bars are resting against a bottom support. The table on this page shows:

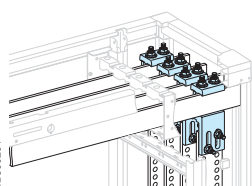
- The number and section of the bars to be used according to the permissible current level of the busbar;
- The number of bar supports to be installed in an enclosure according to the rated short-time withstand current (I_{cw}).



Single busbar ≤ 1600 A (IP ≤ 31).



Mobile bar support **04662**.



Number of copper bars and supports

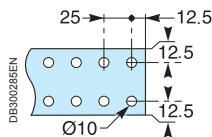
Permissible current level (A) for panel		No. of bars/phase and section (mm)	No. of supports according to the rated short-time withstand currents I _{cw} (kA eff/1 s)							
IP ≤ 31	IP > 31		≤ 25	≤ 30	≤ 40	≤ 50	≤ 60	≤ 65	≤ 75	≤ 85
Single busbar										
1200	1080	1 bar, 50 x 10	3	5	7	9				
1400	1250	1 bar, 60 x 10								
1800	1600	1 bar, 80 x 10								
2050	1850	2 bars, 50 x 10								
2300	2000	2 bars, 60 x 10								
2820	2500	2 bars, 80 x 10								
3200	2820	2 bars, 100 x 10								

Note: The busbar permissible current level values are provided for an ambient temperature of 35 °C around the panel.

Busbar selection

Flat bars with width 1675 mm

Perforated copper bar	Reference
50 x 10 mm	04525
60 x 10 mm	04526
80 x 10 mm	04528



Bar supports: fixing directly on framework of 300-mm duct

3 fixed supports are compulsory for supporting the bars. If more than 3 supports are required, use the mobile supports (additional).

Busbar centre-to-centre distance (mm)	Enclosure W300 Depth 500	Enclosure W300 Depth 600	Enclosure W300 Depth 800	Enclosure W300 Depth 800
	75	75	75	115
Fixed support for lateral flat busbar	NSYBVS500	NSYBVS600	NSYBVS800	NSYBVS800L
Mobile support (additional)	04662	04662	04662	04678

Bar wedging

The bottom support allows the bars to be installed and positioned. It does not count as a bar support.

Busbar centre-to-centre distance (mm)	Enclosure W300 Depth 500	Enclosure W300 Depth 600	Enclosure W300 Depth 800	Enclosure W300 Depth 800
	75	75	75	115
Fixed support for lateral flat busbar	NSYAS500	NSYAS600	NSYAS800	NSYAS800L

Connection to a horizontal busbar, thickness 10 mm

Vertical busbar connection (2)	Horizontal bars	Vertical bars	Reference
(1 bar/phase) to horizontal bars	L ≤ 80 mm	50/60 mm	04636
	L > 80 mm	50/60 mm	04636 + 04642
	L ≤ 80 mm	80 mm	04637
	L > 80 mm	80 mm	04637 + 04642
(2 bars/phase) to horizontal bars	L ≤ 80 mm	50/80 mm	04637
	L > 80 mm	50/80 mm	04637 + 04642

(2) References **04636** and **04637** are delivered as a unit: 1 link per phase.

Spacial SF for Prisma Plus P system

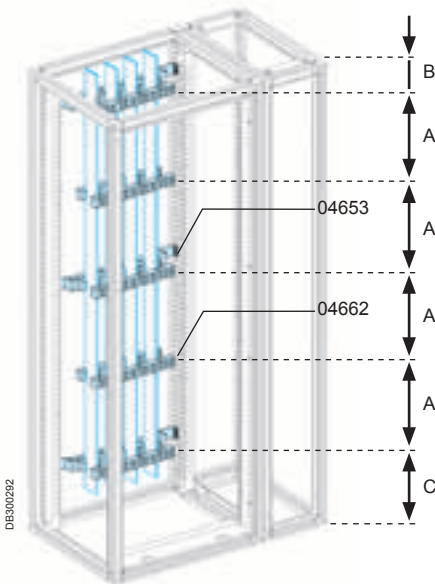
Rear busbars up to 1250 A

Flat bars, thickness 5 mm

Busbar configuration

The bars are supported by insulating supports: 3 fixed supports (screwed to the framework) are compulsory. If necessary, use additional mobile supports. The bars rest against one of the fixed supports by means of a wedge screwed onto each bar. The table on this page shows:

- The number and section of the bars to be used according to the permissible current level of the busbar.
- The number of bar supports to be installed according to the rated short-time withstand current (Icw).



Busbar with Icw 30 kA eff/1 s.
The bars are supported by 3 fixed supports, 04653 x 3 (compulsory), and 2 mobile supports, 04662 x 2.

B = max. 100 mm
A = max. 750 mm
C = max. 87.5 mm

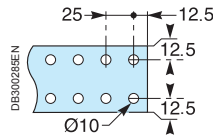
Number of copper bars and supports

Permissible current level (A) for panel		No. of bars/phase and section (mm)	No. of supports according to rated short-time withstand currents Icw (kA eff/1 s)				
IP ≤ 31	IP > 31		15	≤ 25	≤ 30	≤ 40	≤ 50
800	750	1 bar, 60 x 5	3	5			7
1000	900	1 bar, 80 x 5					
1400	1250	2 bars, 60 x 5					

Busbar selection

Flat bars with width 1675 mm

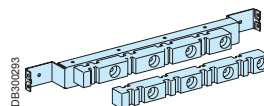
Perforated copper bar	Reference
60 x 5 mm	04516
80 x 5 mm	04518



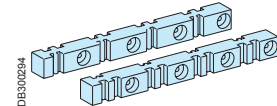
Bar supports

3 fixed supports are compulsory for supporting the vertical busbars. If more than 3 supports are required, use the mobile supports (additional).

Bar support	Reference
fixed for rear flat busbar	04653
mobile (additional)	04662



Fixed bar support **04653**.

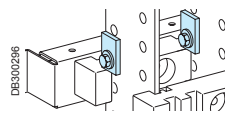


Mobile bar support **04662**.

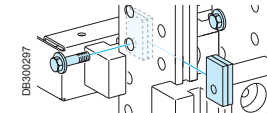
Bar wedging

A metal wedge with thickness 5 mm is screwed onto the bar. It rests against a fixed support and wedges the bar.

Wedge for bars	Reference
100 5-mm wedges for bars	04669



Wedging: 1 bar/phase.



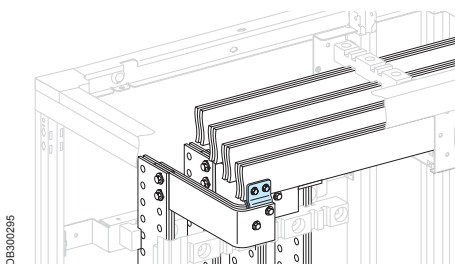
Wedging: 2 bars/phase.

Connection to a horizontal busbar

1600 A connection		Reference
to horizontal bars, thickness 5 mm		04635 (1) (2)
to horizontal bars, thickness 10 mm	L ≤ 80 mm	04636 (1) (2)
	L > 80 mm	04636 (2) + 04642 (1)

(1) A part of the link must be made using insulated flexible bars.

(2) References **04635** and **04636** are delivered as a unit = 1 link per phase.



Spacial SF for Prisma Plus P system

Rear busbars up to 1600 A

Flat bars, thickness 10 mm

Busbar configuration

The bars are supported by insulating supports: 3 fixed supports (screwed to the framework) are compulsory. If necessary, use additional mobile supports.

The bars rest against one of the fixed supports by means of a wedge screwed onto each bar.

The table on this page shows:

- The number and section of the bars to be used according to the permissible current level of the busbar.
- The number of bar supports to be installed according to the rated short-time withstand current (I_{cw} en KA eff/15).
- The busbar is installed in suitable enclosures with width 700 mm and depth 500 mm.

Number of copper bars and supports

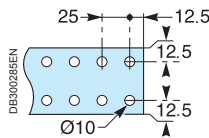
Permissible current level (A) for panel	No. of bars/phase and section (mm)	No. of supports according to the rated short-time withstand currents I_{cw} (kA eff/1 s)							
		≤ 25	≤ 30	≤ 40	≤ 50	≤ 60	≤ 65	≤ 75	≤ 85
IP > 31									
1080	1 bar, 50 x 10	3	5	7	9				
1250	1 bar, 60 x 10								
1600	1 bar, 80 x 10								

Note: The busbar permissible current level values are provided for an ambient temperature of 35 °C around the panel.

Busbar selection

Flat bars with width 1675 mm

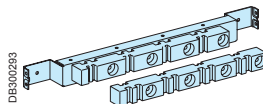
Perforated copper bar	Reference
50 x 10 mm	04525
60 x 10 mm	04526
80 x 10 mm	04528



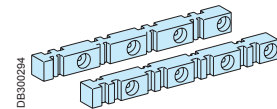
Bar supports

3 fixed supports are compulsory for supporting the vertical busbars. If more than 3 supports are required, use the mobile supports (additional).

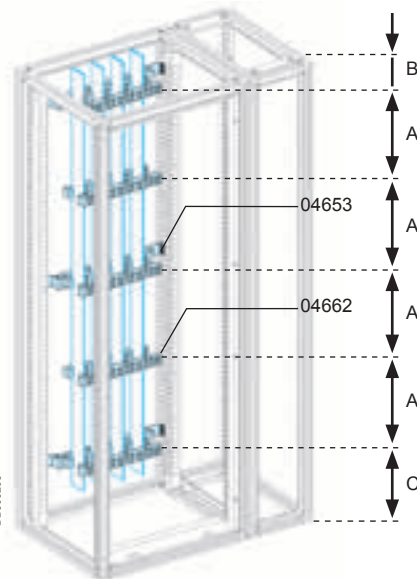
Bar support	Reference
fixed for rear flat busbar	04653
mobile (additional)	04662



Fixed bar support 04653.



Mobile bar support 04662.



Busbar with I_{cw} 40 kA eff/1 s.

The bars are supported by 3 fixed supports, 04653 (compulsory), and 2 mobile supports, 04662.

B = max. 100 mm

A = max. 375 mm

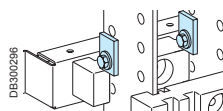
C = max. 87.5 mm

Bar wedging

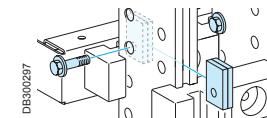
A metal wedge with thickness 5 mm is screwed onto the bar.

It rests against a fixed support and wedges the bar.

Wedge for bars	Reference
100 5-mm wedges for bars	04669



Wedging: 1 bar/phase.



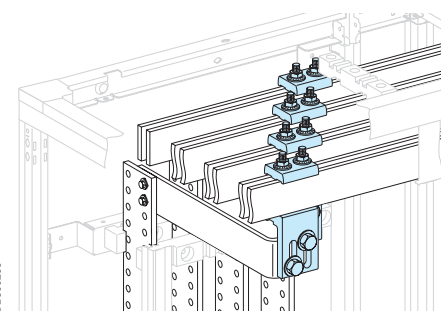
Wedging: 2 bars/phase.

Connection to a horizontal busbar, thickness 10 mm

Connection ≤ 1600 A	Reference	
to horizontal bars, thickness 10 mm	L ≤ 80 mm	04636 (1) (2)
	L > 80 mm	04636 (2) + 04642 (1)

(1) A part of the link must be made using insulated flexible bars.

(2) References 04635 and 04636 are delivered as a unit = 1 link per phase.

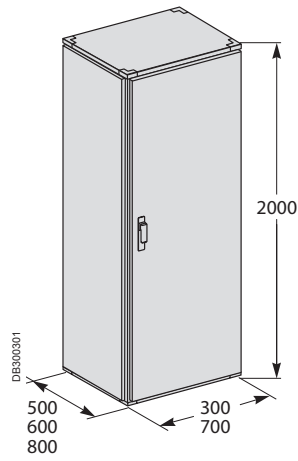


Spacial SF for Prisma Plus P system

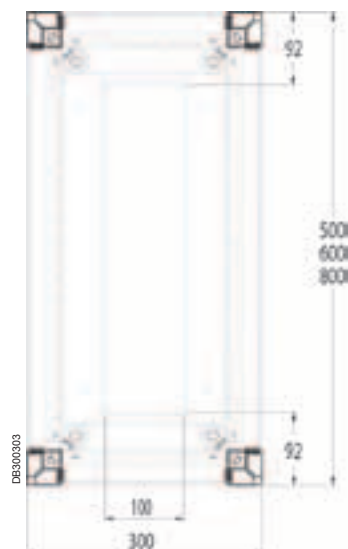
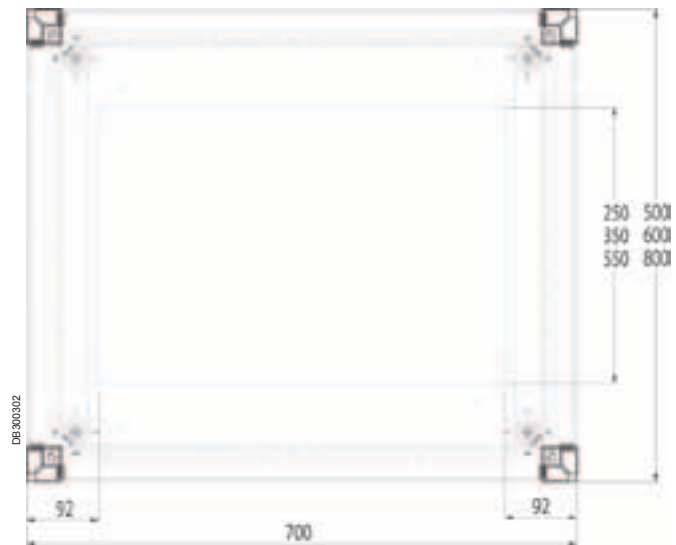
Dimensions



Plain or transparent door, side panels



Cable-entry plate

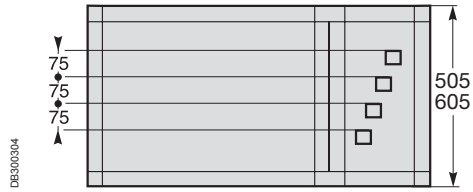


Spacial SF for Prisma Plus P system

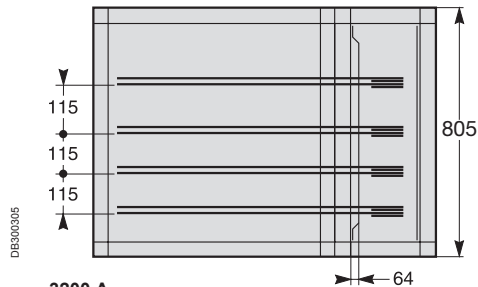
Dimensions

Busbar installation

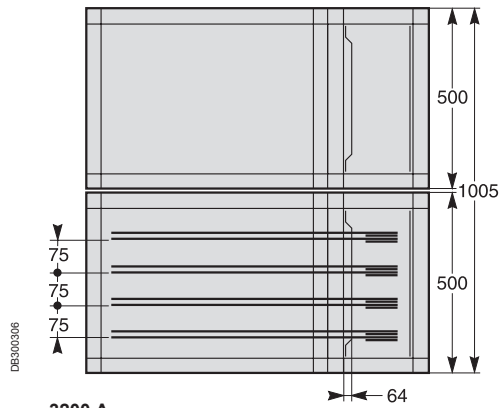
Side vertical busbar



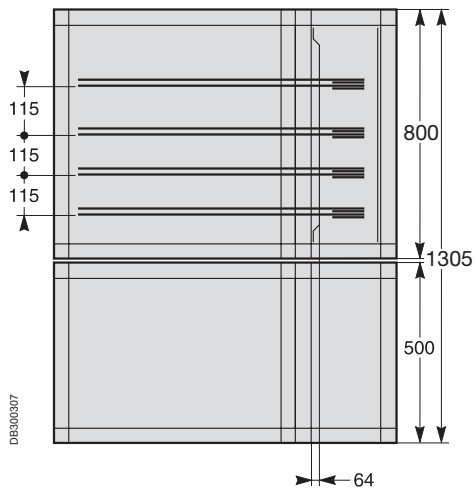
1600 A.



3200 A.



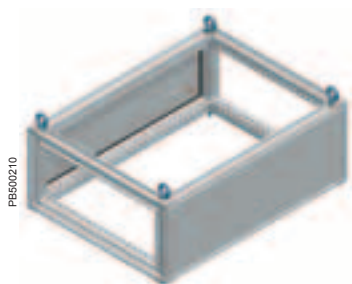
3200 A.



3200 A.


Power distribution

Power distribution accessories



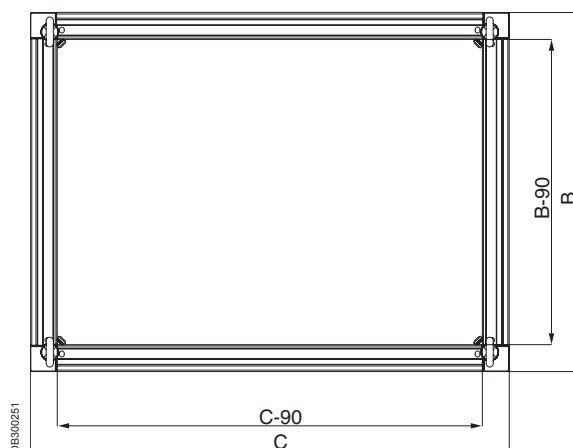
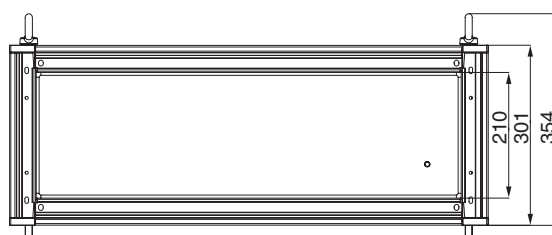
Top busbar chamber

- Chamber which protects and supports the sets of horizontal bars.
- Enables new switchgear by tapping and isolates the sets of bars from the rest of the equipment.
- It is only installed at the top of the enclosure.
- Degree of protection: IP55.
- Material: steel.
- Finish: painted with epoxy-polyester resin, textured RAL 7035 grey.

-  Supply:
- One structure of the busbar chamber as a kit.
 - Two front panels.
 - Four eyebolts.
 - One sealing gasket.

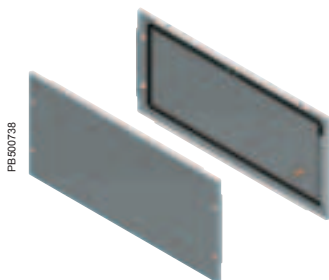


Nominal dimensions (mm)			Reference
Height (A)	Width (B)	Depth (C)	
300	300	500	NSYTBC335
		600	NSYTBC336
		800	NSYTBC338
	400	500	NSYTBC345
		600	NSYTBC346
		800	NSYTBC348
	600	500	NSYTBC365
		600	NSYTBC366
		800	NSYTBC368
		800	NSYTBC385
	800	600	NSYTBC386
		800	NSYTBC388
800		NSYTBC388	
1000	500	NSYTBC3105	
	600	NSYTBC3106	
	800	NSYTBC3108	
1200	500	NSYTBC3125	
	600	NSYTBC3126	
	800	NSYTBC3128	



Power distribution


Power distribution accessories



PE600738

Side panels for the busbar chamber

- Set of two side panels for coupling with the busbar chamber.
- Captive screws.
- Material: steel.
- Finish: painted with epoxy-polyester resin, textured RAL 7035 grey.

 Supply: two side panels and fixing elements.


Nominal dimensions (mm)		Reference
Height	Depth	
300	500	NSYSPBC35
	600	NSYSPBC36
	800	NSYSPBC38



PE600739

Side busbar chamber

- Protects and supports the sets of vertical bars.
- Enables new switchgear by tapping and isolates the sets of bars from the rest of the equipment.
- It can be installed on either of the two sides of the enclosure.
- Material: steel.
- Finish: painted with epoxy-polyester resin, textured RAL 7035 grey.

 Supply:
 – One structure of the busbar chamber.
 – One roof.
 – One rear panel.
 – One door with handle (5-mm DB lock).

Nominal dimensions (mm)			Reference
Height	Width	Depth	
1800	400	400	NSYSF18440
		500	NSYSF18450
		600	NSYSF18460
2000	300	500	NSYSF20350
		600	NSYSF20360
		800	NSYSF20380
	400	400	NSYSF20440
		500	NSYSF20450
		600	NSYSF20460
2200	400	800	NSYSF20480
		600	NSYSF22460

Power distribution

Busbars and blocks



PE600114

Side panels for the side busbar chamber

- Set of 2 side panels fixed to the outside.
- Captive screws.
- Material: steel.
- Finish: painted with epoxy-polyester resin, textured RAL 7035 grey.



Supply: two side panels with external fixing and fixing elements.

Nominal dimensions (mm)		Reference
Height	Depth	
1800	400	NSY2SP184
	500	NSY2SP185
	600	NSY2SP186
2000	400	NSY2SP204
	500	NSY2SP205
	600	NSY2SP206
	800	NSY2SP208
2200	600	NSY2SP226

The ideal junction enclosure for your application

Introduction

Terminal enclosure with a depth of 150 mm, from H 250 x W 300 to H 600 x W 400 mm with plain door, for equipping with terminals. The body does not have any cable-gland openings.
11 references.
Selection guide, page 24.

Technical characteristics

- Protection degree: IP 66.
- Resistance to external mechanical impacts: IK 10.
- Structured finish, epoxy-polyester powder, RAL 7035 grey colour.

Body

Single-piece body, folded and welded. Front rail with double sheet thickness, gutter-shaped.

- Depth 150 mm.
- The terminal enclosure can be installed vertically (the width becomes the height).
- Wall mounting directly or by means of fixing lugs (to be ordered separately).
- 4 M8 x 25 shouldered backstuds.
- Body without cable-gland openings.

Door

- Easily removable and reversible door, with 20-mm return with double sheet thickness granting excellent rigidity; equipped with 2 hinges opening to 180°.
- Door opening to more than 180° for maximum accessibility (the door comes to rest on the body of the enclosure in top position).
- Maximum acceptable load on the door: 20 kg/m².
- Wall-mounting enclosure supplied with 3-mm double-bar lock as standard.
- Polyurethane gasket.
- M6 x 16 earthing screw for equipotential connection between the door and the body of the enclosure.

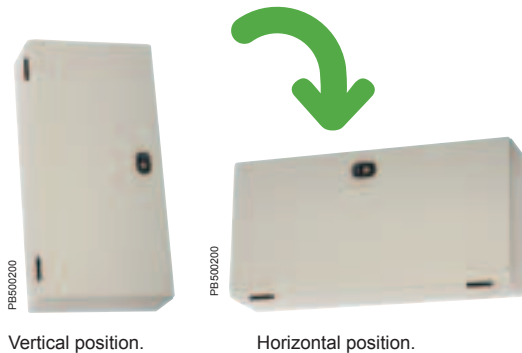
Dedicated accessories

The terminal enclosure, with a depth of 150 mm, can be equipped:

- With 2 rails to be installed on the 4 M8 x 25 shouldered backstuds.
- With a symmetrical rail to be installed on the rails.
- With a 6-mm² earth braid to be placed between the body and the door.
- See page 79.

It can also be equipped with a plain mounting plate, see page 338.

This range is completed by the Spacial offer with screw-on cover, see page 53.

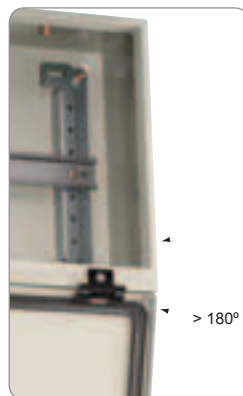


Vertical position.

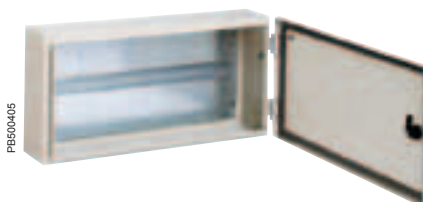
Horizontal position.



Welding studs on door and body (earth cables to be ordered separately).



Example of installation with the ladder mounting plate.



Specific

On demand, it is possible to install the same enclosure dimension with a door with standard opening (not drop-leaf). Please consult our specific service.



See also the accessories

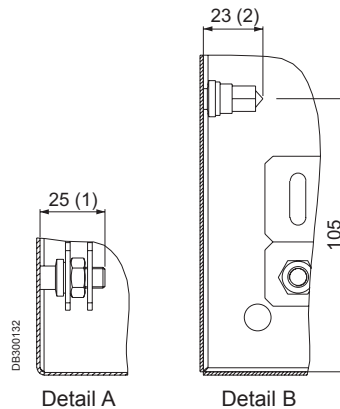
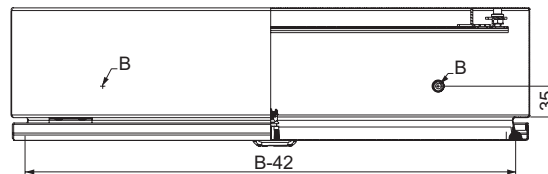
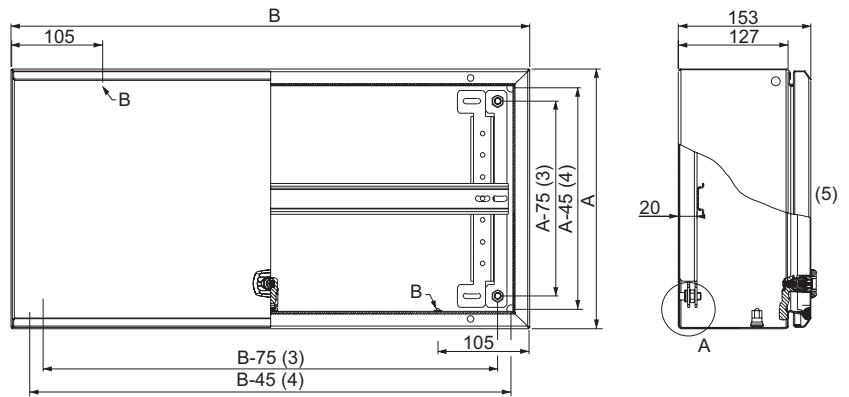
Fixing lugs for the earthing strip
page 494

Cable-gland entries without connectors
page 439

Viewing window
page 487

A: Enclosure height
 B: Enclosure width
 C: Enclosure depth

- (1) With ladder mounting plate installed.
- (2) M6 x 17.5 mm earthing stud.
- (3) Stud centre-to-centre distance.
- (4) Centre-to-centre distance of the holes for direct fixing.
- (5) Drop-leaf door.



The provided dimensions are with the ladder mounting plate, which is the most commonly used accessory with this enclosure.



See also the accessories

Equipment mounting plate
 page 338

Accessories for mounting plate
 page 344

Cable-management accessories
 page 460

The ideal coupling enclosure with FL21 cut-out

Introduction



Coupling enclosure, depth 170 mm, with plain door, for equipping with terminals. Equipped with a plain door without drop-leaf opening. Delivered without cable-gland plate.

Selection guide, page 24.

Technical characteristics

- Protection degree: IP 65 (with membrane mounted).
- Resistance to external mechanical impacts: IK 10.
- Structured finish, epoxy-polyester powder, RAL 7035 grey colour.

Body

Single-piece body, folded and welded. Front rail with double sheet thickness, gutter-shaped.

- Wall mounting directly or by means of fixing lugs (to be ordered separately).
- 4 M8 x 25 shouldered backstuds.
- Body with FL21-type cable-gland opening on the bottom of the enclosure (blanking plate ref. **NSYAECPLBP** to be ordered separately).
- FL21 membranes, page 438.

Door

- Easily removable and reversible door, with 20-mm return with double sheet thickness granting excellent rigidity; equipped with 2 hinges opening to 120°.
- Door opening to more than 120° for maximum accessibility (the door comes to rest on the body of the enclosure in top position).
- Maximum acceptable load on the door: 50 kg/m².
- Wall-mounting enclosure supplied with 3-mm double-bar lock as standard.
- Polyurethane gasket.
- M6 x 16 earthing screw for equipotential connection between the door and the body of the enclosure.

Dedicated accessories

The terminal enclosure, with a depth of 170 mm, can be equipped:

- With 2 rails to be installed on the 4 M8 x 25 shouldered backstuds.
- With a symmetrical rail to be installed on the rails.
- With a 6-mm² earth connection to be placed between the body and the door.
- See page 79.

It can also be equipped with a plain mounting plate, see page 338.



This range is completed by the Spacial S3DB and Spacial S57 offer.

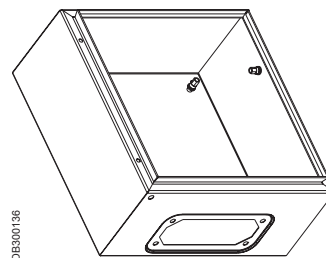
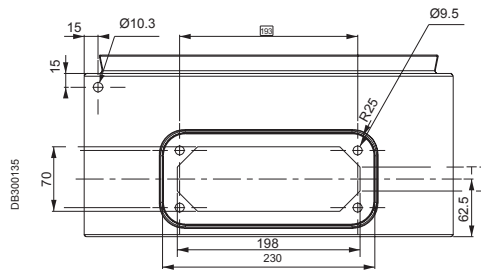
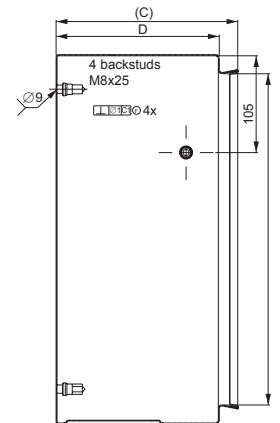
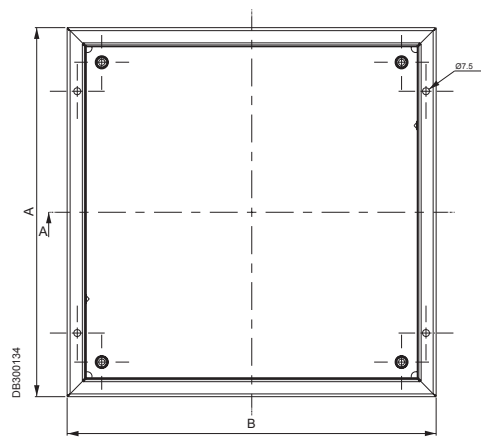
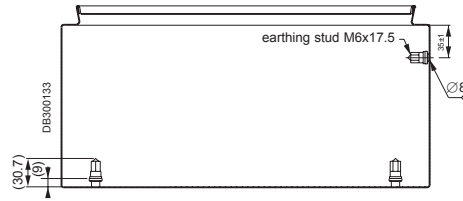


See also the accessories

Fixing lugs for the earthing strip
page 494

Cable-gland entries without connectors
page 439

Viewing window
page 487



FL21-type membranes
page 438

See also
the accessories

Seismic



PB501885

Seismic Contents

Main characteristics	620
-----------------------------	------------

Standard Spacial SF	621
----------------------------	------------

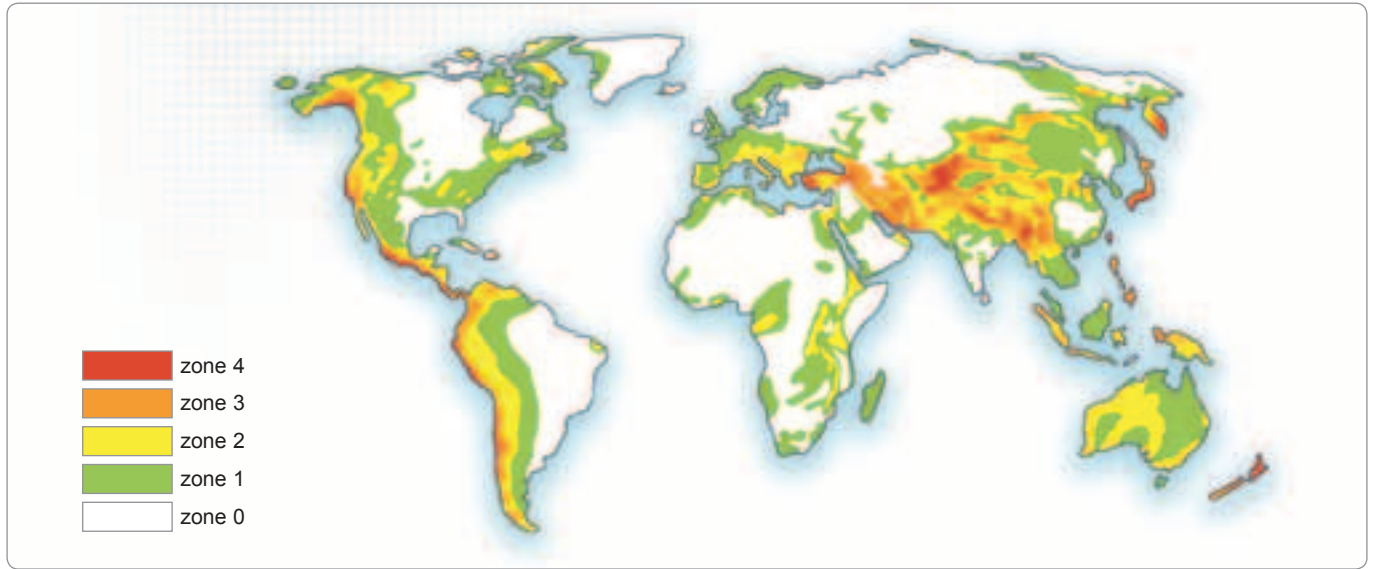
Spacial SF 5G	623
----------------------	------------

Seismic application

Main characteristics

General overview

Around the world can be found different zones with a specific seismic risk. These zones have been classified according to the **Uniform Building Code (UBC)**.



Spacial SF seismic solutions

Schneider Electric offers a range of LV earthquake resistant floor-standing switchboards. The Spacial range is among these, with an answer to each type of project for different seismic risk zones.

From weak to strong earthquakes:

- Automation & Control switchboards.
The standard Spacial SF with dimensions 2000 H x 800 W x 600 D has been tested to guarantee the right performance on seismic risk up to UBC zone 3.
- Industrial 19" Electronic applications.
Standard Spacial SF with dimensions 2000 H x 600 W x 800 D and with a 19" fixed rack configuration suitable for seismic risk up to UBC zone 3.
- LV power distribution up to 3200A.
Standard Spacial SFP is tested to perform up to UBC zone 3.

For very strong earthquakes:

- Automation & Control and 19" rack applications.
Spacial SF 5G performs up to UBC zone 4 thanks to its reinforced structure, special panel fixation and locking system.
- LV power distribution up to 3200 A.
Spacial SFP 5G performs up to UBC zone 4, also thanks to its reinforce structure, special panel fixation and locking system.

All tests have been performed according to the following technical regulations:

- EDF CRT 91 C 112 00, Nuclear. EDF (French Electricity Board) technical specification.
- IEC 61587-2, 60917 & 60297-2.

Weak to Strong

Very Strong

Spacial SF (2000 x 800 x 600)	Spacial SF 19" (2000 x 800 x 600)	Spacial SFP	Spacial SF 5G	Spacial SFP 5G	IEC 60068-3-3 Ground acceleration reference	Seismic characteristics				
						General description	g m/s	Richter scale magnitude	UBC Zone	MSK Intensity**
OK	OK	OK	OK	OK	AG2	Intensity from weak to average	2	> 5.5	0 1	> VIII
			OK	OK	AG3	Intensity from average to strong	3	5.5 to 7.0	2-3	VIII to IX
					AG5	Intensity from strong to very strong	5	> 7.0	4	> IX

* Approximate value of the Uniform Building Code Zone.

** MSK (Medvedev-Sponheuer-Kamik corresponding to the intensity scale Mercalli modified).

Standard Spacial SF

Two configuration of the standard Spacial SF have been tested:

- Automation & Control configuration.
150 kg dummy load installed on mounting plate and homogeneously distributed, according to IEC 61587-2.
- 19" fixed rack configuration.
150 kg dummy load installed on a 19" fixed rack, homogeneously distributed, according to IEC 61587-2.

	Nominal dimensions			Additional dummy load tested (kg)	Plain door		Side panels	Plinth 100 (mm)		Mounting plate	19" Rack
	Height	Width	Depth		With mounting plate	Without mounting plate		Front panel	Side panel		
A&C Configuration	2000	800	600	150	NSYSF20860P	NSYSF20860	NSY2SP206	NSYSPPF8100	NSYSPS6100	NSYMP208	-
19" Configuration	2000	600	800	150	-	NSYSF20680	NSY2SP208	NSYSPPF6100	NSYSPS8100	-	NSYRCK42

Compliance with local standards

Standard	Level and specifications of the standard
Standard EDF CRT91C11200	60% of the ensemble response spectrum: 3 g peak and 0.6 g ZPA*
AS1170 Australia	Soil Type: Ee / Floor zero
EAK 2000 Greece	Soil Type: D (delta) Seismic importance factor: $\gamma_i = 0.85$ Ground acceleration factor: $\alpha = 0.12$ Foundation factor: $q = 1$ Quality factor = 1.35 Spectral amplification factor: $\beta_0 = 2.5$
ENDESA 1986	Seismic Category A 5% damping Ground acceleration = 0.5 g
RPA 99 2003 Algeria	Soil type: S4 5% damping Ground acceleration factor A = 0.15 Behaviour factor = 2 Quality factor z = 1.35
Gore GR 63	5% damping Zone 3
Turkish Seismic Code 2009	Site Class: Z4 5% damping Importance factor = 1.5 Ground acceleration factor: $A_0 = 0.4$
GOST 17516.1-90 Russia	Civil market standard MSK (Mercalli) intensity 9, level 2: envelope spectra CRT91C11200

* ZPA - Zero Period Acceleration.

Seismic application

Standard Spacial SFP

Standard Spacial SFP

Two configuration of standard Spacial SFP have been tested. Functional systems have been installed on the switchboard and checked at the end of the test to verify that there was no damage. The 2 tested configurations are:

- 1600 A configuration.
- 3200 A configuration.

		Nominal dimensions			Additional dummy load (kg)	Plain door	Side panels
		Height	Width	Depth			
1600 A configuration	Spacial SFP	2000	700	500	350	NSYSFP20750	NSY2SP205
	Busbar duct	2000	300	500	350	NSYSF20350	NSY2SP205
3200 A configuration	Spacial SFP	2000	700	800	450	NSYSF20780	NSY2SP208
	Busbar duct	2000	300	800	450	NSYSF20380	NSY2SP208

Compliance with local standards

Standard	Level and specifications of the standard
Standard EDF CRT91C11200	71% of the ensemble response spectrum: 3.5 g peak and 0.71 g ZPA*
AS1170 Australia	Soil Type: Ee / Floor zero
EAK 2000 Greece	Soil Type: D (delta) Seismic importance factor: $\gamma_i = 0.85$ Ground acceleration factor: $\alpha = 0.12$ Foundation factor: $q = 1$ Quality factor = 1.35 Spectral amplification factor: $\beta_0 = 2.5$
ENDESA 1986	Seismic Category A 5% damping Ground acceleration = 0.5 g
RPA 99 2003 Algeria	Soil type: S4 5% damping Ground acceleration factor A = 0.15 Behaviour factor = 2 Quality factor Q = 1.35
Gore GR 63	5% damping Zone 3
Turkish Seismic Code 2009	Site Class: Z4 5% damping Importance factor = 1.5 Ground acceleration factor: $A_0 = 0.4$
GOST 17516.1-90 Russia	Civil market standard MSK (Mercalli) intensity 9, level 2: envelope spectra CRT91C11200

* ZPA - Zero Period Acceleration.

Spacial SF 5G & Spacial SFP 5G

Spacial SF 5G and Spacial SFP 5G have been designed to withstand earthquakes up to UBC zone 4. The two tested configurations, automation & control and LV power distribution, enable it to be certified for nuclear applications.

This new design is based on the following principles:

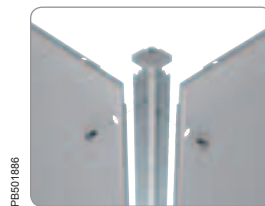
Reinforced cross



PB501885

- Two reinforced crosses guarantee the mechanical withstand of the structure.

Panel fixations



PB501886

- Fixation systems that avoid loosening of screws.

Security locking system



PB501887



PB501888

- EDF-certified seismic locking system.
- Specific bars and handle to avoid accidental door opening under severe vibration conditions.

Reinforced plinths



PB501889

- New monoblock reinforced plinths.

Seismic application

Spacial SF 5G

Spacial SF 5G

Same characteristics as the Spacial SF but with the upgrades already mentioned.

	Nominal dimensions			Additional dummy load tested (kg)	Plain door		Side panels	Plinth 100 (mm)	Mounting plate*	19" Rack*
	Height	Width	Depth		With mounting plate	With out mounting plate				
A&C Configuration	2000	800	600	150	-	NSYSF5G20860	NSYS5G2SP206	NSYS5GPC86	NSYMP208	-
19" Configuration	2000	600	800	150	-	NSYSF5G20680	NSYS5G2SP208	NSYS5GPC68	-	NSYRCK42

* See reinforcement kits for Spacial 5G.

Spacial SFP 5G

Same characteristics as the Spacial SFP but with the upgrades already mentioned.

		Nominal dimensions			Additional dummy load (kg)	Plain door	Side panels	Plinth 100 (mm)
		Height	Width	Depth				
1600 A configuration	Spacial SFP	2000	700	500	350	NSYSFP5G20750	NSY5G2SP205	NSYS5GPC75
	Busbar duct	2000	300	500	350	NSYSF5G20350	NSY5G2SP205	NSYS5GPC35
3200 A configuration	Spacial SFP	2000	700	800	450	NSYSF5G20780	NSY5G2SP208	NSYS5GPC78
	Busbar duct	2000	300	800	450	NSYSF5G20380	NSY5G2SP208	NSYS5GPC38

Important: Spacial SFP 5G 300 mm width for busbar duct purpose is not compatible with Spacial SF 5G.

Compliance with local standards

Standard	Level and specifications of the standard
Standard EDF CRT91C11200	General response spectrum: - ZPA = 1 g in horizontal & maximum aceleration = 5 g. - ZPA = 0.8 g in vertical & maximum aceleration = 4 g.
AS1170 Australie	All type of soil class / Floor zero
EAK 2000 Greece	All type of soil class (delta) Seismic importance factor: $\gamma_i = 1.3$ Ground acceleration factor: $\alpha = 0.36$ Foundation factor: $q = 1$ Quality factor = 1.35 Spectral amplification factor: $\beta_0 = 2.5$
ENDESA 1986	All seismic category Ground acceleration = 0.5 g
RPA 99 2003 Algeria	All type of soil class Ground acceleration factor A = 0.36 Behaviour factor R = 2 Quality factor Q = 1.35
Gore GR 63	Zone 4 with a factor 0.8 for the vertical severity relating to the horizontal severity
Turkish Seismic Code 2009	All type of site class Importance factor = 1.5 Ground acceleration factor: A0 = 0.4
GOST 17516.1-90 Russia	Civil market: MSK (Mercalli) intensity 9, level 2 Nuclear market: - MSK (Mercalli) intensity 9, level 0. - MSK (Mercalli) intensity 8, level 2.
IEEE 693	High Level

Reinforcement kits for Spacial SF 5G

In case the following mounting components are used inside the SF 5G:

- Plain mounting plates
- 19" fixed rack

then it is mandatory to mount the corresponding reinforcement kits, in order to guarantee safety and maximum performance of the enclosure and of the equipment installed inside.

Plain mounting plate reinforcement kit

Kit for reinforcement of fixation between the plain mounting plate and structure.

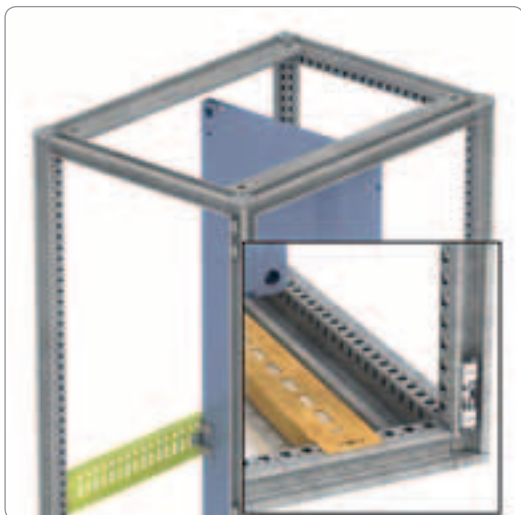
Depth	Reference
600	NSY5GSPK6
800	NSY5GSPK8



Supply:

- 2 90 mm universal cross rails.
- 2 brackets for central fixation.
- 2 heavy cross rails & fixing elements.

PI5002031



PI5002030



19" fixed rack reinforcement kit

Kit for reinforcement of fixation between 19" fixed rack and structure. The purpose of this kit is to reinforce the 19" fixed rack.

Depth	Reference
600	NSY5GRCK42



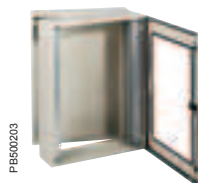
Supply:

- 2 90 mm universal cross rails.
- 4 brackets for upright support.
- 1 set of standard 42 units 19" fixed rack.
- Fixing elements.

Electronic Applications

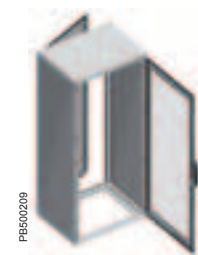


PB600003



Spacial VDM

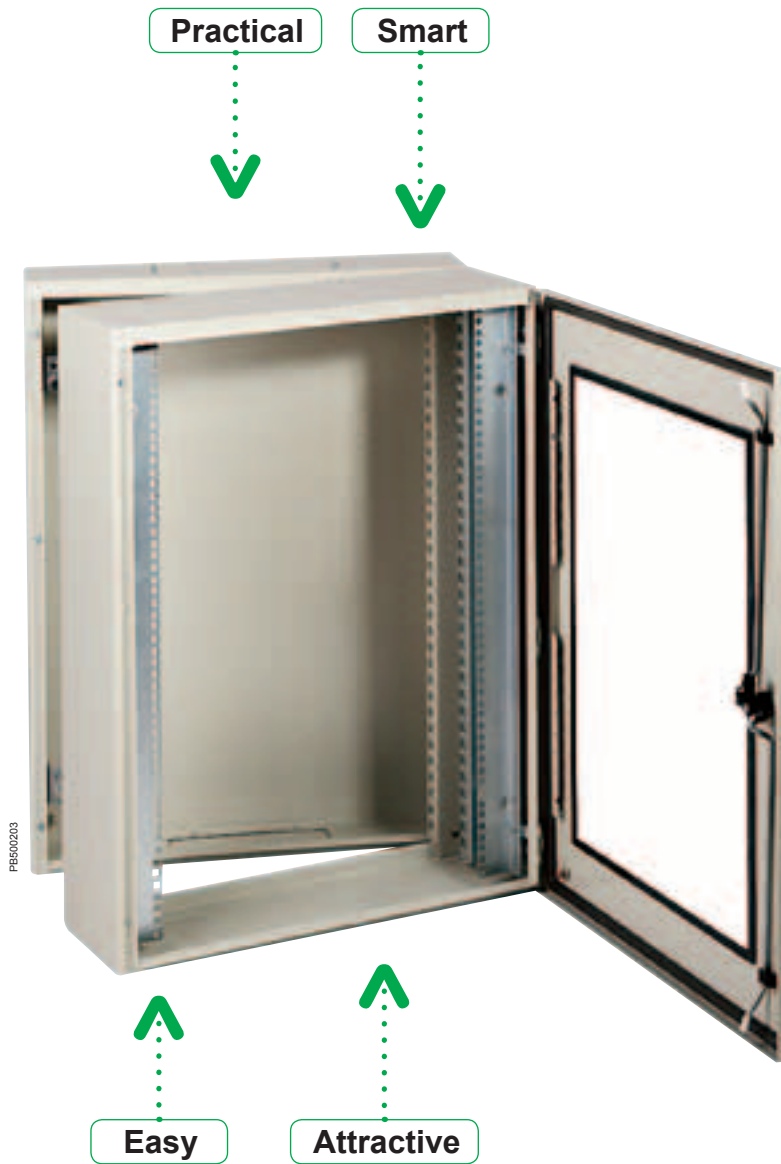
628



Spacial SF

638

The IP 66 19" steel enclosure is ideal for your application!

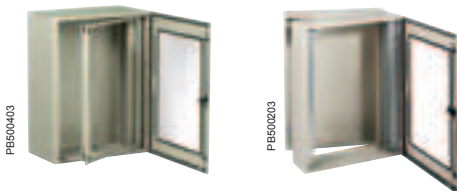


Smart:

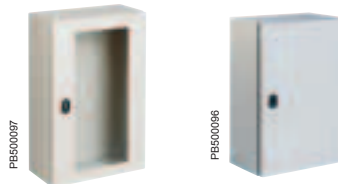
Easily dismantlable, captive hinges.

Easy:

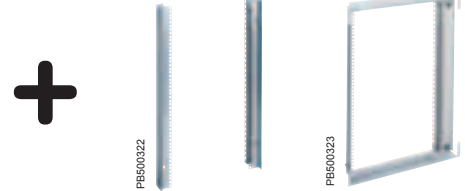
Effortless door closing with flexible polyurethane gasket.



Enclosures equipped



Enclosures to be equipped



Choice:

1-body enclosure with swing rack: 5 references from 4 U to 16 U.
 1-body enclosure with fixed rack: 5 references from 5 U to 17 U.
 2-body enclosure: 10 references, 400 or 500 mm deep, from 5 U to 17 U.
 All form inserts, many key locks.

Simplified control:

Pre-installed fixed or swing rack; earth connection placed between the door and the body; the enclosure is ready to use; the cardboard packaging can be reused after cabling.

Practical:

Cable-gland plates at top and bottom:
 - on the rear part (2-body enclosure),
 - on the body (1-body enclosure).

Smart:

Locking handle delivered with the provisional (partial engagement) or final (full engagement) enclosure.
 Can also be used to loosen the caps protecting the studs when painting.

Attractive:

Chamfered door, plasma welding, polyester paint, tinted Securit® glass, ergonomic bi-material handle (optional).

And also...

Practical:

Large range of accessories, reusable packaging.

Light and resistant:

Sheet-steel enclosure, cross-shaped structure, before folding.

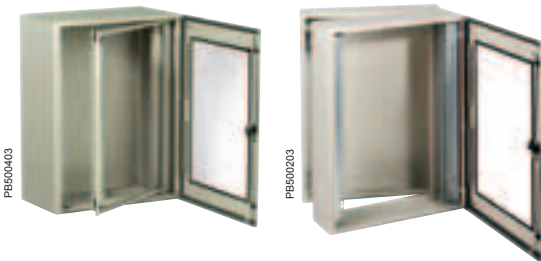
Certification:

According to standard IEC 62208.



19" enclosure, IP 66

Introduction and selection guides



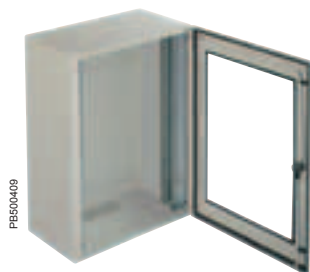
Spacial VDM 19" enclosure steel

The offer of VDM 19" steel enclosures, for electronics and networks, consists of 2 ranges:

- 1-body enclosure, 400 mm deep, with fixed or swing rack.
- 2-body enclosure, 380 and 480 mm deep.

Technical characteristics

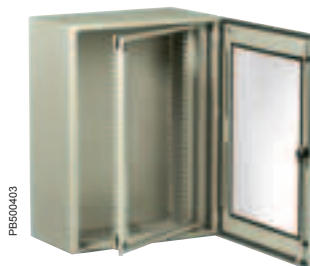
- Structured finish, polyester powder, RAL 7035 grey colour. Other colours, please consult us.
- Protection degree: IP 66.
- Resistance to external mechanical impacts: IK 08.
- Single-piece body, folded and welded. Front rail with double sheet thickness, gutter-shaped.
- Perforated rails on the door, with drill holes of Ø 4.2 mm in steps of 25 mm.
- Transparent door, Securit® glass, easily removable and reversible, with 20-mm return with double thickness granting excellent rigidity, opening to 120°, equipped with 2 or 3 invisible hinges. Three closure points for heights of more than 600 mm.
- Wall-mounting enclosure supplied with 3-mm double-bar lock as standard.
- Polyurethane gasket.
- 6 mm² earth connection placed between the door and the body of the enclosure.
- Wall mounting by means of fixing lugs (to be ordered separately).
- Special installation: please consult us.



1-body enclosure with fixed rack

1-body enclosure, 400 mm deep, with fixed rack

Number of U	Ext. dimensions (mm)			Reference
	Height	Width	Depth	
5	300	600	400	NSYVDM5U4F
8	400	600	400	NSYVDM8U4F
10	500	600	400	NSYVDM10U4F
14	700	600	400	NSYVDM14U4F
17	800	600	400	NSYVDM17U4F



1-body enclosure with swing rack

1-body enclosure, 400 mm deep, with swing rack

Number of U	Ext. dimensions (mm)			Reference
	Height	Width	Depth	
4	300	600	400	NSYVDM4U4P
7	400	600	400	NSYVDM7U4P
9	500	600	400	NSYVDM9U4P
13	700	600	400	NSYVDM13U4P
16	800	600	400	NSYVDM16U4P

- These enclosures are available equipped with a 19" swing rack or a 19" fixed rack.
- Enclosure in 2 pieces: body + door.
- Heights: 4, 7, 9, 13 and 16 U with a swing rack and 5, 8, 10, 14 and 17 U with a fixed rack.
- Cable-gland plate at the bottom of the enclosure
- Fixed rack depth-adjustable in steps of 25 mm using the step slides.
- Maximum load: 3 kg per unit.



Spacial VDM 2-body 19" enclosure steel

Rear

- Depth: 150 mm.
- Internal attachment point for fixing various supports.
- Hinges and locking system with the body.
- Cable-gland plate at the top and bottom.

Body

- Usable depth of 183 or 283 mm.
- Two 19" uprights made from treated steel, installed 65 mm back from the front panel.
- Height: 5, 8, 10, 14 and 17 U.
- Intermediate body installed on the rear with 120° hinge.
- Maximum load: 2 kg per unit.

2-body enclosure, 380 mm deep, with fixed rack

Number of U	Ext. dimensions (mm)			Reference
	Height	Width	Depth	
5	300	600	380	NSYVD2M5U4
8	400	600	380	NSYVD2M8U4
10	500	600	380	NSYVD2M10U4
14	700	600	380	NSYVD2M14U4
17	800	600	380	NSYVD2M17U4

2-body enclosure, 480 mm deep, with fixed rack

Number of U	Ext. dimensions (mm)			Reference
	Height	Width	Depth	
5	300	600	480	NSYVD2M5U5
8	400	600	480	NSYVD2M8U5
10	500	600	480	NSYVD2M10U5
14	700	600	480	NSYVD2M14U5
17	800	600	480	NSYVD2M17U5



See also
the accessories

Accessories for
mounting plates
page **344**

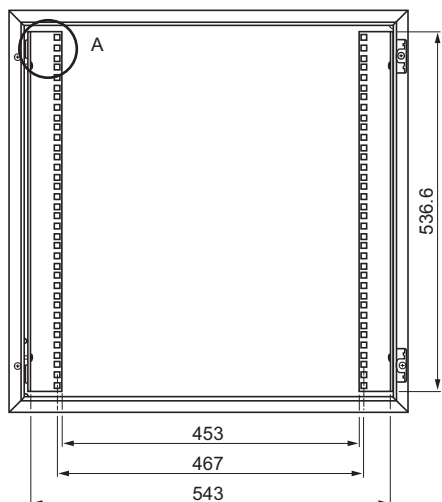
Cable-gland entries
without connectors
page **439**

Cable-management
accessories
page **460**

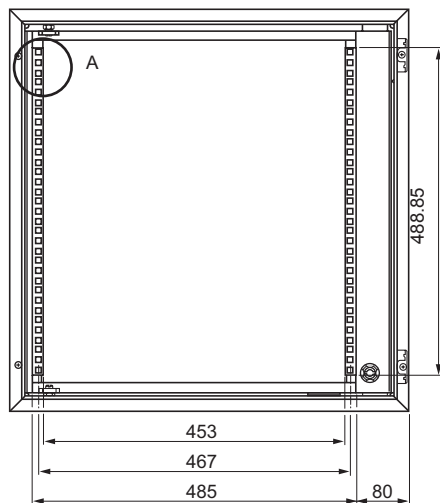
19" enclosure, IP 66

Dimensions

Fixed chassis

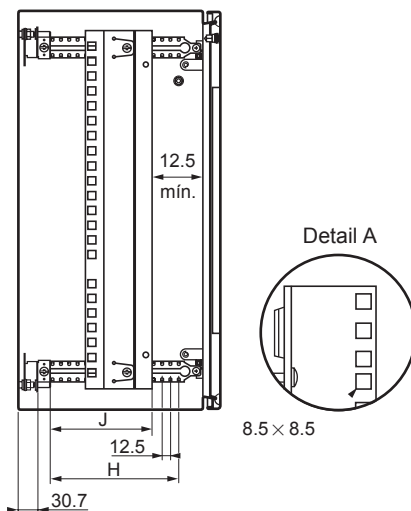


Swing chassis

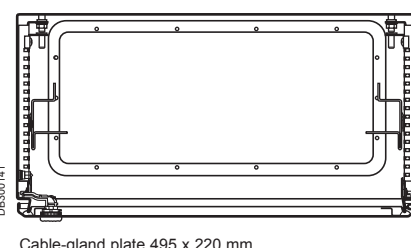
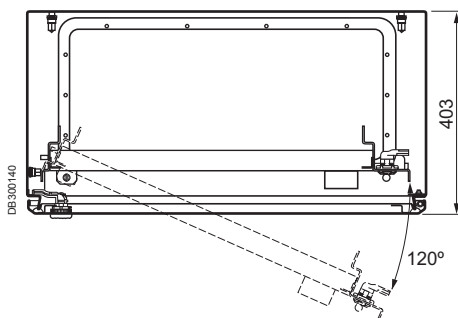
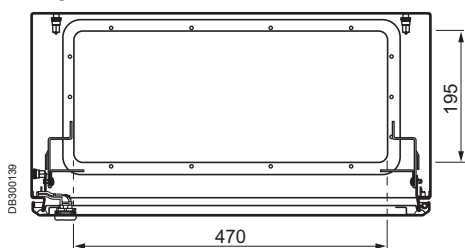


Fixed chassis mounted on the step slides

Lateral view



Top view



Cable-gland plate 495 x 220 mm.

H (bars) (mm)	J (travel) (mm)
200	100
250	150
300	200
400	300

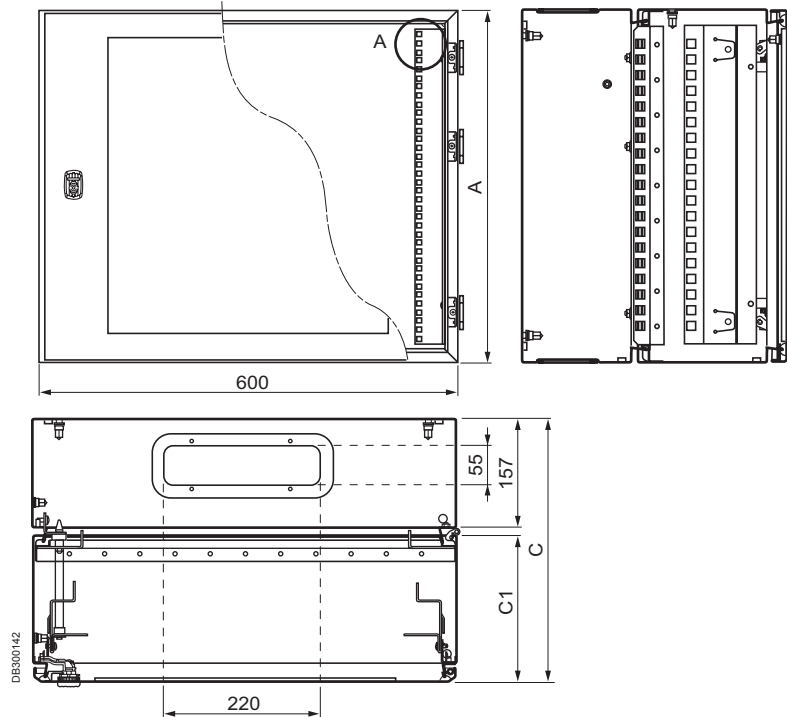
Enclosures dimension			Fixed chassis	Swing chassis	Unit number	D	E	F	G
Height (A)	Width (B)	Depth (C)							
400	600	250/300	NSYVDM8UF		8	-	359	188/238	61
600	600	250/300	NSYVDM12UF		12	-	537	188/238	61
800	600	250/300/400	NSYVDM17UF		17	-	759	188/238/338	61
1000	600	250/300	NSYVDM21UF		21	-	937	188/238	61
400	600	250/300		NSYVDM7UP	7	342	311	188/238	59
600	600	250/300		NSYVDM11UP	11	542	489	188/238	59
800	600	250/300/400		NSYVDM16UP	16	742	711	188/238/338	59
1000	600	250/300		NSYVDM20UP	20	942	889	188/238	59
1000	800	250/300/400		NSYVDM20U8P	20	942	889	188/238/338	59
1200	800	300/400		NSYVDM20U8P	25	1142	1111	238/338	59

Cable-gland plate S3D type dimensions 495 x 220 mm.

19" enclosure, IP 66

Dimensions

2-body 19" enclosure



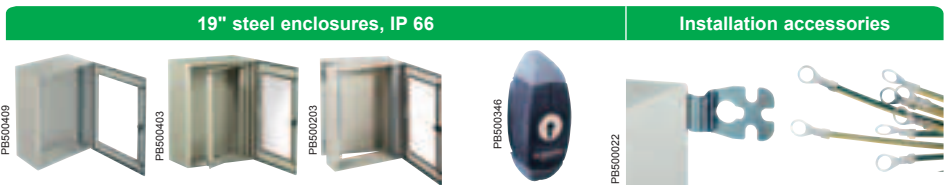
A (mm)	C (mm)	C1 (mm)	Reference
300	373	183	NSYVD2M5U4
400	373	183	NSYVD2M5U5
500	373	183	NSYVD2M8U4
700	373	183	NSYVD2M8U5
800	373	183	NSYVD2M10U4
300	473	283	NSYVD2M10U5
400	473	283	NSYVD2M14U4
500	473	283	NSYVD2M14U5
700	473	283	NSYVD2M17U4
800	473	283	NSYVD2M17U5

Cable-gland plate S3D type dimensions 245 x 80 mm.

19" enclosure, IP 66

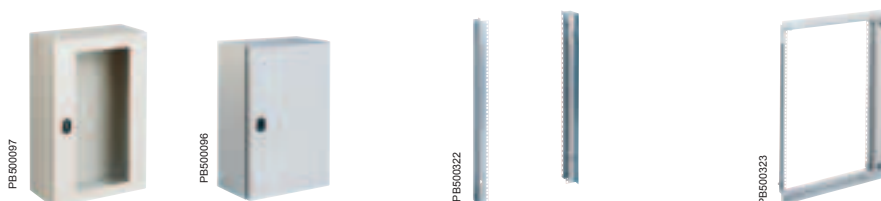
Selection guide

Steel VDM enclosure and accessories



Number of U	External dimensions (mm)			1 body		2 bodies	Handle with key n° 405	Wall-fixing lugs	Earthing kit
	Height	Width	Depth	Fixed rack	Swing rack	Fixed rack			
4	300	600	400	-	NSYVDM4U4P	-	NSYAEDL405S3D	NSYAEFPFSC	NSYEL166D8
5	300	600	400	NSYVDM5U4F	-	NSYVD2M5U4	NSYAEDL405S3D	NSYAEFPFSC	NSYEL166D8
5	300	600	500	-	-	NSYVD2M5U5	NSYAEDL405S3D	NSYAEFPFSC	NSYEL166D8
7	400	600	400	-	NSYVDM7U4P	-	NSYAEDL405S3D	NSYAEFPFSC	NSYEL166D8
8	400	600	400	NSYVDM8U4F	-	NSYVD2M8U4	NSYAEDL405S3D	NSYAEFPFSC	NSYEL166D8
8	400	600	500	-	-	NSYVD2M8U5	NSYAEDL405S3D	NSYAEFPFSC	NSYEL166D8
9	500	600	400	-	NSYVDM9U4P	-	NSYAEDL405S3D	NSYAEFPFSC	NSYEL166D8
10	500	600	400	NSYVDM10U4F	-	NSYVD2M10U4	NSYAEDL405S3D	NSYAEFPFSC	NSYEL166D8
10	500	600	500	-	-	NSYVD2M10U5	NSYAEDL405S3D	NSYAEFPFSC	NSYEL166D8
13	700	600	400	-	NSYVDM13U4P	-	NSYAEDL405S3D	NSYAEFPFSC	NSYEL166D8
14	700	600	400	NSYVDM14U4F	-	NSYVD2M14U4	NSYAEDL405S3D	NSYAEFPFSC	NSYEL166D8
14	700	600	500	-	-	NSYVD2M14U5	NSYAEDL405S3D	NSYAEFPFSC	NSYEL166D8
16	800	600	400	-	NSYVDM16U4P	-	NSYAEDL405S3D	NSYAEFPFSC	NSYEL166D8
17	800	600	400	NSYVDM17U4F	-	NSYVD2M17U4	NSYAEDL405S3D	NSYAEFPFSC	NSYEL166D8
17	800	600	500	-	-	NSYVD2M17U5	NSYAEDL405S3D	NSYAEFPFSC	NSYEL166D8

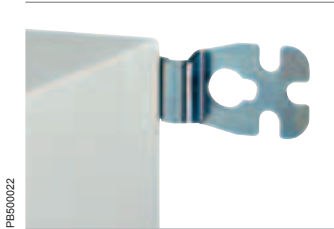
Selection guide for S3D universal enclosures to be equipped with 19" fixed or swing rack



Enclosure dimensions (mm)			Reference of the empty enclosure		Fixed rack (1)		Swing rack (1)	
Height	Width	Depth	Glazed door	Plain door	Reference	Number of U	Reference	Number of U
400	600	250	NSYS3D4625T	NSYS3D4625	NSYVDM8UF	8	NSYVDM7UP	7
600	600	250	NSYS3D6625T	NSYS3D6625	NSYVDM12UF	12	NSYVDM11UP	11
600	600	300	NSYS3D6630T	NSYS3D6630	NSYVDM12UF	12	NSYVDM11UP	11
600	600	400	NSYS3D6640T	NSYS3D6640	NSYVDM12UF	12	NSYVDM11UP	11
800	600	250	NSYS3D8625T	NSYS3D8625	NSYVDM17UF	17	NSYVDM16UP	16
800	600	300	NSYS3D8630T	NSYS3D8630	NSYVDM17UF	17	NSYVDM16UP	16
800	600	400	NSYS3D8640T	NSYS3D8640	NSYVDM17UF	17	NSYVDM16UP	16
1000	600	250	NSYS3D10625T	NSYS3D10625	NSYVDM21UF	21	NSYVDM20UP	20
1000	600	400	NSYS3D10640T	NSYS3D10640	NSYVDM21UF	21	NSYVDM20UP	20
1000	800	250	NSYS3D10825T	NSYS3D10825	-	-	NSYVDM20U8P	20
1000	800	300	NSYS3D10830T	NSYS3D10830	-	-	NSYVDM20U8P	20
1000	800	400	NSYS3D10840T	NSYS3D10840	-	-	NSYVDM20U8P	20
1200	800	300	NSYS3D12830T	NSYS3D12830	-	-	NSYVDM25U8P	25
1200	800	400	NSYS3D12840T	NSYS3D12840	-	-	NSYVDM25U8P	25

(1) The racks are to be ordered separately.

Main accessories for VDM and S3D 19" enclosure Composition accessories



PB500022

Fixing lugs

Page
80



PB500156

Post-fixing device

Page
83

Door accessories



PB500306

Inserts

Page
72



PB500346

Handle with keys

Page
90



PB500461

Other locking systems

Page
91

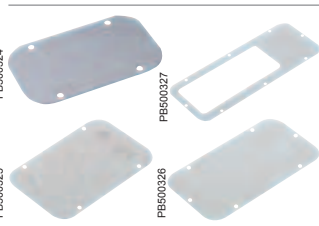


PB500353

Hinges

Page
93

Cable-entry accessories



PB500324

PB500327

PB500325

PB500326

Cable-gland plates
for Spacial S3D enclosure

Page
96



PB500099

ISO cable glands

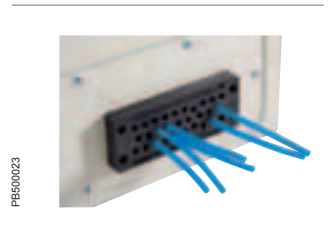
Page
450



PB500024

Multiple cable entry

Page
444



PB500023

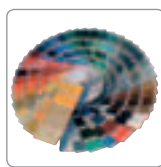
Multiple cable entry

Page
444

Customised service: All standard dimensions from our catalogue on request and more...



Configured



PB501688

Paints



PB500359

Holes & Cutouts



PB501680

Mounting



PB501692

Accessories

Composition accessories



PB501837

Plinth-fixing device

Page
86



PB500329

Canopy

Page
89

Door accessories



PB500223

Door retainer

Page
486



PB501638

Door switch

Page
482



PB500333

Door rails

Page
454



PB500407

Earthing systems

Page
492

Mounting accessories

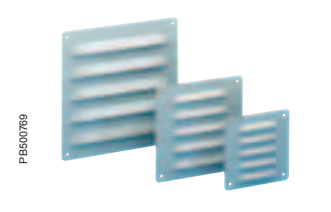


PB500323

19" fixed and swing racks

Page
634

Thermal accessories



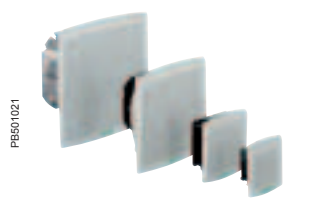
PB500789

Page
698



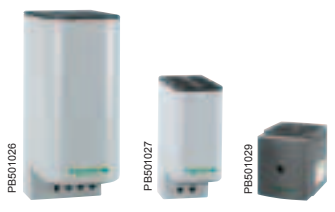
PB501639

Page
762



PB501021

Page
678

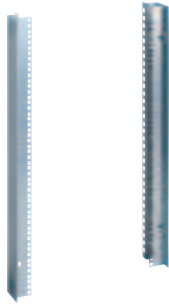


PB501026

PB501027

PB501029

Page
750



19" fixed chassis for wall mounting enclosure IP 66

- 19" fixed chassis comprising 2 19" uprights with fixing.
- Material: galvanized steel, thickness 20/10 mm.
- Maximum load: 3 kg per unit.
- Adjustable in depth by fixing on the step slides in accessories.

Enclosure (mm)		Unit number	Reference
Height	Width		
400	600	8	NSYVDM8UF
600	600	12	NSYVDM12UF
800	600	17	NSYVDM17UF
1000	600	21	NSYVDM21UF



19" swing chassis for wall mounting enclosure IP 66

- 19" swing chassis opening to 120° with closure by 3 mm double bar insert.
- Material: steel, textured epoxy-polyester powder paint colour grey RAL 7035.
- Maximum load: 3 kg per unit.

Enclosure (mm)		Unit number	Reference
Height	Width		
400	600	7	NSYVDM7UP
600	600	11	NSYVDM11UP
800	600	16	NSYVDM16UP
1000	600	20	NSYVDM20UP
1000	800	20	NSYVDM20U8P
1200	800	25	NSYVDM25U8P



PE500209

Suitable metal enclosure for electronic applications

Enclosure prepared for the installation of standard 19" racks in professional telecommunication, voice, data and electronic facilities, by means of 19" fixed and swing racks, see page 648.

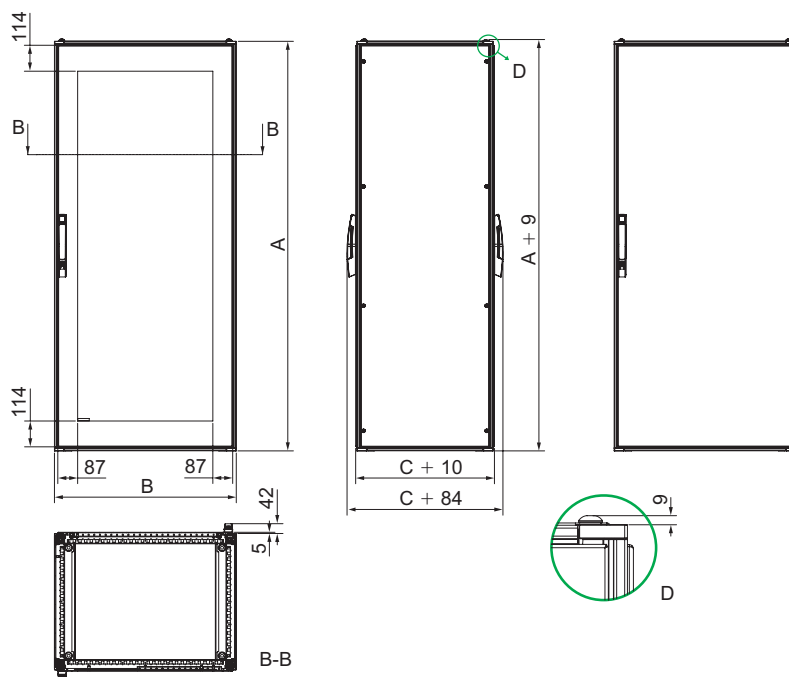
Composition

- Structure: top and bottom frame and vertical uprights.
- Transparent front door, made from sheet steel, painted with epoxy-polyester resin, textured RAL7035 grey, with Securit® glass.
- Plain rear door, made from sheet steel, painted with epoxy-polyester resin, textured RAL7035 grey:
- Standard locking system with handle and 5-mm double-bar insert.
- Removable roof.
- External fixing side panels, made from sheet steel, painted with epoxy-polyester resin, textured RAL 7035 grey, double folded to increase their rigidity with captive fixing screws that reduce installation time.
- In enclosures with widths of 600 and 800 mm, it is possible to install fixed or swing racks, to be ordered separately.

Certifications

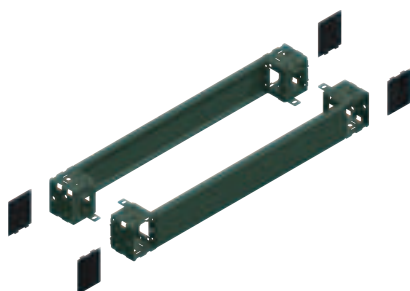
- BV, DNV, UL*, CUL.
*1, 12, 12K.

Spacial SF electronic application enclosure dimensions (mm)			Reference
Height (A)	Width (B)	Depth (C)	
1200	600	600	NSYSF12660E
		800	NSYSF12680E
	800	600	NSYSF12860E
		800	NSYSF12880E
2000	600	600	NSYSF20660E
		800	NSYSF20680E
	800	600	NSYSF20860E
		800	NSYSF20880E
		1000	NSYSF208100E
2200	600	600	NSYSF22660E
		800	NSYSF22680E
		1000	NSYSF226100E
	800	600	NSYSF22860E
		800	NSYSF22880E
		1000	NSYSF228100E

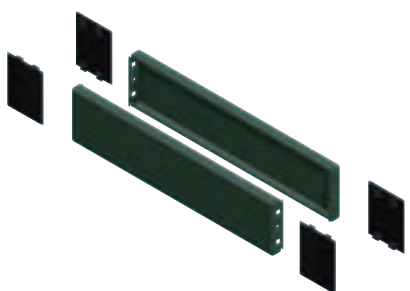


DB300243

PE500123



PE500124



Plinth

- See composition accessories: floor, page 143.
- Model heights: 100 and 200 mm.

Front plinth



Supply:

- **Height 100 mm:** four corners, two panels (front and rear), four corner covers and fixing elements.
- **Height 200 mm:** four corners, four panels (two front and two rear), four corner covers and fixing elements.

Plinth side panels

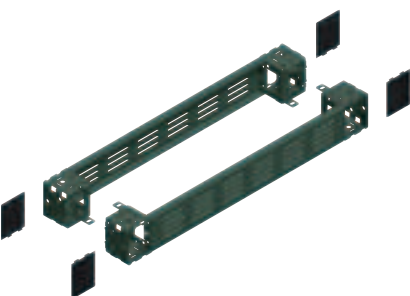


Supply:

- **Height 100 mm:** two side panels, four corner covers and fixing elements.
- **Height 200 mm:** four side panels (height of 100 mm, two for each side), four corner covers and fixing elements.

Spacial SF Dimensions (mm)		Front plinth reference (mm)		Side panel plinth reference (mm)	
Width	Depth	100	200	100	200
600	600	NSYSPPF6100	NSYSPPF6200	NSYSPPS6100	NSYSPPS6200
	800			NSYSPPS8100	NSYSPPS8200
	1000			NSYSPPS10100	NSYSPPF10200
800	600	NSYSPPF8100	NSYSPPF8200	NSYSPPS6100	NSYSPPS6200
	800			NSYSPPS8100	NSYSPPS8200
	1000			NSYSPPS10100	NSYSPPF10200

PE500563



Ventilated front plinth



Supply:

- **Height 100 mm:** four corners, two ventilated panels (front and rear), four corner covers and fixing elements.

Ventilated plinth side panels

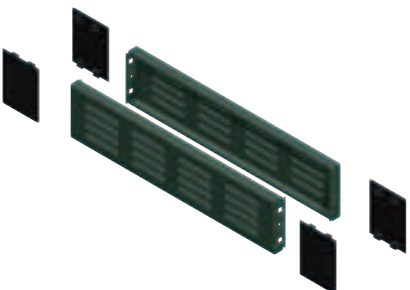


Supply:

- **Height 100 mm:** two ventilated side panels, four corner covers and fixing elements.

Spacial SF dimensions (mm)		Ventilated front plinth reference	Ventilated plinth side panel reference
Width	Depth	100 mm	
600	600	NSYSPPFV6100	NSYSPPV6100
	800		NSYSPPV8100
800	600	NSYSPPFV8100	NSYSPPV6100
	800		NSYSPPV8100


PE500564




Cable-gland plates

- See composition accessories: cable gland, page 156.
- Models: plain plates, with one entry and two entries.


Plain cable-gland plate

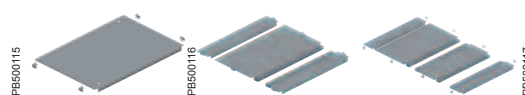
 Supply: One plain plate and fixing elements.

Cable-gland plate with 1 entry

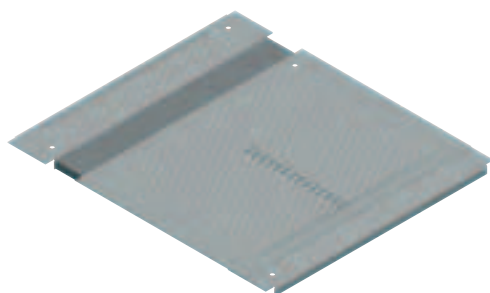
 Supply: one plate with one entry, self-extinguishing polyurethane adhesive gasket with cross-section of 15 x 25 mm, which guarantees good sealing, and fixing elements.

Cable-gland plate with 2 entries

 Supply: one plate with two entries, self-extinguishing polyurethane adhesive gasket with cross-section of 15 x 25 mm, which guarantees good sealing, and fixing elements.




Nominal dimensions (mm)		Reference		
Width	Depth	Plain	With 1 entry	With 2 entries
600	600	NSYEC66	NSYEC661	NSYEC662
	800	NSYEC68	NSYEC681	NSYEC682
	1000	NSYEC610	NSYEC6101	NSYEC6102
800	600	NSYEC86	NSYEC861	NSYEC862
	800	NSYEC88	NSYEC881	NSYEC882
	1000	NSYEC810	NSYEC8101	NSYEC8102



Ventilated cable-gland plates

- Plates for cable entry from the bottom of the enclosure.
- Material: galvanised steel.
- Thickness: 1.5 mm.
- Fixing by C-shaped clip, fixed with screws, providing electrical continuity through the clip.
- Each plate has a hole with an 8-mm diameter, covered with a plug, for cases in which earthing needs to be performed by an earthing cable or braid (elements not supplied).

 Supply: one ventilated plate with one entry, self-extinguishing polyurethane adhesive gasket with cross-section of 15 x 25 mm, and fixing elements.

Nominal dimensions (mm)		Reference
Width	Depth	
600	600	NSYECV661
	800	NSYECV681
	1000	NSYECV6101
800	600	NSYECV861
	800	NSYECV881
	1000	NSYECV8101



PB500675

Enclosure width 600 mm



PB500676

Enclosure width 800 mm

Cable-gland support for Actassi plates

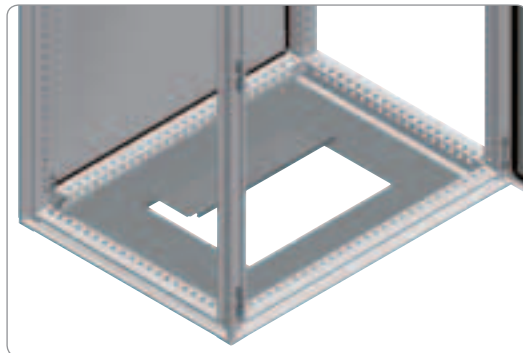
- Support for cable entry from the bottom of the enclosure.
- Allows the installation of Actassi cable-gland accessories.
- Material: galvanised steel.
- Thicknesses: 1.5 mm.
- Fixing by C-shaped clip, fixed with screws, providing electrical continuity through the clip.
- The Actassi plates are fixed by C-shaped clips to the enclosures with a width of 600 mm, and by screws directly to the support in the enclosures with a width of 800 mm.



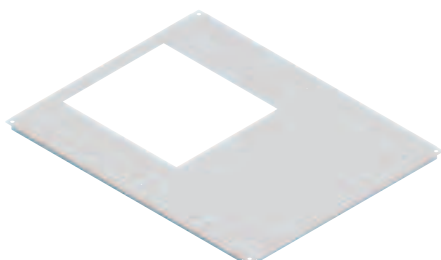
Supply:

- Enclosure width 600 mm: two plates and fixing elements.
- Enclosure width 800 mm: one support and fixing elements.

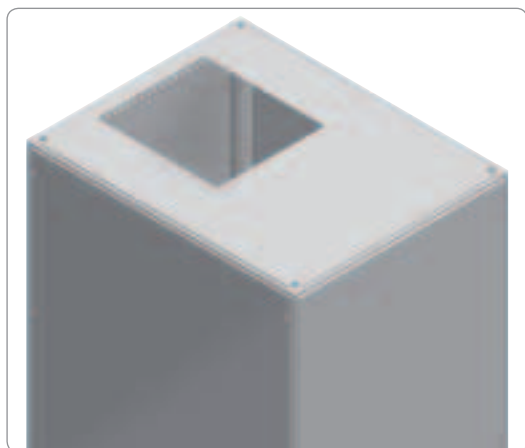
Nominal dimensions (mm)		Reference
Width	Depth	
600	600	NSYCECS66
	800	NSYCECS68
	1000	NSYCECS610
800	600	NSYCECS86
	800	NSYCECS88
	1000	NSYCECS810



PB500677



PB500878



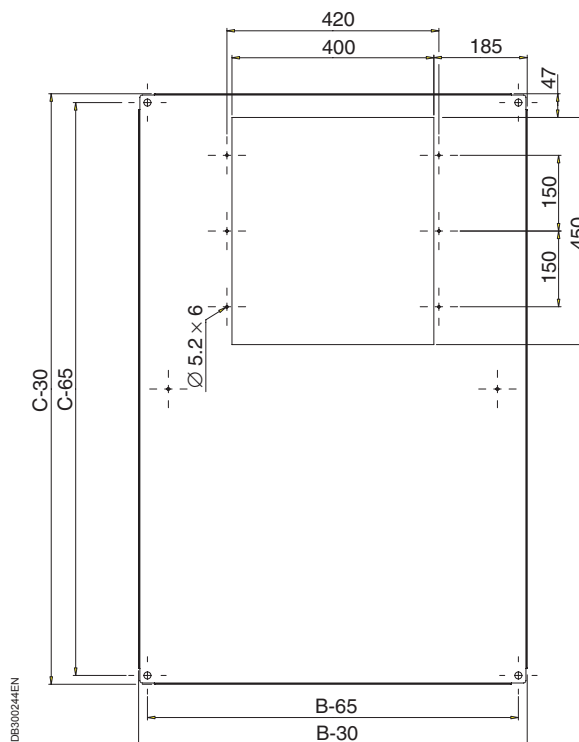
PB500879

Roof for Actassi plates

- Roof prepared for installing Actassi roof accessories.
- Suitable for enclosures with widths of 600 and 800 mm.
- Material: steel painted with epoxy-polyester resin, RAL 7035 grey.

 Supply: one roof with central cut-out and side pre-cuts (width 800 mm).

Spacial SF dimensions (mm)		Reference
Width (B)	Depth (C)	
800	600	NSYSRSYS86
	800	NSYSRSYS88
	1000	NSYSRSYS810




DB300244EN



PB500880

Plain top roof plate

- Removable plate made from folded sheet steel.
- Option of installing roof elevators for aeration, ref. **NSYEX206**, and cable glands.
- Material: steel painted with epoxy-polyester resin, RAL 7035 grey.

 Supply: one plain top roof plate and fixing elements.

Reference
NSYTSPC450

PB500681



Top roof plate with brush gasket

- Removable folded sheet-steel plate, equipped with a gasket with cable-gland brush.
- Optional installation of roof elevators for aeration, ref. **NSYEX206**, and cable-gland plates.
- Material: steel painted with epoxy-polyester resin, RAL 7035 grey.

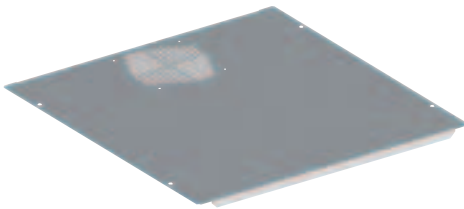


Supply: one top roof plate with brush gasket and fixing elements.

Reference

NSYTSP450

PB500682



Cut-out top roof plate

- Removable plate made from folded sheet steel.
- Optional installation of roof elevators for aeration, ref. **NSYEX206**, cable-gland plates and fans.
- Material: steel painted with epoxy-polyester resin, RAL 7035 grey.



Supply: one cut-out top roof plate and fixing elements.

Reference

NSYTSPV450

PB500683



Roof plate elevators for aeration

- Columns with a height of 20 mm.
- Fixing between the roofplate and the roof.



Supply: 100 units.



Reference by unit. Order by multiples of 100 (100, 200, 300...).

Reference

NSYEX206

PB500684



Plain cable-gland plate

- Fixing on the outside of the roof.
- Can be combined with other types of cable-gland plates.
- Material: galvanised steel.

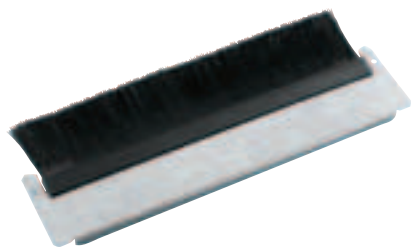


Supply: one plain cable-gland plate and fixing elements.

Reference

NSYEC440

PB500685



Cable-gland plate with brush

- Fixing on the outside of the roof.
- Can be combined with other types of cable-gland plates.
- Material: galvanised steel.

 Supply: one cable-gland plate with brush and fixing elements.

Reference


NSYECP440

PB500686



Self-ventilated cable-gland plate

- Fixing on the outside of the roof.
- Can be combined with other types of cable-gland plates.
- Material: galvanised steel.

 Supply: one self-ventilated cable-gland plate and fixing elements.

Reference


NSYECAV440

PB500687



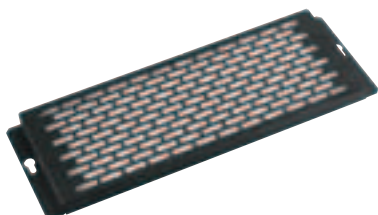
Ventilation plate with cut-outs and with or without fans, 120 mm

- Fixing on the outside of the roof.
- Can be combined with other types of cable-gland plates.
- Supplied with 2 or 3 fans, each of which has an output capacity of 170 m³/h, 220 V-50/60 Hz, installed and wired to a terminal strip. A 2-m power cord is supplied connected.
- Sound level: 34 dB (A).

 Supply: one cable-gland plate with or without fans, 2-m power cord (version with fans) and fixing elements.

Description	Reference
No fans, 3 positions	NSYECVT3440
With 3 fans	NSYECVT3V440
No fans, 2 positions	NSYECVT2440
With 2 fans	NSYECVT2V440

PB500688



Cable-gland filter

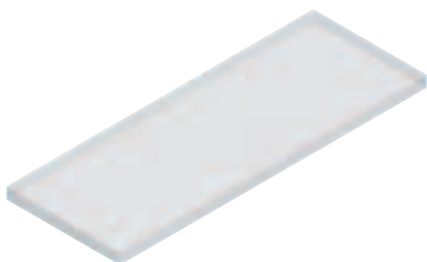
- To be mounted on the cable-gland plate with or without fan or on the self-ventilated cable-gland plate.

 Supply: one mounting support, colour RAL 9011, and filter.

Reference

NSYFECVT440

PB500690



Spare cable-gland filter



- Spare filter.

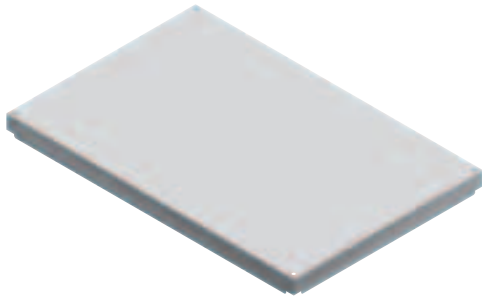


Supply: five units.

Reference
NSYCEFILS

Examples of possible combinations of cable-gland plates for the roof

Spacial SF dimensions (mm)		Combination 1	Combination 2
Width	Depth		
600/800	600		
	800		
	1000		



PBS00596

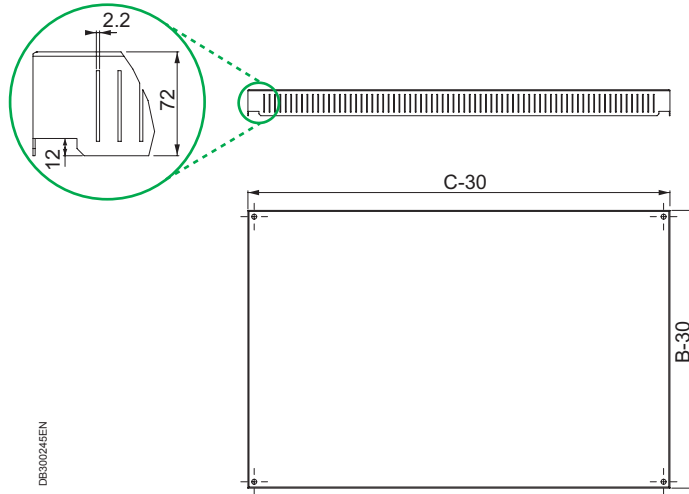
Ventilated roof

- Roof for providing natural ventilation for the enclosure, with IP30 protection.
- Material: steel.
- Height: an extra 63 mm in relation to the structure.
- Finish: painted with epoxy-polyester resin, RAL 7035 grey.



Supply: one ventilated roof and fixing elements.

Nominal dimensions (mm)		Reference
Width (B)	Depth (C)	
600	600	NSYSVR606
	800	NSYSVR608
800	600	NSYSVR806
	800	NSYSVR808



DE300024BEN



PB500691



PB500692



PB500693

Ventilated door for 19" racks


- Door designed to achieve natural ventilation of the enclosure.
- Installation on enclosures with a width of 800 mm, equipped with centred fixed or swing racks.
- Opening of 120°.
- Material: steel painted with epoxy-polyester resin, textured RAL 7035 grey.
- Standard locking system with handle and 5-mm double-bar insert.

 Supply: one ventilated door for racks.

Nominal dimensions (mm)		Single ventilated door reference	Double ventilated door reference
Height	Width		
1200	600	NSYPCVD126	NSYPCV2D126
	800	NSYPCVD128	NSYPCV2D128
1400	800	NSYPCVD148	NSYPCV2D148
1600	800	NSYPCVD168	NSYPCV2D168
1800	800	NSYPCVD188	NSYPCV2D188
2000	600	NSYPCVD206	NSYPCV2D206
	800	NSYPCVD208	NSYPCV2D208
2200	600	NSYPCVD226	NSYPCV2D226
	800	NSYPCVD228	NSYPCV2D228

Transparent door for off-centre racks

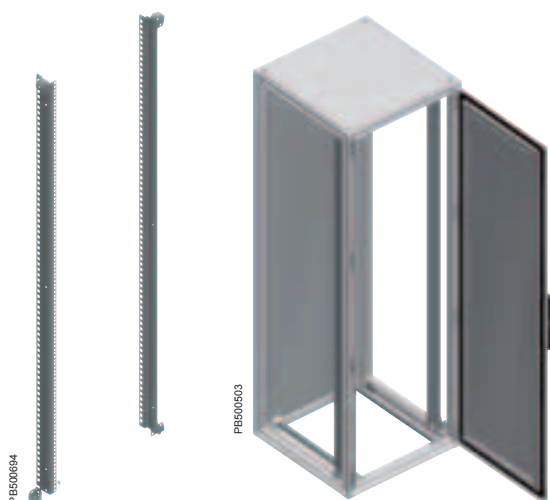
- Transparent door for installation in enclosures with off-centre 19" racks.
- Shows only the devices mounted on the 19" rack.
- Opening of 120°.
- Lock with handle and 5-mm double-bar insert, four locking points.
 - 2 points, heights of 1200 and 1400 mm.
 - 4 points, heights of 1600 to 2200 mm.
- Door stop profile.
- Opening to the right or left.
- Width of the glass 485 mm, off-centre by 77 mm.
- Material: steel and Securit® glass.
- Finish: painted with epoxy-polyester resin, RAL 7035 grey, textured.

 Supply: one off-centre transparent door.

Nominal dimensions (mm)		Reference
Height	Width	
1200	800	NSYED128T
1400		NSYED148T
1600		NSYED168T
1800		NSYED188T
2000		NSYED208T
2200		NSYED228T

Electronic application

Mounting accessories



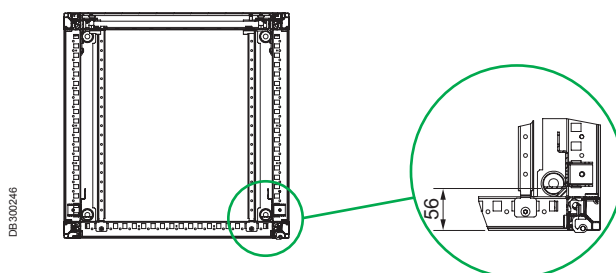
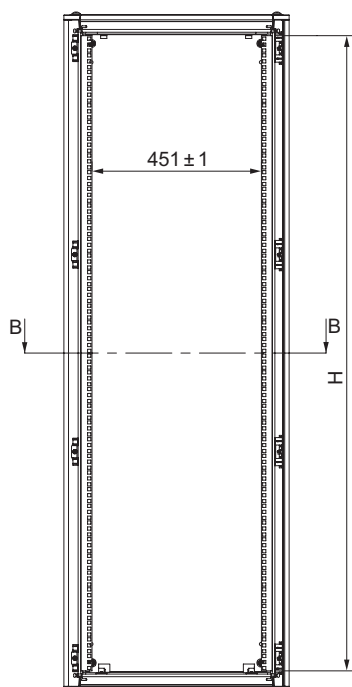
19" fixed rack

- Rack designed for installation in enclosures with a width of 600 mm.
- **Spacial SF:** Direct fixing on the structure of the enclosures.
 - For installation on enclosures with a width of 800 mm, use the 19" fixed-rack support brackets.
 - To reinforce the rigidity of the uprights in enclosures with a width of 800 mm, it is advisable to use the central fixing kit, for enclosure heights above 1800 mm, ref. **NSYRCK19KIT**.
- **Spacial SM:** fixing on the top/bottom adjustment rails.
- Adjustable depth with a pitch of 25 mm.
- Maximum load: 400 kg.
- Material: zinc-coated steel.



Supply: two uprights and fixing elements.

Nominal dimensions (mm)	No. of units (H)	Reference
Height		
1200	24	NSYRCK24
1400	29	NSYRCK29
1600	33	NSYRCK33
1800	38	NSYRCK38
2000	42	NSYRCK42
2200	47	NSYRCK47




B-B

Electronic application

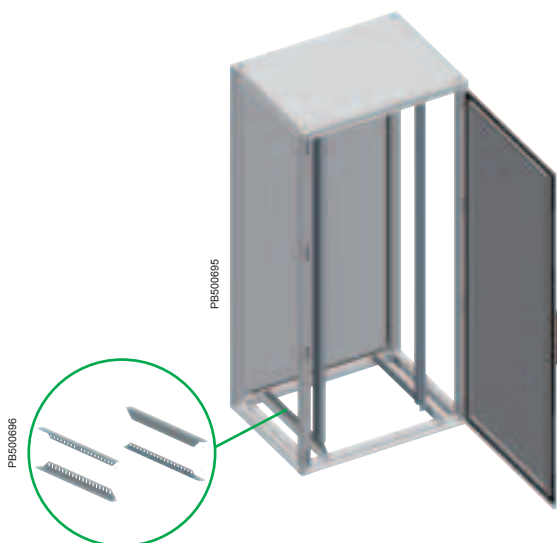
Mounting accessories

Support brackets for 19" fixed rack with a width of 800 mm

- Support brackets for coupling the fixed rack to enclosures with a width of more than 600 mm.
- They allow the depth of the fixed rack to be adjusted with a pitch of 25 mm.
- Maximum load: 400 kg.
- Material: zinc-coated steel.

 Supply: four support brackets and fixing elements.

Nominal dimensions (mm)	Reference
Depth	
600	NSYRCKS6
800	NSYRCKS8
1000	NSYRCKS10

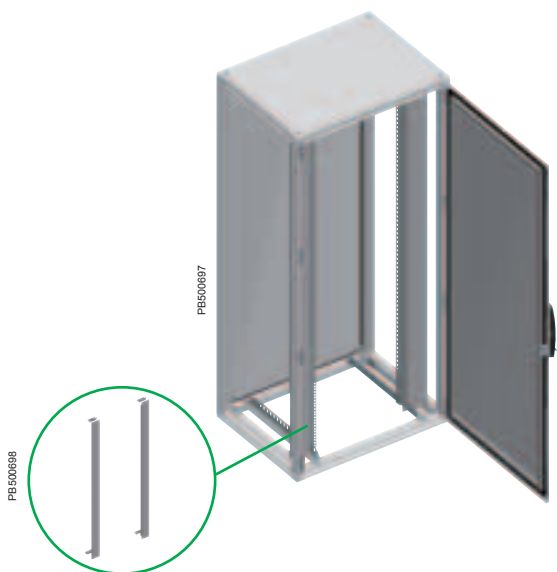


Side plates of the centred fixed rack for a width of 800 mm

- Side plates for coupling to the fixed rack in enclosures with a width of 800 mm.
- Direct installation on the rack by screws.
- Material: steel painted with epoxy-polyester resin, textured RAL 7035 grey.

 Supply: two side plates and fixing elements.

Nominal dimensions (mm)		Reference
Height	Width	
1200	800	NSYRC12
1400		NSYRC14
1600		NSYRC16
1800		NSYRC18
2000		NSYRC20
2200		NSYRC22

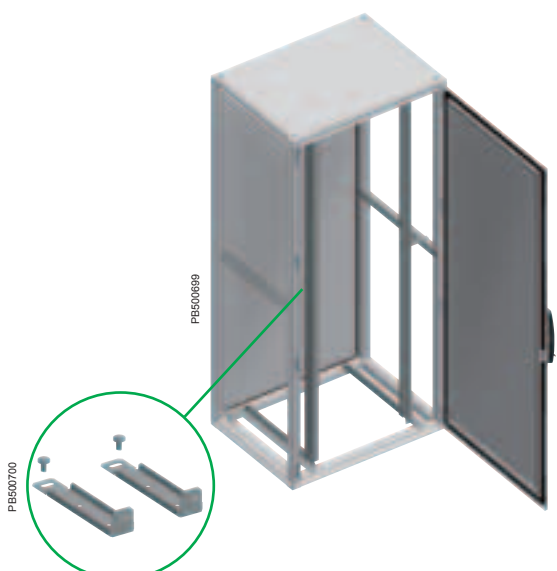


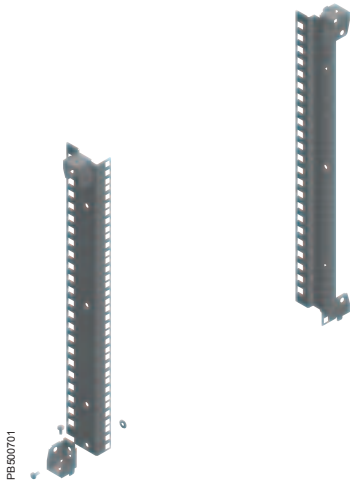
Central fixing kit

- To reinforce the rigidity of the 19" fixed racks in enclosures with a width of 800 mm.
- Fixing to the enclosure by cross rails or light cross rails installed depthwise. See page 374.
- Material: zinc-coated steel.

 Supply: two supports and fixing elements.

Reference
NSYRCK19KIT





PE500701

Partial 19" fixed rack

- Rack designed for coupling in enclosures with a width of 600 mm.
- Installation options (**Spacial SF**):
 - Installation at the top front of the enclosure, no cross rails needed (image 1).
 - Depth adjustment of the cross rails: two cross rails need to be installed, see page 371.
 - For installation at any other height, four depth cross rails are required (image 2).
- Installation options (**Spacial SM**):
 - At the top of the enclosure (image 1): install two depth cross rails, see cross rails on page 366.
 - At another height (image 2): install four cross rails for depthwise installation.
 - Depthwise installation of the cross rails. Installation of the vertical adaptation profile and the 40-mm universal cross rail (1 row) in vertical position, in the position closest to the back.
- Adjustable depth with a pitch of 25 mm.
- Maximum load: 2 kg/U.
- Material: zinc-coated steel.



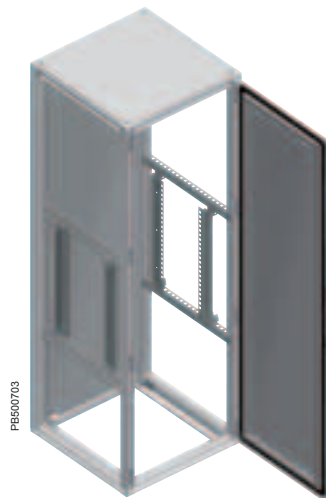
Supply: two uprights and fixing elements.



PE500702

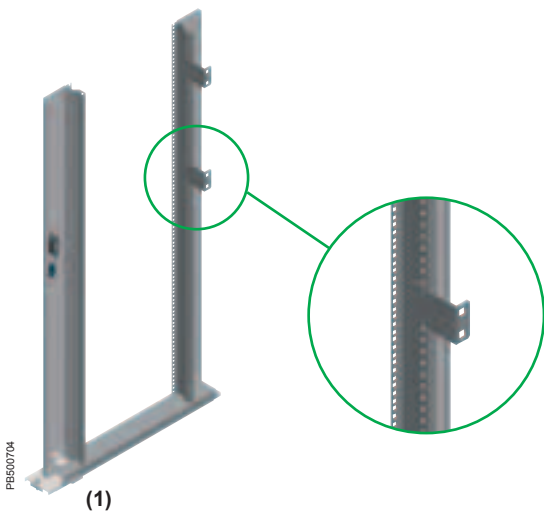
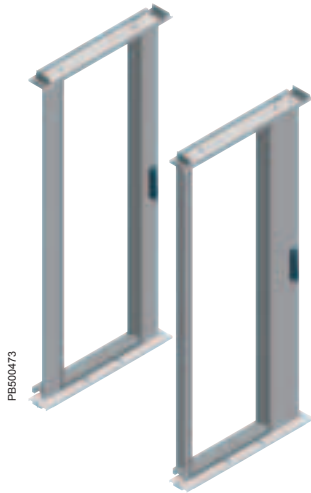
(1)

Rack height (mm)	No. of units	Reference
200	4	NSYRCKP4
400	8	NSYRCKP8
600	12	NSYRCKP12
800	17	NSYRCKP17
1000	21	NSYRCKP21
1200	26	NSYRCKP26




PE500703

(2)



19" swing racks for 800 mm enclosures

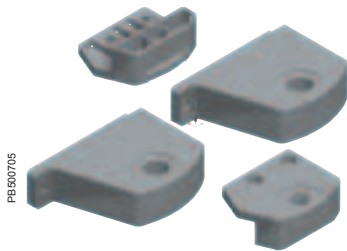
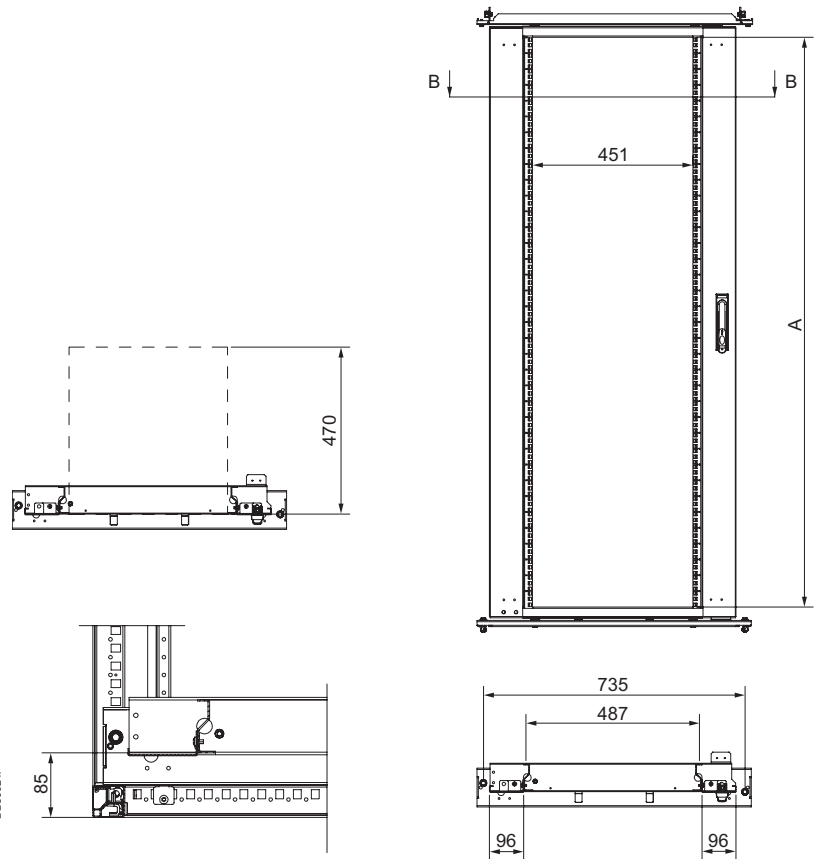
- Racks prepared for direct coupling to enclosures with a width of 800 mm.
 - **Spacial SF**: fixing to the structure of the enclosure.
 - **Spacial SM**: fixing on the top/bottom adjustment rails.
 - Can be moved depthwise with a pitch of 25 mm.
 - Maximum load: 3 kg/U.
 - Maximum opening: 120° (possibility of opening to 180° using 180° hinges).
 - Reversible opening direction: left/right.
 - Handle opening system with ball lock.
 - Maximum equipment installation depth:
- Off-centre 19" swing rack:
- 120° = 470 mm.
 - 180° = 425 mm.
- Centred 19" swing rack:
- 120° = 390 mm.
 - 180° = 345 mm.
- **Spacial SF**: multiple installation options in enclosures with a width of more than 800 mm (1000, 1200 or 1600 mm), by using universal, see page 371.
 - **Spacial SM**: option for installing the racks in enclosures with a width of 1600 mm by using universal, see page 371.
 - Components:
 - Zinc-coated steel central structure.
 - Side plate made from steel painted with epoxy-polyester resin, textured RAL 7035 grey. Fixed to the central structure by screws.
 - The cross rail of the double-folded rack increases the installation options.
 - Rear fixing uses self-tapping M6 screws, and side fixing is possible by means of quick-installation accessories (image 1).
 - Lateral adjustment is possible with the rack installed and loaded.

-  Supply:
- Off-centre 19" swing rack: hinged rack, 800-mm swing rack supports, side lid with ball-lock handle and fixing elements.
 - Centred 19" swing rack: swing rack, 800-mm swing rack supports, side plates with ball-lock handle and fixing elements.

Nominal dimensions (mm)		No. of units	Off-centre 19" hinged rack reference	Centred 19" hinged rack reference
Height (A)	Width (B)			
1400	800	27	NSYRSW27	NSYRWC27
1600		31	NSYRSW31	NSYRWC31
1800		36	NSYRSW36	NSYRWC36
2000		40	NSYRSW40	NSYRWC40
2200		45	NSYRSW45	NSYRWC45

> **Advantage:**

It is possible to adjust the height with the rack installed and loaded.



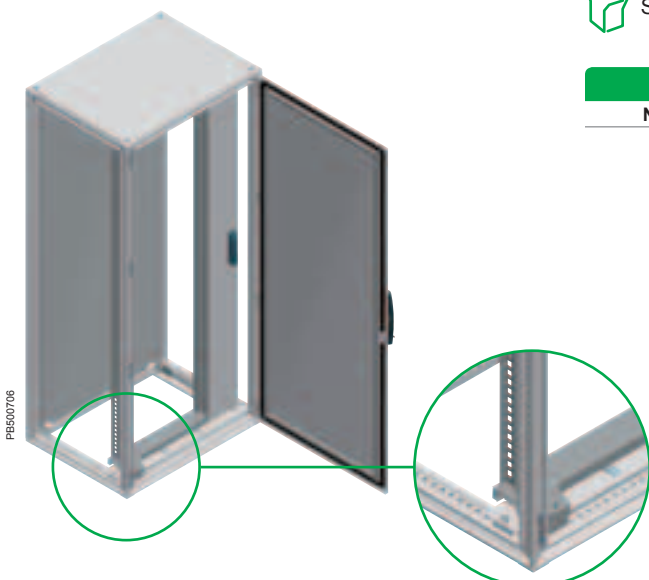
180° hinge

- Hinge for installation on centred and off-centre 19" swing racks.
- Allows the swing rack to be opened to 180°.
- Fixing by M8 screws directly to the swing rack.
- Maximum equipment installation depth:
 - Off-centre 19" swing rack: 425 mm.
 - Centred 19" swing rack: 345 mm.
- Material: zamak 5.

 Supply: two hinges and fixing elements.

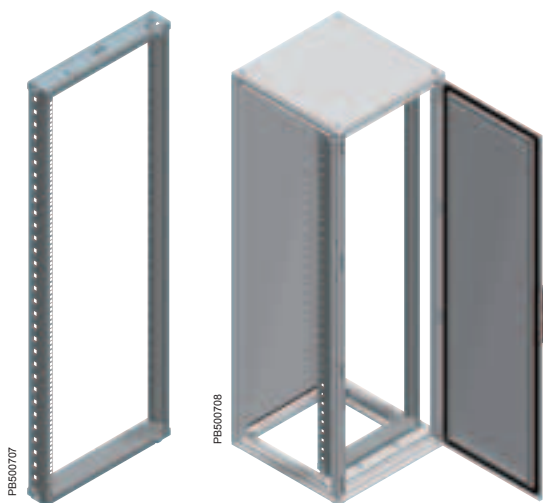
Reference

NSYRSWH180




Electronic application

Mounting accessories

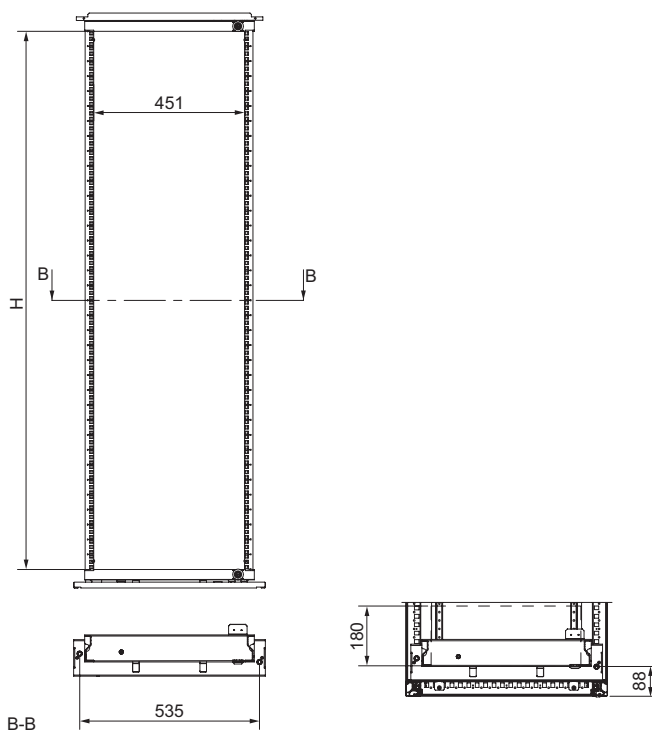


19" swing rack with no panels

- To be coupled to enclosures with widths of 600 mm.
- **Spacial SF:** fixing to the enclosure structure at any height using supports for 19" swing racks.
- **Spacial SM:** fixing to the enclosure on the top/bottom adjustment rails using supports for 19" swing racks.
- Can be moved depthwise with a pitch of 25 mm.
- Maximum load: 1.5 kg/U.
- Maximum opening: 120°.
- Maximum equipment installation depth: 180 mm, in enclosures with a width of 600 mm.
- Fixing to the enclosure structure:
 - **Spacial SF:** fixing to the entire height of the enclosure structure.
 - **Spacial SM:** fixing to the enclosure on top/bottom adjustment rails (order rails separately).
- Installation options:
 - **Spacial SF - SM:** option for installing 2 racks in enclosures with widths of 1200 and 1600 mm, using two 90-mm universal cross rails in the depthwise direction (see page 371).
 - **Spacial SF - SM:** multiple installation options in enclosures with a width of more than 600 mm (800, 1000, 1200 and 1600 mm), using universal cross rails (see page 371).
- Material: zinc-coated steel.
- Reversible opening direction: left/right.
- Locking system, top and bottom, with 5-mm double-bar key.

 Supply: one 19" swing rack with no panels.

Nominal dimensions (mm)		No. of units	Reference
Height (A)	Width (B)		
1400	600	27	NSYRSW627
1600		31	NSYRSW631
1800		36	NSYRSW636
2000		40	NSYRSW640
2200		45	NSYRSW645

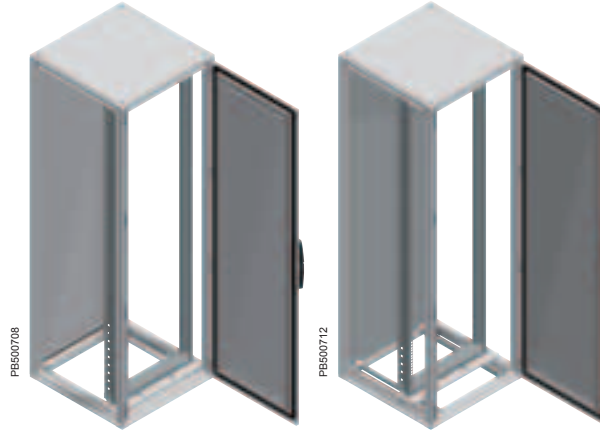


DB 300248

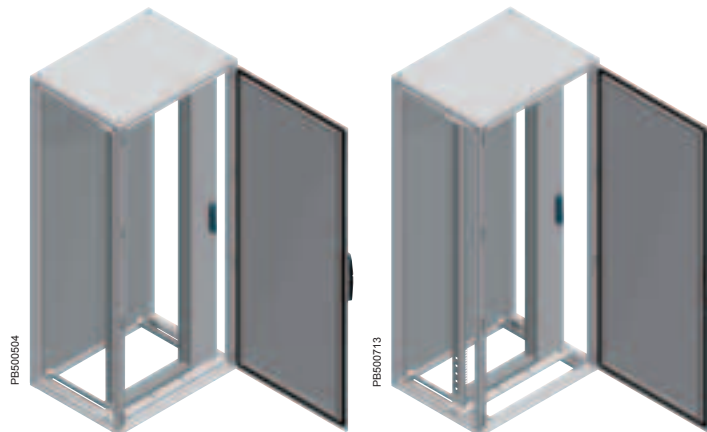
Electronic application

Mounting accessories

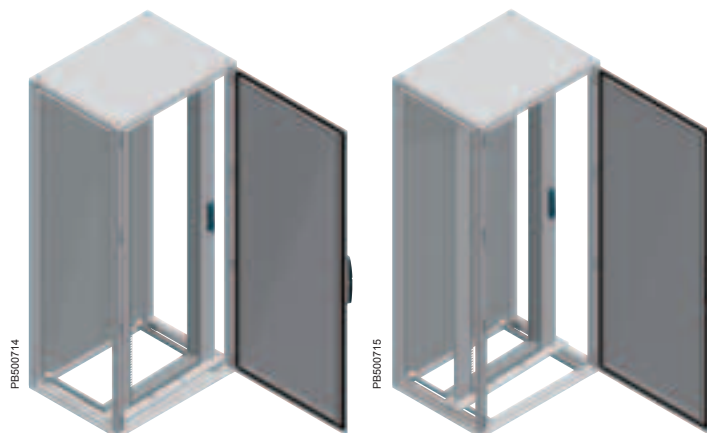
Examples of alternatives for 19" swing racks



19" swing rack in enclosure with a width of 600 mm.



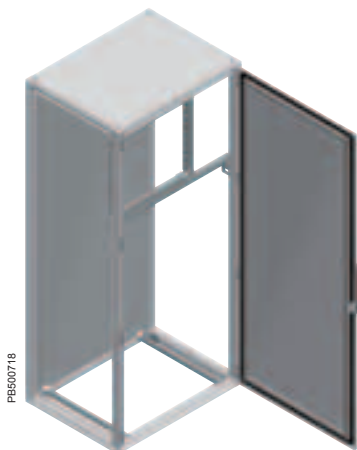
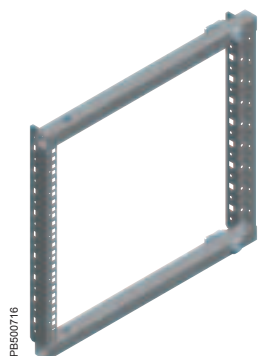
Off-centre 19" swing rack in enclosure with a width of 800 mm.



Centred 19" swing rack in enclosure with a width of more than 800 mm.


Electronic application

Mounting accessories



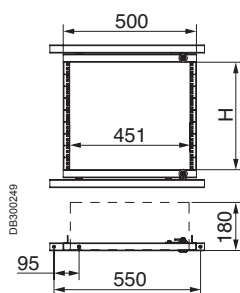
Partial 19" swing rack

- Rack for coupling to enclosures with widths of 600 and 800 mm.
- In enclosures with a width of 800 mm, the rack can be installed centred or off-centre.
- **Spacial SF:** Fixing to the highest position of the enclosure by means of supports for partial 19" swing rack.
- **Spacial SM:** Fixing to the highest position of the enclosure by means of supports for partial 19" swing rack and vertical adaptation profiles.
- For height or depth adjustment, with a pitch of 25 mm, it is necessary to use two 65 mm (2 rows) universal cross rails and a 19" multiple bracket, ref. **NSYMBR19**; and for moving depthwise and up or down, four cross rails are required. See universal cross rails, page 371.
- **Spacial SM:** to install the depthwise cross rails, the vertical adaptation profile and two 40 mm universal cross rails (1 row) are required, installed vertically in the back of the enclosure.
- Maximum load: 2 kg/u.
- Maximum opening: 120°.
- Material: zinc-coated steel.
- Reversible opening direction: left/right.
- Locking system, top and bottom, with 5 mm double-bar key. The 6 and 9 units racks only with bottom lock.
- Maximum equipment installation depth: 180 mm, in enclosures with a width of 600 mm.

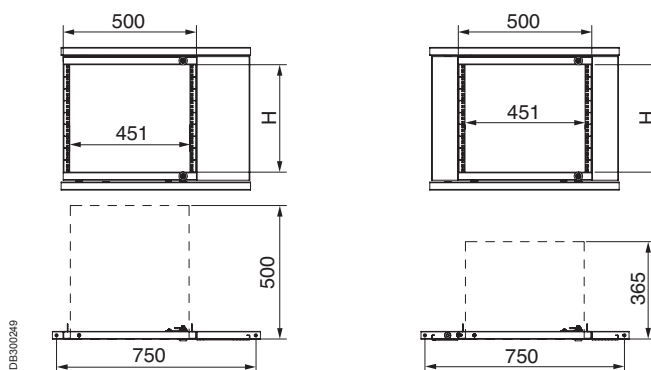
 Supply: one partial 19" swing rack.

Rack height (mm)	Nominal dimensions (mm)	No. of units (H)	Reference
	Width (B)		
355	600/800	6	NSYRSWP6
468		9	NSYRSWP9
601		12	NSYRSWP12
735		15	NSYRSWP15
868		18	NSYRSWP18
1002*		21	NSYRSWP21

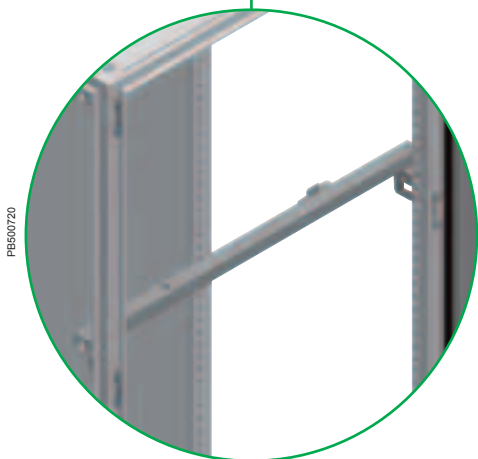
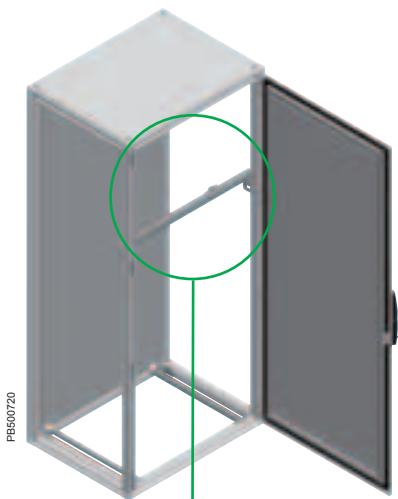
*Optional installation in enclosures with height of 1200 mm.



Partial 19" swing rack for enclosures with a width of 600 mm.



Partial 19" swing rack, off-centre and centred, for enclosures with a width of 800 mm.



Partial 19" swing rack support

- Supports for coupling the partial swing rack to enclosures with widths of 600 and 800 mm.
- Installation of the rack in centred or off-centre position, for enclosures with a width of 800 mm.
- **Spacial SF**: direct fixing to the structure.
- **Spacial SM**: fixing to the enclosure by means of the vertical adaptation profile, page 369.
- Height or depth adjustment, with a pitch of 25 mm, by two 65 mm (2 rows) universal cross rails and a 19" multiple bracket, ref. **NSYMBR19**.
- Material: zinc-coated steel.

 Supply: two supports and fixing elements.

Nominal dimensions (mm)	Reference
Width	
600	NSYRSWSP6
800	NSYRSWSP8

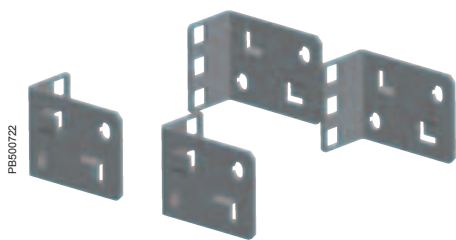


19" multiple bracket

- Bracket for fixing 65 mm universal cross rails (2 rows), depthwise, to position the partial 19" swing rack in any direction, up and down and/or depthwise.
- Material: zinc-coated steel.

 Supply: four brackets and fixing elements.

Reference
NSYMBR19

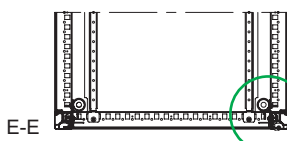
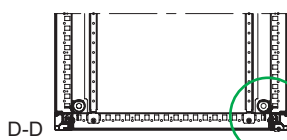
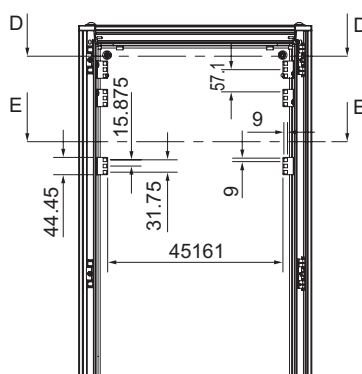


1 U / 3 U support

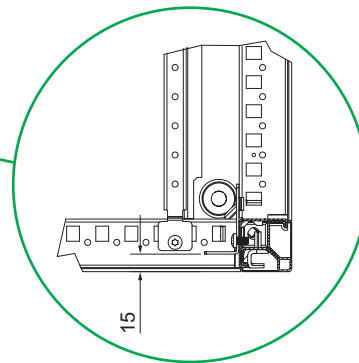
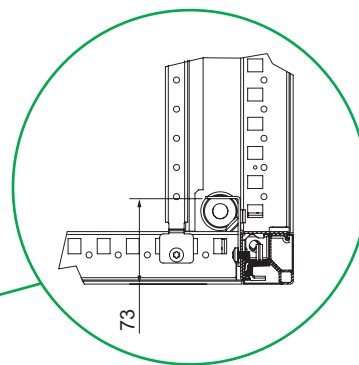
- Support prepared for installing equipment 1 U or 3 U high.
- Designed with quick locking for easy installation.
- **Spacial SF**: direct fixing to the structure.
- **Spacial SM**: fixing to the enclosure by means of the vertical adapter section, page 369.
- Material: zinc-coated steel.

 Supply: four 1 U/3 U supports (2 units right and 2 units left) and fixing elements.

Reference
NSYRC1U




DB300250EN

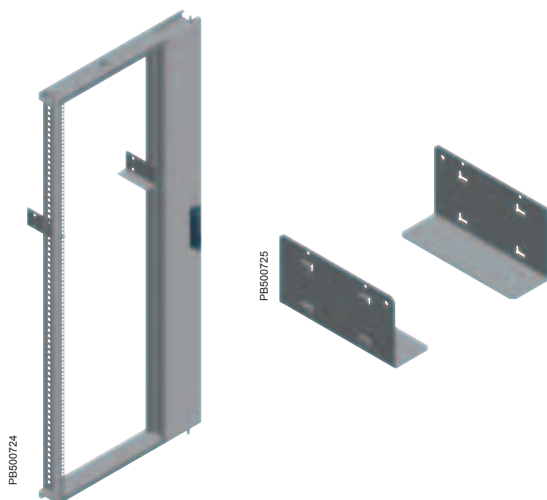


19" rack rail

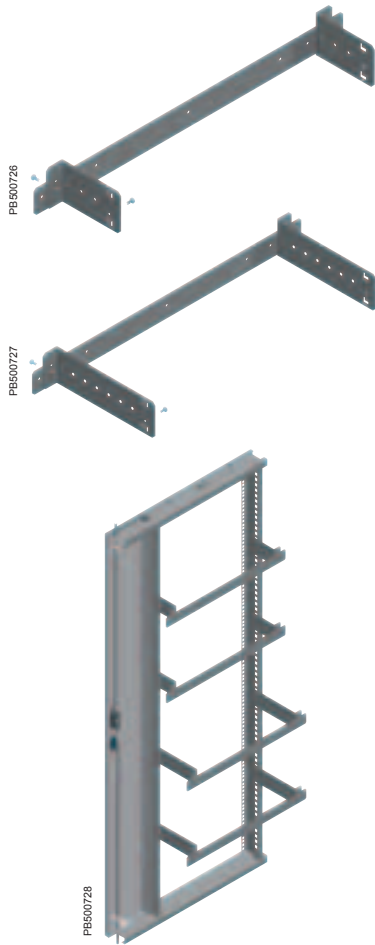
- Rails for installation on fixed or swing racks.
- Direct fixing on the structure of the enclosure, by quick locking.
- Maximum load: 15 kg.
- Material: zinc-coated steel.
- Thickness: 1.2 mm.

 Supply: two rails and fixing elements.

Reference
NSYGB140



PB500724



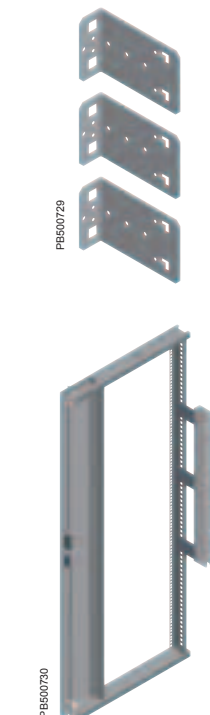
Rear cable-guide support

- Supports used for installation on the rear of the swing racks.
- Suitable for fixing cable-guide accessories.
- Allow vertical fixing of cable ducts:
- Adjustable depth with a pitch of 44.45 mm.
- Material: zinc-coated steel.



Supply: two cable-guide supports, crossbar and fixing elements.

Service depth (mm)	Reference
150	NSYRCSUP15
250	NSYRCSUP25



Fixing of cable ducts on 19" racks

- Allows vertical fixing of cable ducts for cable guide.
- Service depth: 150 mm.
- Fixed by quick locking to the 19" rack profile.
- Material: zinc-coated steel.



Supply: three units and fixing elements.

Reference
NSYRCDFIX



120° mechanical door stop

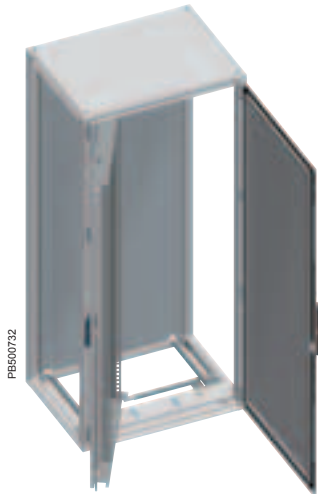
- Door stop for installation on the swing racks.
- Direct fixing to the rack support and the 19" rack.
- Maximum opening: 120°.



Supply: one mechanical door stop and fixing elements.

Reference

NSYRCDR12



180° pneumatic door stop

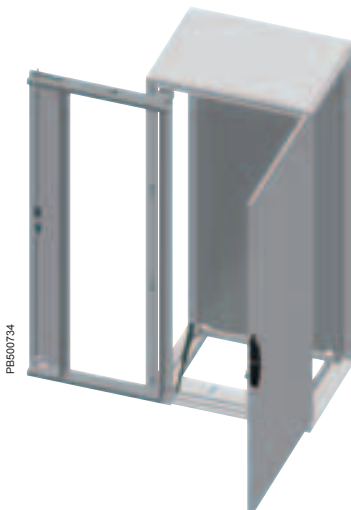
- Door stop for installation on the swing racks installed with 180° hinges.
- **Spacial SF**: fixing to the base of the structure and to the rack.
- **Spacial SM**: direct fixing to the rack support and to the 19" rack.
- Maximum opening: 180°.

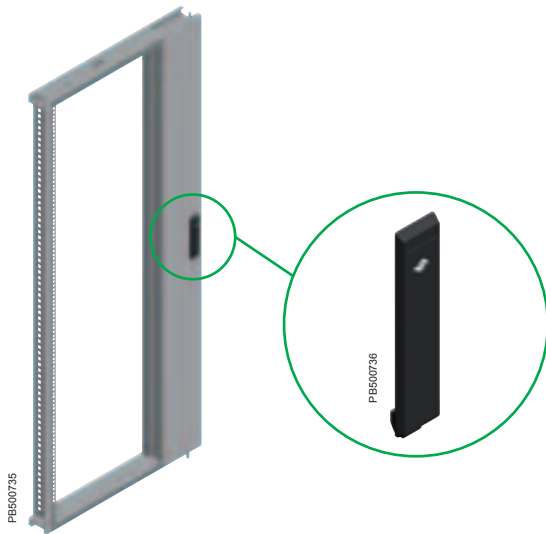


Supply: one pneumatic door stop and fixing elements.

Reference

NSYRCDR18





Flat escutcheon for swing 19" rack

- Flat escutcheon with 5-mm double-bar insert lock, for installation on swing 19" racks.



Supply: one flat escutcheon, 5-mm double-bar insert and fixing elements.

Reference

NSYRCLOCK



Switch for swing 19" rack

- Switch for direct fixing on the bottom or top support of the swing rack.
- M20 connection.
- Open + closed contact, 10 A/500 V.



Supply: one 19" rack switch and fixing elements.

Reference

NSYRCINT



Fixing elements for 19"

- Elements required for fixing switchgear on 19" racks, made up of:
 - Screws.
 - Washers.
 - Nuts.

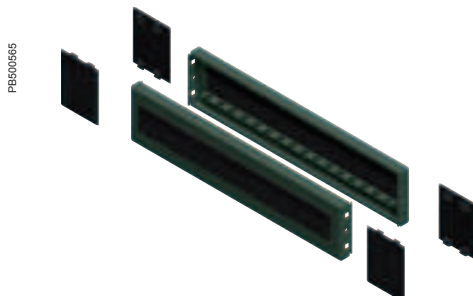
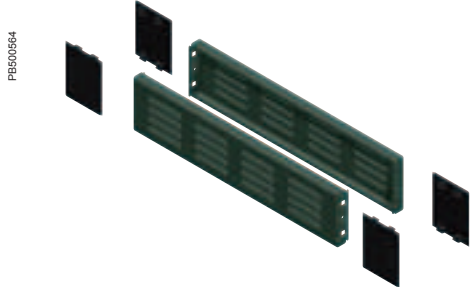
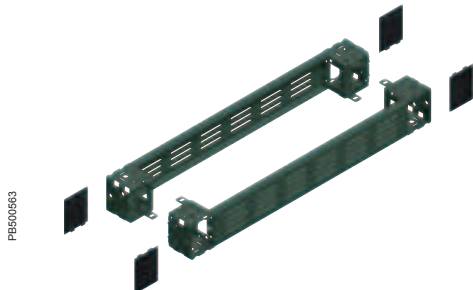
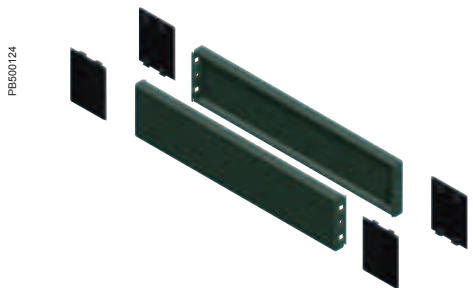
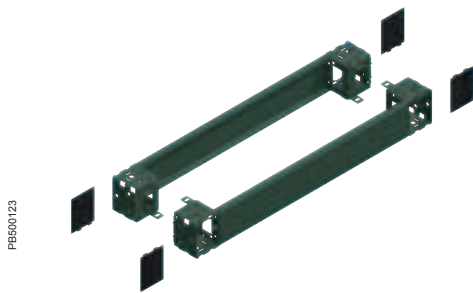


Supply: 50 units of each.



Reference by unit. Order by multiples of 50 (50, 100, 150...).

Thread type	Reference
M5	NSYGFR95M55
M6	NSYGFR95M65



Plinth

- See composition accessories: floor, page 143.
- Model heights: 100 and 200 mm.

Front plinth



Supply:

- **Height 100 mm:** four corners, two panels (front and rear), four corner covers and fixing elements.
- **Height 200 mm:** four corners, four panels (two front and two rear), four corner covers and fixing elements.

Plinth side panels



Supply:

- **Height 100 mm:** two side panels, four corner covers and fixing elements.
- **Height 200 mm:** four side panels (height of 100 mm, two for each side), four corner covers and fixing elements.

Nominal dimensions (mm)		Front plinth reference (mm)		Plinth side panel reference (mm)	
Width	Depth	100	200	100	200
600	800	NSYSPF6100	NSYSPF6200	NSYSPS8100	NSYSPS8200
	1000			NSYSPS10100	NSYSPS10200
	1200			NSYSPS12100	NSYSPS12200
800	800	NSYSPF8100	NSYSPF8200	NSYSPS8100	NSYSPS8200
	1000			NSYSPS10100	NSYSPS10200
	1200			NSYSPS12100	NSYSPS12200

Ventilated front plinth



Supply:

- **Height 100 mm:** four corners, two ventilated panels (front and rear), four corner covers and fixing elements.

Ventilated plinth side panels



Supply:

- **Height 100 mm:** two ventilated side panels, four corner covers and fixing elements.

Nominal dimensions (mm)		Ventilated front plinth reference	Ventilated plinth side-panel reference
Height	Depth	100 mm	
600	800	NSYSPFV6100	NSYSPV8100
800	800	NSYSPFV8100	NSYSPV8100

Panels with brush for plinth



Supply: two panels with brushes, four corner covers and fixing elements.

Nominal width/depth (mm)	Reference
600	NSYSPB6100
800	NSYSPB8100


Cable-gland plates

- See composition accessories: cable entry, page 156.
- Models: plain plates, with one entry and two entries.


Plain cable-gland plates

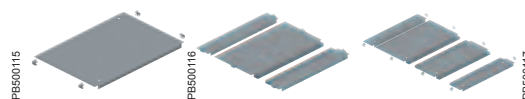
 Supply: one plain plate and fixing elements.

Cable-gland plates with 1 entry

 Supply: one plate with one entry, self-extinguishing polyurethane adhesive gasket with cross-section of 15 x 25 mm, and fixing elements.

Cable-gland plates with 2 entries

 Supply: one plate with two entries, self-extinguishing polyurethane adhesive gasket with cross-section of 15 x 25 mm, and fixing elements.




Nominal dimensions (mm)		Reference		
Width	Depth	Plain	With 1 entry	With 2 entries
600	800	NSYEC68	NSYEC681	NSYEC682
	1000	NSYEC610	NSYEC6101	NSYEC6102
	1200	NSYEC612	NSYEC6121	NSYEC6122
800	800	NSYEC88	NSYEC881	NSYEC882
	1000	NSYEC810	NSYEC8101	NSYEC8102
	1200	NSYEC812	NSYEC8121	NSYEC8122

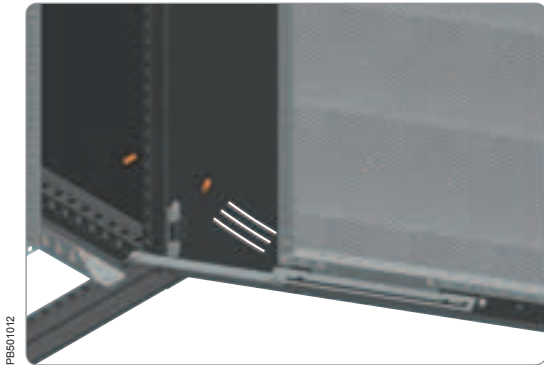


Brush-type cable entry gasket

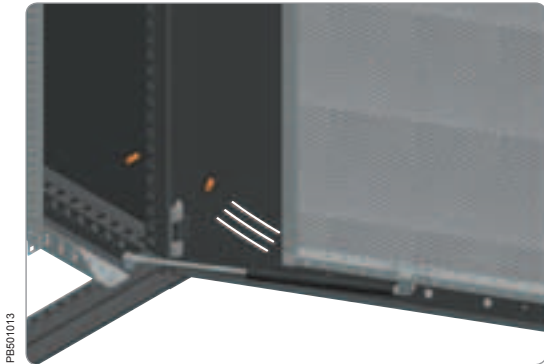
- Gasket for cable-gland plates with 1 or 2 entries. The cables can have different diameters.
- Guarantees good protection against dust.
- Quick and effective installation directly onto the sheet by clipping system.
- Width of the brush gasket: 25 mm.

 Supply: two brush-type gaskets.

Nominal width (mm)	Reference
600	NSYBCE6
800	NSYBCE8



PB501012



PB501013

Door stop

- Door blocker at the opening limit.
- The door stop is fixed directly to the structure and to the reinforcement frame of the door.
- It can be installed on doors that open both to the right and to the left.
- 2 models:
 - Mechanical door stop, opening limit 105°.
 - Pneumatic door stop, opening limit 120°.



Supply: one door stop and fixing elements.

Door stop model	Reference
Mechanical	NSYSFMDR
Pneumatic	NSYSFNDR



PB501014

Door switch

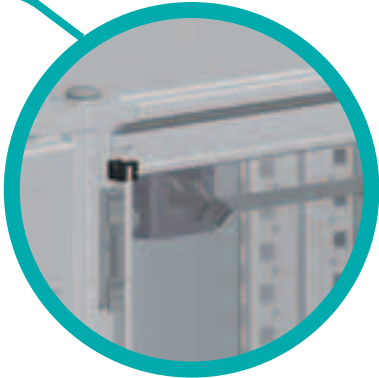
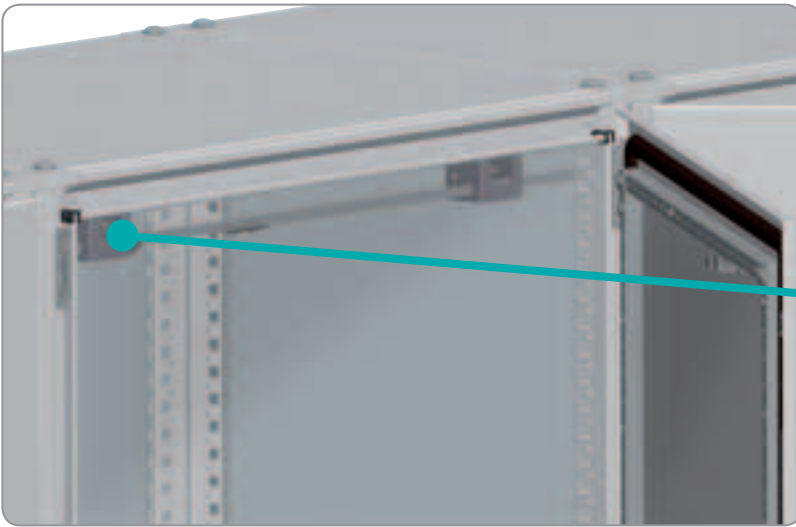
- The switch is fixed to the structure of the enclosure.
- M20 connection.
- Open + closed contact, 10 A/500 V.



Supply: one door switch and fixing elements.

Reference
NSYDCM20

Automobile application



PB00747

Automobile application

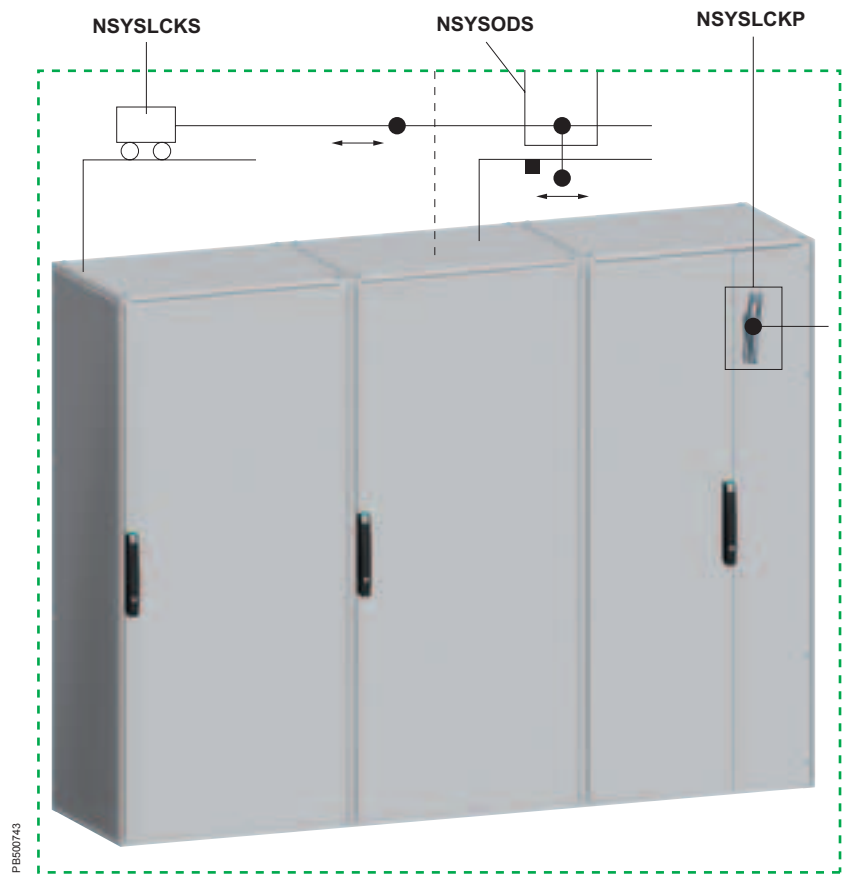
Contents

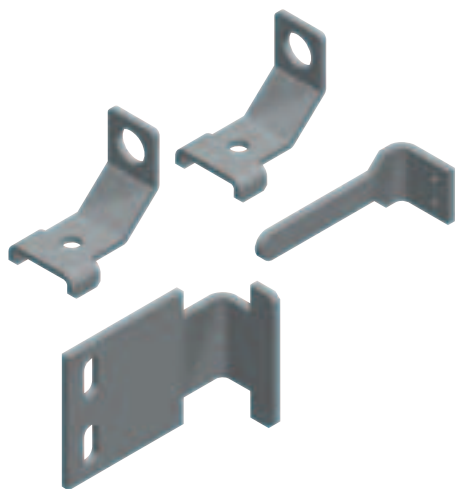
Spacial SF

666

Built-in system for interlocking the doors of associated enclosures

- The door of the "incoming" enclosure is interlocked by the control of the main switch or circuit breaker. A built-in interlocking system with runner rods prevents the opening of the "outgoing" enclosure doors. Access is only allowed when the main switch or circuit breaker is in "O" position and the main door is open. Manual activation of the rods unlocks the other doors and allows access.
- Designed to be associated with certain circuit breakers or switches:
 - Square D (9422 A1).
 - Telemecanique.
- The built-in secure interlocking system for the door (on demand) of the "incoming"/"outgoing" enclosures allows Spacial SF enclosures to be adapted to the requirements of the American car industry.







PB500744

Interlocking for main door

- System for unlocking the main door adapted to the switches:
 - Allen Bradley (1494 VH11).
 - Square D (9422 A1).
 - Siemens (FH0H).
 - Schneider Electric.
- Unlocks the main door when the switch is in the open position "O".
- Material: steel.
- Finish: zinc-coated.
- The main door interlocking system requires the ordering of both references:
 - 1 Activation for secondary doors.
 - 2 Interlocking for secondary doors.

 Supply: two brackets for fixing the configured panel, interlocking elements, switch and fixings.

 Configured panel and handle not included.



Reference
NSYSLCKP




PB500745




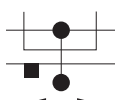
PB500746

Activation for secondary doors

- System installed in the main enclosure. Activated by manual operation, preventing the opening of the secondary enclosures connected to one another by runner rods.
- It has a secure function which consists of a part that forces the system into the position in which the secondary enclosures are locked in order to lock the main door.
- Material:
 - Mechanism: zinc-coated steel.
 - Activation handle: black plastic.

 Supply: elements for activating the main door and fixings.

 For the complete function, both activation (1) and interlocking systems (2) need to be ordered.



Reference
NSYSODS

PB600747



Interlocking for secondary doors

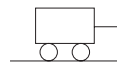
- System for interlocking the outgoing enclosures connected to one another by runner rods that lock their doors.
- Fixing to the structure of the enclosures by screws.
- Material: steel.
- Finish: zinc-coated.



Supply: elements for interlocking the secondary doors and fixings.

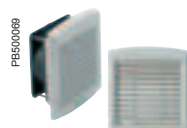


For the complete function, both activation (1) and interlocking systems (2) need to be ordered.



Nominal dimensions (mm)	Reference
Width	
600	NSYSLCKS6
800	NSYSLCKS8
1000	NSYSLCKS10

Thermal management system



ClimaSys 672

Risks 673
Solution 674



ClimaSys CV Ventilation systems 678



ClimaSys CE Exchangers 700



ClimaSys CU Cooling Units 714



ClimaSys CR Resistance Heaters 750



ClimaSys CC Thermal Control 762

Thermal balance 778

Software 782

Calculation and selection 784

Thermal management system

Thermal conditioning of electric and electronic switchboards: a need



PB501015

What is thermal control?

Technological evolution

The miniaturisation of components, the generalisation of electronics and the appearance of new electronically powered products have made temperature management into a growing need which must necessarily be considered when designing electrical and/or electronic switchboards.

What are the advantages of efficient thermal management?

Thermal management of electrical switchboards is a major factor for industrial maintenance.

Many risks are incurred by not having a suitable thermal solution, which can affect the service life of the components and the performance of the facilities to the extent of causing a halt in production.

The service life of the components also depends on the temperature and humidity conditions inside the enclosure. The ideal values range from +25 to +35 °C for the temperature and 40 to 60 % for the relative humidity (RH).

Cooling, heating, controlling

For the same reasons as the IP/IK protection ratings, equipment installed in enclosures requires suitable thermal protection.

Various solutions to these problems have been put forward. They will be chosen according to environmental conditions, the type of components in the electrical switchboard, etc.

In certain cases, it is sufficient to oversize the enclosure, use fans or air-air exchangers, etc. In other cases, where the ambient temperature is higher, it becomes necessary to install air-water exchangers or cooling units.

A solution for each need

We provide a complete Thermal offer to secure your installations.

- | | |
|-------------|---|
| Cooling | <ol style="list-style-type: none"> 1. Forced ventilation systems 2. Air-air exchangers 3. Air-water exchangers 4. Cooling units |
| Heating | <ol style="list-style-type: none"> 5. Resistance heaters |
| Controlling | <ol style="list-style-type: none"> 6. Thermal control accessories |
| Calculating | <ol style="list-style-type: none"> 7. New ProClima 5.0 software |

Risks

Risks associated with the lack of thermal control



PE801016

Random breakdowns and production halts result in heavy losses

Thermal control of enclosures extends the service life of the components and reduces their breakdown rate.

Reduction of the service life of the components

The service life of the components is considerably reduced if the temperature and humidity in enclosures are not controlled. Repeated sudden variations speed up the aging process.

Example

Batteries – Accumulators

Manufacturers recommend installing batteries in environments where the controlled temperature is 15 °C...25 °C.

Cold slows down the battery charging and discharging cycles. Heat increases the evaporation of water in the electrolyte and speeds up the oxidation of the plates. Using batteries at temperatures above the recommended value therefore reduces their service life.

Sudden production halt

The appearance of hot spots increases the breakdown rate and endangers the production process.

Example

Electronic equipment

Most electronic industrial control systems are equipped with axial fans for their own thermal control. A failure of the fan can lead to a production halt.

Reduced service life of the fan is one consequence of the enclosure heating up. 24 V DC axial fan.

Temperature range: -20...+70 °C.

Service life at 20 °C (L10 at 20 °C): 50000 h.

Service life at 60 °C (L10 at 20 °C): 20000 h.

The service life of the equipment can drop from 50000 h to only 20000 h.

The internal temperature increases with a high degree of IP

In aggressive atmospheres: dust, humidity, chemical agents, high temperatures, etc., the equipment is installed in industrial enclosures (IP 54) in order to protect it from the external environment. Nevertheless, it causes a reheating phenomenon which, if left unchecked, will be responsible in the short term for a halt in the operation of the components.

Example

Variable speed drives

A variable speed drive controlling a 45 kW (60 HP) motor is programmed to work at temperatures ranging up to 50 °C or 60 °C.

The power dissipated by this variable speed drive inside the enclosure can reach 1360 W.

This contribution of heat inside the enclosure will cause the top temperature to rise to 60 °C and probably cause a halt in production.

Our solution

Our new thermal offer includes a large range of solutions, suitable for all situations, from installing a ventilation system to exchangers or even a cooling unit.

Do not hesitate to contact us to find out the best thermal solution for your installation.



PE801017



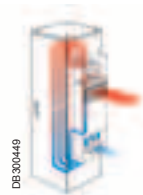
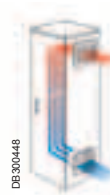
PE801018



PE801019

Choose the solution

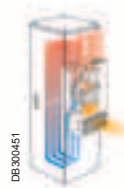
How to select the best temperature control auxiliary?









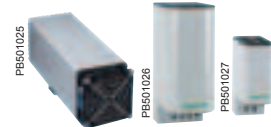


System	Airing	Ventilating	Air-air exchanger
	Natural convection causes the temperature to drop inside the enclosure. Simple solutions for this case include installing grilles (without filter) or lifting the top.	Fans with filters are designed to evacuate a large amount of heat economically.	Air-air exchangers are equipped with an aluminium exchange cassette which separates the internal and external air circuits and prevents the entry of dust.
When should it be used?	This solution can only be used when the power to be dissipated is low, in an environment with small amounts of dust.	When larger amounts of heat need to be evacuated in a polluted environment.	The air-air exchangers are used in highly polluted environments or when it is necessary to evacuate large amounts of heat while guaranteeing the independence of the internal and external air circuits.
Ta: Ambient temperature Td: Desired temperature	 Ta < Td	 Ta < Td	 Ta < Td
The internal and external air circuits must be independent.			
Advantages	<ul style="list-style-type: none"> Economic solution. No maintenance. Quick and easy installation. 	<ul style="list-style-type: none"> Economic solution. Easy maintenance. Quick and easy installation. Even temperature inside the enclosure. High protection rating: IP 54 or IP 55. 	<ul style="list-style-type: none"> The internal and external air circuits are independent. Easy maintenance. High protection rating: IP 54.
Disadvantages	<ul style="list-style-type: none"> Small amount of heat evacuated. Reduction of the IP protection rating. Entry of dust particles. 	<ul style="list-style-type: none"> The temperature inside the enclosure is always higher than the external temperature. The internal and external air circuits are in contact. Maintenance required: filter replacement. 	<ul style="list-style-type: none"> The temperature inside the enclosure is always higher than the external temperature.
Solutions	 Ventilation devices	 Fans and outlet grilles	 Air-air exchangers

Choose the solution

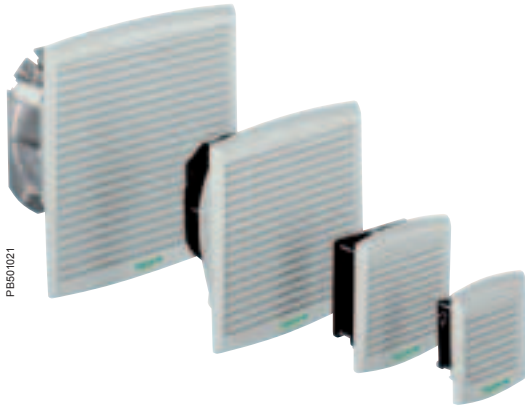
How to select the best temperature control auxiliary?



Air-water exchanger	Cooling	Heating
<p>Air-water exchangers reduce the temperature inside the enclosure by means of a water-cooled exchange cassette.</p> <p>Temperature control inside the enclosure is performed by a thermostat which opens and closes an electro-valve.</p>	<p>Air-conditioning device providing efficient cooling of the enclosure, regardless of the outside air, and prevention against hot spots.</p>	<p>The resistance heaters prevent the formation of condensation and guarantee the ideal temperature for the correct operation of the electronic components.</p>
<p>The air-water exchangers are used to evacuate large amounts of heat. They require a cold-water circuit with stable temperature and flow rate.</p> <p>They are specially recommended in difficult, highly polluted environments where there is no external air circuit.</p>	<p>The cooling units can be used in the harshest environments, where the temperature can reach up to 55 °C.</p> <p>These devices control the temperature inside the enclosure and include an alarm function for signalling operational anomalies.</p>	<p>The resistance heaters are used to reheat the electrical switchboard when the ambient temperature is too low or to prevent the formation of condensation.</p>
 <p>Ta > Td</p>	 <p>Ta > Td</p>	 <p>Ta < Td</p>
 <p>YES</p>	 <p>YES</p>	 <p>YES</p>
<ul style="list-style-type: none"> • The temperature inside the enclosure does not depend on the external temperature. • The internal and external air circuits are independent. • Security device against possible leaks. 	<ul style="list-style-type: none"> • Even temperature inside the enclosure. • High protection rating: IP 54. • Use of an environmentally friendly gas. 	<ul style="list-style-type: none"> • Small dimensions. • Equipped with a PTC-type heating system, which stabilises the surface temperature of the aluminium profile. • Available in two versions: insulated with low surface temperature or in aluminium when the surface temperature is limited to 75 °C. • The fan-equipped resistances guarantee an even temperature inside the enclosure.
<ul style="list-style-type: none"> • A cold-water supply source is required. • Specific pumping installation. 	<ul style="list-style-type: none"> • Installation of a drain is recommended. • Maintenance required: filter replacement. 	
 <p>Air-water exchangers</p>	 <p>Cooling units</p>	 <p>Resistance heaters</p>

Choose the solution

A thermal solution for every environment



PB501021

Ventilation systems with filters

Specially recommended for installations in which:

- The ambient temperature is lower than the desired temperature inside the enclosure.
- A high protection rating is required: IP 54 or IP 55.
- The surrounding environment is relatively clean, allowing air to enter the enclosure.

Large range of solutions

- 42 possible combinations.
- Colours: RAL 7035 as standard, with the option of changing to RAL 7032 (with replacement grille **NSYCAG●●●LPC**).
- 38 to 850 m³/h.
- According to 5 input voltages:
AC: 400/440 V, 230 V, 115 V (50/60 Hz),
DC: 48 V and 24 V.
- Broad range of accessories (filters, IP 55 & EMC covers, anti-vandalism kit).



PB501022

Air-air exchangers

Specially recommended for installations in which:

- The ambient temperature is lower than the desired temperature inside the enclosure.
- A high protection rating is required: IP 54 or IP 55.
- The outside environment is highly polluted.

Large range of solutions

- 4 models.
- Two installation versions: top-mounting model and side-mounting model.
- Cooling power from 15 to 70 W/°K .
- According to the input voltage: 230 V (50/60 Hz).



PB501023

Air-water exchangers

Specially recommended for installations in which:

- The ambient temperature is higher than the desired temperature inside the enclosure.
- The outside environment is corrosive, the internal and external air circuits are independent.
- The outside environment is highly polluted, the temperature is controlled by cold water without requiring the use of an external air circuit.
- It is necessary to extract the heat from the enclosure to the outside of the building.

Large range of solutions

- 3 models.
- Two installation versions: top-mounting model and side-mounting model.
- Cooling power of 2100 W and 3150 W.
- According to the input voltage: 230 V (50/60 Hz).



Cooling units

They control the temperature inside the enclosure in order to guarantee the correct operation of the components, regardless of the outside temperature, by separating the internal and external air circuits and reducing the humidity of the enclosure.

Large range of solutions

- 32 models.
- Two versions: top-mounting model and side-mounting model.
- Cooling power from 240 to 4000 W.
- Two control versions: electronic and mechanical.
- According to the input voltage: 230 V (50/60 Hz); 3 x 400/440 V (50/60 Hz); 115 V (50/60 Hz).
- Three installation types: surface, flush and partial flush (SLIM version).
- RAL 7035 and stainless steel.



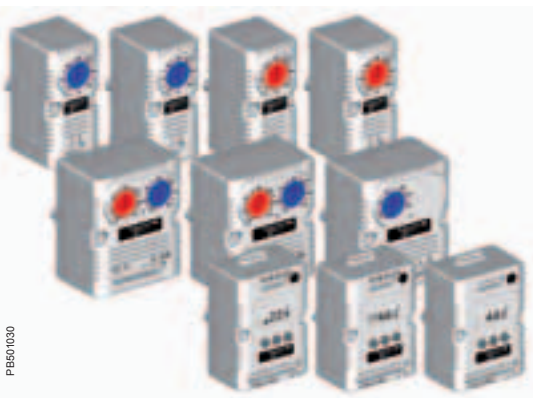
Resistance heaters

With a double objective:

- To prevent the formation of condensation inside the enclosure.
- To reheat the electrical switchboard when the temperature is too low for the components to operate correctly.

Large range of solutions

- 30 models.
- Insulated or aluminium versions.
- Versions with natural convection or fan.
- Cooling power from 10 to 550 W.
- According to the input voltage: 12 V to 450 V AC/DC.



Thermal control

Thermostats control the temperature inside the enclosure and send a signal when certain defined values are exceeded:

- Maximum value (cooling action).
- Minimum value (reheating action).

Large range of solutions

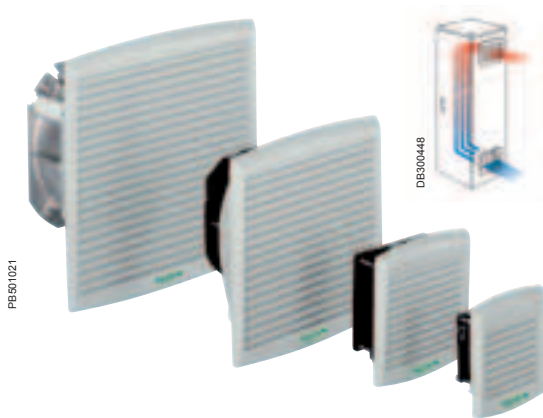
- 15 models.
- Temperature control: adjustable thermostats; single or double.
- Relative humidity control: adjustable hygrometers.
- Temperature and relative humidity control: adjustable hygrometers.



Calculation assistance: ProClima

We offer our customers and users a software application to help them select thermal accessories.

The programme draws up a heat balance and defines the best ventilation or cooling solution for the inside of the enclosure.

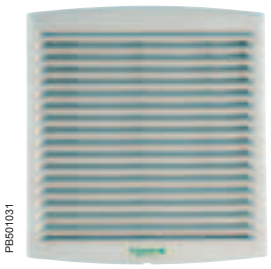


Large range of fans

Flow rate efficiency, high protection rating, quick installation and easier maintenance to secure all the applications.

PB501021

DB300448



Optimised flow rate: average increase of 50%

Maximum use of surface

The outlet grille maximises the air circulation.

PB501031



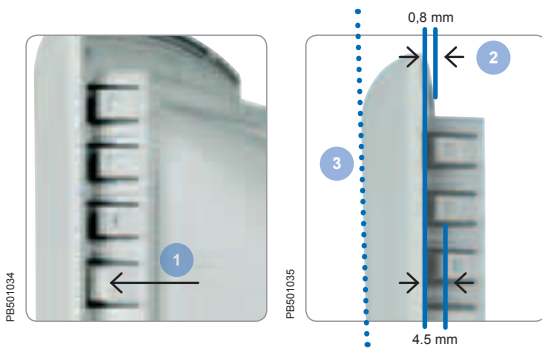
Minimum loss of pressure

Improved air flow. The corners of the walls, the variable tilt of the slats, the fixing distance of the motor and the dimensions of the device have been studied to guarantee better aerodynamics and a smaller loss of pressure.

PB501032



PB501033



High protection rating: IP 54 as standard

Fixing guide (1)

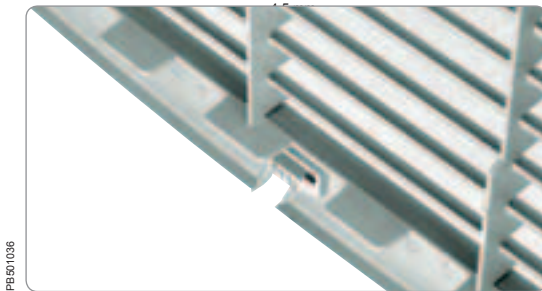
An exclusive new mechanism (patented) is used to centre the body of the fan on the wall of the enclosure. This system corrects machining faults. In addition, it facilitates the correct operation of the fixing "clips".

Multi-thickness fixing-clips (2)

This exclusive device (patented) guarantees easy and reliable fixing of the ventilation system on walls with a thickness of 0.8 to 4.5 mm, with no fixings. It guarantees perfect compression of the seal around the outline of the cut-out. The seal between the grille and the wall is guaranteed for all the materials: steel, stainless steel, polyester, aluminium, etc.

Inclined profile of the grille (3)

- This innovating profile helps protect the filter against vertical spraying:
 - Each slat is protected by the slat above it.
 - The external dimensions remain small.



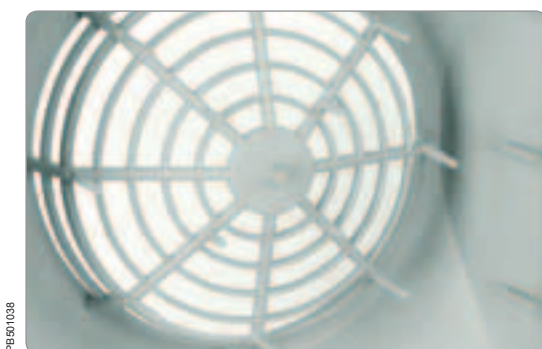
IP 54-55

A patented system allows the evacuation of water absorbed by the filter, in particular during high-pressure spraying.



Hot-fitted sealing gasket

The polyurethane gasket, hot cast, guarantees a long-lasting seal.



Effective system for retaining the filter

The system for holding the synthetic filter in the cavity of the filter holder guarantees a protection rating of IP 54, in the most difficult conditions.



PB501033

Innovative design

Innovative design with flowing lines



PB501039

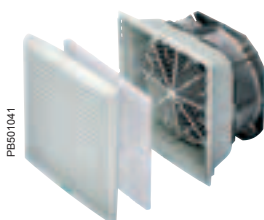


PB501040

Easy installation

Quick installation

- Safe, reliable fixing with the assisted fixing device and the system of multi-thickness fixing-clips.
- Fixing also possible using screws.
- Easy to invert.
- To operate as extractors, all the motors can be inverted by simply removing four screws.



PB501041

Easy maintenance

Quick filter replacement

Quick, easy and safe replacement of the filter installed in the fan, even during operation.



PB501042

Quality of the components

Selection of the motors

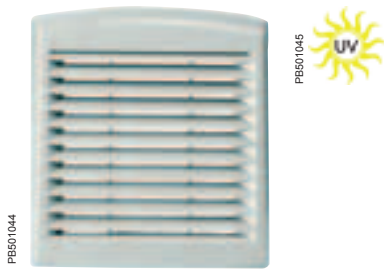
Improved flow rate and longer service life.
Large range of input voltages available on all the motors delivered as standard, with alternating 50/60 Hz or direct current.



PB501043

Ventilation offer

With homologation UL available.



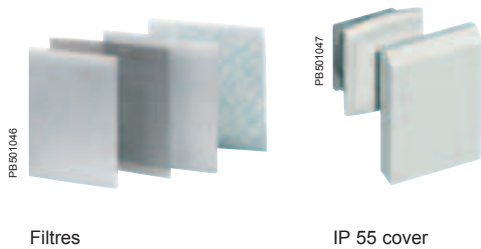
Large range of accessories

Selection of plastic materials

ASA / PC material chosen to manufacture the ventilation system:

- Improved resistance (longer service life) to UV.
- Excellent mechanical operation.
- Standard grille colours: RAL 7035 and RAL 7032 (replacement accessory). Other colours are available on demand (contact us).

ASA / PC plastic material, self-extinguishing according to standard UL94 V0.



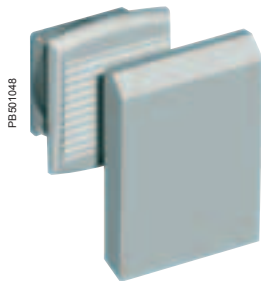
Large range of accessories

Large variety of filters

- Filters for oily environments (OEM).
 - Anti-insect filters.
 - Fine filters (improved protection against dust).
- See page **690**.

Sealing cover IP 55

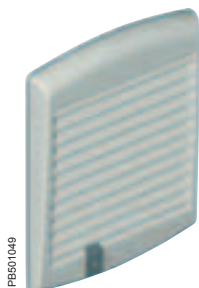
- Available in two versions:
 - Aluzinc: RAL 7035 grey paint.
 - Stainless steel.
- See page **691**.



EMC cover

Thanks to this accessory, the various ventilation systems offer greater resistance to magnetic fields (EMC), preventing any interference with the equipment installed inside the enclosure.

See page **692**.



Anti-vandalism kit

Accessory for outdoor applications, in contact with the public. It prevents unwanted opening of the grille.

See page **690**.



**ENVIRONMENTALLY
FRIENDLY**

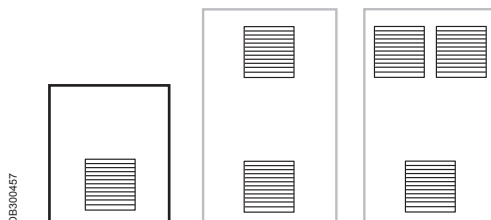
Environment

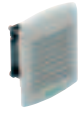
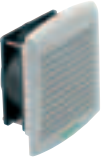


- Recyclable plastic materials and filters.
- Motors according to the RoHS directive.
- Lower power consumption for improved air flow.

Ventilation system

Selection guide

Ventilation systems with filters



 PE501050	38	25	33	230 V	C	
	38	27	35	115 V	C	
	58	39	47	24 V DC	C	
	44	34	41	48 V DC	C	
 PE501051	85	63	71	230 V	F	
	79	65	73	115 V	F	
	80	57	77	24 V DC	F	
	79	59	68	48 V DC	F	
 PE501052	165	153	161	230 V	F	
	164	153	161	115 V	F	
	188	171	179	24 V DC	F	
	193	171	179	48 V DC	F	
	302	260	268	230 V	F	
	302	263	271	115 V	F	
	262	221	229	24 V DC	F	
	247	210	218	48 V DC	F	
 PE501053	562	473	481	230 V	B	
	582	485	494	115 V	B	
	838	718	728	230 V	B	
	983	843	854	115 V	B	
	931	798	809	400/440 V	B	

(1) Fan models with connection type (F) are delivered with the connection cord included (2 metres).

Ventilation system

Selection guide

	137 x 117	92 x 92	NSYCVF38M230PF	NSYCAG92LPF	NSYCAG92LPC	-	-	-
			NSYCVF38M115PF					
			NSYCVF38M24DPF					
			NSYCVF38M48DPF					
	170 x 150	125 x 125	NSYCVF85M230PF	NSYCAG125LPF	NSYCAG125LPC	NSYCAP125LZF	NSYCAP125LXF	NSYCAP125LE
			NSYCVF85M115PF					
			NSYCVF85M24DPF					
			NSYCVF85M48DPF					
	268 x 248	223 x 223	NSYCVF165M230PF	NSYCAG223LPF	NSYCAG223LPC	NSYCAP223LZF	NSYCAP223LXF	NSYCAP223LE
			NSYCVF165M115PF					
			NSYCVF165M24DPF					
			NSYCVF165M48DPF					
			NSYCVF300M230PF					
			NSYCVF300M115PF					
			NSYCVF300M24DPF					
			NSYCVF300M48DPF					
	336 x 316	291 x 291	NSYCVF560M230PF	NSYCAG291LPF	NSYCAG291LPC	NSYCAP291LZF	NSYCAP291LXF	NSYCAP291LE
			NSYCVF560M115PF					
			NSYCVF850M230PF					
			NSYCVF850M115PF					
			NSYCVF850M400PF					

Ventilation systems

Forced ventilation 38 m³/h



General characteristics

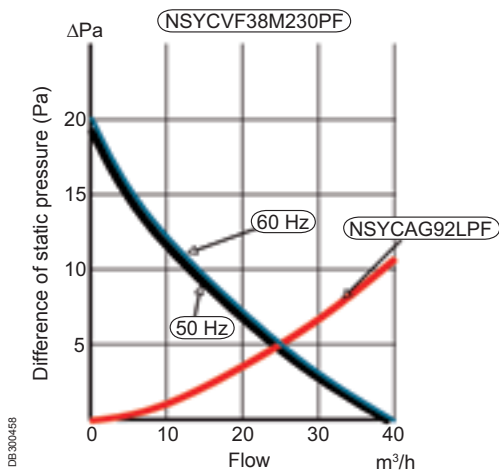
- The fans comprise an axial motor, a protective housing on the front and rear surfaces and a filter designed to retain dust particles.
- This filter can be replaced during operation without risk of contact with the rotating element.
- The cut-out template supplied with the device avoids the need for marking and protects the surface of the enclosure during handling.
- RAL 7035 grey in the standard offer with the possibility to change to RAL 7032 by means of a replacement grille.

Conditions of use

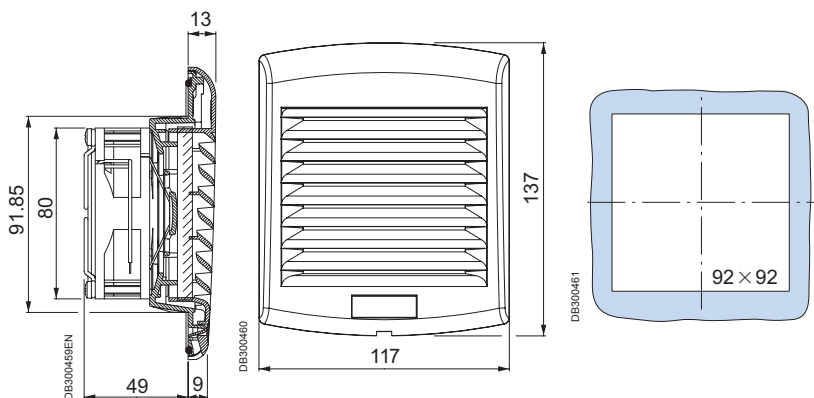
- The outside temperature (Te) must be 5 °C lower than the desired temperature (Ts) inside the enclosure.
- The filters that equip the fans must be cleaned and replaced regularly.
- The surrounding environment must be relatively clean and overfrequent filter replacement should be avoided.
- Bear in mind the pressure losses caused by the outlet element (grille with filter, ventilation louvre or simple opening) when determining the fan flow rate.

Specifications	Reference			
	NSYCVF38M230PF	NSYCVF38M115PF	NSYCVF38M24DPF	NSYCVF38M48DPF
Colour: RAL 7035				
Free flow rate with standard filter (m ³ /h)	38 (50 Hz) 39 (60 Hz)	38 (50 Hz) 39 (60 Hz)	58	44
Flow rate with 1 outlet grille (m ³ /h)	25 (50 Hz) 26 (60 Hz)	27 (50 Hz) 28 (60 Hz)	39	34
Nominal voltage	230 V (50/60 Hz)	115 V (50/60 Hz)	24 V DC	48 V DC
Voltage range	150 V...250 V	75 V...125 V	10 V...27.6 V	36 V...56 V
Absorbed power (50/60 Hz)	4.5/4.8 W	3.3/3.5 W	3.6 W	3.6 W
Max. intensity (50/60 Hz)	0.16/0.17 A	0.16/0.16 A	0.18 A	70 mA
Noise level	40/41 dB (A)			
Bearing	Balls			
IP	54			
External dimensions (mm)	137 x 117 x 49			
Cut-out (mm)	92 x 92			
Weight	0.220 kg		0.230 kg	
Material	Injected thermoplastic (ASA PC). self-extinguishing according to UL94 V0			
Operating temperature	-10...+70 °C			
Storage temperature	-40...+70 °C			
Max. static pressure (flow rate 0 m ³ /h)	29 Pa			

Flow curves



Dimensions



Ventilation systems

Forced ventilation 85 m³/h



General characteristics

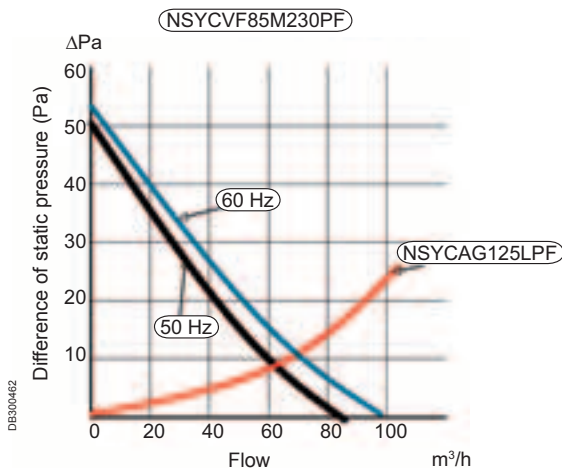
- The fans comprise an axial motor, a protective housing on the front and rear surfaces and a filter designed to retain dust particles.
- This filter can be replaced during operation without risk of contact with the rotating element.
- Optionally, the device can be equipped with a filter that provides even more efficient protection for your sensitive facilities against dust particles.
- The cut-out template supplied with the device avoids the need for marking and protects the surface of the enclosure during handling.
- RAL 7035 grey in the standard offer with the possibility to change to RAL 7032 by means of a replacement grille.

Conditions of use

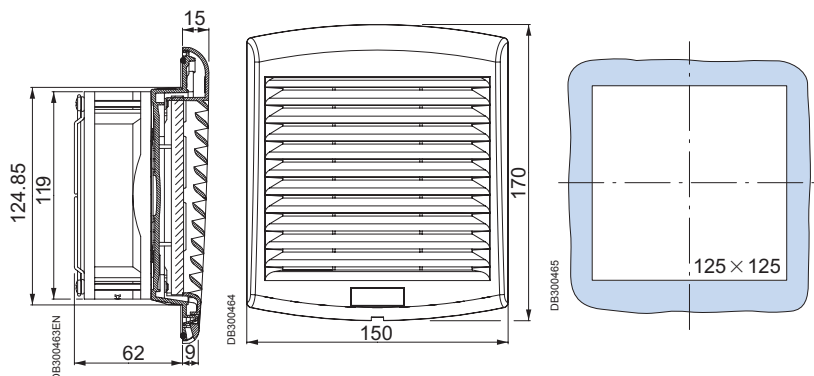
- The outside temperature (T_e) must be 5 °C lower than the desired temperature (T_s) inside the enclosure.
- The filters that equip the fans must be cleaned and replaced regularly.
- The surrounding environment must be relatively clean and overfrequent filter replacement should be avoided.
- Bear in mind the pressure losses caused by the outlet element (grille with filter, ventilation louvre or simple opening) when determining the fan flow rate.

Specifications	Reference			
Colour: RAL 7035	NSYCVF85M230PF	NSYCVF85M115PF	NSYCVF85M24DPF	NSYCVF85M48DPF
Free flow rate with standard filter (m ³ /h)	85 (50 Hz) 98 (60 Hz)	79 (50 Hz) 92 (60 Hz)	80 m ³ /h	
Flow rate with 1 outlet grille (m ³ /h)	63 (50 Hz) 72 (60 Hz)	65 (50 Hz) 74 (60 Hz)	60 m ³ /h	
Nominal voltage	230 V (50/60 Hz)	115 V (50/60 Hz)	24 V DC	48 V DC
Voltage range	175 V...253 V	75 V...126 V	10 V...27.6 V	25 V...55.2 V
Absorbed power	17/15 W	16/15 W	7.6 W	8 W
Max. intensity (50/60 Hz)	0.121/0.097 A	0.207/0.179 A	0.30 A	0.173 A
Noise level	46/49 dB (A)			
Bearing	Balls			
IP	54			
External dimensions (mm)	170 x 150 x 62			
Cut-out (mm)	125 x 125			
Weight	0.780 kg		0.480 kg	
Material	Injected thermoplastic (ASA PC), self-extinguishing according to UL94 V0			
Operating temperature	-20...+60 °C		-10...+70 °C	
Storage temperature	-40...+70 °C			
Max. static pressure (flow rate m ³ /h)	50 Pa			

Flow curves



Dimensions



Ventilation systems

Forced ventilation 165 m³/h



General characteristics

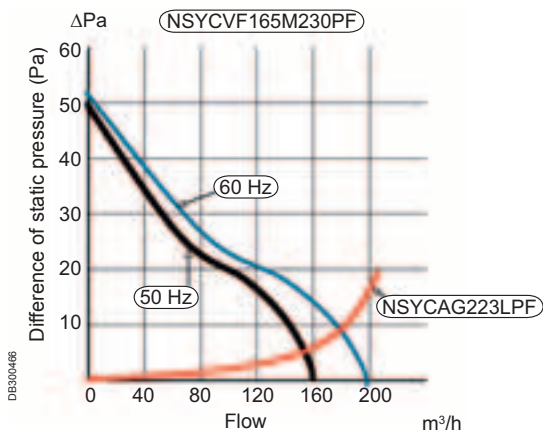
- The fans comprise an axial motor, a protective housing on the front and rear surfaces and a filter designed to retain dust particles.
- This filter can be replaced during operation without risk of contact with the rotating element.
- Optionally, the device can be equipped with a filter that provides even more efficient protection for your sensitive facilities against dust particles.
- The cut-out template supplied with the device avoids the need for marking and protects the surface of the enclosure during the handling.
- RAL 7035 grey in the standard offer with the possibility to change to RAL 7032 by means of a replacement grille.

Conditions of use

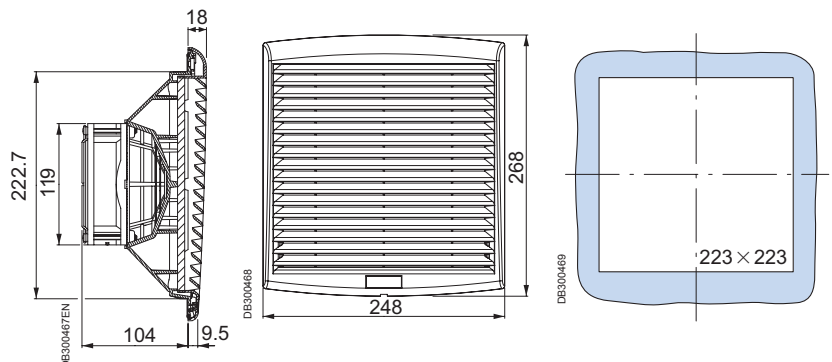
- The outside temperature (Te) must be 5 °C lower than the desired temperature (Ts) inside the enclosure.
- The filters that equip the fans must be cleaned and replaced regularly.
- The surrounding environment must be relatively clean and overfrequent filter replacement should be avoided.
- Bear in mind the pressure losses caused by the outlet element (grille with filter, ventilation louvre or simple opening) when determining the fan flow rate.

Specifications	Reference			
Colour: RAL 7035	NSYCVF165M230PF	NSYCVF165M115PF	NSYCVF165M24DPF	NSYCVF165M48DPF
Free flow rate with filter (m ³ /h)	165 (50 Hz)	193 (60 Hz)	190 m ³ /h	
Flow rate with 1 outlet grille (m ³ /h)	153 (50 Hz)	171 (60 Hz)	171 m ³ /h	
Flow rate with 2 outlet grilles (m ³ /h)	161 (50 Hz)	175 (60 Hz)	179 m ³ /h	
Nominal voltage	230 V (50/60 Hz)	115 V (50/60 Hz)	24 V DC	48 V DC
Voltage range	175 V...253 V	75 V...126 V	10 V...27,6 V	25 V...55,2 V
Absorbed power	16.3/14.3 W	15.5/14.4 W	8 W	8.7 W
Max. intensity (50/60 Hz)	0.12/0.94 A	0.20/0.18 A	0.3 A	0.18 A
Noise level	50/51 dB (A)			
Bearing	Balls			
IP	54			
External dimensions (mm)	268 x 248 x 104			
Cut-out (mm)	223 x 223			
Weight	1140 kg		0.810 kg	
Material	Injected thermoplastic (ASA PC), self-extinguishing according to UL94 V0			
Operating temperature	-20...+60 °C		-10...+70 °C	
Storage temperature	-40...+70 °C			
Max. static pressure	50 Pa			

Flow curves



Dimensions



Ventilation systems

Forced ventilation 300 m³/h



General characteristics

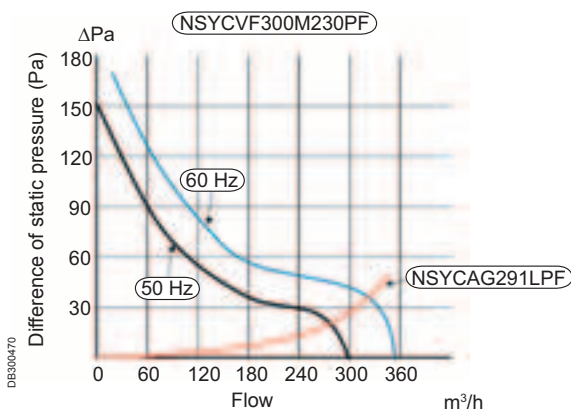
- The fans comprise an axial motor, a protective housing on the front and rear surfaces and a filter designed to retain dust particles.
- This filter can be replaced during operation without risk of contact with the rotating element.
- Optionally, the device can be equipped with a filter that provides even more efficient protection for your sensitive facilities against dust particles.
- The cut-out template supplied with the device avoids the need for marking and protects the surface of the enclosure during handling.
- RAL 7035 grey in the standard offer with the possibility to change to RAL 7032 by means of a replacement grille

Conditions of use

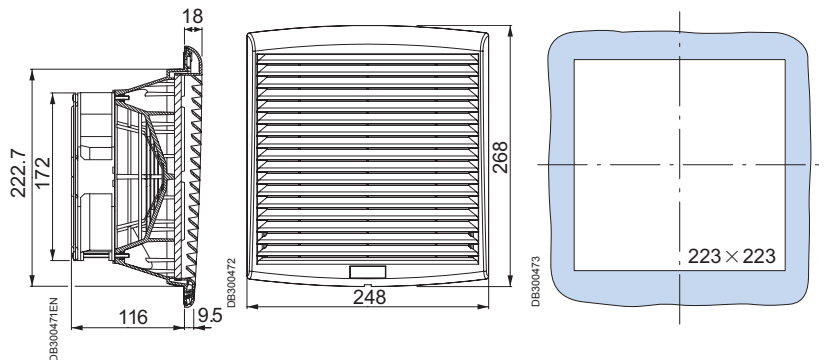
- The outside temperature (T_e) must be 5 °C lower than the desired temperature (T_s) inside the enclosure.
- The filters that equip the fans must be cleaned and replaced regularly.
- The surrounding environment must be relatively clean and overfrequent filter replacement should be avoided.
- Bear in mind the pressure losses caused by the outlet element (grille with filter, ventilation louvre or simple opening) when determining the fan flow rate.

Specifications	Reference			
	NSYCVF300M230PF	NSYCVF300M115PF	NSYCVF300M24DPF	NSYCVF300M48DPF
Colour: RAL 7035				
Free flow rate with filter (m ³ /h)	300 (50 Hz) 350 (60 Hz)			262 m ³ /h
Flow rate with 1 outlet grille (m ³ /h)	260 (50 Hz) 307 (60 Hz)			221 m ³ /h
Nominal voltage	230 V (50/60 Hz)	115 V (50/60 Hz)	24 V DC	48 V DC
Voltage range	145 V...253 V	75 V...126 V	12 V...30 V	25 V...60 V
Absorbed power	36/37 W	36/36 W	13 W	11 W
Max. intensity (50/60 Hz)	0.17/0.16 A	0.35/0.32 A	0.53 A	0.24 A
Noise level	55/56 dB (A)			
Bearing	Balls			
IP	54			
External dimensions (mm)	268 x 248 x 116		268 x 248 x 103,4	
Cut-out (mm)	223 x 223			
Weight	1.3 kg		1.1 kg	
Material	Injected thermoplastic (ASA PC), self-extinguishing according to UL94 V0			
Operating temperature	-10...+70 °C		-10...+70 °C	
Storage temperature	-40...+70 °C			
Max. static pressure	158 Pa			

Flow curves

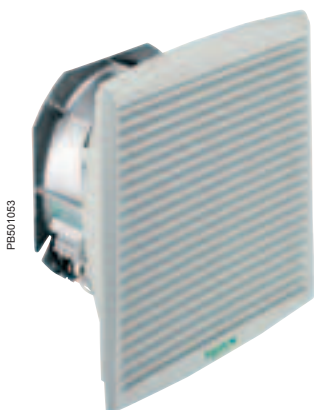


Dimensions



Ventilation systems

Forced ventilation 560-850 m³/h



General characteristics

- The fans comprise an axial motor, a protective housing on the front and rear surfaces and a filter designed to retain dust particles.
- This filter can be replaced during operation without risk of contact with the rotating element.
- Optionally, the device can be equipped with a filter that provides even more efficient protection for your sensitive facilities against dust particles.
- The cut-out template supplied with the device avoids the need for marking and protects the surface of the enclosure during handling.
- RAL 7035 grey in the standard offer with the possibility to change to RAL 7032 by means of a replacement grille.

Conditions of use:

- The outside temperature (Te) must be 5 °C lower than the desired temperature (Ts) inside the enclosure.
- The filters that equip the fans must be cleaned and replaced regularly.
- The surrounding environment must be relatively clean and overfrequent filter replacement should be avoided.
- Bear in mind the pressure losses caused by the outlet element (grille with filter, ventilation louvre or simple opening) when determining the fan flow rate.

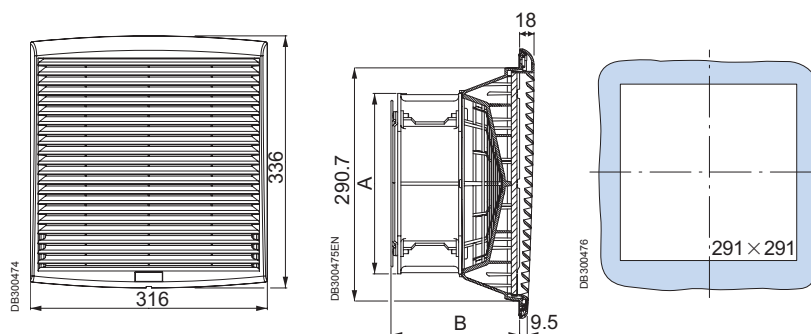
Specifications	Reference					
	Colour: RAL 7035	NSYCVF560M230PF	NSYCVF560M115PF	NSYCVF850M230PF	NSYCVF850M115PF	NSYCVF850M400PF
Free flow rate with filter (m ³ /h)	562 (50 Hz) 586 (60 Hz)		838 (50 Hz) 803 (60 Hz)	983 (50 Hz) 944 (60 Hz)	931 (50 Hz) 803 (60 Hz)	
Flow rate with 1 outlet grille (m ³ /h)	473 (50 Hz) 477 (60 Hz)		718 (50 Hz) 568 (60 Hz)	843 (50 Hz) 642 (60 Hz)	798 (50 Hz) 568 (60 Hz)	
Nominal voltage	230 V (50/60 Hz)	115 V (50/60 Hz)	230 V (50/60 Hz)	115 V (50/60 Hz)	400 V (50/60 Hz)	
Voltage range	207 V...244 V	103 V...122 V	207 V...244 V	103 V...122 V	396 V...466 V	
Absorbed power	68/85 W	65/83 W	150/195 W	145/182 W	126/126 W	
Max. intensity (50/60 Hz)	0.52/0.370 A	0.60/0.72 A	0.65/0.85 A	1.279/1.6 A	0.226/0.232 A	
Noise level	59/59 dB (A)		76/75 dB (A)	78/77 dB (A)	77/75 dB (A)	
Bearing	Balls					
IP	54					
External dimensions (mm)	336 x 316 x 161			336 x 316 x 162		
Cut-out (mm)	291 x 291					
Weight	3.2 kg			4.1 kg		
Material	Injected thermoplastic (ASA PC), self-extinguishing according to UL94 V0					
Operating temperature	-15...+60 °C					
Storage temperature	-40...+70 °C					
Max. static pressure	140 Pa			170 Pa		

Ventilation systems

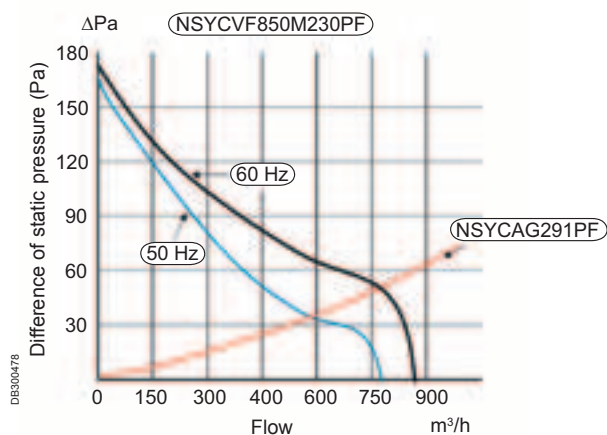
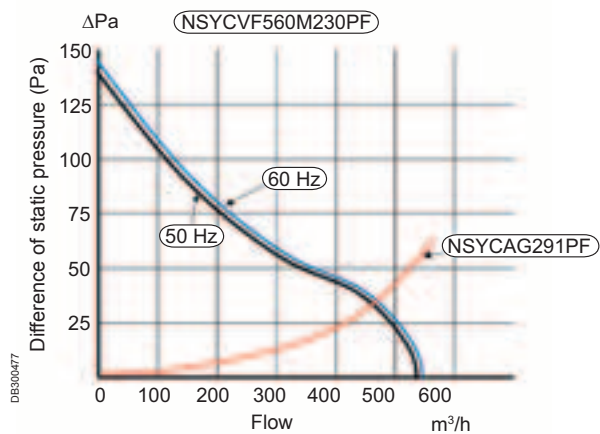
Forced ventilation 560-850 m³/h

Dimensions

A	B	Reference
225	160.5	NSYCVF560M230PF NSYCVF560M115PF
280	162	NSYCVF850M230PF NSYCVF850M115PF



Flow curves





PB501054

RAL 7035

Outlet grilles

- Delivered with G2 M1 synthetic standard filter.
- Material: Injected thermoplastic (ASA PC), self-extinguishing according to UL94 V0.

Dimensions (mm)		IP	Reference RAL 7035
Total (external)	Cut-out		
137 x 117 x 13	92 x 92	54	NSYCAG92LPF
170 x 150 x 15	125 x 125	54	NSYCAG125LPF
268 x 248 x 18	223 x 223	54	NSYCAG223LPF
336 x 316 x 18	291 x 291	54	NSYCAG291LPF



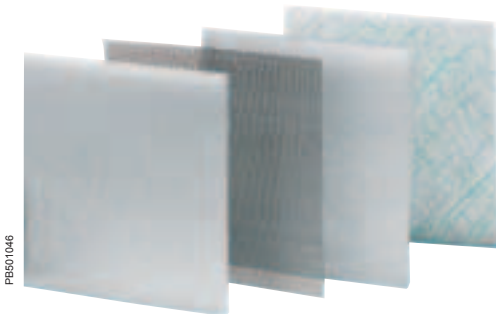
PB501055

RAL 7032

Replacement grilles in RAL 7032

- External part of the grille (for fan or outlet grille) for changing the colour to RAL 7032.

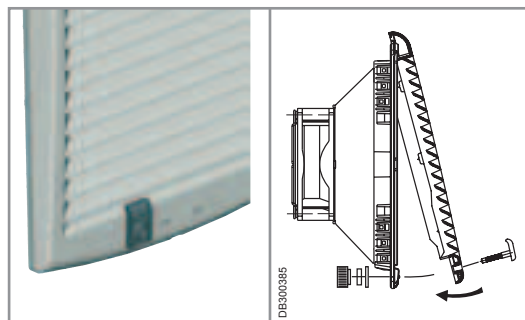
Dimensions (mm) Total (external)	IP	Reference RAL 7032
137 x 117 x 13	54	NSYCAG92LPC
170 x 150 x 15	54	NSYCAG125LPC
268 x 248 x 18	54	NSYCAG223LPC
336 x 316 x 18	54	NSYCAG291LPC



PB501046

Filters

Concept	For fans and grilles		Pack.	Reference
	External dimensions (mm)	Cut-out (mm)		
G2 M1 synthetic standard filters	137 x 117	92 x 92	5	NSYCAF92
	170 x 150	125 x 125	5	NSYCAF125
	268 x 248	223 x 223	5	NSYCAF223
	336 x 316	291 x 291	5	NSYCAF291
Filters for greasy environments G2 M1	170 x 150	125 x 125	5	NSYCAF125O
	268 x 248	223 x 223	5	NSYCAF223O
	336 x 316	291 x 291	5	NSYCAF291O
G3 M1 synthetic fine filters	170 x 150	125 x 125	5	NSYCAF125T
	268 x 248	223 x 223	5	NSYCAF223T
	336 x 316	291 x 291	5	NSYCAF291T
Stainless-steel anti-insect filters	137 x 117	92 x 92	1	NSYCAF92M
	170 x 150	125 x 125	1	NSYCAF125M
	268 x 248	223 x 223	1	NSYCAF223M
	336 x 316	291 x 291	1	NSYCAF291M



PB501056

DB300385

Anti-vandalism kit

- Prevents the grille from being opened from the outside.
- The unlocking thumbwheel is accessed from the inside of the wall-mounting enclosure.
- RAL 7011 colour (same material as the grille: ASA PC).

Minor packaging	Reference
2	NSYCAAPV



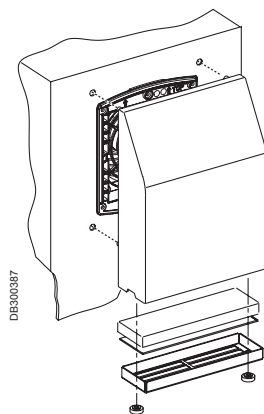
FB501057

Sealing cover IP 55

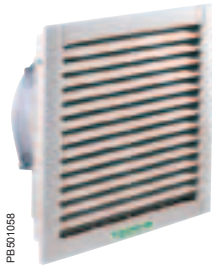
- This solution protects the fan or the grille from any direct sprays.
- 2 materials available:
 - Aluzinc for RAL 7035 outdoor applications.
 - Stainless steel 304 for food and beverage applications.
- Protection rating: IP 55.
- Resistance to mechanical impacts: IK 10.
- Double insulation maintained if installed in an insulated enclosure.
- UL certification.
- The cover is placed over the fan or the grille with a filter located at the bottom of the cover to prevent the entry of particles.
- Easy access to the filter: only two screws needed.
- When mounting: remove the external part of the fan or the grille as well as the filter.
- The cover is the preferred solution to guarantee the following:
 - An efficient air flow for cooling.
 - And true IP 55 rating.
- It is necessary to order 1 fan + 1 grille + 2 covers to have a complete system.

Flow rate (m³/h)* with cover		Dimensions (mm)		Cover reference		Spare filter for cover	Fan reference	Grille reference
Free	With 1 outlet grille	External	Cut-out	Aluzinc RAL 7035	Stainless steel 304	Minor pack. 5 p	RAL 7035	RAL 7035
74	53	240 x 180 x 60	125 x 125	NSYCAP125LZF	NSYCAP125LXF	NSYCAF125L55	NSYCVF85M230PF	NSYCAG125LPF
110	82	350 x 305 x 80	223 x 223	NSYCAP223LZF	NSYCAP223LXF	NSYCAF223L55	NSYCVF165M230PF	NSYCAG223LPF
165	123	350 x 305 x 80	223 x 223	NSYCAP223LZF	NSYCAP223LXF	NSYCAF223L55	NSYCVF300M230PF	NSYCAG223LPF
316	265	430 x 373 x 105	291 x 291	NSYCAP291LZF	NSYCAP291LXF	NSYCAF291L55	NSYCVF560M230PF	NSYCAG291LPF
502	430	430 x 373 x 105	291 x 291	NSYCAP291LZF	NSYCAP291LXF	NSYCAF291L55	NSYCVF850M230PF	NSYCAG291LPF

*The impact on the flow rates of the fans supplied with the other voltages is similar to those provided by the 230 V fans.



DB300387



IP 54 EMC Fan

To effectively protect the equipment against electromagnetic disruptions, the EMC fan is equipped with:

- A steel frame covering the plastic elements (self-extinguishing ABS according to standard UL94 V0).
- A metal grille attached to the frame.
- A beryllium gasket guaranteeing conductivity between the perimeter of the fan unit and the enclosure.

Dimensions (mm)		Flow rate (m³/h)	Voltage (V)	Reference
External	Cut-out			
150 x 150 x 36	125 x 125	56	230	NSY17990
250 x 250 x 36	223 x 223	130	230	NSY17991
325 x 325 x 36	291 x 291	460	230	NSY17992

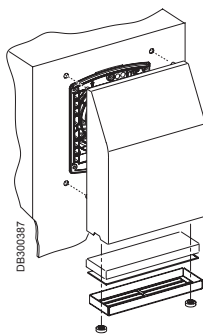


IP 54 EMC outlet grille

Grille equipped with:

- A steel frame covering the plastic elements (self-extinguishing ABS according to standard UL94 V0).
- A metal grille attached to the frame.
- A beryllium gasket guaranteeing conductivity between the perimeter of the grille and the enclosure.

Dimensions (mm)		Reference
External	Cut-out	
150 x 150 x 36	125 x 125	NSY17996
250 x 250 x 36	223 x 223	NSY17997
325 x 325 x 36	291 x 291	NSY17998



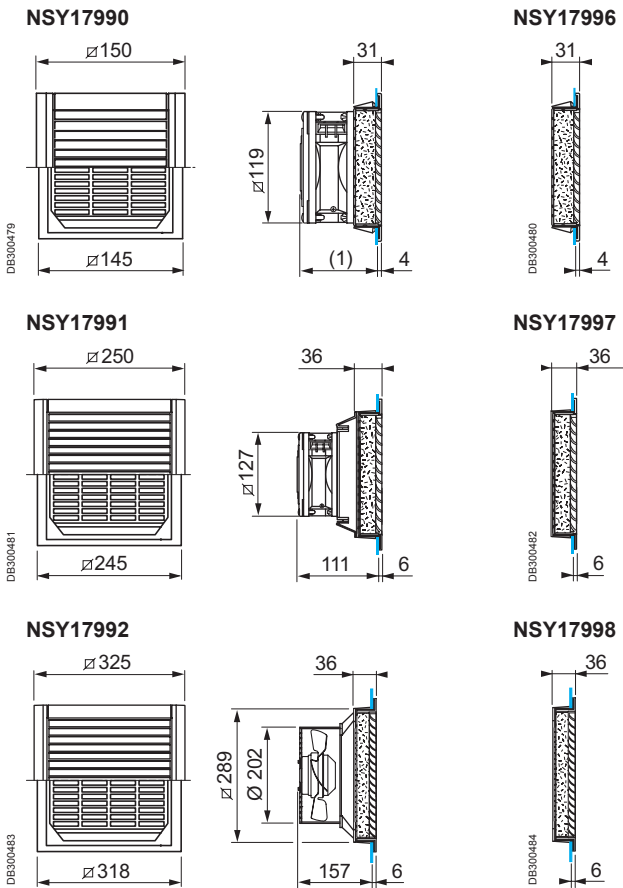
EMC cover IP 55

- This solution guarantees protection against electromagnetic disruptions and guarantees IP 55.
- The EMC cover is installed on the fans or standard IP 54 outlet grilles.
- The cover, made from aluzinc sheet steel, completely covers the fan or outlet grille.
- Conductivity is obtained by means of:
 - A conductive coating (2 Ω).
 - A conductive copper braid.
- Protection degree: IP 55.
- Resistance to mechanical impacts: IK 10.
- RAL 7035 grey.
- Absorption curve according to standard IEEE 299 1997 (UNE 50147-1).

Flow rate (m³/h)*		Dimensions (mm)		Cover ref.	Spare filter for cover	Fan reference	Grille reference
Free	With 1 outlet grille	External	Cut-out	Aluzinc RAL 7035	Minor pack. 5 p	RAL 7035	RAL 7035
74	53	240 x 180 x 60	125 x 125	NSYCAP125LE	NSYCAF125L55	NSYCVF85M230PF	NSYCAG125LPF
110	82	350 x 305 x 80	223 x 223	NSYCAP223LE	NSYCAF223L55	NSYCVF165M230PF	NSYCAG223LPF
165	123	350 x 305 x 80	223 x 223	NSYCAP223LE	NSYCAF223L55	NSYCVF300M230PF	NSYCAG223LPF
316	265	430 x 373 x 105	291 x 291	NSYCAP291LE	NSYCAF291L55	NSYCVF560M230PF	NSYCAG291LPF
502	430	430 x 373 x 105	291 x 291	NSYCAP291LE	NSYCAF291L55	NSYCVF850M230PF	NSYCAG291LPF

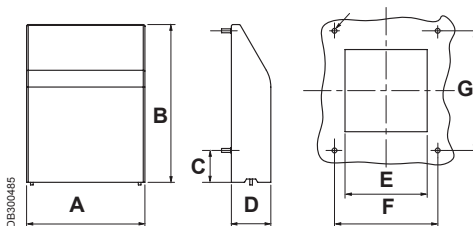
*The impact on the flow rates of the fans with different voltages is similar to the impact of the 230 V fans.

IP 55 EMC dimensions



Dimensions of IP 54 and EMC covers

Dimensions (mm)										
A	B	C	D	E	F	G	Nb. of fixing points	Cover reference		
								IP 54		CEM
180	240	49	60	125	157	182	4	NSYCAP125LZF	NSYCAP125LXF	NSYCAP125LE
305	350	61	80	223	283	280	8	NSYCAP223LZF	NSYCAP223LXF	NSYCAP223LE
373	430	73	105	291	351	348	8	NSYCAP291LZF	NSYCAP291LXF	NSYCAP291LE



Ventilation systems

Fans by components



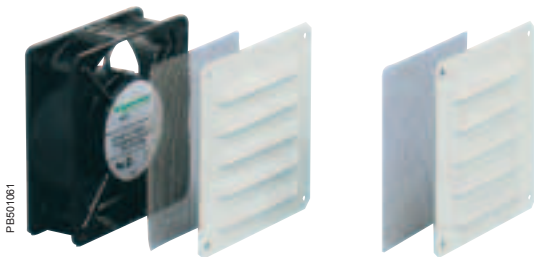
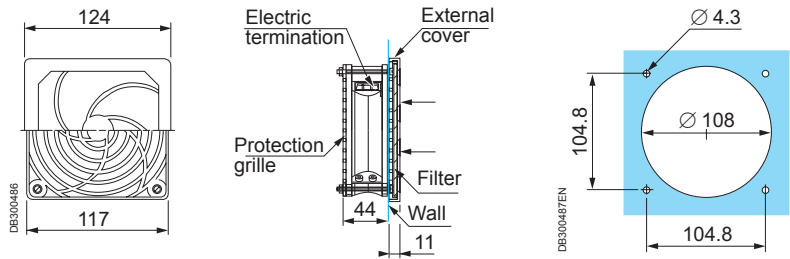
IP 20 fans

- Free flow without filter or grille: 170 m³/h.
- Two models according to the input voltage: 230 and 115 V, 50-60 Hz.
- Accessories: IP 20 outlet grille (ABS, black) and filter (black polyurethane foam).

Voltage (V)	Flow rate (m ³ /h)	Reference
115	65	NSYCVF65M115PF
230	65	NSYCVF65M230PF

Accessories

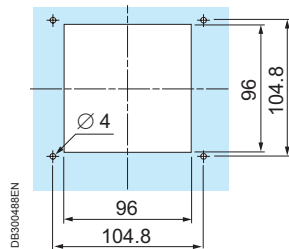
Dimensions (mm)	Description	Reference
124 x 124 x 11 mm	Outlet grille	NSYCAG108LP
-	Filter	NSYCAF108



IP 33 ventilation kit

- Ventilation kit comprised of:
 - one 120 x 120 x 38 mm fan, 230 V-50/60 Hz, free flow rate 170 m³/h, IP 33/IK 10.
 - two 120 x 120 mm metal louvres, RAL 7035.
 - two 115 x 98 mm anti-insect grilles, stainless-steel 304L wire Ø 0.32 mm braided, 1.07-mm meshes.
 - A power cord.
 - The fixings required for installation.
- Overall flow rate: 54 m³/h.
- Resistance to mechanical impacts: IK 10.

Voltage (V)	Flow rate (m ³ /h)	Reference
230	54	NSYCVF54M230MM2

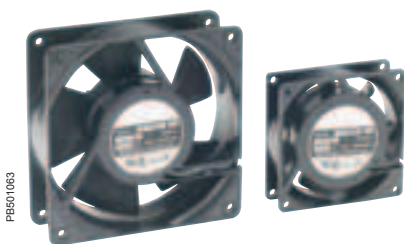


Top hood with fan

- Fan with hood, for floor-standing enclosures.
- Device delivered with fixings and connection terminal block.
- Electric power: 85 W.
- A flow rate of 350 m³/h is obtained with an outlet grille ref. NSYCAG291LPF, (cut-out 291 x 291 mm).
- Noise level: 64 dB (A).
- Installation and removal from the outside.

Flow rate* (m ³ /h)	Voltage (V)	Weight (kg)	Reference
570	115	5.8	NSYCVF570M115MF
575	230	5.8	NSYCVF575M230MF

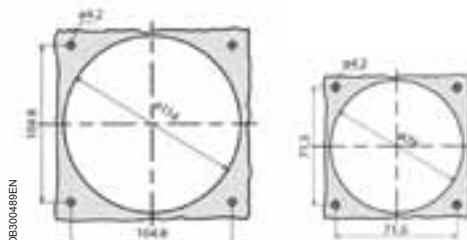
* Flow rate measured without counter-pressure.



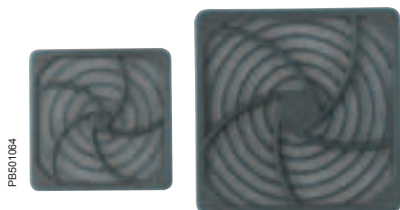
PB501083

Fan motor

- Turbine-type fan motor for ventilation/extraction.



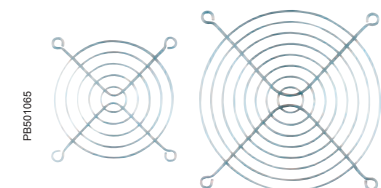
DB300489EN



PB501084

Outlet grilles

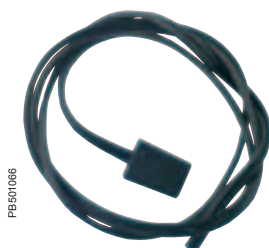
- Outlet filter kit for enclosure ventilation. For coupling to fans **NSYCVF156M●●●** and **NSYCVF35M●●●**.



PB501085

Rear protective grille

- Protective grille for enclosure fan motor. For coupling to fans **NSYCVF156M●●●** and **NSYCVF35M●●●**.



PB501086

Fan connection cable

- For coupling to the connection terminal of the fan motors.

Reference
NSYCVAC100

Fan motor reference	Flow rate (m³/h)	Voltage (V)	Absorbed power (W)	Noise level (dB)	External dimensions (mm)	Outlet grille reference	Protective grille reference
NSYCVF156M230	156	230/50-60	17/15	42	120 x 120 x 38	NSYCAG114LPF	NSYCVA114M
NSYCVF156M115	156	120/50-60	17/15	42	120 x 120 x 38	NSYCAG114LPF	NSYCVA114M
NSYCVF35M230	35	230/50-60	16/14	32	80 x 80 x 25	NSYCAG78LPF	NSYCVA78M
NSYCVF35M115	35	120/50-60	16/14	32	80 x 80 x 25	NSYCAG78LPF	



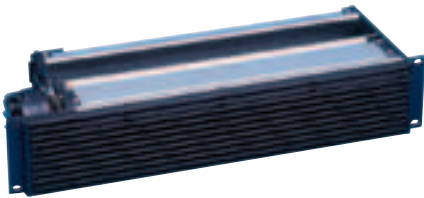
PE501067

Circulation fan

- User protection according to DIN 31001.
- Power: 17 W.
- Dimensions:
 - Fan: 119 x 119 x 38 mm.
 - Collar: length: 140 mm; fixing centre-to-centre distance: 130 mm.
- Installation on ball-bearing.

Flow rate (1) (m³/h)	Voltage (V)	Weight (kg)	dB (A)	Reference
170	115	0.82	41	NSYCVF170M115
170	230	0.82	41	NSYCVF170M230

(1) Free flow.



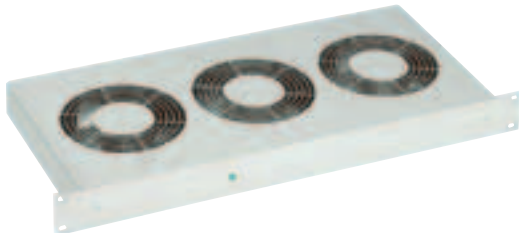
PE501068

Tangential fan, 19" 2 U

- Air is sucked in from the front, filtered and forced vertically through the equipment.
- Voltage: 230 V/50-60 Hz.
- Electric power: 37 W.
- Delivered without connection cord.

Flow rate (1) (m³/h)	Voltage (V)	Reference
300	230	NSYAVG2U300

(1) Flow rate measured without counter-pressure.



PE501069

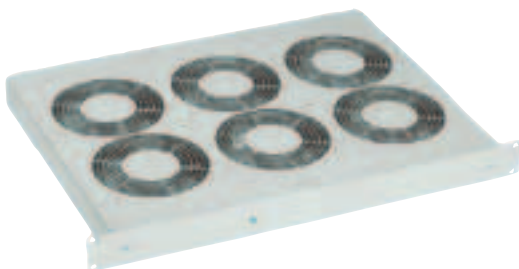
Circulation fan, 19" 1 U

- Increases the speed of upward air circulation, in particular between trays with cards.
- Frontal operation LED.
- Delivered without connection cord.
- It is advisable to install slides, ref. **NSYGB140** to guarantee optimal support of the fan.

Flow rate (1) (m³/h)	Voltage (V)	No.	Weight (kg)	Reference
486	230	3	3.3	
972	230	6	5.5	
1458	230	9	7.8	
552	48 (2)	3	3.3	

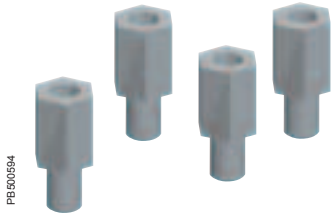
(1) Flow rate measured without counter-pressure.

(2) Direct current.



PE501070

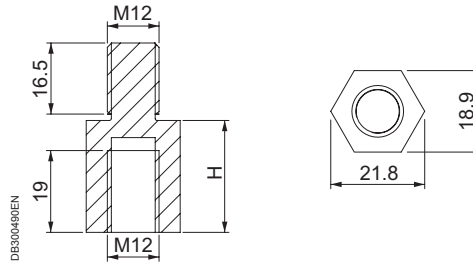
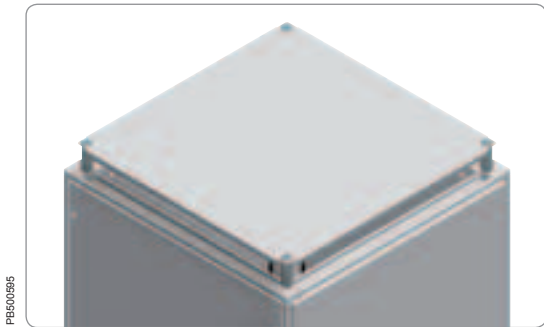
P (W)	I (mA)	dB (A)	Depth (mm)	Reference
45	300	43	208	NSYAVD1U480
90	600	44	330	NSYAVD1U970
135	900	45	452	NSYAVD1U1450
21.3	330	43	208	NSYAVD1U550M48



Roof elevators

- Allow the roof to be raised, providing natural airing.
- They are screwed onto the structure, at the roof fixing point.
- Material: zinc-coated steel.
- Supply: 4 elevators.

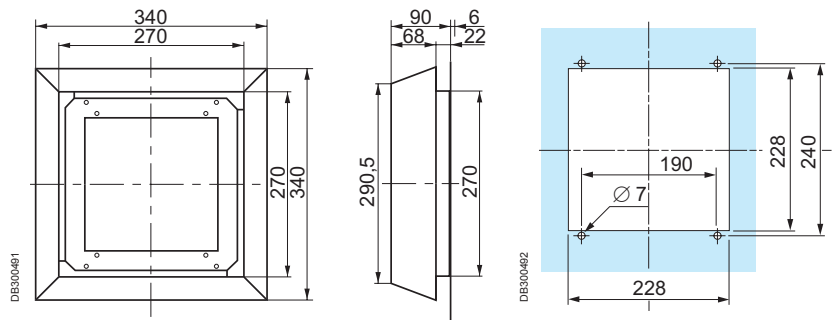
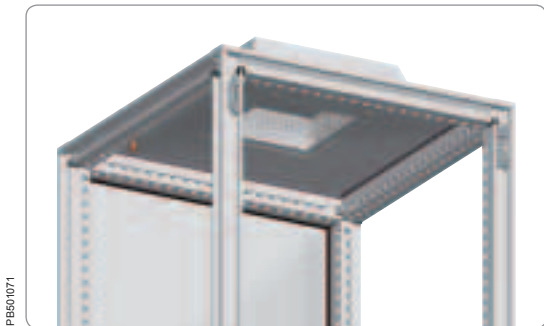
Top elevation (mm) (H)	Reference
26	NSYRE26
60	NSYRE60



Hood for natural airing, IP 54

- Natural airing device for coupling to the top of metal floor-standing enclosures.
- Solution for combining with the ventilation slots.
- Fixing to the top by means of caged nuts and special screws.
- Material: steel.
- Finish: painted with epoxy-polyester resin, textured RAL 7035 grey.
- Protection rating: IP 54.
- Weight: 4.6 kg.
- Supply: one hood for natural airing and fixing elements.

Reference
NSYCAC228RMF



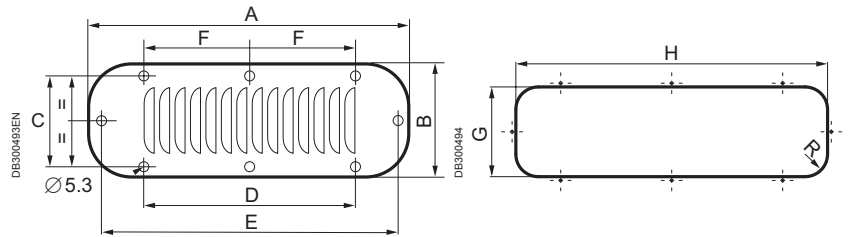
Spare filter

Reference
NSYCAF228R

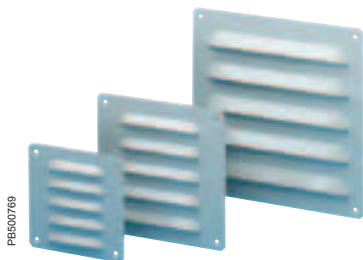


Metal louvre plate, rectangular

- Louvres designed to be installed on the sides of the enclosure.
- Fixing by screws.
- Material: steel.
- Finish: painted with epoxy-polyester resin, textured RAL 7035 grey.
- Supply: one metal louvre and fixing elements.
- Protection rating: IP 20.

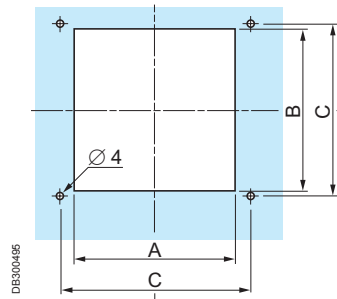


Dimensions (mm)									Reference
A	B	C	D	E	F	G	H	R	
144	62	36	110	-	-	110	46	10	NSYCAG110X46M
208	90	72	94	190	-	180	62	18	NSYCAG180X62M
244	90	72	130	226	-	216	62	18	NSYCAG216X62M
345	118	100	231	327	115.5	317	90.5	30	NSYCAG317X91M
345	148	130	231	327	115.5	317	120	30	NSYCAG317X120M
445	148	130	267	427	148.5	417	120	30	NSYCAG417X120M

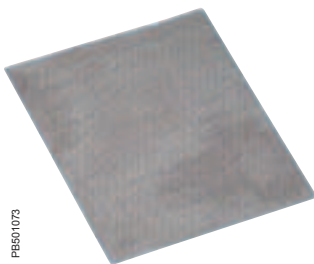


Metal louvre plate, square

- Supply: one metal louvre.
- Protection rating: IP 23.



Dimensions (mm)	A	B	C	Slot width	No. of slots	Reference
120 x 120	95	104	104.8	90	5	NSYCAG104X95LM
160 x 160	110	130	140	100	5	NSYCAG130X110LM
220 x 220	190	170	200	180	5	NSYCAG170X190LM



Anti-insect filters for metal louvre plate, square

- Installation is made between the enclosure and the metal louvre.
- Material: Stainless steel 304L Ø 0.32 mm wire mesh, of 1.07 mm, thickness 0.6 mm.
- Increases protection rating to IP 33.
- Weight: 0.8 kg/m².
- Supply: one anti-insect filter.

Louvre plate reference	External dimensions (mm)	Filter reference
NSYCAG104X95LM	98 x 115	NSYCAF104X95X
NSYCAG130X110LM	133 x 158	NSYCAF130X110X
NSYCAG170X190LM	197 x 215	NSYCAF170X190X



Plastic ventilation louvres

- Four models available according to IP rating, in vertical position.

References by unit. Order by multiples of 2 units (2, 4, 6, etc.).

cut-out Ø	IP	Reference
45.5 mm	22	NSYCAG45LP
35 mm	30/44 (1)	NSYCAG35LP
38 mm	45	NSYCAG38LP
33 mm	44	NSYCAG33LP
19 mm	45	NSYCAG19LP

(1) According to installation in the Thalassa enclosure.

Sealed anti-condensation valve

- Controls the pressure to avoid condensation following an internal temperature increase.
- Maintains IP 68.
- Material: PA6-V2, acrylic co-polymer membrane, water and oil repellent.
- Temperature of use: -40... +105 °C.

Cut-out Ø	Permeability (1)	Pressure difference (2)	Minor pack.	Reference
M12	16 litres/h	$\Delta P < 1$ bar	10	NSYCAG12LPH1
M12	120 litres/h	$\Delta P < 0.1$ bar	10	NSYCAG12LPH2

(1) Air flow under $\Delta P = 0.07$ bar.

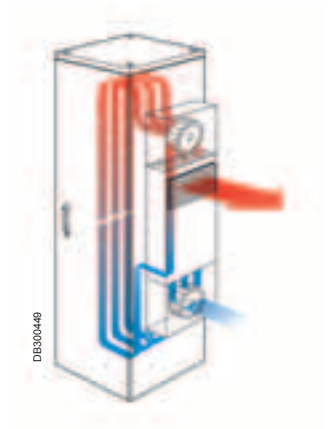
(2) Condition for IP 68.

Applications

- Protection of equipment for lighting, industrial control, rolling systems, pumps, etc.

Air-air exchanger

Introduction

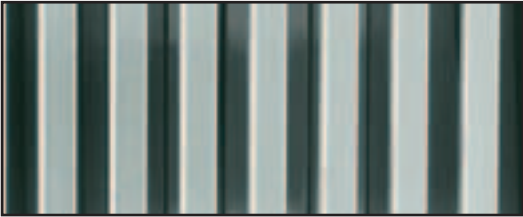


Complete range of solutions, meeting all requirements

- Available in two installation versions: top-mounting model or side-mounting model.
- Power from 15 W/°K to 70 W/°K .



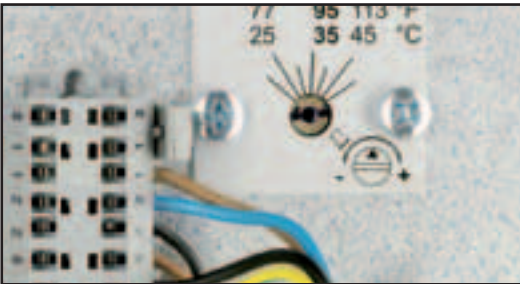
PB501085



Easy maintenance of the exchange cassette

- Easy access to the inside of the ventilation system allowing easier cleaning and maintenance.
- The special configuration of the exchange cassette makes it easier to clean. The space between the slats allows access to the inside aluminium walls for easy maintenance.

PB501086



Built-in thermostat

The exchangers are equipped as standard with an adjustable thermostat which controls the temperature inside the enclosure and which:

- Avoids the need to install an auxiliary thermostat.
 - Guarantees the correct reading of the temperature inside the enclosure.
- Temperature control range: +20...+50 °C.

PB501087



Without the need of filter

The air-air exchangers do not need to use any filters; they therefore require very little maintenance.

DB300455



Guaranteed sealing

The internal and external air circuits are independent. The assembly guarantees IP 54.

Two fans guarantee air circulation in each one of the circuits:

- Internal circuit fan:
It operates permanently and guarantees prevention against hot spots as well as improved thermal dissipation inside the enclosure.
- External circuit fan:
The internal thermostat controls the fan of the external circuit and starts it up when the internal temperature exceeds the maximum value displayed.



PB501088

Air circuits separation for very harsh environments

The specific configuration of the air-air exchangers is the ideal solution for cooling electric enclosures installed in highly polluted environments. It is advisable to use this type of device in cases where the ambient temperature is at least 5 °C lower than the desired internal temperature.

The exchanger is specially recommended in cases in which:

- The internal and external air circuits must be independent.
- The air inlet filters can be blocked by a large concentration of dust or greasy material in suspension.



PB501089



PB501090

Solution

The air-air exchanger is the ideal solution for cooling the inside of floor-standing enclosures installed in the following environments:

- Cement works.
- Ceramic factories.
- Workshops.
- Wastewater treatment plants.



PB501091

Installation tips

- Make the cut-outs in accordance with the indications of the cut-out template enclosed with the device.
- Make sure the devices are not damaged by external impacts.
- Do not install any cable ducts or devices against the opening of the enclosure since the air flow, and therefore the performance of the exchanger, could be affected.
- Do not obstruct, even partially, the air inlets and outlets. A minimum distance of 40 cm must be left between these openings and a wall or a partition.
- Install the side-mounting exchanger as high as possible to aspirate hot air and improve circulation.



PB501092

Air-air exchanger

Selection guide



Dimensions (mm)			Performance	Voltage	Assembly	Built-in thermostat	Reference
Height	Width	Depth					
700	270	144	15 W°K	230 V/50 Hz-60 Hz	Side	Yes	NSYCEA15W230VL
780	325	144	35 W°K	230 V/50 Hz-60 Hz	Side	Yes	NSYCEA35W230VL
780	325	144	35 W°K	230 V/50 Hz-60 Hz	Side	No	NSYCEA35W230VLE
1480	450	144	70 W°K	230 V/50 Hz-60 Hz	Side	Yes	NSYCEA70W230VL
340	600	360	50 W°K	230 V/50 Hz-60 Hz	Top	Yes	NSYCEA50W230VRE

Air-air exchanger

Side-mounting models



General characteristics

- Main components: thermostatic adjustment system, exchange cassette, circulation fans for internal and external circuits.
- The desired temperature inside the enclosure can be adjusted over a range of +25 ... +50 °C.
- The internal and external air circuits are completely separated (IP 54). Two fans guarantee air circulation in each of these circuits. The one on the internal circuit (which circulates the air inside the enclosure) is permanently on to avoid the appearance of hot spots in the electric circuits or components.
- The devices are delivered with a cut-out template, an instruction sheet and a sealing gasket to be placed between the exchanger and the enclosure.
- RAL 7035 grey.
- Voltages on demand with 400 V AC, three phase or single phase.

Conditions of use

- The exchangers can only be used if the outside temperature is at least 5 °C lower than the desired temperature inside the enclosure.
- The enclosure must be sealed to prevent the entry of external air: at least IP 54.

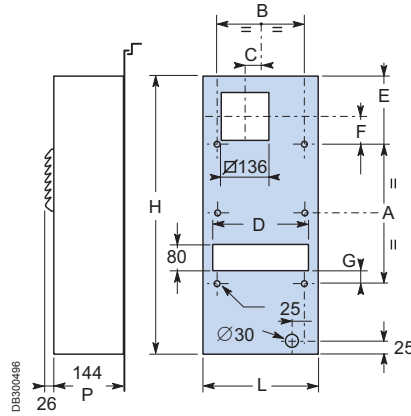
Reference				
	NSYCEA15W230VL	NSYCEA35W230VL	NSYCEA35W230VLE	NSYCEA70W230VL
Cooling characteristics				
Specific power (1)	15 W/°K	35 W/°K	35 W/°K	70 W/°K
Air flow of the external circuit	200 m³/h	450 m³/h	450 m³/h	450 m³/h
Air flow of the internal circuit	200 m³/h	450 m³/h	450 m³/h	450 m³/h
Exchange surface	1.23 m²	1.5 m²	1.5 m²	6.6 m²
Adjustment	Yes	Yes	No	Yes
Type	Thermostatic	Thermostatic	-	Thermostatic
Temperature setting range	+25...+50 °C	+25...+50 °C	-	+25...+50 °C
Nature of the fluid	Air	Air	Air	Air
Electric characteristics				
Input voltage	230 V - 50/60 Hz	230 V - 50/60 Hz	230 V - 50/60 Hz	230 V - 50/60 Hz
Starting/rated current	2.1/0.7 A	2.1/0.7 A	2.1/0.7 A	2.1/0.7 A
Electrical energy absorbed	150 W	150 W	150 W	150 W
Physical characteristics				
External dimensions A x B x C (mm)	700 x 270 x 144	780 x 325 x 144	780 x 325 x 144	1480 x 450 x 144
Internal IP / external IP	IP 54/IP 22	IP 54/IP 22	IP 54/IP 22	IP 54/IP 22
Weight of unit	12 kg	15 kg	15 kg	35 kg
Noise level	64 dB	64 dB	64 dB	64 dB

(1) The power in watts is obtained by multiplying the specific power by the difference between inside temperature and outside temperature.
 Example: for exchanger ref. **NSYCEA35W230VL** with Δ °C = 10°, the system power is 35 x 10 = 350 W.

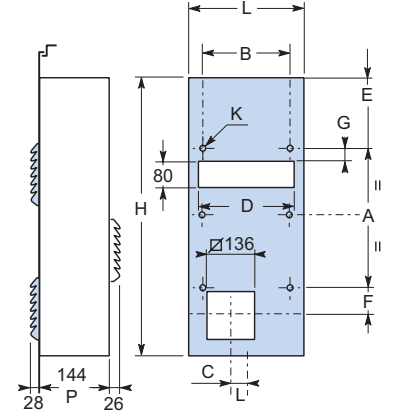
Air-air exchanger

Side-mounting models

External mounting



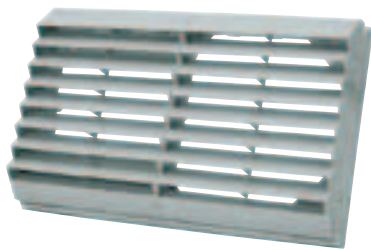
Internal mounting



Dimensions in mm	NSYCEA15W230VL	NSYCEA35W230●●●	NSYCEA70W230VL
A	366	413	1113
B	226	266	393
C	40	52	115
D	220	294	420
E	167	183.5	183.5
F	82	77.5	77.5
G	13	35.5	35.5
H	700	780	1480
K	4 x 8 Ø	4 x 8 Ø	6 x 8 Ø
L	270	325	450

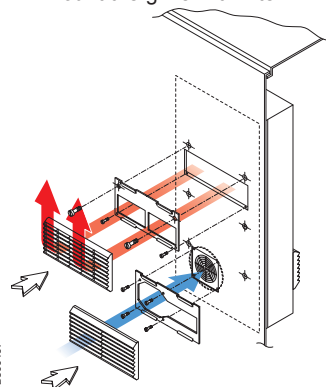
Accessories for internal mounting of the exchanger

- Installation principle of the filter-holder grilles when installing a side-mounting exchanger inside the enclosure.
- Filter ref. **NSYCEAF**.
- To be ordered in multiples of 24 filters.



For exchanger	Grille reference
NSYCEA15W230VL	NSYCEA15WG
NSYCEA35W230●●●	NSYCEA35WG
NSYCEA70W230VL	NSYCEA70WG

- Tips for installing the exchanger on the inside:
 - Place the top of the exchanger at the bottom and then turn it upside down. See diagram.
 - Change the thermostat connection.
 - Mount the grille with filter.



Installation (internal mounting)

PB501097

PB501089

DB300487

Air-air exchanger

Top-mounting model



NSYCEA50W230VRE

General characteristics

- Main components: thermostatic adjustment system, exchange cassette, circulation fans for internal and external circuits.
- The desired temperature inside the enclosure can be adjusted over a range of +25 ...+50 °C.
- The internal and external air circuits are completely separated (IP 54). Two fans guarantee air circulation in each of these circuits. The one on the internal circuit (which circulates the air inside the enclosure) is permanently on to avoid the appearance of hot spots in the electric circuits or components.
- The devices are delivered with a cut-out template, an instruction sheet and a sealing gasket to be placed between the exchanger and the enclosure.
- RAL 7035 grey.
- Voltages on demand with 400 V AC, three phase or single phase.

Conditions of use

- The exchangers can only be used if the outside temperature is at least 5 °C lower than the desired temperature inside the enclosure.
- The enclosure must be sealed to prevent the entry of external air.

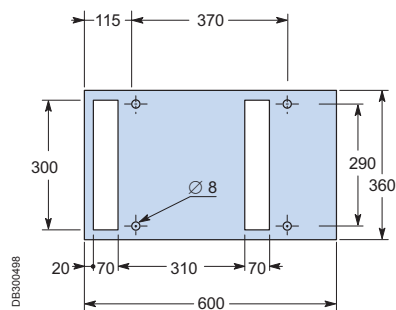
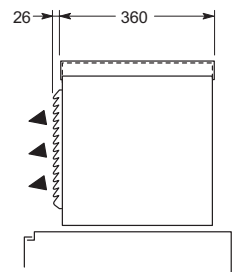
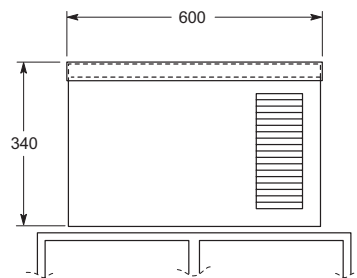
Reference	NSYCEA50W230VRE
Cooling characteristics	
Specific power (1)	50 W/°K
Air flow of the external circuit	450 m ³ /h
Air flow of the internal circuit	450 m ³ /h
Exchange surface	3.3 m ²
Adjustment	Yes
Type	Thermostatic
Temperature setting range	+20...+50 °C
Nature of the fluid	Air
Electric characteristics	
Input voltage	230 V - 50/60 Hz
Starting/rated current	2.1/0.7 A
Electrical energy absorbed	150 W
Physical characteristics	
External dimensions A x B x C (mm)	390 x 600 x 365
Internal IP / external IP	IP 54/IP 22
Weight of unit	19 kg
Noise level	64 dB

(1) The power in watts is obtained by multiplying the specific power by the difference between inside temperature and outside temperature.

Air-air exchanger

Dimensions

Top-mounting model



Air-water exchanger

Introduction



Side-mounting or top-mounting model.

Available in two installation versions: top-mounting model or side-mounting model.



PE601101



Easy maintenance

Easy and practical installation and removal. Easy access to the exchange battery allows for easier cleaning. The principle of the air-water exchanger does not require inlet filters, thus reducing maintenance.

PE601102



Internal temperature control

The exchangers are equipped as standard with an adjustment thermostat that controls the temperature inside the enclosure. It avoids the need to install an auxiliary control thermostat and guarantees a precise reading of the temperature inside the enclosure. Temperature control range: +20...+50 °C.

PE601103



Guaranteed sealing

- Guaranteed protection rating: IP 54.
- The fan runs permanently to maintain an even temperature inside the enclosure and prevent the appearance of hot spots.

PE601104



ANTI-LEAK system

Maximum safety

- The thermostat controls the water inlet electro-valve and regulates the temperature. The risk of condensation is therefore very low.
- In cases of a loss in the circuit, the detection system automatically closes the water inlet.

Air-water exchanger

Applications



- Minimum maintenance in very difficult environments.
- The air-water exchanger is recommended even when the ambient temperature is higher than the desired internal temperature.
- It is particularly suitable for highly polluted environments since it fully prevents the entrance of outside air.
- The heat produced by the components is evacuated to the outside of the workshop.

Examples: printing presses, paper plants, chemical factories, etc.



Installation tips

- Make the cut-outs in accordance with the indications of the cut-out template delivered with the device.
- Make sure the devices are not damaged by external impacts.
- Do not install any cable ducts or devices against the openings of the enclosure since the air flow, and therefore the performance of the exchanger, would be reduced.
- Interrupt the operation of the exchanger when the door of the enclosure is open.
- Make sure there is a water source near the electric enclosure with stable temperature and flow rate (cold-water supply and evacuation of reheated water).



Air-water exchanger

Selection guide



Dimensions (mm)			Cooling power L 35/W 10/200 W	Voltage	Assembly	Reference
Height	Width	Depth				
830	360	113	2100 W	230 V/50 Hz-60 Hz	Side	NSYCEW2100W230VL
950	400	190	3150 W	230 V/50 Hz-60 Hz	Side	NSYCEW3150W230VL
310	600	365	2100 W	230 V/50 Hz-60 Hz	Top	NSYCEW2100W230VR

Air-water exchanger

Side and top-mounting models



General characteristics

- Main components: thermostatic adjustment system, exchange cassette, fans for the internal circuit of the enclosure, safety device against possible leaks.
- The desired temperature inside the enclosure can be adjusted over a range of +25...+50 °C.
- The alarm which detects an interruption in the water circuit is activated by closing a switch. This can be used to activate a light or a siren, connected to the input of an automation device. The water supply is automatically cut.
- System for evacuating condensation water to the outside.
- RAL 7035 grey.

Conditions of use

- Air-water exchangers can be used even when the outside temperature is higher than the desired temperature inside the enclosure.
- The enclosure must be sealed to prevent the entry of external air: at least IP 54.

	Reference		
	NSYCEW2100W230VR (top)	NSYCEW2100W230VL (side)	NSYCEW3150W230VL (side)
Cooling characteristics			
Specific power A 35 W 10-200 l/h	2100 W	2100 W	3150 W
Maximum water pressure	1 MPa	1 MPa	1 MPa
Air flow of the external circuit	250 m ³ /h	350 m ³ /h	820 m ³ /h
Adjustment	Yes	Yes	Yes
Type	Thermostatic	Thermostatic	Thermostatic
Temperature setting range	+25...+50 °C	+25...+50 °C	+8...+50 °C
Nature of the fluid	Water	Water	Water
Electric characteristics			
Input voltage	230 V - 50/60 Hz	230 V - 50/60 Hz	230 V - 50/60 Hz
Starting/rated current	1/0.5 A	1/0.5 A	1.3/1.7 A
Electrical energy absorbed	90 W	90 W	295 W/385 W
Type of switching alarm	Inverter contact	Inverter contact	Inverter contact
Physical characteristics			
External dimensions A x B x C (mm)	310 x 600 x 365	830 x 360 x 113	950 x 400 x 190
IP-DIN 40050	IP 54	IP 54	IP 55
Weight of unit	26 kg	19 kg	21 kg
Noise level	64 dB (A)	62 dB (A)	54 dB (A)

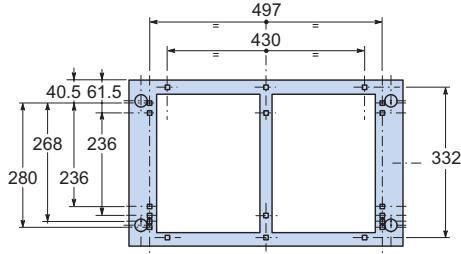
Air-water exchanger

Dimensions

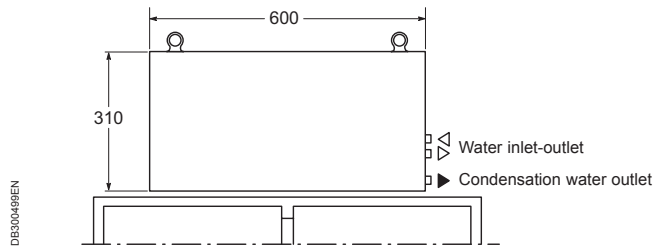
Supplies:

- Cut-out template.
- Mounting accessories.
- Installation and operation instructions.

Top-mounting model



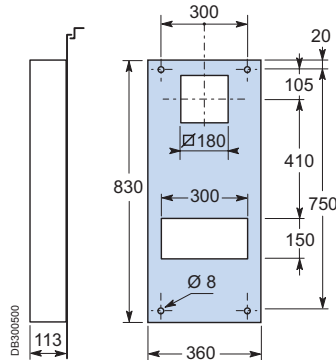
Front view of the enclosure



Side-mounting model

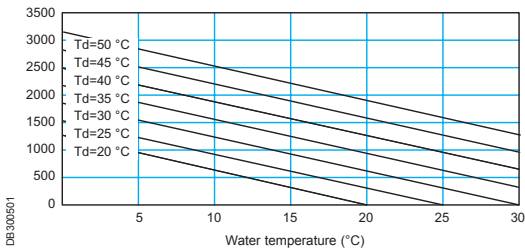
Supplies:

- Cut-out template.
- Mounting accessories.
- Installation and operation instructions.
- Installation inside or outside the enclosure.



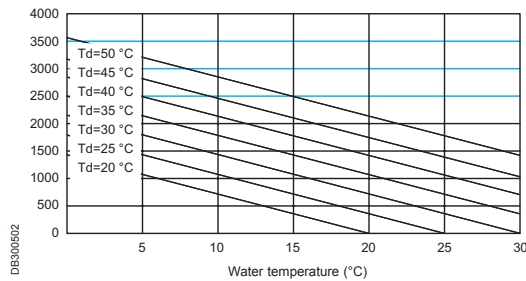
Curves

Power exchanged by the exchangers for a water flow of 100 l/h.



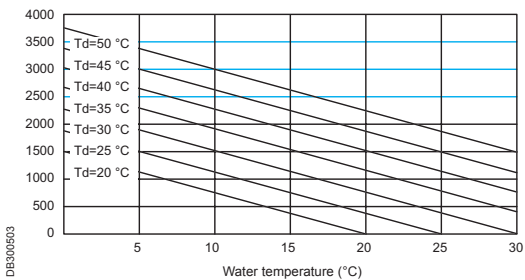
DB300501

Power exchanged by the exchangers for a water flow of 200 l/h.



DB300502

Power exchanged by the exchangers for a water flow of 300 l/h.



DB300503

Example: For a water flow of 100 l/h at 15 °C with a desired temperature of 35 °C.
Power = 1400 W.

Cooling unit with mechanical control

Introduction



Complete range of solutions, meeting all requirements

- Available in two installation versions: top/side mounting or partial flush model.
- The power of the cooling units with mechanical control ranges from 240 W to 4000 W. This means you will find the equipment that best meets your needs.
- Easy and practical installation and removal.



55 °C

Withstands extreme environments

- Equipped with high-pressure compressors, the cooling units guarantee an optimum operation with temperatures of up to 55 °C.

Guaranteed sealing

The internal and external air circuits are completely separated and maintain the protecting rating of IP 54.

Two fans guarantee air circulation in each one of the circuits:

- **Fan on the internal circuit**
It operates permanently and guarantees prevention against hot spots as well as improved thermal dissipation inside the enclosure. In addition, it provides a correct reading of the temperature inside the enclosure thanks to the thermostat setting.
- **Fan on the external circuit**
The internal thermostat controls the fan and starts it up when the internal temperature exceeds the maximum value displayed.

Very high efficiency: The best is in the inside

The internal components have been chosen for maximum efficiency and performance.



Cooling unit with mechanical control

Introduction



PB501102

Built-in thermostat

The cooling units are equipped with an adjustable thermostat which controls the temperature inside the enclosure:

- It avoids the installation of an auxiliary control thermostat.
- It guarantees the exact reading of the temperature inside the enclosure.
Temperature control range: +20...+50 °C (pre-set and recommended temperature of 35 °C).



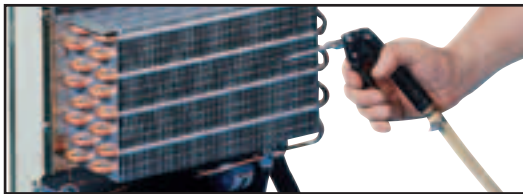
PB501114

Automatic evaporation system (top mounting)

- The top-mounting models are additionally equipped with a device for evaporating and controlling the condensation water level which causes the machine to halt or triggers the alarm if the level is exceeded.
- They also have an exclusive evacuation system for draining the water stored in the condensation tray.

Maximum safety

- They are equipped as standard with an automatically reset pressostat, which, when it detects a value greater than the safe pressure value, stops the compressor and the external fan.
- In the event of a breakdown, a relay triggers an alarm and halts the operation of the cooling unit.



PB501101

Easy maintenance

- Easy access to the condenser allows easier cleaning by blowing.
- The high-pressure compressor and the external fan can be maintained without removing the unit.



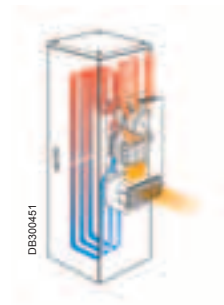
**ENVIRONMENTALLY
FRIENDLY**

Environmentally friendly

- Respect for the environment.
- Use of ecological gas R134a (HFC).

Cooling unit with electronic control

Introduction

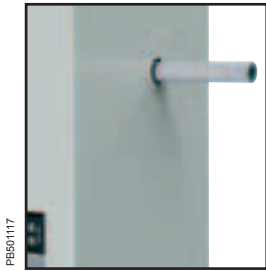


Complete range of solutions, meeting all requirements

- Available in two installation versions: top-mounting model or side-mounting model.
- The power of the cooling units with electronic control ranges from 1100 W to 1800 W (the SLIM range offers powers of 1100 W to 2700 W).
This means you will find the equipment that best meets your needs.

Cooling unit with electronic control

Introduction



PB501117



PB501118

Easy installation

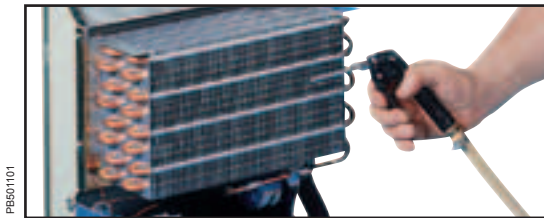
Easy and practical installation and removal

The side-mounting models have an exclusive quick-installation system:

- Two retractable handles allow them to be installed instantly by a single person.
- The quick-fixing device with no screws simplifies the installation on the enclosure and guarantees a protection rating of IP 54.
- The electrical connection is made by means of the supplied removable connectors.

A single cut-out dimension

One single machining size, regardless of the power of the side-mounting cooling unit.



PB501101

Easy maintenance

Easy access to the inside of the device allows easier cleaning and maintenance. Thanks to its design, no filter needs to be used in most applications. Nevertheless, in especially polluted environments, it is advisable to install a filter on the external air circuit.

The design of the aluminium slats of the condenser allow for easier, less-frequent maintenance.



PB501113

Guaranteed sealing

The internal and external air circuits are completely separated and maintain the enclosure's protection rating of IP 54.

Two fans guarantee air circulation inside each of the circuits:

- **Fan on the internal circuit**
It operates permanently and guarantees prevention against hot spots as well as improved thermal dissipation inside the enclosure.
- **Fan on the external circuit**
The internal thermostat controls the fan and starts it up when the internal temperature exceeds the maximum value displayed.

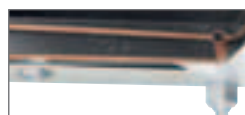


PB501119

Electronic temperature control

Electronic control allows:

- Precise control of the temperature setting:
 - Switches on the compressor with setting temperature +1 °C.
 - Switches off the compressor with setting temperature -5 °C.
- Door switch management,
- Alarm management,
- Alarm reset,
- Control of the operating and stand-by times of the compressor.



PB501114

Automatic evaporation system

All the models are equipped with a system for automatically evaporating condensation.



ENVIRONMENTALLY FRIENDLY

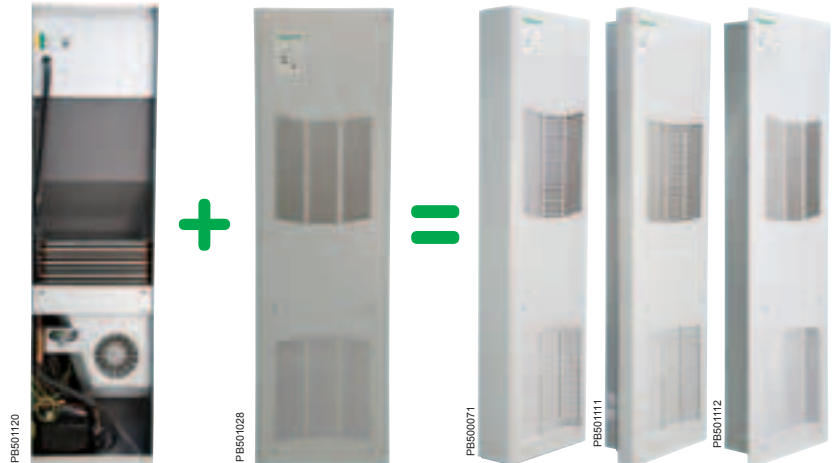
Environmentally friendly

- Respect for the environment.
- Use of ecological gas R134a (HFC).

Cooling unit

SLIM electronic control

SLIM for perfect integration



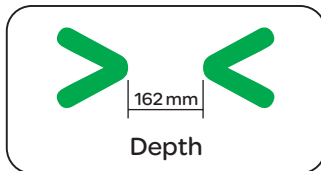
1 bloc:

- 4 power levels
- 3 voltage levels

1 cover:

- Flush
- Partial-flush
- Surface

66 models, from 1100 to 2700 W, 115 to 460 V, flush mounting, partial-flush mounting or surface mounting, with or without electronic display, IP 55, UL compliant.



Minimum depth

All the models of the SLIM range have a depth of 162 mm to maximise the volume inside the enclosure.

Modular system

- There are 66 possible combinations with only 17 catalogue references.
- Three different installation types are possible with the same air-conditioning unit (surface, partial flush and flush).

Power ranges

1100 W, 1500 W, 2200 W and 2700 W.

Versions

- RAL 7035 and stainless steel.
- Option to provide other colours on demand.

Internal IP 55

The SLIM range is supplied as standard with an expanded polyurethane gasket, ensuring optimum sealing with IP 55 throughout the enclosure.



PB501121

Cooling unit

SLIM electronic control



UL/UR certification

UL certification awarded for the entire SLIM range.

The best is inside

The best material has been selected to offer maximum reliability and durability. The compressors, and the fans as well as the rest of the components are top quality.

Electronic regulation as standard

- Programmed to control the enclosure temperature of 35 °C. This temperature should be enough to protect the electrical and electronic equipment installed in the enclosure.
- Supplied with an electronic thermostat to provide greater reliability and precision for the cooling unit.
- Electronic display as option for reading and controlling the temperature setting, ref. **NSYCUAY**.

55 °C

High resistance to outside ambient temperatures of up to 55 °C

The high-quality compressors used allow work to be performed in areas with extreme temperatures of up to 55 °C.



**ENVIRONMENTALLY
FRIENDLY**

Cooling fluid used: R134a (HFC)

This is a gas that respects the ozone layer.

Easy opening and closing of the covers

The cover of the cooling unit is released by simply unscrewing two screws. This saves time and facilitates maintenance tasks.



Easy maintenance

- Internal details such as the space between the aluminium plates enable easier access during the cleaning process.
- The inside can be accessed by removing only two screws.

Cooling unit

Selection guide



Side-mounting models

External dimensions (mm)	Cooling power EN 14511 L35 - L35 (50 Hz)	Input voltage Vol-Hz	Control	Reference
450 x 350 x 140	240 W (819 Btu/h)	230 V - 50/60 Hz	Thermostat	NSYCU240W230VL
620 x 300 x 170	370 W (1263 Btu/h)	230 V - 50/60 Hz	Thermostat	NSYCU370W230VL
800 x 350 x 195	760 W (2594 Btu/h)	230 V - 50/60 Hz	Thermostat	NSYCU760W230VL
900 x 400 x 195	1050 W (3584 Btu/h)	230 V - 50/60 Hz	Thermostat	NSYCU1050W230VL
1010 x 400 x 240	1100 W (3755 Btu/h)	230 V - 50/60 Hz	Electronic controller	NSYCUE1100W230L
1010 x 400 x 240	1400 W (4780 Btu/h)	230 V - 50/60 Hz	Electronic controller	NSYCUE1400W230L
1010 x 400 x 240	1400 W (4780 Btu/h)	3 x 400 V 50 Hz / 440 V 60 Hz	Electronic controller	NSYCUE1400W400L
1000 x 400 x 220	1650 W (5631 Btu/h)	230 V - 50/60 Hz	Thermostat	NSYCU1650W230VL
1000 x 400 x 220	1800 W (6143 Btu/h)	3 x 400 V 50 Hz / 440 V 60 Hz	Thermostat	NSYCU1800W400VL
1010 x 400 x 240	1800 W (6145 Btu/h)	3 x 400 V 50 Hz / 440 V 60 Hz	Electronic controller	NSYCUE1800W400L
1406 x 502 x 300	2500 W (8533 Btu/h)	3 x 400 V 50 Hz / 440 V 60 Hz	Thermostat	NSYCU2500W400VL
1406 x 502 x 300	4000 W (13652 Btu/h)	3 x 400 V 50 Hz / 440 V 60 Hz	Thermostat	NSYCU4000W400VL



Top-mounting models

External dimensions (mm)	Cooling power EN 14511 L35 - L35 (50 Hz)	Input voltage Vol-Hz	Control	Reference
340 x 600 x 350	760 W (2594 Btu/h)	230 V - 50/60 Hz	Thermostat	NSYCU760W230VR
400 x 700 x 400	1050 W (3584 Btu/h)	230 V - 50/60 Hz	Thermostat	NSYCU1050W230VR
415 x 750 x 412	1400 W (4780 Btu/h)	230 V - 50/60 Hz	Electronic controller	NSYCUE1400W230R
400 x 700 x 400	1460 W (4983 Btu/h)	230 V - 50/60 Hz	Thermostat	NSYCU1460W230VR
430 x 700 x 400	1650 W (5631 Btu/h)	230 V - 50/60 Hz	Thermostat	NSYCU1650W230VR
415 x 750 x 412	1800 W (6145 Btu/h)	3 x 400 V 50 Hz / 440 V 60 Hz	Electronic controller	NSYCUE1800W400R
430 x 700 x 400	2000 W (6826 Btu/h)	3 x 400 V 50 Hz / 440 V 60 Hz	Thermostat	NSYCU2000W400VR
470 x 800 x 450	2450 W (8362 Btu/h)	3 x 400 V 50 Hz / 440 V 60 Hz	Thermostat	NSYCU2450W400VR
470 x 800 x 450	3100 W (10580 Btu/h)	3 x 400 V 50 Hz / 440 V 60 Hz	Thermostat	NSYCU3100W400VR



SLIM electronic control models (modular)

- Flush mounting.
- Partial-flush mounting.
- Surface mounting.

	Power	1,100 W	1,500 W	2,200 W	2,700 W
Cooling unit block	230 V	NSYCUB1100W230S	NSYCUB1500W230S	NSYCUB2200W230S	NSYCUB2700W230S
	400-460 V (50-60 Hz)	NSYCUB1100W400S	NSYCUB1500W400S	NSYCUB2200W400S	NSYCUB2700W400S
	115 V	NSYCUB1100W115S	NSYCUB1500W115S	NSYCUB2200W115S	
Covers	Side-mounting type				
RAL 7035	Surface-mounting	NSYCUCL			
	Partial flush-mounting	NSYCUCH			
	Flush-mounting	NSYCUCF			
Stainless-steel	Surface-mounting	NSYCUCLX			
	Partial flush-mounting	NSYCUCHX			
	Flush-mounting	NSYCUCFX			



Modular version: Always order one SLIM cooling unit reference plus one cover reference.

Cooling unit

Mechanical control



PB501122

NSYCU760W230VL

Side-mounting

Cooling units for electrical switchboards

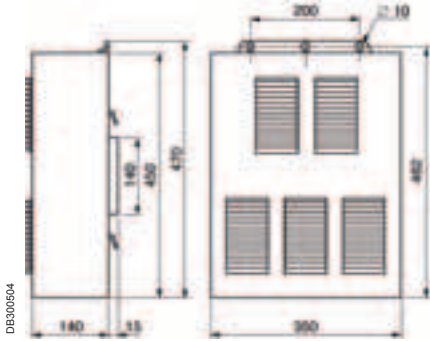
- Respect for the environment by using environmentally friendly gas R134a (HFC).
- Cooling power from 240 W to 4000 W.
- Option of partial-flush mounting for certain models.

General characteristics

- The temperature setting can be adjusted from +20 to +50 °C.
- They are equipped as standard with an automatically reset pressure gauge and a switching thermostat which, when it detects a value greater than the safe pressure value, interrupts the compressor and the external fan.
- The internal and external air circuits are independent. A protection rating of IP 54 is guaranteed between the outside and the inside of the enclosure.
- The fan of the internal circuit permanently guarantees prevention against hot spots as well as improved thermal dissipation inside the enclosure.
- The devices are equipped with switches for reporting an alarm.
- Cooling power from 240 W to 4000 W.
- RAL 7035 colour for the standard offer.
- Units in RAL 7032 as option, please contact us.
- Stainless-steel version and other voltages on demand.

Reference	NSYCU240W230VL	NSYCU370W230VL	NSYCU760W230VL
Voltage	230 V, 50/60 Hz		
Cooling power (50/60 Hz) according to EN 14511 L35-L35 L35-L50	240 W (819 Btu/h) 190 W (649 Btu/h)	370/390 W (1,263/1,331 Btu/h) 300/310 W (1,024/1,058 Btu/h)	760/810 W (2,594/2,765 Btu/h) 610/640 W (2,082/2,184 Btu/h)
Dimensions			
Height	450 mm	620 mm	800 mm
Width	350 mm	300 mm	350 mm
Depth	140 mm + (15 mm internal)	170 mm	195 mm
Intensity			
Starting current	2.8 A	5.8/6.7 A	7.7/8.8 A
Rated current	0.7 A	1.5/1.8 A	2.0/2.3 A
Power consumption absorbed L35-L35 L35-L50	140 W 160 W	290/330 W 330/380 W	380/440 W 440/500W
Energy efficiency ratio (EER) L35-L35	1.7	1.3/1.2	2.0/1.8
Control type	Thermostat		
Temperature setting range	+20...+45 °C	+20...+50 °C	
Maximum outside temperature	50 °C	55 °C	
Noise level	58 dB (A)	65 dB (A)	67 dB (A)
Air flow of the internal circuit of the external circuit	160 m³/h 320 m³/h	160/175 m³/h 210/230 m³/h	350/385 m³/h 350/385 m³/h
Alarm type	Inverter contact		
Weight of unit	15 kg	21 kg	33 kg
Cooling gas type	R134a (0.25 kg)	R134a (0.3 kg)	R134a (0.5 kg)
IP (IEC 60529) On the internal circuit On the external circuit		54 34	
External circuit filter	Option	Yes	
Assembly		Side	
Thermal protection recommended (fuse melt curve)	T1.6A	T3A	T3A

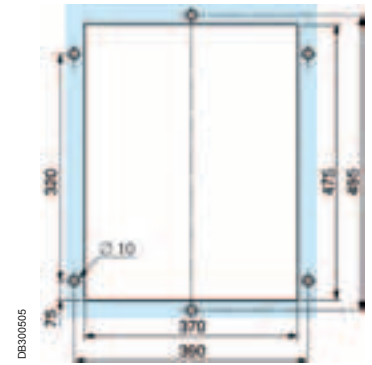
NSYCU240W230VL: dimensions and cut-outs



Reference NSYCU240W230VL

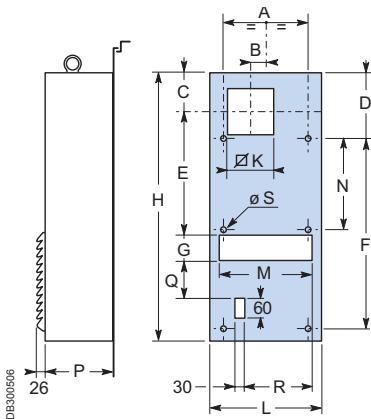


External mounting



Partial-flush mounting

NSYCU370W230VL and NSYCU760W230VL: cut-out

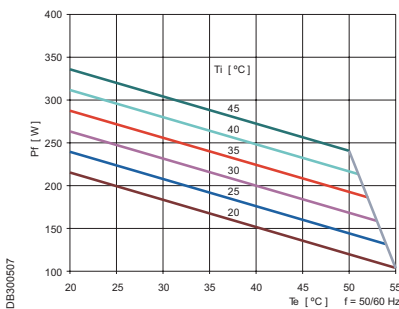


Reference NSYCU370W230VL and NSYCU760W230VL

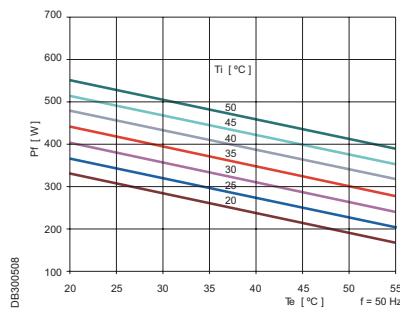
Dimensions in mm	NSYCU370W230VL	NSYCU760W230VL
A	260	266
B	0	52
C	80	116
D	40	193.5
E	300	375
F	540	413
G	60	80
H	620	800
K	136	136
L	300	350
M	240	294
N	-	-
P	170	195
Q	35	149
R	0	24
S	8	8

Curves

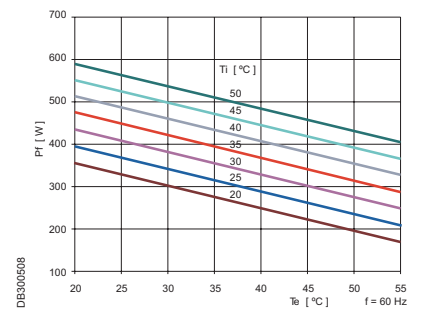
NSYCU240W230VL



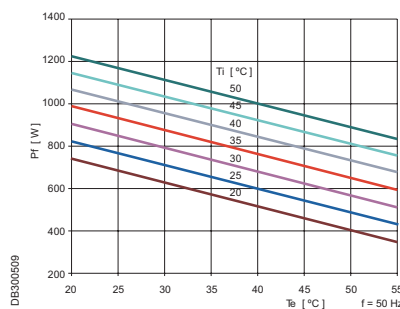
NSYCU370W230VL 50 Hz



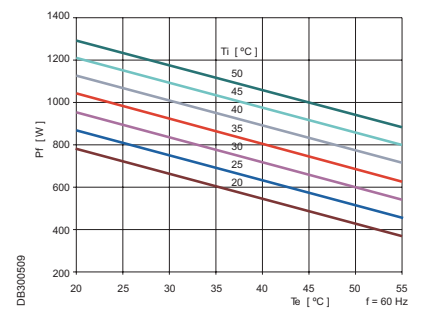
NSYCU370W230VL 60 Hz



NSYCU760W230VL 50 Hz



NSYCU760W230VL 60 Hz



Cooling unit

Mechanical control



PEB01124

NSYCU1650W230VL

Side-mounting

Cooling units for electrical switchboards

- Respect for the environment by using environmentally friendly gas R134a (HFC).
- Cooling power from 240 W to 4000 W.

General characteristics

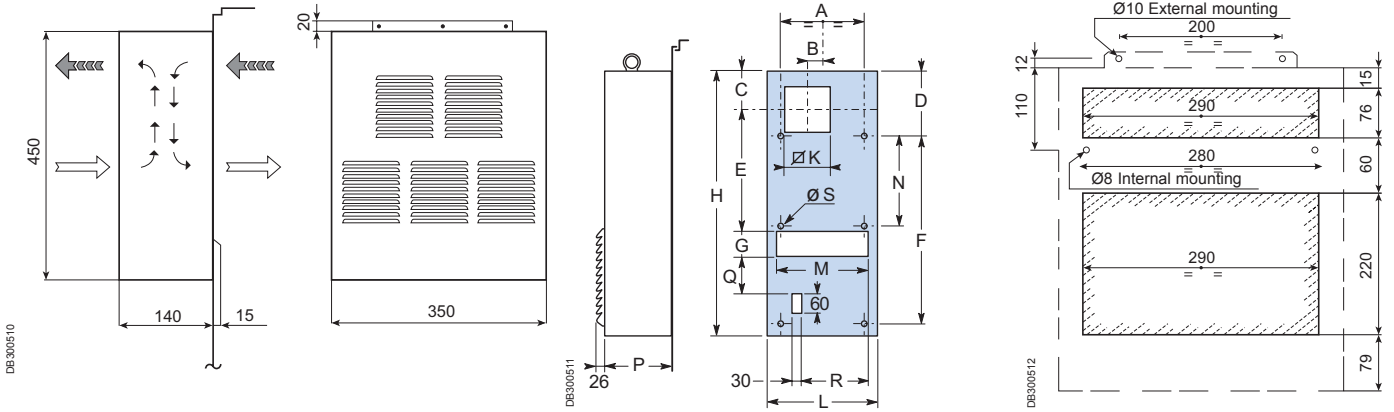
- The temperature setting can be adjusted from +20 to +50 °C.
- They are equipped as standard with an automatically reset pressure gauge and a switching thermostat which, when it detects a value greater than the safe pressure value, stops the compressor and the external fan.
- The internal and external air circuits are independent. A protection rating of IP 54 is guaranteed between the outside and the inside of the enclosure.
- The fan of the internal circuit permanently guarantees prevention against hot spots as well as improved thermal dissipation inside the enclosure.
- The devices are equipped with switches for reporting an alarm.
- Cooling power from 240 W to 4000 W.
- RAL 7035 colour for the standard offer.
- Units in RAL 7032 as option, please contact us.
- Stainless-steel version and other voltages on demand.

Reference	NSYCU1050W230VL	NSYCU1650W230VL
Voltage	230 V; 50/60 Hz	
Cooling power (50/60 Hz) according to EN 14511 L35-L35 L35-L50	1050/1100 W (3584/3755 Btu/h) 840/890 W (2867/3038 Btu/h)	1650/1700 W (5631/5802 Btu/h) 300/1400 W (4438/4779 Btu/h)
Dimensions		
Height	900 mm	1000 mm
Width	400 mm	400 mm
Depth	195 mm	220 mm
Intensity		
Starting current	10.1/11.6 A	16.1/18.5 A
Rated current	2.7/3 A	4.2/4.9 A
Power consumption absorbed L35-L35 L35-L50	500/580 W 580/660 W	800/920 W 920/1100 W
Energy efficiency ratio (EER) L35-L35	2.1/1.9	2.1/1.9
Control type	Thermostat	
Temperature setting range	+20...+50 °C	
Maximum outside temperature	55 °C	
Noise level	67 dB (A)	67 dB (A)
Air flow of the internal circuit of the external circuit	350/385 m³/h 510/560 m³/h	550/600 m³/h 620/680 m³/h
Alarm type	Inverter contact	
Weight of unit	39 kg	42 kg
Cooling gas type	R134a (0.7 kg)	R134a (0.75 kg)
IP (IEC 60529) On the internal circuit On the external circuit		54 34
External circuit filter		Yes
Assembly		Side
Thermal protection recommended (fuse melt curve)	T4A	T6A

Cooling unit

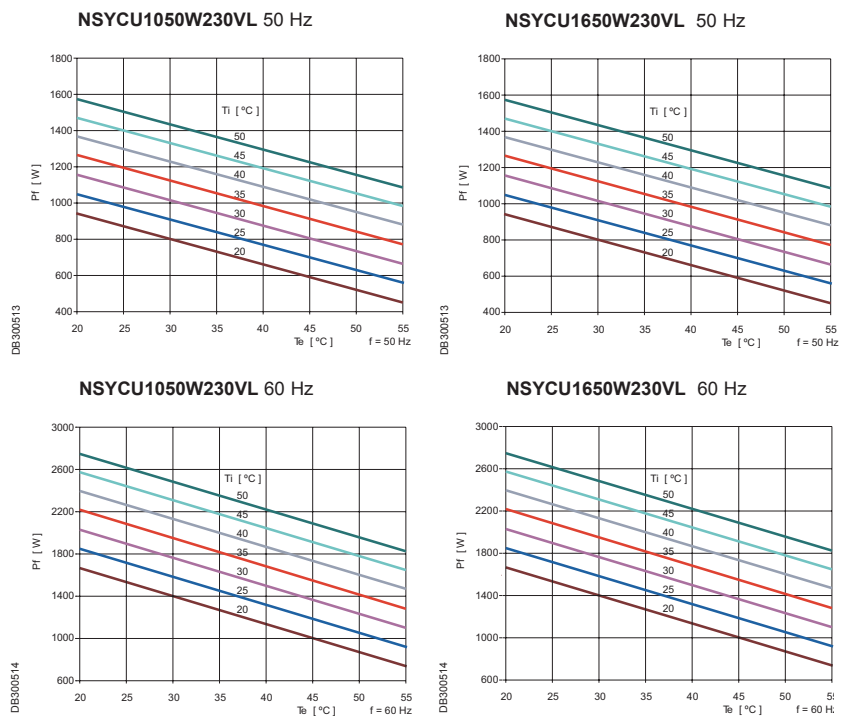
Mechanical control

Side-mounting models: dimensions



Dimensions (mm)	NSYCU1050W230VL	NSYCU1650W230VL	NSYCU1800W400VL
A	300	300	300
B	0	0	0
C	135	135	135
D	30	30	30
E	465	475	475
F	840	840	840
G	100	100	100
H	900	1000	1000
K	180	180	180
L	400	400	400
M	320	320	320
N	-	470	470
P	195	220	220
Q	35	25	25
R	195	195	195
S	0	10	10

Curves



Cooling unit

Mechanical control



P8501125

NSYCU4000W400VL, NSYCU1800W400VL

Side-mounting

Cooling units for electrical switchboards

- Respect for the environment by using environmentally friendly gas R134a.
- Cooling powers of 2500 W and 4000 W.

General characteristics

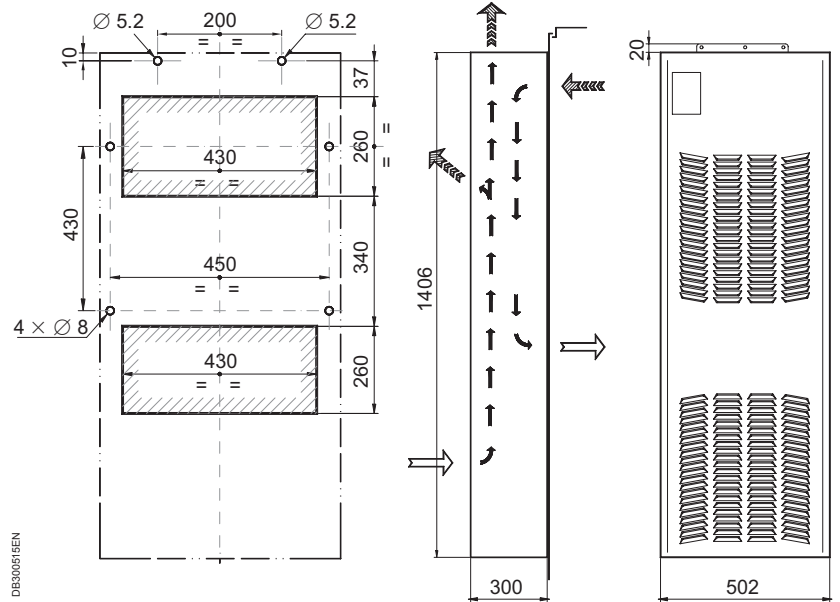
- The temperature setting can be adjusted from +20 to +50 °C.
- They are equipped as standard with an automatically reset pressure gauge and a switching thermostat which, when it detects a value greater than the safe pressure value, stops the compressor and the external fan.
- The internal and external air circuits are independent. A protection rating of IP 54 is guaranteed between the outside and the inside of the enclosure.
- The fan of the internal circuit permanently guarantees prevention against hot spots as well as improved thermal dissipation inside the enclosure.
- The devices are equipped with switches for reporting an alarm.
- Option of partial-flush mounting.

Reference	NSYCU1800W400VL	NSYCU2500W400VL	NSYCU4000W400VL
Voltage	3 x 440 V; 50 Hz / 3 x 440 V; 60 Hz	3 x 440 V; 50 Hz / 3 x 440 V; 60 Hz	3 x 440 V; 50 Hz / 3 x 440 V; 60 Hz
Cooling power (50/60 Hz) according to EN 14511			
L35-L35	1800/1900 W (6143/6485 Btu/h)	2500/2600 W (8533/8876 Btu/h)	3800/4100 W (12973/13997 Btu/h)
L35-L50	1400/1500 W (4779/5121 Btu/h)	2000/2100 W (6828/7169 Btu/h)	3100/3300 W (10583/11266 Btu/h)
Dimensions			
Height	1000 mm	1406 mm	1406 mm
Width	400 mm	502 mm	502 mm
Depth	220 mm	300 mm	300 mm
Intensity			
Starting current	6.8/7.9 A	9.8/12.1 A	10.0/11.6 A
Rated current	2.1/2.5 A	2.6/3.2 A	3.3/3.9 A
Power consumption absorbed			
L35-L35	1200/1400 W	1500/1800 W	1900/2200 W
L35-L50	1400/1600 W	1800/2100 W	2200/2600 W
Energy efficiency ratio (EER)			
L35-L35	1.5/1.4	1.7/1.4	2.0/1.9
Control type	Thermostat		
Temperature setting range	+20...+50 °C		
Maximum outside temperature	55 °C		
Noise level	69 dB (A)		
Air flow			
of the internal circuit	550/600 m³/h	750/820 m³/h	1200/1340 m³/h
of the external circuit	620/680 m³/h	1200/1310 m³/h	1070/1190 m³/h
Alarm type	Inverter contact		
Weight of unit	46 kg		75 kg
Cooling gas type	R134A (0.75 kg)		R134a
IP (IEC 60529)			
On the internal circuit	54		55
On the external circuit	34		34
(protection of cooling elements)			
External circuit filter	Yes		No (please consult us for aggressive environments)
Assembly	Side		
Thermal protection recommended (fuse melt curve)	T 3A	T4 A	T6 A

Cooling unit

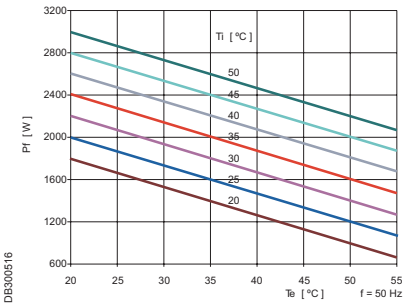
Mechanical control

Side-mounting models: dimensions

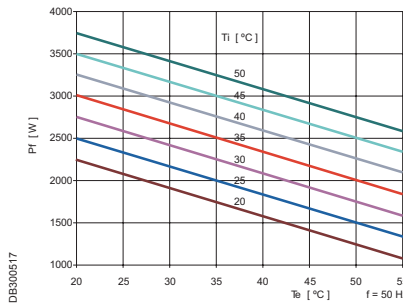


Curves

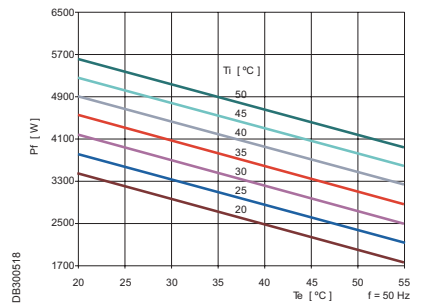
NSYCU1800W400VL 50 Hz



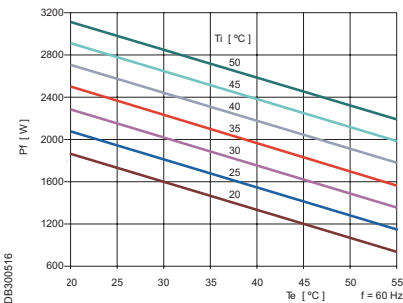
NSYCU2500W400VL 50 Hz



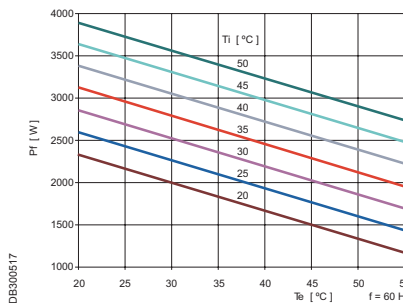
NSYCU4000W400VL 50 Hz



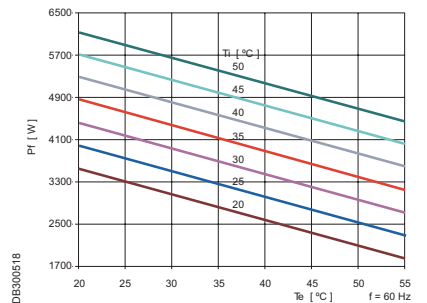
NSYCU1800W400VL 60 Hz



NSYCU2500W400VL 60 Hz



NSYCU4000W400VL 60 Hz



Cooling unit

Mechanical control



PR501123

NSYCU1050W230VR

Top-mounting

Cooling units for electrical switchboards

- Respect for the environment by using environmentally friendly gas R134a (HFC).
- Automatic evaporation of condensation water.
- Cooling power from 760 W to 3100 W.

General characteristics

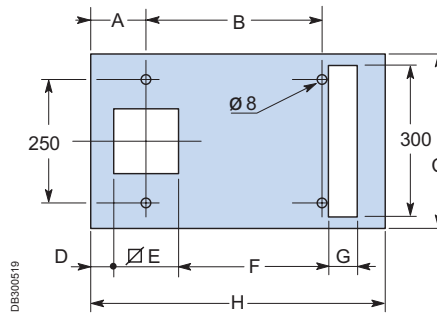
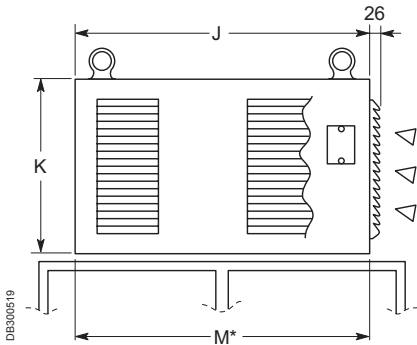
- The temperature setting can be adjusted from +20 to +50 °C.
- They are equipped as standard with an automatically reset pressure gauge and a switching thermostat which, when it detects a value greater than the safe pressure value, stops the compressor and the external fan.
- The internal and external air circuits are independent. A protection rating of IP 54 is guaranteed between the outside and the inside of the enclosure.
- The fan of the internal circuit permanently guarantees prevention against hot spots as well as improved thermal dissipation inside the enclosure.
- The devices are equipped with switches for reporting an alarm.
- System for automatic recovery and evaporation of condensates.
- RAL 7035 colour for the standard offer.
- Units in RAL 7032 as option, please contact us.
- Stainless-steel version and other voltages on demand.

Reference	NSYCU760W230VR	NSYCU1050W230VR	NSYCU1460W230VR
Voltage	230 V; 50/60 Hz		
Cooling power (50/60 Hz) according to EN 14511 L35-L35 L35-L50	760/810 W (2594/2765 Btu/h) 610/640 W (2082/2184 Btu/h)	1050/1100 W (3584/3755 Btu/h) 840/890 W (2867/3038 Btu/h)	1460/1500 W (4983/5121 Btu/h) 1200/1200 W (4096/4096 Btu/h)
Dimensions			
Height	340 mm		400 mm
Width	600 mm		700 mm
Depth	350 mm		400 mm
Intensity			
Starting current	7.7 A/8.8 A	10.1/11.6 A	14.1/16.2 A
Rated current	2 A/2.3 A	2.7/3 A	3.7/4.2 A
Power consumption absorbed L35-L35 L35-L50	380/440 W 440/500 W	500/580 W 580/660 W	730/810 W 810/930 W
Energy efficiency ratio (EER) L35-L35	2.0/1.8	2.1/1.9	2.1/1.9
Control type	Thermostat		
Temperature setting range	+20...+50 °C		
Maximum outside temperature	55 °C		
Noise level	67 dB	69 dB	
Air flow of the internal circuit of the external circuit	350/385 m³/h 350/385 m³/h	400/440 m³/h 620/680 m³/h	
Type of zero-potential alarm	Inverter contact		
Weight of unit	33 kg	41 kg	45 kg
Cooling gas type	R134a (0.5 kg)	R134a (0.7 kg)	R134a (0.75 kg)
IP (IEC 60529) On the internal circuit On the external circuit		54 34	
External circuit filter	Yes		
Assembly	On top		
Thermal protection recommended (fuse melt curve)	T4A	T6A	

Cooling unit

Mechanical control

Top-mounting models, ref. NSYCU760W230VR-NSYCU1050W230VR-NSYCU1460W230VR

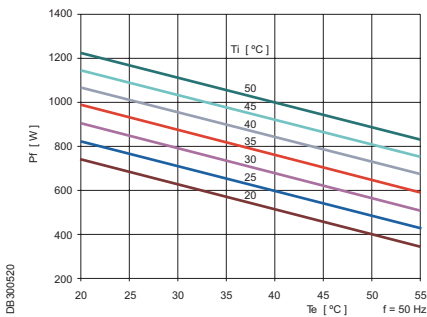


Cut-out template for top mounting without intermediate frame.

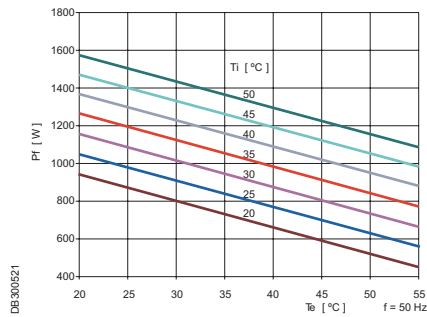
A	B	C	D	E	F	G	H	J	K	M	Reference
108	350	350	40	136	292	80	600	600	340	600	NSYCU760W230VR
118	420	400	45	180	328	90	700	700	400	700	NSYCU1050W230VR
118	420	400	45	180	328	90	700	700	400	700	NSYCU1460W230VR

Curves

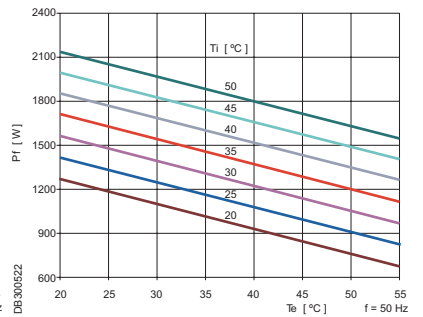
NSYCU760W230VR 50 Hz



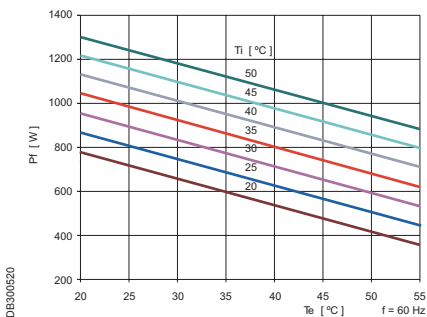
NSYCU1050W230VR 50 Hz



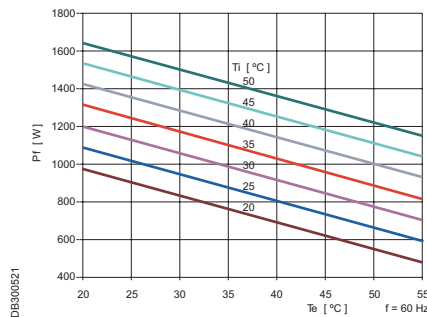
NSYCU1460W230VR 50 Hz



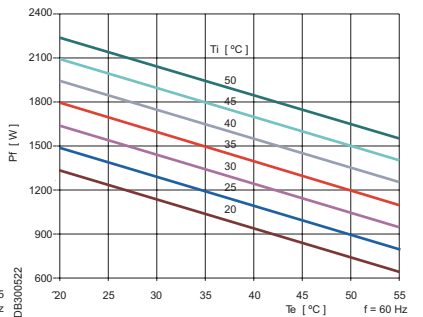
NSYCU760W230VR 60 Hz



NSYCU1050W230VR 60 Hz



NSYCU1460W230VR 60 Hz



Cooling unit

Mechanical control

PB501126



NSYCU1650W230VR

Top-mounting

Cooling units for electrical switchboards

- Respect for the environment by using environmentally friendly gas R134a (HFC).
- Automatic evaporation of condensation water.
- Cooling power from 760 W to 3100 W.

General characteristics

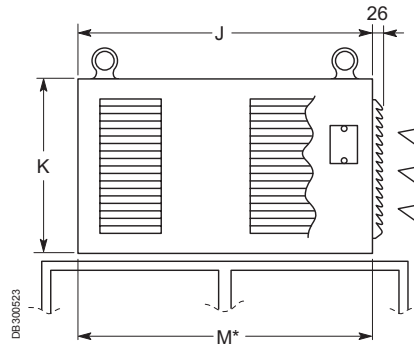
- The temperature setting can be adjusted from +20 to +50 °C.
- They are equipped as standard with an automatically reset pressure gauge and a switching thermostat which, when it detects a value greater than the safe pressure value, stops the compressor and the external fan.
- The internal and external air circuits are independent. A protection rating of IP 54 is guaranteed between the outside and the inside of the enclosure.
- The fan of the internal circuit permanently guarantees prevention against hot spots as well as improved thermal dissipation inside the enclosure.
- The devices are equipped with switches for reporting an alarm.
- System for automatic recovery and evaporation of condensates.
- RAL 7035 colour for the standard offer.
- Units in RAL 7032 as option, please contact us.
- Stainless-steel version and other voltages on demand.

Reference	NSYCU1650W230VR	NSYCU2000W400VR
Voltage	230 V; 50/60 Hz	3 x 440 V; 50 Hz / 3 x 440 V; 60 Hz
Cooling power (50/60 Hz) according to EN 14511 L35-L35 L35-L50	1650/1700 W (5631/5802 Btu/h) 1300/1400 W (4438/4779 Btu/h)	2000/2100 W (6826/7169 Btu/h) 1600/1700 W (5462/5803 Btu/h)
Dimensions Height Width Depth		430 mm 700 mm 400 mm
Intensity Starting current Rated current	16.1/18.5 A 4.2/4.5 A	6.8/7.9 A 2.1/2.5 A
Power consumption absorbed L35-L35 L35-L50	800/920 W 920/1100 W	1200/1400 W 1400/1700 W
Energy efficiency ratio (EER) L35-L35	2.1/2.0	1.7/1.5
Control type		Thermostat
Temperature setting range		+20...+50 °C
Maximum outside temperature		55 °C
Noise level	67 dB	69 dB
Air flow of the internal circuit of the external circuit		550/600 m³/h 620/680 m³/h
Type of zero-potential alarm		Inverter contact
Weight of unit	47 kg	60 kg
Cooling gas type		R134a (1.0 kg)
IP (IEC 60529) On the internal circuit On the external circuit		54 34
External circuit filter		Yes
Assembly		On top
Thermal protection recommended (fuse melt curve)	T6A	T3A

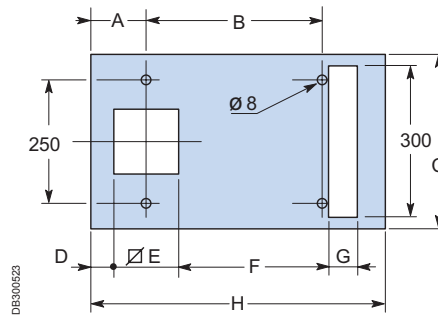
Cooling unit

Mechanical control

Top-mounting model, ref. NSYCU1650W230VR-NSYCU2000W400VR



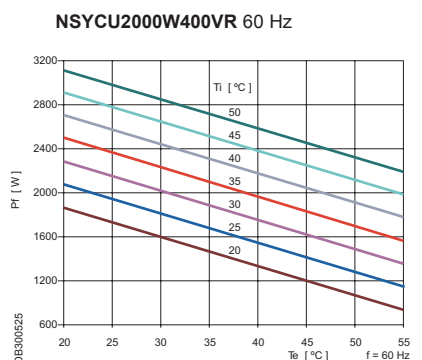
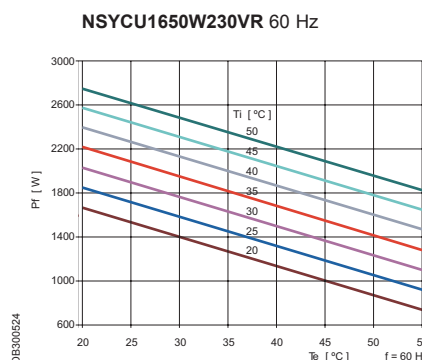
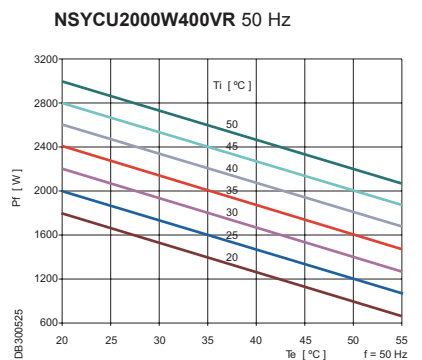
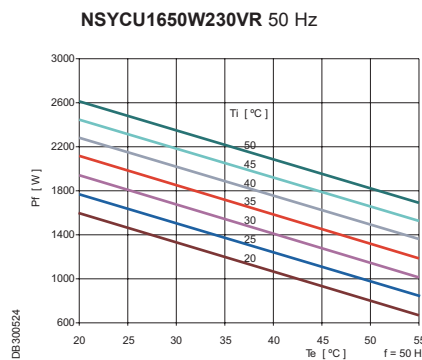
* Maximum dimensions of the intermediate frame.



Cut-out template for top mounting without intermediate frame.

Reference	A	B	C	D	E	F	G	H	J	K	M
NSYCU1650W230VR	118	420	400	45	180	328	90	700	700	430	700
NSYCU2000W400VR	118	420	400	45	180	328	90	700	700	430	700

Curves



Cooling unit

Mechanical control



NSYCU3100W400VR

Top-mounting

Cooling units for electrical switchboards

- Respect for the environment by using environmentally friendly gas R134a (HFC).
- Automatic evaporation of condensation water.
- Cooling power from 760 W to 3100 W.

General characteristics

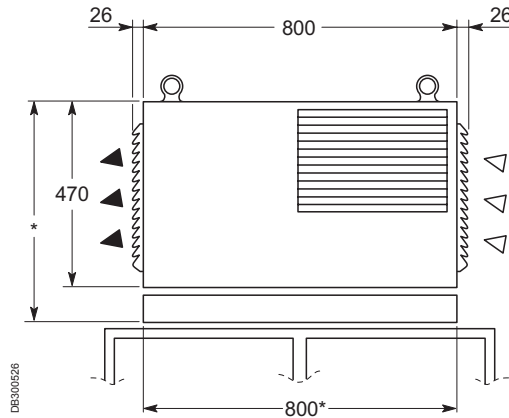
- The temperature setting can be adjusted from +20 to +50 °C.
- They are equipped as standard with an automatically reset pressure gauge and a switching thermostat which, when it detects a value greater than the safe pressure value, stops the compressor and the external fan.
- The internal and external air circuits are independent. A protection rating of IP 54 is guaranteed between the outside and the inside of the enclosure.
- The fan of the internal circuit permanently guarantees prevention against hot spots as well as improved thermal dissipation inside the enclosure.
- The devices are equipped with switches for reporting an alarm.
- System for automatic recovery and evaporation of condensates.
- RAL 7035 colour for the standard offer.
- Units in RAL 7032 as option, please contact us.
- Stainless-steel version and other voltages on demand.

Reference	NSYCU2450W400VR	NSYCU3100W400VR
Voltage	3 x 440 V; 50 Hz / 3 x 440 V; 60 Hz	3 x 440 V; 50 Hz / 3 x 440 V; 60 Hz
Cooling power (50/60 Hz) according to EN 14511 L35-L35 L35-L50	2450/2600 W (8362/8876 Btu/h) 2000/2100 W (6828/7169 Btu/h)	3100/3300 W (10580/11266 Btu/h) 2500/2600 W (8532/8876 Btu/h)
Dimensions		
Height		470 mm
Width		800 mm
Depth		450 mm
Intensity		
Starting current	8.4/10.1 A	9.6/11.3 A
Rated current	2.6/3.2 A	3.0/3.5 A
Power consumption absorbed L35-L35 L35-L50	1500/1800 W 1800/2100 W	1700/2000 W 2000/2300 W
Energy efficiency ratio (EER) L35-L35	1.6/1.5	1.8/1.7
Control type		Thermostat
Temperature setting range		+20...+50 °C
Maximum outside temperature		55 °C
Noise level		69 dB
Air flow of the internal circuit of the external circuit		750/820 m³/h 1200/1310 m³/h
Type of zero-potential alarm		Inverter contact
Weight of unit		65 kg
Cooling gas type	R134a (1.5 kg)	R134a (1.7 kg)
IP (IEC 60529) On the internal circuit On the external circuit		IP 54 IP 34
External circuit filter		Yes
Assembly		On top
Thermal protection recommended (fuse melt curve)		T4A

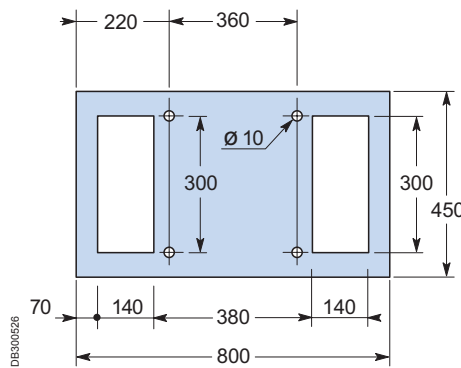
Cooling unit

Mechanical control

Top-mounting model, ref. NSYCU2450W400VR-NSYCU3100W400VR



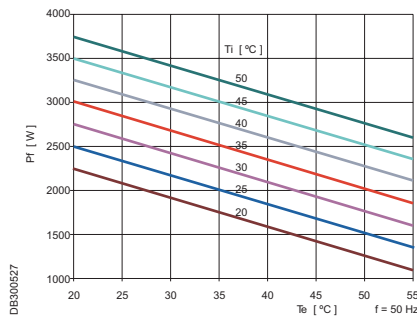
* Maximum dimensions of the intermediate frame.



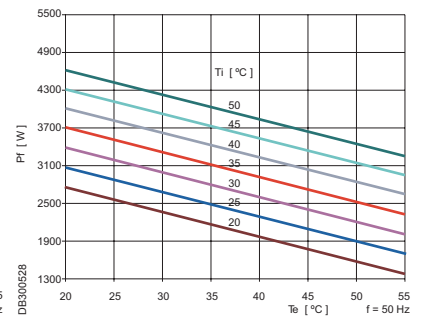
Cut-out template.

Curves

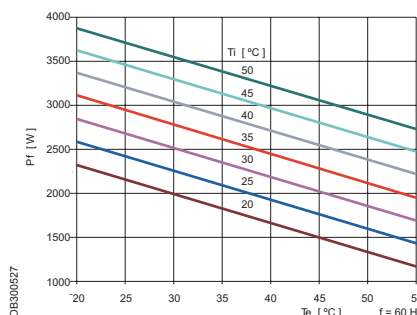
NSYCU2450W400VR 50 Hz



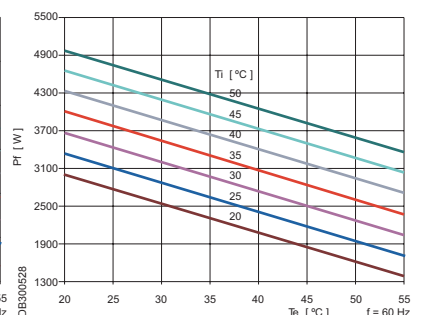
NSYCU3100W400VR 50 Hz



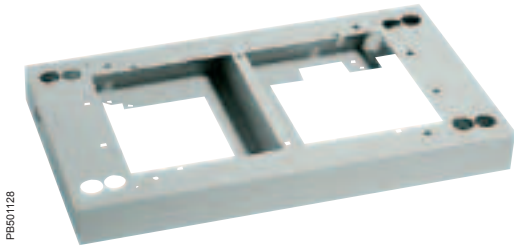
NSYCU2450W400VR 60 Hz



NSYCU3100W400VR 60 Hz



Cooling unit Accessories

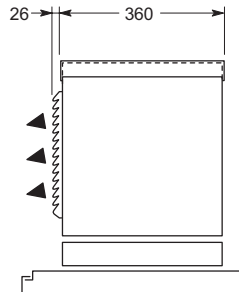


PE501128

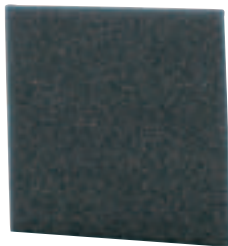
Intermediate frame

- Frame allowing the top-mounting unit ref. **NSYCU760W230VR** mounted on enclosures with a width of 600 and a depth of 400 mm.

Description	Reference
Intermediate frame	NSYCUAI



DB300629



PE501098

Spare filter

- Filter with a density of 32 kg/m² and a thickness of 13 mm, for all the side-mounting and top-mounting units.
- To be ordered in multiples of 24 filters.

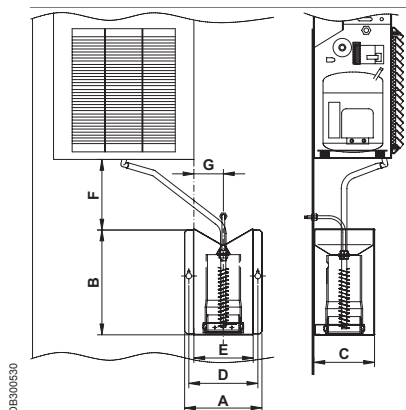
Description	Reference
Spare filter	NSYCEAF

Device for dissipating condensation water (external installation)

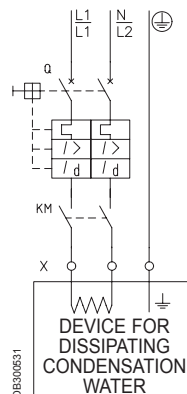
- Device for dissipating condensation water (external installation) allowing the evacuation of condensation water from the internal battery (evaporator).
- Supplied with stainless-steel support.
- Power supply:

	Voltage	Starting current	Thermal protection recommended	Evaporation capacity	Resistance type
Operating voltage $\pm 10\%$	230 V~	2.9 A	T 3 A	200 cl/h	PTC
	115 V~	5.8 A	T 6 A		

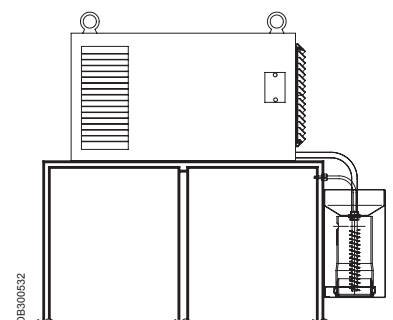
Description	Reference
Heat sink	NSYCUAD



DB300630

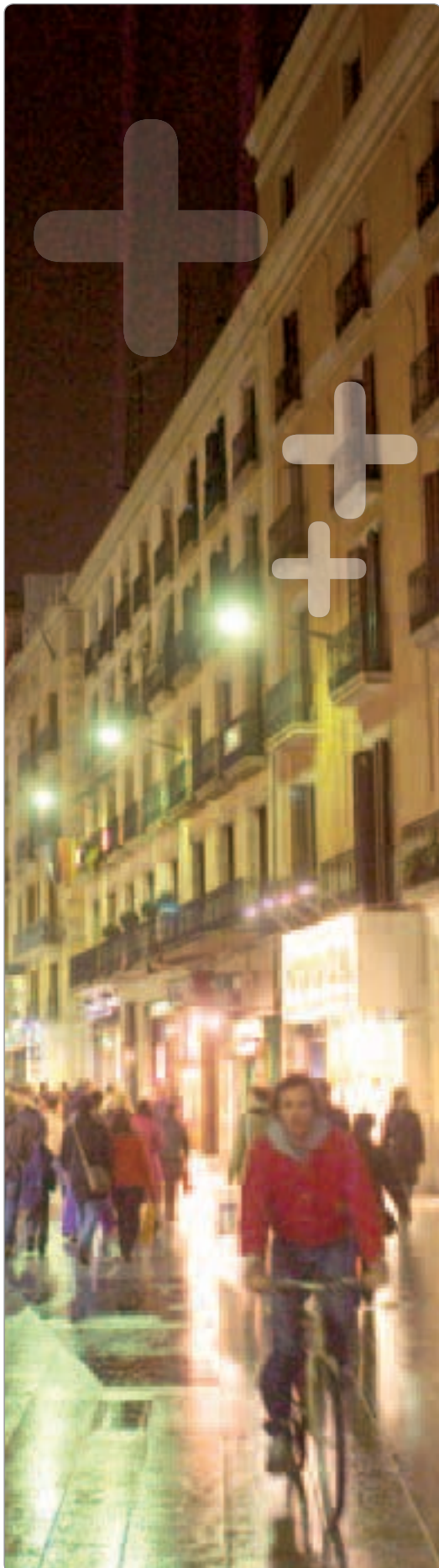


DB300631



DB300632

Selection tools



PB500009

> www.schneider-electric.com

Our international site allows you to access all the Schneider Electric products in just two clicks with direct links to:

- A complete library of technical documents, catalogues, FAQs brochures, etc.
- Certificates.
- 2D & 3D drawings.
- Selection Guides from the e-catalogue.
- Product discovery sites.



You may also find illustrated overviews, news to which you can subscribe, a list of country contacts and more useful information.

Our software suite

> [Spacial.pro](#)

Spacial.pro allows you to make switchboard proposals based on the standard Spacial offer. A full project with several sets of switchboards is quoted in minutes, with automatic creation of the Bill of Material and 2D drawings for front/side views.



PB500010

> [ProClima](#)

Calculate the right choice for your thermal management requirements, according to the environment and the electrical/electronic devices installed inside the enclosure.



PB500011

> [Spacial.ref](#) [Thalassa.ref](#)

These digital rules allow you to select the best components from the current extensive product range without the risk of any mistakes, since product and accessory selection take place automatically, saving you time and money.



PB500012

Cooling unit

Electronic control



PBE01129

NSYCUE1400W230L

Side-mounting

General characteristics

- Main components: a high-temperature compressor, two fans installed on a removable support, two exchange cassettes, an environmentally friendly refrigerant fluid HFC R134a, an electronic controller and a device for evaporating condensates (treated against corrosion) for side-mounting and top-mounting models.
- The temperature setting can be adjusted from +20 to +50 °C (pre-set and recommended temperature: 35 °C).
- The internal and external air circuits are independent. A protection rating of IP 54 is guaranteed between the outside and the inside of the enclosure.
- The fan of the internal circuit permanently guarantees prevention against hot spots as well as improved thermal dissipation inside the enclosure. Electronic control by microprocessor allows:
 - Setting temperature adjustment.
 - Door switch management.
 - Respect for the following operating parameters:
 - Minimum operating time of the compressor.
 - Minimum stand-by time of the compressor.
 - Switching on the compressor with setting temperature +1 °C.
 - Switching off the compressor with setting temperature –5 °C.
 - Alarm management.
 - Alarm reset by "confirmation" (manual reset).
 - RAL 7035 colour for the standard offer.
- Units in RAL 7032 as option, please contact us.
- Stainless-steel version and other voltages on demand.

Conditions of use

- They can be used with ambient temperatures ranging from +20 to +50 °C.
- The optional filter is required for installation in the following environments: intensive welding, hot forging, textile fibres, powdery chemicals, rubber processing and other harsh environments.
- The air conditioner is equipped with two handles making it easier to transport.
- The air conditioner is equipped with a quick-fixing device. A simple screw-nut-cage assembly allows the device to be locked from the outside.
- The electrical connection is by plug-in connectors, included with the unit.
- Do not obstruct, even partially, the external air suction and backflow orifices.
- The device must be installed more than 30 cm from the walls and more than 10 cm from the floor.

Cooling unit

Electronic control

Reference	NSYCUE1100W230L	NSYCUE1400W230L	NSYCUE1400W400L	NSYCUE1800W400L
Voltage	230 V; 50/60 Hz		3 x 400 V; 50 Hz / 3 x 440 V; 60 Hz	
Cooling power (50/60 Hz) according to EN 14511 L35-L35 L35-L50	1100/1200 W (3755/4097 Btu/h) 880/930 W (3004/3175 Btu/h)	1400/1500 W (4780/5121 Btu/h) 1200/1300 W (4097/4438 Btu/h)	1400/1500 W (4780/5121 Btu/h) 1200/1300 W (4097/4438 Btu/h)	1800/1900 W (6145/6485 Btu/h) 1400/1500 W (4780/5121 Btu/h)
Dimensions Height Width Depth	1,010 mm 400 mm 240 mm			
Intensity Starting current Rated current	12.1/13.9 A 3.2/3.7 A	18.1/22.2 A 4.8/5.8 A	3.7/4.3 A 1.2/1.4 A	5.3/6.3 A 1.8/2.1 A
Power consumption absorbed L35-L35 L35-L50	600/690 W 690/790 W	900/1,100 W 1100/1300 W	700/810 W 810/930 W	1000/1200 W 1200/1400 W
Energy efficiency ratio (EER) L35-L35	1.8/1.7	1.6/1.4	2.0/1.9	1.8/1.7
Control type	Electronic controller			
Temperature setting range	+20...+50 °C			
Maximum outside temperature	55 °C			
Noise level	62 dB (A)	64 dB (A)	66 dB (A)	69 dB (A)
Air flow of the internal circuit of the external circuit	575/600 m ³ /h 860/900 m ³ /h	860/900 m ³ /h 860/900 m ³ /h	860/900 m ³ /h 860/900 m ³ /h	885/900 m ³ /h 1050/1160 m ³ /h
Type of zero-potential alarm	Inverter contact			
Weight of unit	45 kg	46 kg	47 kg	50 kg
Cooling gas type	R134a (0.85 kg)	R134a (0.85 kg)	R134a (0.85 kg)	R134a (0.85 kg)
IP (IEC 60529) On the internal circuit On the external circuit	54 34			
External circuit filter	Option			
Assembly	Side			
Thermal protection recommended (fuse melt curve)	T6A	T8A	T2A	T3A

Cooling unit

Electronic control



PB 501130

NSYCUE1400W230R

Top-mounting

General characteristics

- Main components: a high-temperature compressor, two fans installed on a removable support, two exchange cassettes, an environmentally friendly refrigerant fluid HFC R134a, an electronic controller and a device for evaporating condensates (treated against corrosion) for side-mounting and top-mounting models.
 - The temperature setting can be adjusted from +20 to +50 °C (pre-set and recommended temperature: 35 °C).
 - The internal and external air circuits are independent. A protection rating of IP 54 is guaranteed between the outside and the inside of the enclosure on which the air conditioner is installed.
 - The fan of the internal circuit permanently guarantees prevention against hot spots as well as improved thermal dissipation inside the enclosure.
- Electronic control by microprocessor allows:
- Setting temperature adjustment.
 - Door switch management.
 - Respect for the following operating parameters:
 - Minimum operating time of the compressor.
 - Minimum stand-by time of the compressor.
 - Switching on the compressor with setting temperature +1 °C.
 - Switching off the compressor with setting temperature –5 °C.
 - Alarm management.
 - Alarm reset by "confirmation" (manual reset).
 - RAL 7035 colour for the standard offer.
 - Units in RAL 7032 as option, please contact us.
 - Stainless-steel version and other voltages on demand.

Conditions of use

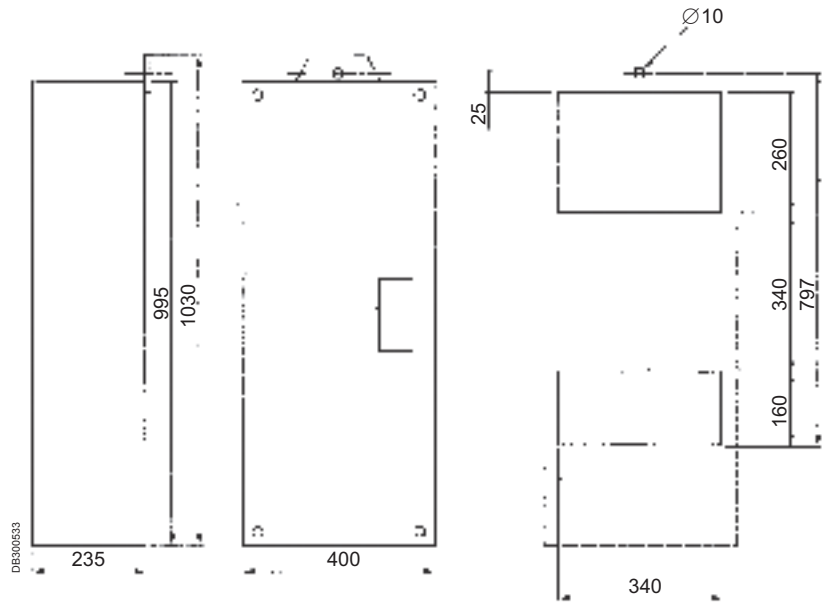
- They can be used with ambient temperatures ranging from +20 to +55 °C.
- The optional filter is required for installation in the following environments: intensive welding, hot forging, textile fibres, powdery chemicals, rubber processing and other harsh environments.
- The air conditioner is equipped with two handles making it easier to transport.
- The air conditioner is equipped with a quick-fixing device. A simple screw-nut-cage assembly allows the device to be locked from the outside.
- The electrical connection is by plug-in connectors, included with the unit.
- Do not obstruct, even partially, the external air suction and backflow orifices.
- The device must be installed more than 30 cm from the walls and more than 10 cm from the floor.

Cooling unit

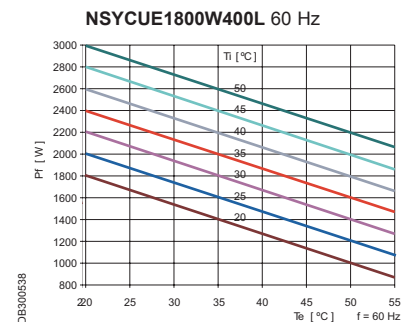
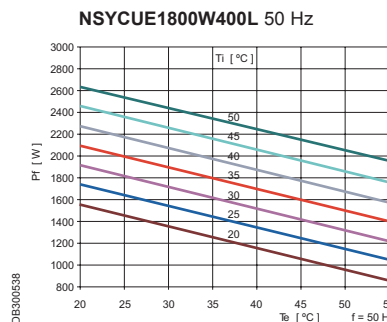
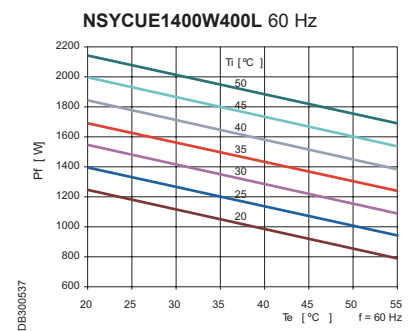
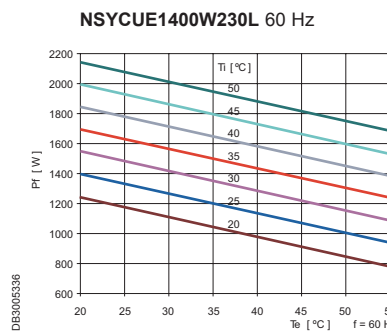
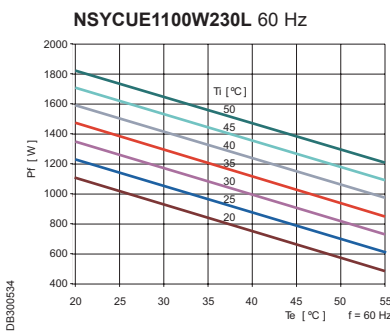
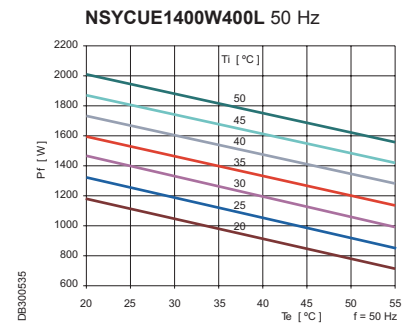
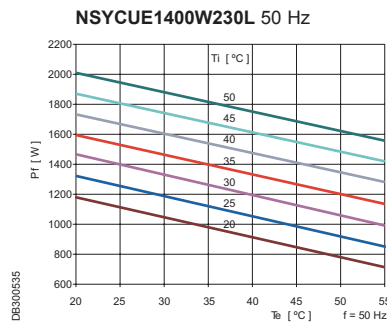
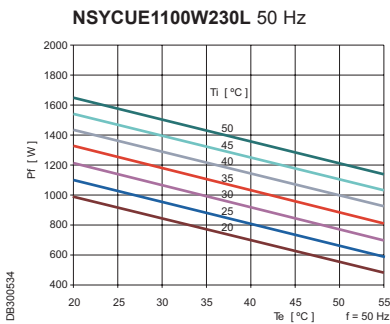
Electronic control

Reference	NSYCUE1400W230R	NSYCUE1800W400R
Voltage	230 V; 50/60 Hz	3 x 400 V; 50 Hz / 3 x 440 V; 60 Hz
Cooling power (50/60 Hz) according to EN 14511 L35-L35 L35-L50	1400/1500 W (4780/5121 Btu/h) 1200/1300 W (4097/4438 Btu/h)	1800/1900 W (6145/6485 Btu/h) 1400/1500 W (4780/5121 Btu/h)
Dimensions Height Width Depth		415 mm 750 mm 412 mm
Intensity Starting current Rated current	18.1/22.2 A 4.8/5.8 A	5.3/6.3 A 1.8/2.1 A
Power consumption absorbed L35-L35 L35-L50	900/1,100 W 1100/1300 W	1000/1200 W 1200/1400 W
Energy efficiency ratio (EER) L35-L35	1.6/1.4	1.8/1.7
Control type	Electronic controller	
Temperature setting range	+20...+50 °C	
Maximum outside temperature	55 °C	
Noise level	64 dB (A)	69 dB (A)
Air flow of the internal circuit of the external circuit	860/900 m ³ /h 860/900 m ³ /h	885/900 m ³ /h 1050/1160 m ³ /h
Type of zero-potential alarm	Inverter contact	
Weight of unit	48 kg	50 kg
Cooling gas type	R134a (0.95 kg)	R134a (0.95 kg)
IP (IEC 60529) On the internal circuit On the external circuit		54 34
External circuit filter		Option
Assembly		On top
Thermal protection recommended (fuse melt curve)	T8A	T3A

Cut-out template for side mounting



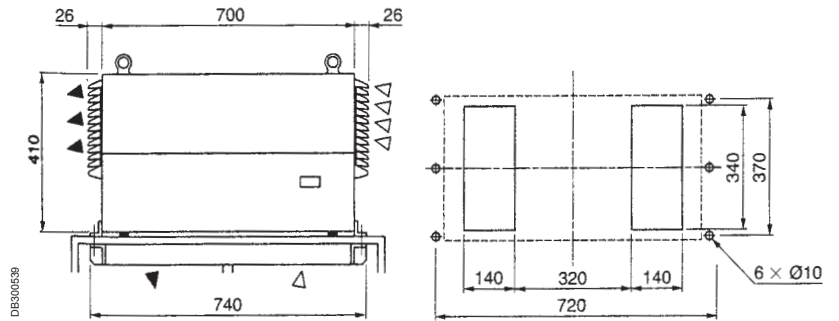
Curves



Cooling unit

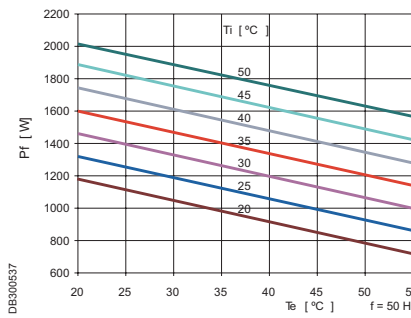
Electronic control

Cut-out template for top mounting

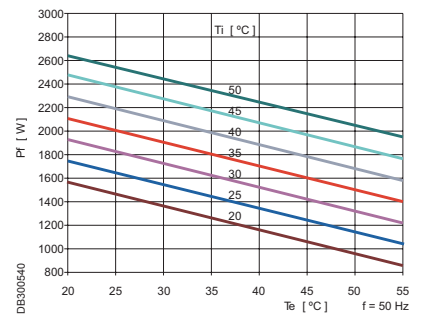


Curves

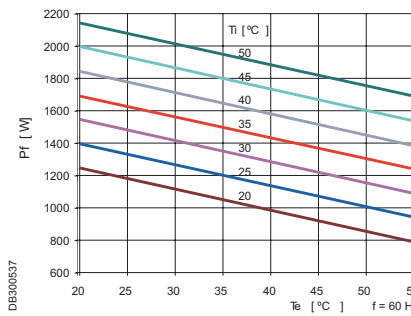
NSYCUE1400W230R 50 Hz



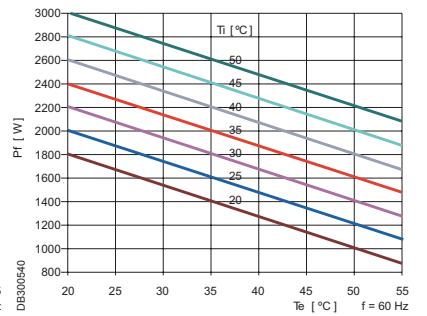
NSYCUE1800W400R 50 Hz



NSYCUE1400W230R 60 Hz



NSYCUE1800W400R 60 Hz



Cooling unit Accessories



PB501131

NSYCUART



PB501088

NSYCUALF

Filter device

- Kit for additional filter required to protect the side-mounting or top-mounting units in a harsh environment.
- Filter clogging detection kit.
- Spare filter (density 32 kg/m³, thickness 13 mm).
- Kit for quick cleaning of the exchanger cassette to guarantee a good thermal exchange (contains a tray, an drain pipe and a bottle of grease remover).

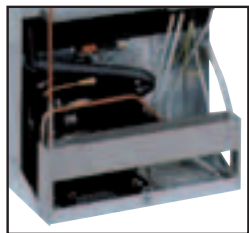
Pack.	Description	Mounting model	Reference
1	Additional filter kit	Side	NSYCUALT
1	Additional filter kit	Top	NSYCUART
1	Flush-mounting kit	Side and top	NSYCUAE
5	Spare filter	Side	NSYCUALF
6	Spare filter	Top	NSYCUARF
1	Cleaning kit	Side	NSYCUALN



PB501132



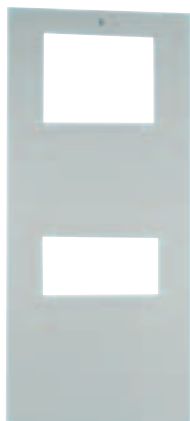
PB501133



PB501134



PB501135



PB501136

Cut-out side panels

- Set of two Spacial panels (one solid panel and one pre-cut panel).
- Allows instant installation of side-mounting cooling units.
- RAL 7035 grey paint.

For Spacial SF wall-mounting enclosures (mm)		Panel reference
Height	Depth	
1800	600	NSY2SPC186
1800	800	NSY2SPC188
2000	600	NSY2SPC206
2000	800	NSY2SPC208

Cooling unit

SLIM electronic control



NSYCUB1100W230S

Modular version:
1 bloc + 1 cover

SLIM

- Range of cooling powers from 1100 W to 2700 W.
- 3 installation options: surface, partial flush and flush.
- Versions in RAL 7035 and stainless steel.
- Electronic thermostat with control option (precision of ± 1 °C). Option of installing a display as an accessory.
- Minimal depth of 162 mm in every model.
- Internal IP 55 (enclosure side) maintains the IP of the enclosure up to IP 55.
- The unit is controlled by 3 commands:
 - Thermostat value.
 - Signal of an anomaly (sudden disconnection, incorrect phase installation, filter blocked with dirt, high compressor temperature, high enclosure temperature).
 - Door open switch signal.
- A minimum height of 1800 mm and width of 800 mm (door) or 600 mm (side panel) is required to install a SLIM cooling unit in a Spacial enclosure.

General characteristics

- Desired internal temperature adjustable from +20 to +50 °C.
- Maximum ambient temperature: +55 °C.
- All the units have, in standard version, a pressure gauge with automatic reset. If the high pressure exceeds the safe value (in the high-pressure circuit) the pressure gauge acts by cutting off the power supply to the compressor and the external fan.
- External and internal air circuits separated with IP 55. The fan of the internal circuit operates permanently, preventing the appearance of hot spots in the installation.
- Equipped with alarm relay activated by the pressostat in the high-pressure circuit.
- Respect for the environment using environmentally friendly gas R134a (HFC).

	NSYCUB1100W230S
Dimensions (mm)	
Height	1580
Width (according to installation type)	460 (surface) or 495 (partial flush or flush)
Depth	162
Control type	electronic with control without display (display optional)
Unit control	thermostat+alarm+door closed
Temperature setting range	+20...+50 °C
Maximum outside temperature	+55 °C
Type of zero-potential alarm	Inverter contact
Cooling gas type	R134a
IP (IEC 60529)	
On the internal circuit	55
On the external circuit	34
External circuit filter	No (please consult us for aggressive environments)
Mounting model (the correct cover needs to be ordered)	surface, partial flush or flush
Available cover versions	RAL 7035 and stainless steel (please consult us for RAL 7032)
Certifications / marking	UL in process and CE



Modular version: Always order one SLIM cooling unit reference plus one cover reference.

Cooling unit

SLIM electronic control

Reference	NSYCUB1100W230S	NSYCUB1100W400S	NSYCUB1100W115S
	1100 W	1100 W	1100 W
Voltage	230 V 50/60 Hz	3 x 400 V 50 Hz/3 x 460V 60 Hz	115 V 50/60 Hz
Power according to EN14511 L35-35 L35-L50	1100 W/1200 W (3754/4095 Btu/h) 850 W/900 W (2900/3071 Btu/h)	1100 W/1200 W (3754/4095 Btu/h) 850 W/900 W (2900/3071 Btu/h)	1100 W/1200 W (3754/4095 Btu/h) 850 W/900 W (2900/3071 Btu/h)
Intensity			
Starting current	11/13.5 A	8.5/10.5 A	22/27A
Rated current	2.9/3.5 A	2.2/2.3 A	5.8/7 A
Power consumption absorbed L35-L35 L50-L35	600/710 W 710/850 W	0.87/0.92 KW 0.99/1.1 KW	0.6/0.71 KW 0.71/0.85 KW
Energy efficiency ratio (EER) L35-L35	1.8/1.7	1.3/1.3	1.8/1.7
Noise level	67 dB (A)	67 dB (A)	67 dB (A)
Air flow of the internal circuit of the external circuit	570/620 m ³ /h 860/900 m ³ /h	570/620 m ³ /h 860/900 m ³ /h	570/620 m ³ /h 860/900 m ³ /h
Weight of unit	46 kg	42 kg	46 kg
Thermal protection recommended (fuse melt curve)	T4A	T6A	T8A

Reference	NSYCUB1500W230S	NSYCUB1500W400S	NSYCUB1500W115S
	1500 W	1500 W	1500 W
Voltage	230 V 50/60 Hz	3 x 400 V 50Hz/3 x 460V 60Hz	115 V 50/60 Hz
Power according to EN14511 L35-35 L35-L50	1600/1700 W (5459/5800 Btu/h) 1300/1400 W (4436/4777 Btu/h)	1500/1600 W (5118/5459 Btu/h) 1200/1300 W (4094/4435 Btu/h)	1600/1700 W (5459/5800 Btu/h) 1300/1400 W (4436/4777 Btu/h)
Intensity			
Starting current	16.7/19.2 A	7.2/9.0 A	33.4/38.4 A
Rated current	4.4/5.1 A	2.4/3.0 A	8.8/10.2 A
Power consumption absorbed L35-L35 L50-L35	830/950 W 950/1100 W	1,300/1,500 W 1500/1 800 W	0.83/0.95 KW 0.95/1.1 KW
Energy efficiency ratio (EER) L35-L35	1.9/1.8	1.2/1.1	1.9/1.8
Noise level	69 dB (A)	67 dB (A)	69 dB (A)
Air flow of the internal circuit of the external circuit	860/900 m ³ /h 885/990 m ³ /h	860/900 m ³ /h 885/990 m ³ /h	885/990 m ³ /h 886/990 m ³ /h
Weight of unit	49 kg	50 kg	49 kg
Thermal protection recommended (fuse melt curve)	T6A	T4A	T4A

SLIM covers			
	Surface-mounting	Partial flush-mounting	Flush-mounting
RAL 7035	NSYCUCL	NSYCUCH	NSYCUCF
Stainless-steel	NSYCUCLX	NSYCUCHX	NSYCUCFX



Modular version: Always order one SLIM cooling unit reference plus one cover reference.

Cooling unit

SLIM electronic control

Reference	NSYCUB2200W230S	NSYCUB2200W400S	NSYCUB2200W115S
	2200 W	2200 W	2200 W
Voltage	230 V 50/60 Hz	3 x 400 V 50 Hz/3 x 460 V 60 Hz	115 V 50/60 Hz
Power according to EN14511			
L35-35	2200 W/2400 W (7507/8189 Btu/h)	2200 W/2400 W (7507/8189 Btu/h)	2200 W/2400 W (7507/8189 Btu/h)
L35-L50	1800 W/2000 W (6142/6824 Btu/h)	1800 W/2000 W (6142/6824 Btu/h)	1800 W/2000 W (6142/6824 Btu/h)
Intensity			
Starting current	22.2/26.2 A	7.9/9.5 A	44.4/52.4A
Rated current	5.8/6.9 A	2.6/3.2 A	11.6/13.8 A
Power consumption absorbed			
L35-L35	1100/1300 W	1500/1800 W	1.1/1.3 KW
L50-L35	1300/1500 W	1800/2100 W	1.3/1.5 KW
Energy efficiency ratio (EER)			
L35-L35	2/1.8	1.5/1.3	2/1.8
Noise level	67 dB (A)	69 dB (A)	67 dB (A)
Air flow			
of the internal circuit	860/900 m ³ /h	885/990 m ³ /h	885/990 m ³ /h
of the external circuit	885/990 m ³ /h	885/990 m ³ /h	886/990 m ³ /h
Weight of unit	50 kg	54 kg	50 kg
Thermal protection recommended (fuse melt curve)	T8A	T4A	T16A

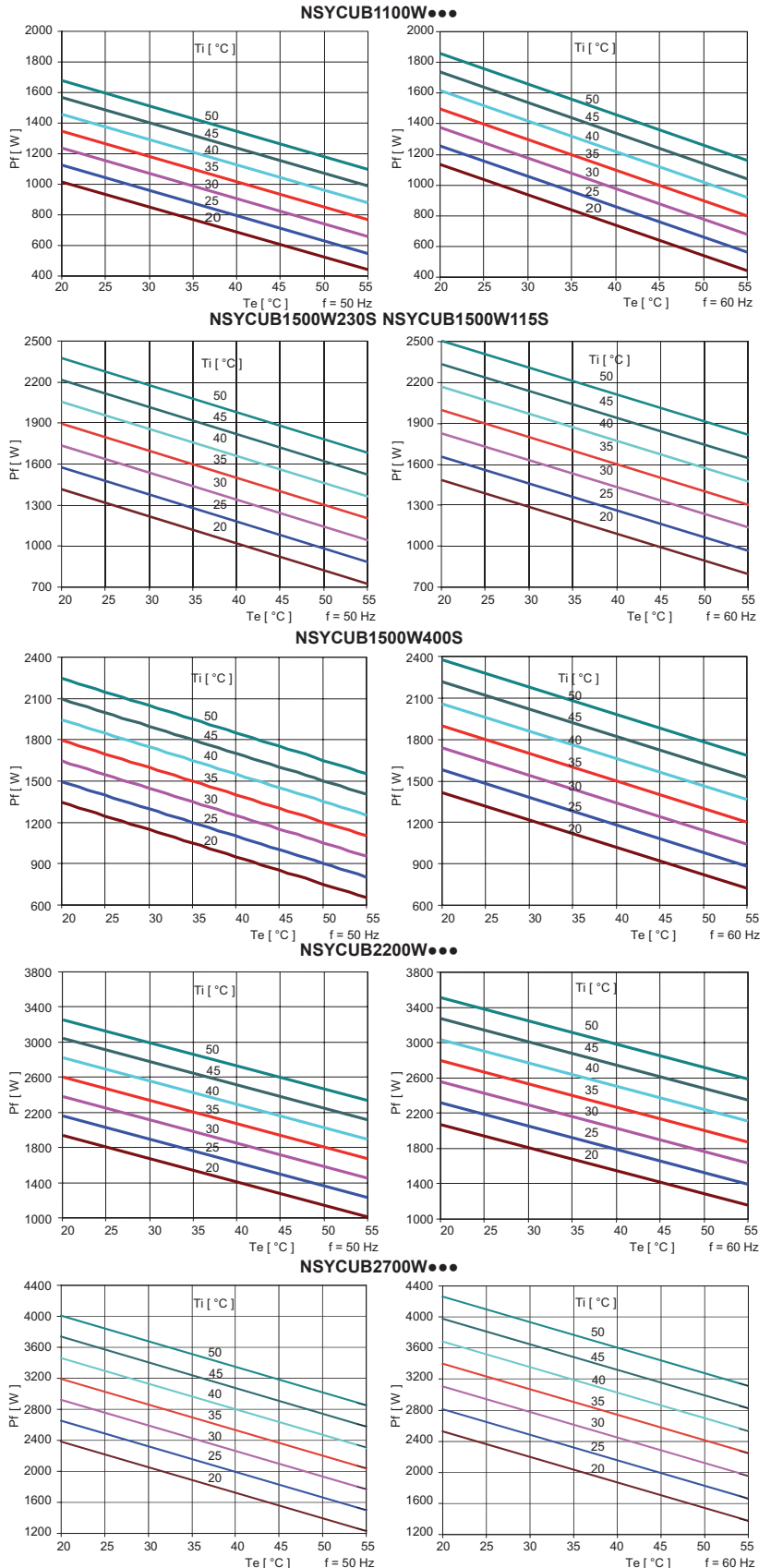
Reference	NSYCUB2700W230S	NSYCUB2700W400S
	2700 W	2700 W
Voltage	230 V 50/60 Hz	3 x 400 V 50Hz/3 x 460V 60Hz
Power according to EN14511		
L35-35	2700 W/2900 W (9218/9901 Btu/h)	2700 W/2900 W (9218/9901 Btu/h)
L35-L50	2200 W/2400 W (7511/8194 Btu/h)	2200 W/2400 W (7511/8194 Btu/h)
Intensity		
Starting current	24.8/28.2 A	9/10.6 A
Rated current	6.4/6.7 A	3/3.5 A
Power consumption absorbed		
L35-L35	1200/1400 W	1700/2000 W
L50-L35	1400/1700 W	2000/2300 W
Energy efficiency ratio (EER)		
L35-L35	2.3/2.1	1.6/1.5
Noise level	69 dB (A)	69 dB (A)
Air flow		
of the internal circuit	1050/1160 m ³ /h	1050/1160 m ³ /h
of the external circuit	1200/1340 m ³ /h	1200/1340 m ³ /h
Weight of unit	57 kg	60 kg
Thermal protection recommended (fuse melt curve)	T8A	T4A

SLIM covers			
	Surface-mounting	Partial flush-mounting	Flush-mounting
RAL 7035	NSYCUCL	NSYCUCH	NSYCUCF
Stainless-steel	NSYCUCLX	NSYCUCHX	NSYCUCFX



Modular version: Always order one SLIM cooling unit reference plus one cover reference.

Curves

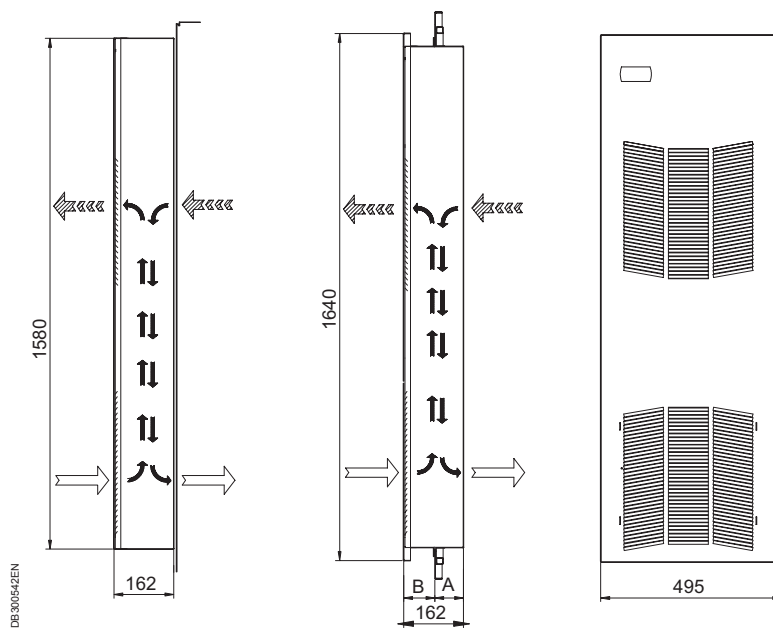
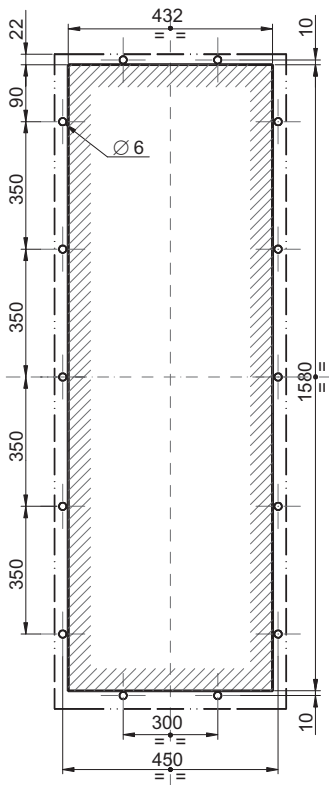


DB300541

Cooling unit

SLIM electronic control

Template for:
 - flush-mounting
 - half flush-mounting
 - surface-mounting



Version	Flush-mounting	Half flush-mounting	Surface mounting
A = inside the enclosure	141 mm	81 mm	29 mm
B = outside the enclosure	21 mm	81 mm	133 mm

Cooling unit

SLIM accessories

Device for dissipating condensation water (internal installation)

- Device for dissipating condensation water (internal installation) allowing the evacuation of condensation water from the internal battery (evaporator).

	Voltage	Starting current	Thermal protection recommended	Evaporation capacity	Resistance type
Operating voltage $\pm 10\%$	230 V~	2.9 A	T 3 A	200 cl/h	PTC
	115 V~	5.8 A	T 6 A		

Description	Reference
Heat sink	NSYCUASD

Electronic display

Enables control of the thermostat and displays the temperature inside the enclosure. The display is supplied with a connection cable and a metal plate for inserting the display in the cover of the cooling unit. No prior programming is required.

Description	Reference
Display	NSYCUAY

Insulated resistance heaters

Introduction

The resistance heaters prevent the formation of condensation and guarantee the ideal temperature for the correct operation of the electronic components in the enclosure.



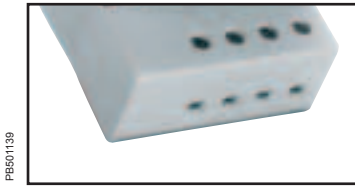
Large range of power levels

- 2 versions: by natural convection and with fan.
- AC or DC power supply.
- 7 power levels, from 10 W to 550 W.



Innovating design

Covered with plastic to prevent direct contact with the aluminium radiator.



Easy installation and connection

- Reduced dimensions.
- Quick electric connection by terminal board.
- No maintenance required.
- Direct clipping onto a 35 mm DIN rail.



Safety

- The protection prevents direct contact with the aluminium radiator.
- Electric protection device with terminal block cover.
- Equipped with a PTC-type heater.
- Surface temperature lower than 70 °C.

High thermal efficiency

- The configuration of the aluminium profile produces a "chimney" effect: high natural convection.
- Low power consumption thanks to self-control of the PTC-type heater.



Models with fan

- The heaters equipped with a fan ensure circulation of the air and a uniform temperature inside the enclosure.
- High-flow, silent fan.

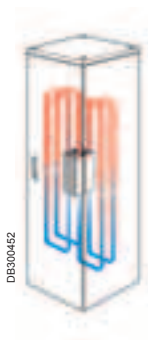


Certifications

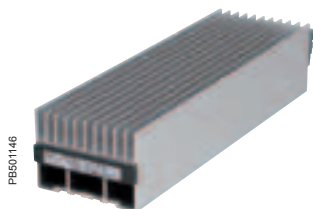
- CE marking.
- Range compliant with UL and VDE.

Aluminium resistance heaters

Introduction



The resistance heaters prevent the formation of condensation and guarantee the ideal temperature for the correct operation of the electronic components in the enclosure.



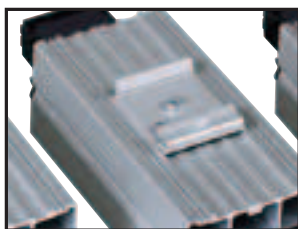
Resistance heaters equipped with a PTC-type sensor

The resistance heaters for electrical and electronic enclosures are equipped with PTC-type heating devices (Positive Temperature Coefficient). Thanks to these heaters:

- The surface temperature stabilises at 75 °C when the ambient temperature is -5 °C.
- Power consumption is reduced.

Improved convection

The design of the profile of the resistance heaters produces a "chimney" effect, leading to increased natural convection and maintaining an even temperature inside the enclosure.



Quick fixing

The resistance heaters are fixed by means of fixing clips to a 35 mm DIN rail.



Connection cables

The 10 and 20 W heaters are equipped with a 2 x 0.75 x 300 mm power cord.



Connection terminal boards

Heaters with a power of more than 20 W are equipped with a connection terminal board.

Large range of power levels

8 power levels, from 10 W to 400 W.



Models with fan

Models of 250 to 400 W with fan.

Resistance heaters

Applications



PB601150

Conditions of use

- The resistance heaters are controlled by a thermostat or a hygrostat.
- The enclosure must be sealed to prevent the entry of air from the outside.



PB601151

Dew point temperature

The dew point temperature is the minimum temperature that can be reached before condensation begins to form.

Example:

Ambient temperature = 25 °C.

Relative humidity = 50 %.

A temperature of more than 14 °C must be guaranteed inside the enclosure.

Relative humidity (%)	Ambient temperature (°C)							
	20	25	30	35	40	45	50	55
40	6	11	15	19	24	28	33	37
50	9	14	19	23	28	32	37	41
60	12	17	21	26	31	36	40	45
70	14	19	24	29	34	38	43	48
80	16	21	26	31	36	41	46	51
90	18	23	28	33	38	43	48	53
100	20	25	30	35	40	45	50	55



PB601152

Installation tips

- Install several heaters according to the desired power level at the bottom of the enclosure.
- Respect a safety area of at least 10 cm around the device.
- Do not install any bulky devices above the heater, since this could reduce the effect of natural convection.
- Do not install any components that are particularly sensitive to heat directly above a heater.
- If several heaters are used, they must be installed in parallel. Serial installation is not an option.
- The heater must be installed vertically to ensure optimum convection.

Resistance heaters

Selection guide



Insulated resistance heaters

Power (W)	Voltage (V)	Connection type Terminal block	Reference
10	12-24 DC	•	NSYCR10WU1C
10	110-250 AC	•	NSYCR10WU2C
21	12-24 DC	•	NSYCR20WU1C
21	110-250 AC	•	NSYCR20WU2C
55	12-24 DC	•	NSYCR50WU1C
55	110-250 AC	•	NSYCR50WU2C
55	270-420 AC	•	NSYCR50WU3C
100	12-24 DC	•	NSYCR100WU1C
100	110-250 AC	•	NSYCR100WU2C
100	270-420 AC	•	NSYCR100WU3C
147	12-24 DC	•	NSYCR150WU1C
147	110-250 AC	•	NSYCR150WU2C

Resistance heaters

Selection guide



Insulated resistance heater with fan

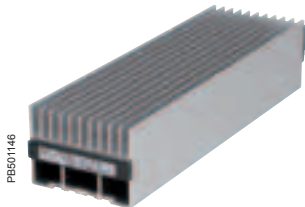
Power (W)	Voltage (V)	Connection type Terminal block	Reference
177	230 AC	•	NSYCR170W230VVC



Thermofans

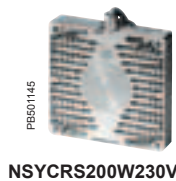
Power (W)	Voltage (V)	Connection type Terminal block	Reference
350	230 AC	•	NSYCR350W230VTVC
400/550	120 AC	•	NSYCRP1W120VTVC
400/550	230 AC	•	NSYCRP1W230VTVC

NSYCR350W230VTVC



Resistance heaters

Power (W)	Voltage (V)	Connection type		Reference
		Terminal block	Cable	
10	12-24 DC		•	NSYCR10WU1
10	110-250 AC		•	NSYCR10WU2
20	12-24 DC		•	NSYCR20WU1
20	110-250 AC		•	NSYCR20WU2
20	270-420 AC	•		NSYCR20WU3
55	12-24 DC	•		NSYCR55WU1
55	110-250 AC	•		NSYCR55WU2
55	270-420 AC	•		NSYCR55WU3
90	12-24 DC	•		NSYCR100WU1
90	110-250 AC	•		NSYCR100WU2
90	270-420 AC	•		NSYCR100WU3
150	12-24 DC	•		NSYCR150WU1
150	110-250 AC	•		NSYCR150WU2
150	270-420 AC	•		NSYCR150WU3



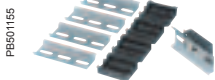
Resistance heaters with fan

Power (W)	Voltage (V)	Connection type Terminal block	Reference
250	115 AC	•	NSYCR250W115VV
250	230 AC	•	NSYCR250W230VV
400	115 AC	•	NSYCR400W115VV
400	230 AC	•	NSYCR400W230VV
200	115 AC	•	NSYCRS200W115V
200	230 AC	•	NSYCRS200W230V

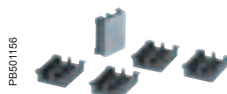
NSYCRS200W230V

Fixing accessories

Description	Reference
Set of 5 studs	NSYCRAF
Set of 5 studs and DIN rail	NSYCRAFD



NSYCRAFD



NSYCRAF



Insulated resistance heater 10 W and 20 W

General characteristics

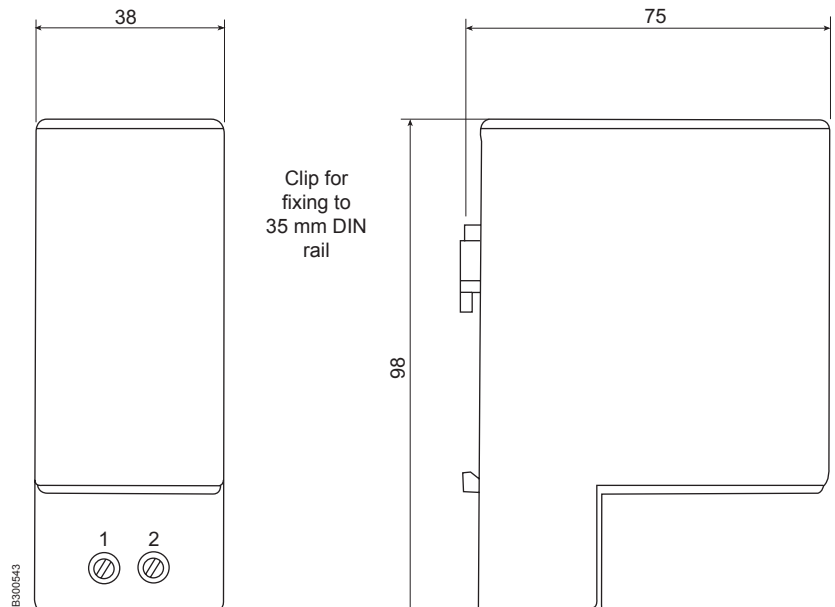
- Compact resistance heater preventing the formation of condensation or frost.
- Designed to ensure good natural convection and high thermal efficiency.
- Compact design with reduced dimensions.
- Extruded aluminium body.
- Covered with a UL94 V0 plastic cover, light grey, to avoid direct contact with the heating elements.
- Surface temperature limited to 70 °C.
- Equipped with a power cable.
- Double insulated.
- Range with PTC technology.
- Quick fixing by clip on a 35-mm DIN rail.
- UL and VDE certifications. CE marking.

Conditions of use

- The heaters must be installed with a thermal controller (see selection table on pages 764 and 765) to control the temperature or the humidity inside the enclosure.
- The enclosure must be sealed to prevent the entry of air from the outside.
- An electrical protection device must be installed on the supply side of the unit.

Specifications	Reference			
	NSYCR10WU2C	NSYCR10WU1C	NSYCR20WU2C	NSYCR20WU1C
Power at 0 °C	10 W		20 W	
Voltage	110-250 V AC	12-24 V DC	110-250 V AC	12-24 V DC
Technology	PTC			
Surface temperature	<70 °C, except for the top protection grille			
Electric connection	2 poles, 2.5 mm ²			
Mounting	Quick by clip on a 35-mm DIN rail.			
Cover	UL94 V0 plastic			
Operating position	Vertical			
Operating temperature	-40...+70 °C	-10...+158 °F		
IP protection rating	IP 20 class II (double insulated)			
Certifications	VDE and UL			

Dimensions





Insulated resistance heater 55 W - 100 W - 147 W

General characteristics

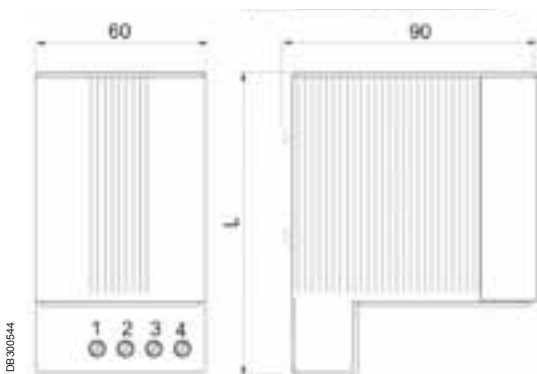
- Compact resistance heater preventing the formation of condensation or frost.
- Designed to ensure good natural convection and high thermal efficiency.
- Compact design with reduced dimensions.
- Extruded aluminium body.
- Covered with a UL94 V0 plastic cover, light grey, to avoid direct contact with the heating elements.
- Surface temperature limited to < 70 °C.
- Equipped with quick-connection terminals: 2.5 mm².
- Double insulated.
- Range with PTC technology.
- Quick fixing by clip on a 35-mm DIN rail.
- UL and VDE certifications. CE marking.

Conditions of use

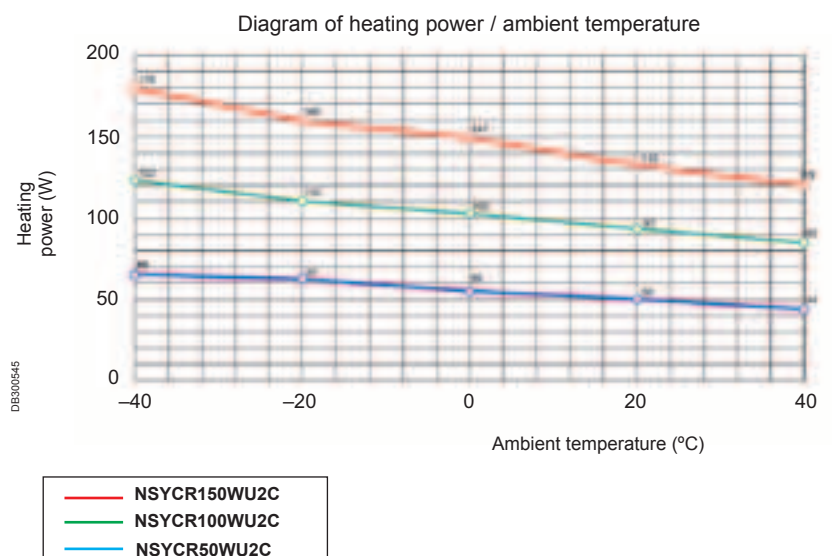
- The heaters must be installed with a thermal controller (see selection table on pages 764 and 765) to control the temperature or the humidity inside the enclosure.
- The enclosure must be sealed to prevent the entry of air from the outside.
- An electrical protection device must be installed on the supply side of the unit.

Specifications	Reference							
	NSYCR50WU2C	NSYCR50WU1C	NSYCR50WU3C	NSYCR100WU2C	NSYCR100WU1C	NSYCR100WU3C	NSYCR150WU2C	NSYCR150WU1C
Power at 0 °C	55 W			100 W			147 W	
Voltage	110-250 V AC	12-24 V DC	270-420 V AC	110-250 V AC	12-24 V DC	270-420 V AC	110-250 V AC	12-24 V DC
Technology	PTC							
Surface temperature	<70 °C, except for the top protection grille							
Electric connection	4 poles, 2.5 mm ²							
Mounting	By clip on 35-mm DIN rail							
Cover	UL94 V0 plastic							
Operating position	Vertical							
Operating temperature	-40...+70 °C				-10...+158 °F			
IP protection rating	IP 20 class II (double insulated)							
Certifications	VDE and UL							
Height (H)	110 mm				150 mm			

Dimensions



Performance diagram





177 W

General characteristics

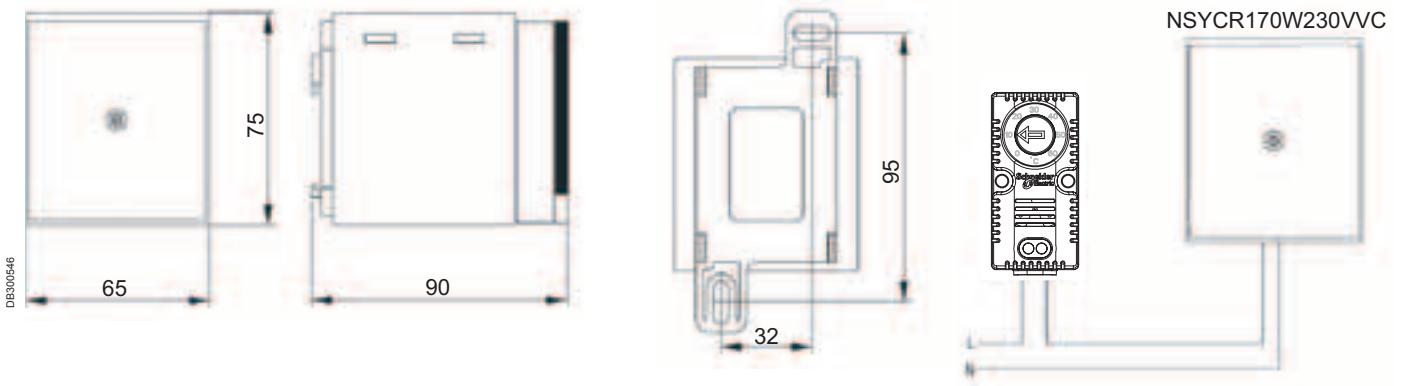
- Compact resistance heater preventing the formation of condensation or frost.
- Equipped with an axial fan for uniform heating inside the enclosure.
- Compact design with reduced dimensions.
- Extruded aluminium body.
- Covered with a UL94 V0 plastic cover, light grey, to avoid direct contact with the heating elements (PTC).
- Surface temperature limited to 50 °C.
- Equipped with quick-connection terminals: 2.5 mm².
- Double insulated.
- Range with PTC technology.
- Quick fixing by clip on a 35 mm DIN rail.
- UL and VDE certifications. CE marking.

Conditions of use

- The heaters must be installed with a thermal controller (see selection table on pages 764 and 765) to control the temperature or the humidity inside the enclosure.
- The enclosure must be sealed to prevent the entry of air from the outside.
- An electrical protection device must be installed on the supply side of the unit.

Specifications	Reference
	NSYCR170W230VVC
Power at 0 °C	177 W
Voltage	230 V AC; 50-60 Hz
Technology	PTC
Surface temperature	Max. 50 °C in the enclosure, 100 °C on the top protection grille (for an ambient temperature of 20 °C / 68 °F)
Service life	40,000 h at 40 °C
Air flow	13.8 m ³ /h
Electric connection	2 poles 2.5 mm ²
Mounting	By clip on 35 mm DIN rail
Cover	UL94 V0 plastic
Operating position	Vertical
Operating temperature	-40...+70 °C -10...+158 °F
IP protection rating	IP 20 class II (double insulated)
Certifications	VDE and UL

Dimensions



DS300546

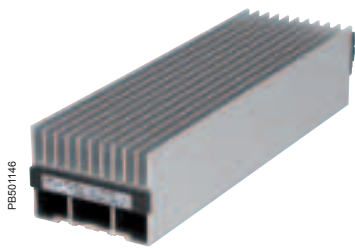


General characteristics

- Extruded aluminium body.
- Surface temperature limited to 75 °C when the ambient temperature is -5 °C.
- Heaters equipped with a power cable with a length of 500 mm with silicon insulation, or with a connection terminal block.

Conditions of use

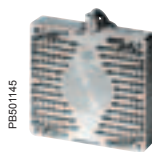
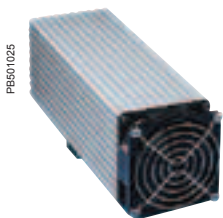
- The heaters must be installed with a thermal controller (see selection table on pages 764 and 765) to control the temperature or the humidity inside the enclosure.
- The enclosure must be sealed to prevent the entry of air from the outside.
- An electrical protection device must be installed on the supply side of the unit.



Aluminium resistance heaters

- Range of resistance heaters from 10 to 400 W, heating the electrical switchboard to prevent the formation of condensation.

Power (W)	Voltage (V)	Connection type		Reference
		Terminal block	Power cord	
10	12-24 DC		•	NSYCR10WU1
10	110-250 AC		•	NSYCR10WU2
20	12-24 DC		•	NSYCR20WU1
20	110-250 AC		•	NSYCR20WU2
20	270-420 AC	•		NSYCR20WU3
55	12-24 DC	•		NSYCR55WU1
55	110-250 AC	•		NSYCR55WU2
55	270-420 AC	•		NSYCR55WU3
90	12-24 DC	•		NSYCR100WU1
90	110-250 AC	•		NSYCR100WU2
90	270-420 AC	•		NSYCR100WU3
150	12-24 DC	•		NSYCR150WU1
150	110-250 AC	•		NSYCR150WU2
150	270-420 AC	•		NSYCR150WU3



NSYCRS200W230V

Resistive heaters with fan

- The presence of a fan guarantees perfect uniformity of the temperature inside the electrical switchboard.
- The heaters must be installed with a thermal controller (see selection table on pages 764 and 765) to control the temperature or the humidity inside the enclosure.

Power (W)	Voltage (V)	Connection type Terminal block	Reference
250	115 AC	•	NSYCR250W115VV
250	230 AC	•	NSYCR250W230VV
400	115 AC	•	NSYCR400W115VV
400	230 AC	•	NSYCR400W230VV
200	115 AC	•	NSYCRS200W115V
200	230 AC	•	NSYCRS200W230V



PB501153

NSYCR350W230VTVC



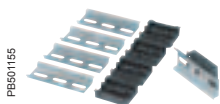
PB501154

NSYCRP1W230VTVC

Thermofan

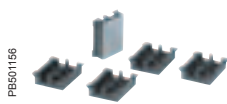
- Combination of a resistance heater and an axial motor to ensure uniform heating of the enclosure.
- Fixing by clip on a DIN rail.
- Thermostat adjustable from 0...+60 °C.
- Visual operation indicator.

Power (W)	Voltage (V)	Connection type Terminal block	Reference
350	230 AC	•	NSYCR350W230VTVC
400/550	120 AC	•	NSYCRP1W120VTVC
400/550	230 AC	•	NSYCRP1W230VTVC



PB501155

NSYCRAFD

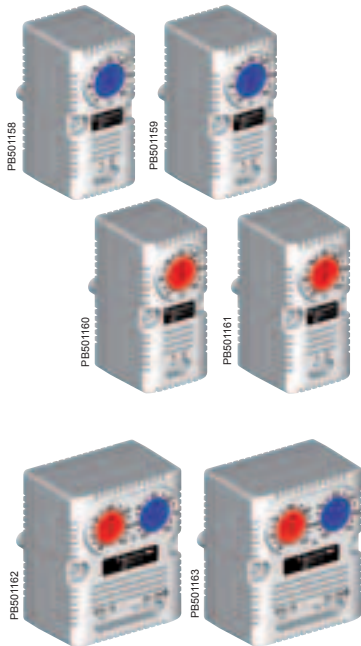


PB501156

NSYCRAF

Fixing accessories

Description	Reference
Set of 5 studs	NSYCRAF
Set of 5 studs and DIN rail	NSYCRAFD



Adjustable thermostats

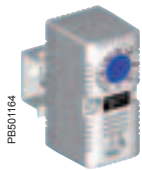
- NO (blue button) with normally open contact to control the starting of a fan when the temperature exceeds the displayed maximum value.
- NC (red button) with normally closed contact to control the stopping of a resistance heater when the temperature exceeds the displayed value.
- Large range of temperature control.
- Small dimensions.
- Easily accessible terminals.
- High connection power.
- 4 types of fixings (novelty).

Double-adjustable thermostat

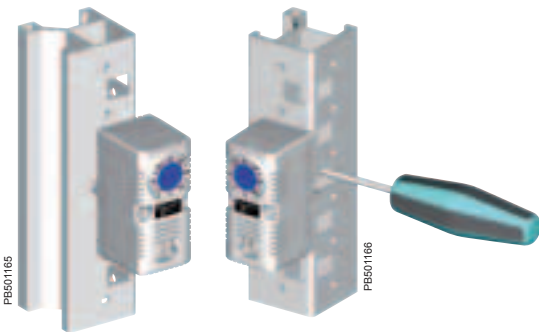
- Double temperature control with a resistance heater and a fan with separate operation.
- Red button: with normally closed contact (NC) for controlling the resistance heaters.
- Blue button: with normally open contact (NO) for controlling the fans.
- A double thermostat with separate adjustments and operations within the same device.
- Easily accessible terminals.
- Different installation methods.

The new quick-fixing systems:

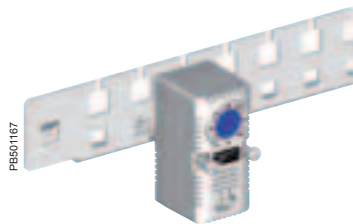
- On 35 mm DIN rail.



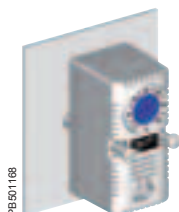
- On Spacial upright.



- On cross-rail.



- On mounting plate.





Thermostat with NO/NC contact

- NO/NC inverter for controlling the resistance heaters or the fans.
- Switching by means of two NO/NC contacts.
- Easily accessible terminals.
- High connection power.
- 4 types of quick-fixing systems.
- Versions in °C and °F.



Electronic thermostat with LCD screen

- Three thermostats for different input voltages (9-30 V, 110-127 V, 220-240 V).
- Operating temperature: 0 °C...+50 °C.
- Simple programming.
- Option of installing an external sensor, ref. **NSYCCAST** for remotely reading the temperature (operating temperature: -30 °C...+80 °C).
- Ventilation and heating function (2 separate relays).
- High switching power.
- Hysteresis: 2 K (+/-0.1 K).
- 7 different operating modes.
- Additional operating mode with 1 external sensor: Reads and compares the internal and external temperatures in order to control the ventilation, heating or the alarm.
- Temperature adjustment range: +5 °C...+50 °C.



Electronic hygrotherms

- Electronic hygrotherms for different input voltages (9-30 V, 110-127 V, 220-240 V).
- Operating temperature: 0 °C...+ 50 °C.
- Option of installing an external sensor, ref. **NSYCCAST** for remotely reading the temperature (operating temperature: -30 °C...+80 °C).
- Simple programming.
- 3 different operating modes.
- High switching power.
- T hysteresis: 2 K (+/-0.1 K).
- RH hysteresis: 3%.
- Temperature adjustment range: +5 °C...+50 °C.
- Humidity adjustment range: 20%...80%.

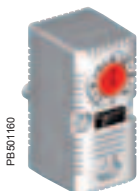


Electronic hygostat

- Electronic hygostat for different input voltages (110-240 V).
- Operating temperature: 0 °C...+50 °C.
- Simple programming.
- 2 different operating modes.
- High switching power.
- RH hysteresis: 3%.
- Humidity adjustment range: 20%...80% RH.

Control temperature

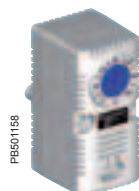
Control a resistance heater or an alarm



NC thermostat

Setting range	Display	Contact	Application	Control element	Interrupting capacity (resistive load)	Reference
0...+60 °C	°C	O	Heat	Bimetal	30 W DC 120 V AC; 15 A 250 V AC; 10 A	NSYCCOTHC
+32...+140 °F	°F					NSYCCOTHCF

Control a fan or an alarm



NO thermostat

Setting range	Display	Contact	Application	Control element	Interrupting capacity (resistive load)	Reference
0...+60 °C	°C	NO	Ventilate	Bimetal	30 W DC 120 V AC; 15 A 250 V AC; 10 A	NSYCCOTH0
+32...+140 °F	°F					NSYCCOTH0F

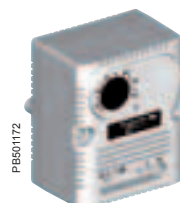
Control a resistance heater and a fan



Double thermostat

Setting range	Display	Contact	Application	Control element	Interrupting capacity (resistive load)	Reference
0...+60 °C	°C	NC + NO	Heat / Ventilate	Bimetal	30 W DC 120 V AC; 15 A 250 V AC; 10 A	NSYCCOTHD
+32...+140 °F	°F					NSYCCOTHDF

Control a resistance heater or a fan



Thermostat with inverse contact

Setting range	Display	Contact	Application	Control element	Interrupting capacity (resistive load)	Reference
0...+60 °C	°C	Inverse	Heat or ventilate	Bimetal	Closing: 30 W DC 250 V AC; 5 A Opening: 30 W DC 250 V AC; 10 A	NSYCCOTH1
+32...+140 °F	°F					NSYCCOTH1F

Thermal control

Selection guide electronic version

Control temperature

Control a resistance heater or a fan



Electronic thermostat

Setting range	Display	Power input	Application	Control element	No. of relays	Interrupting capacity (resistive load)	Reference
+5 °C...+50 °C	°C or °F	9-30 V AC/DC	Heat or ventilate	Electronic	2	8 (5) A 230 V AC 5 A 30 V DC	NSYCCOTH30VID
		110-127 V AC					NSYCCOTH120VID
		220-240 V AC					NSYCCOTH230VID

7 different operating modes.
Option of installing one or two external sensors.

Control temperature and relative humidity



Electronic hygrotherm

Setting range	Display	Power input	Application	Control element	No. of relays	Interrupting capacity (resistive load)	Reference
+5 °C...+50 °C	°C or °F	9-30 V AC/DC	Heat or ventilate	Electronic	2	8 (5) A 230 V AC 5 A 30 V DC	NSYCCOHT30VID
		110-127 V AC					NSYCCOHT120VID
		220-240 V AC					NSYCCOHT230VID

3 different operating modes.
Option of installing an external sensor.

Control relative humidity



Electronic hygrostat

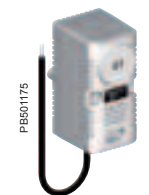
Setting range	Display	Power input	Application	Control element	No. of relays	Interrupting capacity (resistive load)	Reference
20%...80%	% RH	110-240 V AC	Heat or ventilate	Electronic	2	8 (5) A 230 V AC 5 A 30 V DC	NSYCCOHY230VID

2 different operating modes.

PTC external temperature sensor (double insulation)

- Length: 3 metres.
- Several types of fixings (on DIN rail, on Spacial SF profile, on VDI cross-rail, on mounting plate).
- Sensor operation or reading range: -30 °C...+80 °C.
- Protection rating: IP 67.

Reference
NSYCCAST



Temperature sensor

Thermostat installation tips:

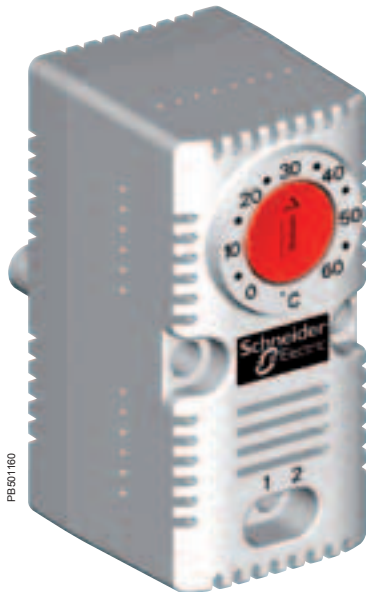
The thermostat should be installed at the top of the enclosure (the hottest place). See the various operating modes of each thermostat to choose the one that best meets your needs.

Hygrostat installation tips:

The hygrostat should be installed at the bottom of the enclosure. 60% RH is the optimum value in the enclosure.

Thermal control

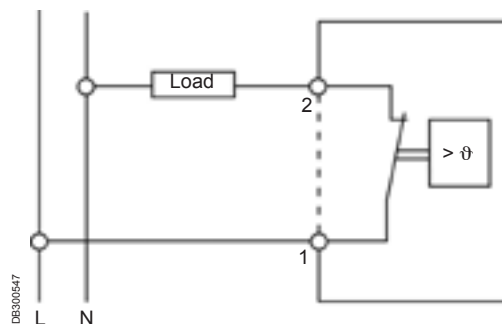
Thermostat with NC contact



- Thermostat with NC contact to control the stopping of a resistance heater when the temperature exceeds the displayed value.
- This considerably lengthens the service life of the resistance heaters since they are used less frequently.
- Protection rating: IP 20.
- PC plastic material, self-extinguishing according to standard UL94 V0.
- Temperature adjustment range: 0...+60 °C
- Connection: four 2.5 mm² terminals.
- Multiple fixing systems.
- UL certification.

Display	Max. command I.	Reference
°C	10 A 250 V	NSYCCOTHC
°F	10 A 250 V	NSYCCOTHCF

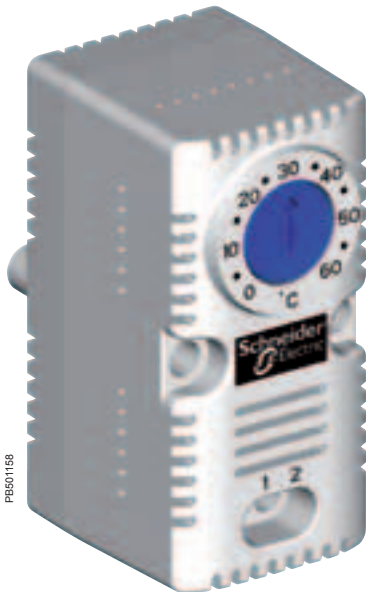
Technical features	
Sensor element	Bimetal
Contact	NC, forced rupture
Contact resistance	< 10 mΩ
Service life	> 100000 cycles
Switching capacity	250 V AC; 10 A (resistive load)
	120 V AC; 15 A (resistive load)
	250 V AC/120 V AC 2 A (inductive load cos φ = 0.6)
Connection	Four 2.5 mm ² terminals
Mounting	By clip on 35 mm DIN rail
Enclosure	UL94 V0 plastic, light grey
Dimensions	60 x 33 x 43 mm
Weight	40 g
Mounting position	Indifferent
Operating temperature	-20...+80 °C (-4...+176 °F)
Protection rating	IP 20
Hysteresis	7 °K
Temperature setting range	0...+60 °C



Load = resistance

Thermal control

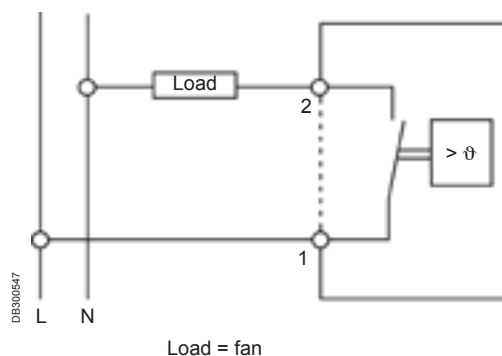
Thermostat with NO contact



- Thermostat with NO contact to control the starting up of a fan when the temperature exceeds the displayed maximum value.
- It can control the temperature inside the enclosure by only starting up the fan when necessary, thus increasing the service life of the fan and reducing the clogging of the filter.
- Protection rating: IP 20.
- PC plastic material, self-extinguishing according to standard UL94 V0.
- Temperature setting range: 0...+60 °C
- Connection: four 2.5 mm² terminals.
- Multiple fixing systems.
- UL certification.

Display	Max. command I.	Reference
°C	10 A 250 V	NSYCCOTH0
°F	10 A 250 V	NSYCCOTHOF

Technical features	
Sensor element	Bimetal
Contact	NO, forced rupture
Contact resistance	< 10 mΩ
Service life	> 100000 cycles
Switching capacity	250 V AC; 10 A (resistive load)
	120 V AC; 15 A (resistive load)
	250 V AC/120 V AC 2 A (inductive load cos Ω= 0.6)
30 W DC	
Connection	Four 2.5 mm ² terminals
Mounting	Clip on 35 mm DIN rail
Enclosure	UL94 V0 plastic, light grey
Dimensions	60 x 33 x 43 mm
Weight	40 g
Mounting position	Indifferent
Operating temperature	-20...+80 °C (-4...+176 °F)
Protection rating	IP 20
Hysteresis	7 °K
Temperature adjustment	0...+60 °C



Thermal control

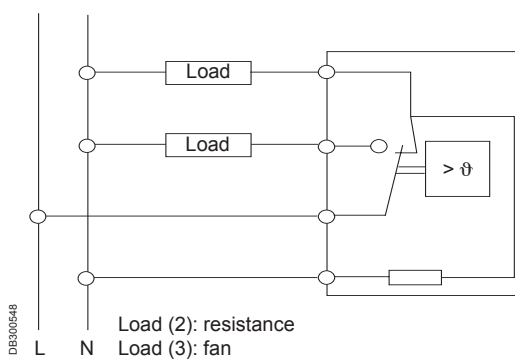
Thermostat with NO/NC contact



- Thermostat (contact adapted to control fans, resistance heaters, ventilation drawers, heat exchangers, etc).
- Signals and controls the temperature inside the enclosure.
- Fixing on a DIN rail.
- Protection rating: IP 20.
- PC plastic material, self-extinguishing according to standard UL94 V0.
- Temperature setting range: 0...+60 °C.
- Connection: four 2.5 mm² terminals.

Display	Max. command I.	Reference
°C	(NO) 5 A (NC) 10 A	NSYCCOTHI
°F		NSYCCOTHIF

Technical features	
Sensor element	Bimetal
Contact	Inverse, forced rupture
Contact resistance	< 10 mΩ
Service life	> 100000 cycles
Switching capacity	250 V AC; 10 A (resistive load)
Maximum interrupting capacity with direct current	250 V AC 4 A (inductive load cos φ = 0.6) 30 W DC
Connection	Four 2.5 mm ² terminals
Mounting	By clip on 35 mm DIN rail
Enclosure	UL94 V0 plastic, light grey
Dimensions	67 x 50 x 44 mm
Weight	100 g
Mounting position	Indifferent
Operating temperature	-20...+80 °C (-4...+176 °F)
Protection rating	IP 20
Hysteresis	7 °K
Temperature setting range	+5...+60 °C



Thermal control

Double thermostat

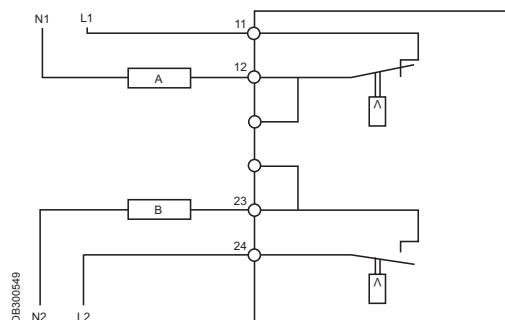


PS601162

- Double thermostat: two thermostats in a single device with separate adjustment and operation.
- Red button: with normally closed contact (NC) for controlling the resistance heaters.
- Blue button: with normally open contact (NO) for controlling the fans, signalling systems or alarms.
- This thermostat can control the activation of a fan and a heater controlling the temperature independently.
- PC plastic material, self-extinguishing according to standard UL94 V0.
- Multiple fixing systems.
- UL certification.

Display	Max. command I.	Reference
°C	(NO) 5 A (NC) 10 A	NSYCCOTHD
°F		NSYCCOTHDF

Technical features	
Sensor element	Bimetal
Contact	NO / NC, forced rupture
Contact resistance	< 10 mΩ
Service life	> 100000 cycles
Switching capacity	250 V AC; 10 A (resistive load) 120 V AC; 15 A (resistive load) 250 V AC/120 V AC 2 A (inductive load cos φ = 0.6) 30 W DC
Connection	Four 2.5 mm ⁶ terminals
Mounting	Clip on 35 mm DIN rail
Enclosure	UL94 V0 plastic, light grey
Dimensions	60 x 33 x 43 mm
Weight	40 g
Mounting position	Indifferent
Operating temperature	-20...+80 °C (-4...+176 °F)
Protection rating	IP 20
Hysteresis	7 °K
Temperature setting range	0...+60 °C



DB300549

Thermal control

Electronic thermostat with LCD screen



PE501173

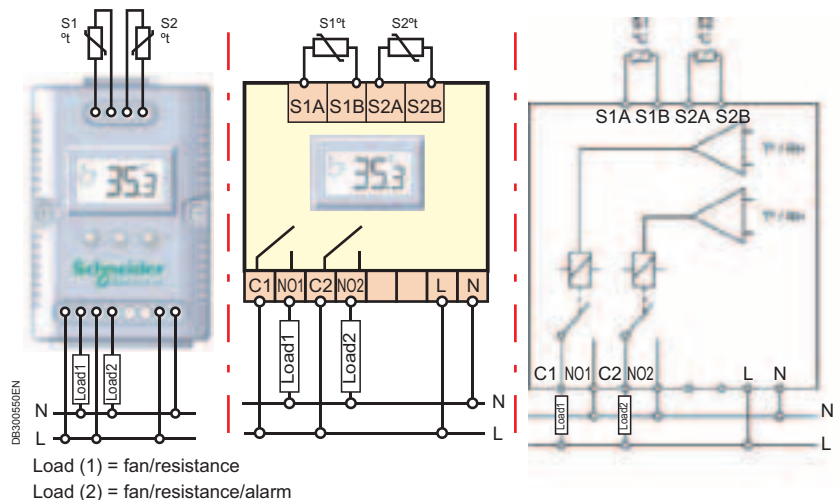
- Electronic temperature controller.
- Input voltages: 9-30 V, 110-127 V and 220-240 V.
- Thermostats with 2 independent switching relays (ventilation / heating function).
- Thermostat precision: ± 1.5 °C.
- Option of installing external PTC sensors, ref. **NSYCCAST**, for remote reading (L = 3 m).
- PC plastic material, self-extinguishing according to standard UL94 V0.
- Option of displaying degrees Celsius °C or Fahrenheit °F in the same thermostat.

Display	Voltage	Type of current	Max. command intensity	Reference
°C or °F	9-30 V	AC DC	8 (5) A 230 V AC / 5 A 30 V DC	NSYCCOTH30VID
	110-127 V	AC		NSYCCOTH120VID
	220-240 V			NSYCCOTH230VID

Technical features	
Operating temperature	0 °C...+50 °C
Temperature setting range	+5 °C...+50 °C
Hysteresis	Programmed 2 °K
Internal sensor element	Internal temperature sensor
Connection	2 x 2.5 mm ² (input voltage) + 2 relays (2 x 2.5 mm ² + 2 x 2.5 mm ²)
Contact	Free with zero potential
Mounting	4 different methods: by DIN rail, Spacial SF profile, on VDI cross-rail or on mounting plate
Enclosure	UL94-V0 plastic, light grey
Certification	UL / UR

7 different operating modes in the same thermostat	
1	Ventilation (the addition of an external sensor inhibits the inner sensor and the reading is that of the external sensor) (activate 1st relay)
2	Heating (activate 2nd relay)
3	Ventilation / Heating (2 relays)
4	Double ventilation (2 relays)
5	Double heating (2 relays)
6	Comparison function (1 or 2 external sensors required). Compares the readings from the external sensor and the internal sensor in order to start up a fan or a heating element
7	Readings of max./min. temperature.

The thermostat automatically detects any connected sensors.



Thermal control

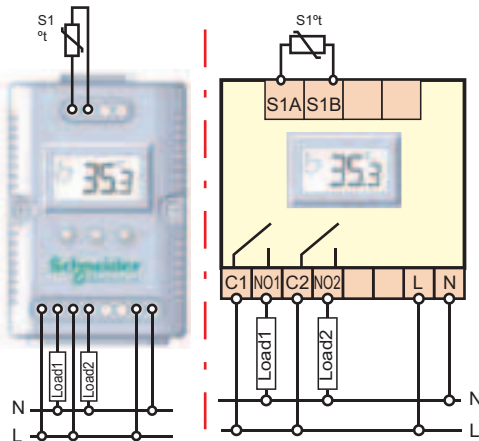
Electronic hygrotherm with LCD screen



- Electronic temperature and humidity controller.
- Input voltages: 9-30 V, 110-127 V and 220-240 V.
- Hygrotherm with 2 independent switching relays (ventilation / heating function).
- Thermostat precision: +/-1.5 °C.
- Hygrostat precision: +/-5% RH, relative humidity.
- Option of installing external PTC sensors, ref. **NSYCCAST**, for remote reading (L = 3 m).
- PC plastic material, self-extinguishing according to standard UL94 V0.
- Option of displaying the temperature in degrees Celsius °C or Fahrenheit °F.

Display	Voltage	Type of current	Max. command intensity	Reference
°C or °F % RH	9-30 V	AC DC	8 (5) A 230 V AC / 5 A 30 V DC	NSYCCOHYT30VID
	110-127 V	AC		NSYCCOHYT120VID
	220-240 V			NSYCCOHYT230VID

Technical features	
Operating temperature	0 °C...+50 °C
Temperature setting range	+5 °C...+50 °C
Humidity setting range	20%...80%
RH hysteresis	3%
Connection	2 x 2.5 mm ² (input voltage) + 2 relays (2 x 2.5 mm ² + 2 x 2.5 mm ²)
Contact	Free with zero potential
Mounting	4 different methods: by DIN rail, Spacial SF profile, on VDI cross-rail or on mounting plate
Enclosure	UL94-V0 plastic, light grey
Certification	UL / UR



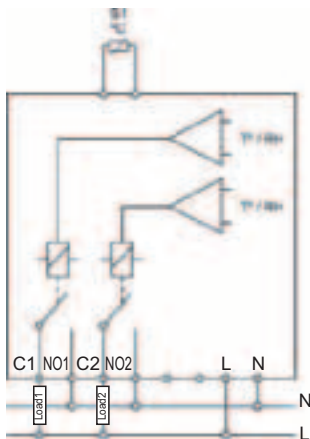
Operating modes

Mode 1	Relay 1	Relay 2
Controlled device	Fan	Resistance heater
Measured variables	Temperature	Temp. (T) and humidity (RH)
Control type	Avoid high temperatures	Avoid low temperatures

Mode 2	Relay 1	Relay 2
Controlled device	Resistance heater	Alarm by switching
Measured variables	Control of the dew point	Temperature and humidity
Control type	Avoid high humidity	High humidity or temperature alert

Mode 3	Relay 1	Relay 2
Controlled device	Fan	Resistance heater
Measured variables	External temperature - Internal temperature*	Temperature (T) and humidity (RH)
Control type	Heating by ventilation	Avoid low temperatures

*Comparison mode in relay 2: an external sensor is required for the comparison function (Text - Tint). Example of mode 3: Decides whether the external temperature is favourable and controls the ventilation (Relay 1) or heating (Relay 2). Advantage of mode 3: Energy efficiency. Option of efficiently heating the enclosure by ventilation (using hot external air) before bringing the resistance heater into operation. The thermostat automatically detects any connected sensors.



Load (1) = fan/resistance
Load (2) = fan/resistance/alarm

Thermal control

Electronic hygrostat with LCD screen



PE500081

- Electronic humidity controller.
- Input voltages: 110-240 V.
- Precision: +/- 5% RH, relative humidity.
- Hygrostat with 2 independent switching relays (ventilation / heating function).
- PC plastic material, self-extinguishing according to standard UL94 V0.
- 2 operating modes for RH %: relative humidity control and dew point control.

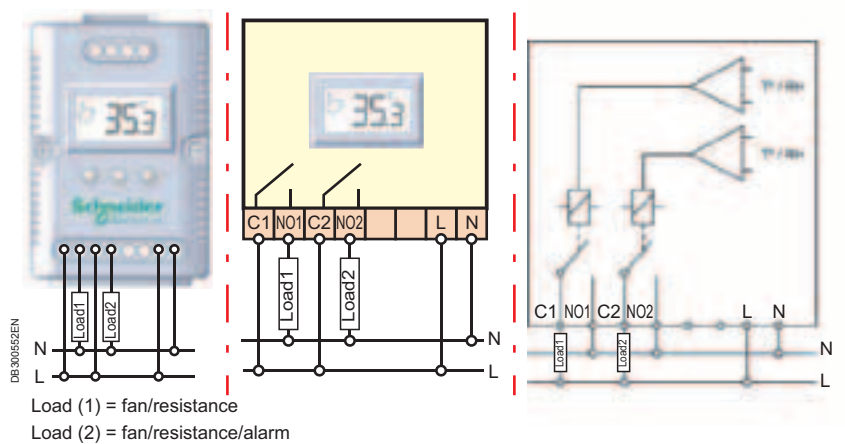
Display	Voltage	Type of current	Max. command intensity	Reference
% RH	110-240 V	AC	8 (5) A 230 V AC / 5 A 30 V DC	NSYCCOHY230VID

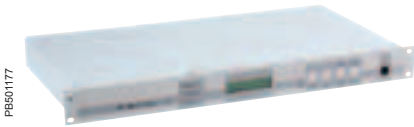
Technical features	
Humidity setting range	20%...80%
RH hysteresis	3%
Internal sensor element	Internal humidity sensor
Connection	2 x 2.5 mm ² (input voltage) + 1 relay (2 x 2.5 mm ²)
Contact	Free with zero potential
Mounting	4 different methods: by DIN rail, Spacial SF profile, on VDI cross-rail or on mounting plate
Enclosure	UL94-V0 plastic, light grey
Certification	UL / UR

Operating modes

Mode 1	Relay 1	Relay 2
Controlled device	Resistance	-
Measured variables	Humidity	-
Control type	Dehumidify RH (%)	-

Mode 2	Relay 1	Relay 2
Controlled device	Resistance	Alarm by switching or resistance
Measured variables	Humidity	Humidity
Control type	Dehumidify RH (%)	High humidity warning



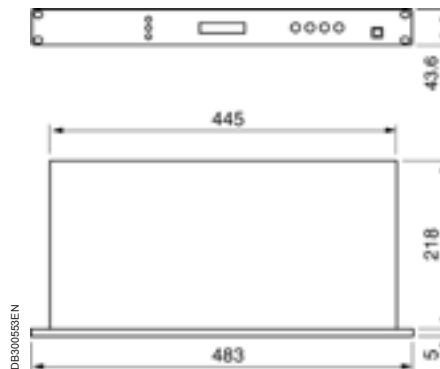


- The enclosure monitor checks and protects all the equipment in the distribution, network and server racks as well as their environment.
- Ambient parameters and operating states can be measured using various sensors and several inputs.
- Signalling and display: on the unit, serial interface, Ethernet network.
- Digital inputs and switching outputs enable permanent monitoring and adapted actions.

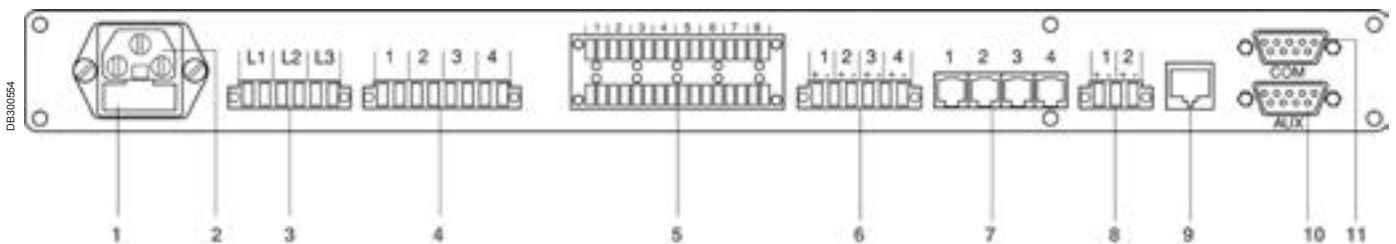
Reference
NSY11950

Possibilities for connection to the enclosure monitor:

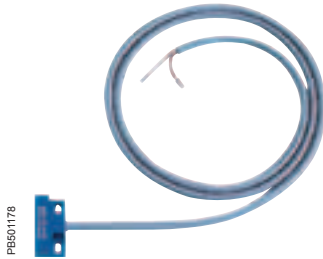
- 4 sensors ref. **NSY11951**, **NSY11952** and/or **NSY11953**.
- 4 sensors ref. **NSY11954** or **NSY11956**.
- 8 insulated digital inputs (free potential).
- 2 digital inputs.
- 1 series input used for monitoring devices with a communication protocol.



Connections and cabling diagram



- 1 Contact pin circuit breaker.
- 2 Connection to the network.
- 3 Connection of phase surveillance.
- 4 Digital switching outputs.
- 5 Digital inputs (ref. **NSY11955** and **NSY11958**).
- 6 Alarm inputs (ref. **NSY11954** and **NSY11956**).
- 7 Connection of a sensor, references **NSY11951**, **NSY11952** and **NSY11953**.
- 8 Connection of uninterruptible power supply.
- 9 Connection to Ethernet network RJ45.
- 10 Series interface for external devices.
- 11 Series interface for connection to a terminal.



PB501178

Door contact

- Monitors door access by means of a magnetic sensor that reacts to any material conducting magnetic flow.
- Length of cable supplied: 4 m.
- Maximum cable length: 20 m.
- Supplied with fixings.

Reference

NSY11955



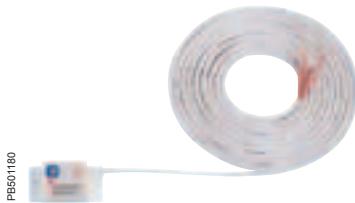
PB501179

Smoke detector

- Visible smoke detector with VdS approval for rapid fire detection, even with light smoke.
- Usable in temperature range from -20 to $+60$ °C.
- Length of cable supplied: 4 m.
- Maximum cable length: 20 m.
- Supplied with fixings.

Reference

NSY11954



PB501180

Vibration sensor

- Detects movements and vibrations of varying intensity.
- Adjustable sensitivity.
- Length of cable supplied: 4 m.
- Maximum cable length: 20 m.
- Supplied with fixings.

Reference

NSY11956



PB501181

Movement sensor

- Indicates movements in the area by infrared system.
- Adjustable sensitivity.
- Anti-sabotage protection
- Length of cable supplied: 4 m.
- Maximum cable length: 20 m.
- Supplied with fixings.

Reference

NSY11958

Water sensor

- Detects all liquids that conduct electricity.
- Sensor covered in araldite, 100% sealed.
- Usable in temperature range from -20 to +60 °C.
- Length of cable supplied: 5 m.
- Dimensions: 70 x 50 x 39 mm.

Weight (kg)	Reference
0.400	NSY11957



Extension cables

- 4 strand cable for sensors.
- Four lengths available: 5, 10, 15 and 20 metres.
- RJ11 connections.

Length (m)	Reference
5	NSY11959
10	NSY11960
15	NSY11961
20	NSY11962



Temperature sensor

- Temperature value range: 0° ... +60°.
- Measurement accuracy: ± 1 °C.
- Length of cable supplied: 4 m.
- Maximum cable length: 20 m.
- Supplied with fixings.

Reference
NSY11951



Humidity sensor

- Humidity value range: 10 ... 90% relative humidity between 0° and +60°.
- Measurement accuracy: ± 3% relative humidity.
- Length of cable supplied: 4 m.
- Maximum cable length: 20 m.
- Supplied with fixings.

Reference
NSY11952



Combined temperature/humidity sensor

- Combines temperature and air humidity sensor functions.
- Temperature value range: 0° ... +60°.
- Measurement accuracy: ± 1 °C.
- Humidity value range: 10 ... 90% relative humidity between 0° and +60°.
- Measurement accuracy: $\pm 3\%$ relative humidity.
- Length of cable supplied: 4 m.
- Maximum cable length: 20 m.
- Supplied with fixings.

Reference

NSY11953

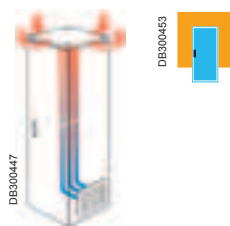
Thermal balance

Thermal management system

The miniaturisation of components, the generalisation of electronics and the appearance of new electronically powered products have made temperature management into a need which must necessarily be considered when designing electrical and/or electronic switchboards, in the same way as the protection rating.

Reliability and the search for lower breakdown rates are two determining factors in process industries, where the cost per hour is extremely high. The smallest failure can instantly result in considerable losses. The service life of the components also depends on the temperature and humidity conditions inside the enclosure.

The ideal values are +25...+35 °C for the temperature and 60 % for the relative humidity (RH). Various solutions to these problems have been put forward. They will be chosen according to environmental conditions, the type of components in the electrical switchboard, and their cost. In certain cases, all it takes it to oversize the enclosures or use fans. In other cases, when the temperature is higher, it becomes necessary to install air-water exchangers or air coolers operating according to the principle of refrigeration (cooling units). We offer you a range of solutions that adapt to every possible scenario: from the enclosure itself to ventilation systems, resistances or exchangers, and even cooling units.



Natural dissipation

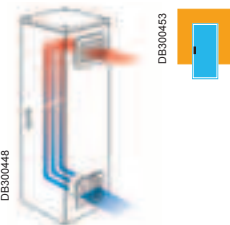
Through the walls of the enclosure

The use of a larger enclosure can, in certain cases, solve your heating problem.

Airing

Natural ventilation

The addition of fresh air from the outside through ventilation louvres improves the dissipation of heat by natural convection. However, this solution can only be used to dissipate small power levels and in environments with a small amount of dust.



Ventilating

Circulation

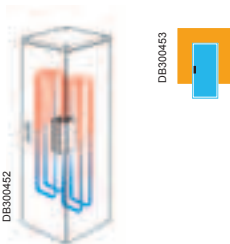
Air circulation inside the enclosure with the help of a fan makes it possible to guarantee an even temperature, avoiding hot spots that can damage certain components.

Forced ventilation

The fans are designed to evacuate a considerable amount of heat coming from the components of the electrical switchboards. The service life of the latter is considerably extended, thus guaranteeing the long life and correct operation of the installation.

The fans can only be used if the ambient temperature is at least 5 °C lower than the desired temperature inside the enclosure.

They offer an efficient solution, one that is easy to implement and maintain, which is also inexpensive, to the problem of temperature increases in the electrical switchboards. Thanks to their standard IP 54 (IP 55 with accessories) they are suitable for use in industrial and tertiary sectors.



Heating

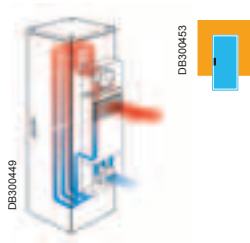
Resistance heaters

Resistance heaters can be used for two reasons:

- To reheat the electrical switchboard when the ambient temperature is too low for the correct operation of the components.
- To prevent the formation of condensation.

The second phenomenon can cause short-circuits, premature oxidation of the contacts, corrosion of metal parts and, in particular, of the enclosure, a considerable reduction in the service life of the electrical and electronic components.

Condensation occurs when the temperature suddenly drops below the dew point temperature. To avoid this, it is simply necessary to maintain the temperature inside the enclosure at a few degrees above the ambient temperature of the environment. Thanks to their design, the heaters encourage natural convection and guarantee quick and even heating within the enclosure.

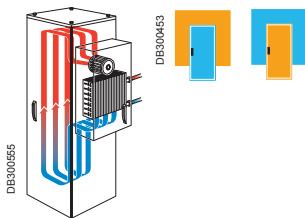


Cooling

Air-air exchangers

Air-air exchangers are devices that combine efficiency and simplicity. The hot air flows of the enclosure and the cold of the surrounding environment, created by two fans, circulate on either side of hermetic separation walls, preventing the penetration of dust or moisture in the enclosure. The hot air from the switchboard reheats these walls, which in turn are cooled by the fresh air from outside. The transfer always takes place from the hotter side to the cooler side. This is why these devices can only be used if the ambient temperature is at least 5 °C lower than the desired temperature inside the enclosure.

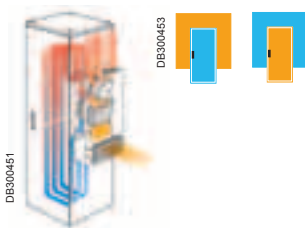
The aluminium exchange cassette forms the core of the system. This element can be cleaned easily by simply removing it. In addition, the permanent operation of the internal fan prevents the appearance of hot spots in the electrical switchboard. The temperature regulation system integrated in the unit turns the external circuit fan on and off.



Air-water exchangers

Air-water exchangers operate on the same principle as air-air exchangers. Fresh air from the outside is replaced with cold water supplied by a network installed on the industrial site. This change of fluid makes it possible to evacuate much larger amounts of heat and, possibly, to reduce the temperature in the enclosure below the temperature of the ambient air.

Temperature control in the enclosure is carried out by modulating the water flow. The water circuit is protected by a shut-off device: your electrical installation is safe.



Cooling units

Cooling units can be used in the harshest environments, where the temperature can reach 55 °C. These devices are especially recommended when the desired temperature inside the enclosure must be lower than the ambient temperature or when a large amount of heat needs to be evacuated. As in the case of the exchangers, they do not affect the IP of the switchboard.

The filter, placed at the inlet of the external air circuit, allows it to operate even when the ambient air is charged with dust or oil particles. Easily replaceable and quite inexpensive, this device guarantees the efficiency of the device throughout its service life. These devices control the temperature inside the enclosure and include an alarm function for signalling operational anomalies.



The ambient temperature is lower than the desired temperature inside the enclosure.



The ambient temperature is higher than the desired temperature inside the enclosure.

The ProClima calculation software, available on our website, is an indispensable tool for the selection of a thermal auxiliary.

Method of determining the thermal solution

The heat balance, which consists of comparing the power released by the devices with the power exchanged spontaneously through the wall of the enclosure, allows us to calculate the internal temperature obtained in the enclosure, with no thermal accessories, and thus to determine whether it is necessary to install any, bearing in mind the desired internal and external temperatures. Below we have presented a simple method for implementing this choice.

1 Characteristics of the enclosure

H = Height	W = Width	D = Depth	
Position of the enclosure	Location according to IEC 890 ratio	Formula for calculating S (m ²)	
	Accessible from every side	$S = 1.8 \times H \times (W + D) + 1.4 \times W \times D$	
	Placed against a wall	$S = 1.4 \times W \times (H + D) + 1.8 \times D \times H$	
	On the end when suited	$S = 1.4 \times D \times (H + W) + 1.8 \times W \times H$	
	On the end when suited, placed against a wall	$S = 1.4 \times H \times (W + D) + 1.4 \times W \times D$	
	In the middle when suited	$S = 1.8 \times W \times H + 1.4 \times W \times D + D \times H$	
	In the middle when suited, placed against a wall	$S = 1.4 \times W \times (H + D) + D \times H$	
	In the middle when suited, placed against a wall with the top covered	$S = 1.4 \times W \times H + 0.7 \times W \times D + D \times H$	
		S = m²	

Example
 Spacial reference **NSYSF20840**
 H = 2000
 W = 800
 D = 400
 Installation method:
 Suitable enclosure placed against a wall.

S = 4.13 m²

2 Thermal power dissipated by the operational components

Calculated as the sum of the power dissipated by each of the installed components.
 If these are not known, use the ProClima software and page 785, which shows the average values.

Pd = W

Assume that the switchgear dissipates 800 W

Pd = 800 W

3 Characteristics of the environment air

Maximum ambient temperature
 Minimum ambient temperature
 Average relative humidity
 Dew point temperature. Calculation of resistance heater power.

Te max = °C
Te min = °C
RH = %
Tr = °C

The temperature conditions are as follows:

Te max = 35 °C
Te min = 15 °C
RH = 70 %
Tr = 29 °C

4 Average desired internal temperatures

They are defined by the nature of the components and the characteristics of the environment air.
 Maximum internal temperature
 Minimum internal temperature
 (maximum value between the dew point temperature and the minimum operating temperature of the devices)

Ts max = °C
Ts min = °C

Ts max = 40 °C
Ts min = 29 °C

5 Final temperature inside the enclosure with no thermal system

Max. internal temperature: $Ti \max = \frac{Pd}{K \times S} + Te \max$
 Min. internal temperature: $Ti \min = \frac{Pd}{K \times S} + Te \min$
 or
 K = 5.5 W/m²/°C for an enclosure made of painted sheet steel
 K = 3.5 W/m²/°C for a polyester enclosure
 K = 3.7 W/m²/°C for a stainless-steel enclosure
 K = 12 W/m²/°C for an aluminium enclosure

Ti max = °C
Ti min = °C

Ti max = 70 °C
Ti min = 50 °C

Thermal balance

Thermal management system

6 Determining the type of thermal device and its power: Psyst

If Ts min < Ti min	If Ts min > Ti min	If Ts max < Ti max	If Ts max > Ti max
No need for a thermal system; a circulation fan may be used to even out the temperature.	Need for a thermal system: resistance heater 1/ Permanent operation of the switchboard Psyst = K x S (Ts_{min} - Te_{min}) - Pd 2/ Discontinuous operation Psyst = K x S (Ts_{min} - Te_{min})	Need for a thermal system: ventilation, fan, exchanger, cooling unit. Psyst = Pd - K x S (Ts_{max} - Te_{max}) Psyst = 800 - 5.5 x 4.13 x (40 - 35) ~ 690 W	No need for a thermal system; a circulation fan may be used to even out the temperature.

CIRCUITIZING	Temperature conditions	Solution	Advantages	Constraints
COOLING	Avoid hot spots.	Install circulation fans in the enclosure.	Highly economical solution requiring no maintenance, easy to install; Installation IP conserved.	The amount of heat evacuated is relatively low.
	Final temperature Ts max desired in the enclosure at least 5 °C higher than the ambient temperature Te max. Ts max ≥ Te max + 5 °C	Oversize the enclosure or the wall-mounting enclosure.	Economical solution requiring no maintenance, easy to install; Installation IP conserved.	The amount of heat evacuated is relatively low, larger dimensions.
		Install ventilation louvres.	Highly economical solution requiring no maintenance, easy to install.	The amount of heat evacuated is low, it depends on the layout of the components, reduced IP (entry of dust).
		Install fans for introducing fresh air. $D = \frac{Psyst}{(Ts\ max - Te\ max)} \times 3.1\ m^3/h$	Economical solution, easy to install; large amount of heat evacuated; possible temperature control.	Regular filter maintenance. IP slightly reduced.
		Use an air-air exchanger. $q = \frac{Psyst}{(Ts\ max - Te\ max)}\ wk$	Easy to install; IP conserved during installation; temperature control as standard; easy maintenance.	Regular filter maintenance.
	Final temperature Ts max desired in the enclosure lower than the ambient temperature Te max +5 °C. Ts max ≥ Te max +5 °C	Use a cooling unit.	Easy to install; allows the evacuation of large amounts of heat, even when the ambient temperature is high, IP conserved during installation, temperature control.	Regular filter maintenance, cannot be used beyond an ambient temperature of 55 °C.
Use an air-water exchanger.		Easy to install; allows the evacuation of large amounts of heat, even when the ambient temperature is high, IP conserved during installation, temperature control, no filter to maintain.	Needs a water circuit; consumption if supplied by the water mains.	
HEATING	Outside temperature lower than the lowest acceptable ambient temperature for the switchgear.	Heat using a resistance heater.	Economical, reliable; see temperature in the table.	Energy consumption; space taken up in the enclosure.
	Risk of condensation.	Heat using a resistance heater in order to maintain the temperature beyond the dew point temperature.	Economical, reliable; the humidity in the switchboard can be regulated.	Energy consumption; space taken up in the enclosure.



PB500011

New ProClima software

- Software package for calculating and selecting the thermal accessories required for enclosures containing electrical and electronic equipment.
- Performs the calculations as well as the corrected surfaces, according to the dimensions of the enclosure and its position in relation to the walls.
- Available for download on our homepage.

Data entry

The following steps must be followed to conduct this study:



PB501184

- 1 Enter the project and customer data (optional).



PB501185

- 2 Enter the internal and external temperature data for the enclosure (compulsory).



PB501186

- 3 Enter the electrical data for the installation (voltage, rating, etc.) (compulsory).



PB501187

- 4 Determine the power dissipated by the electrical equipment inside the enclosure (compulsory).
If this value is not known, the software can calculate it:
 - Based on the electrical or electronic switchgear that make up the switchboard (type and number).
 - Based on a temperature reading.

Results

Summary of the heat balance

The software offers to print the project summary containing the calculation values, the results obtained and the thermal accessories recommended for maintaining the internal temperature of the enclosure in the specified conditions.

In addition, the summary specifies the power, characteristics and reference of the device, as well as any related accessories.

5

Select the enclosure and the installation method (compulsory).



PE501188

6

Select the thermal management system (fans, exchangers, etc.) (compulsory).



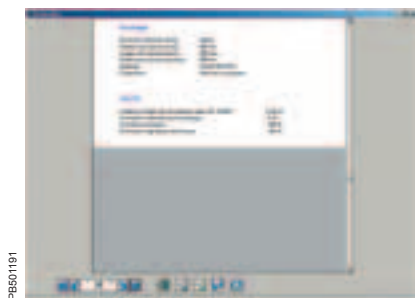
PE501189

7

View and print the project summary.



PE501190



PE501191

Example of calculation and selection

Data	
• Enclosure data	
Height:	2000 mm
Width:	800 mm
Depth:	500 mm
• Location: Placed on the wall	
• Material: Painted sheet-steel enclosure	
• Thermal power dissipated by the operational components Pd: 950 W	
• Information on temperature and the environment:	
Maximum desired temperature inside the enclosure	Te _{max} : 25 °C
Minimum desired temperature inside the enclosure	Te _{min} : 25 °C
Maximum temperature dissipated in the enclosure	Te _{max} : 35 °C
Minimum temperature dissipated in the enclosure	Te _{min} : 25 °C
Environment: Low pollution and low dust level	

Selection and calculation:

The desired maximum temperature inside (Ts_{max}) the enclosure is 10 °C higher than the maximum value expected for the outside (Ti_{max}). It is possible to cool the enclosure using the filtered ventilation systems.

Calculation of the required fan:

Usage formulas: Psis = Pd – k x S x (Ts_{max} – Te_{max}) Flow = f x Psis / (Td_{max} – Te_{max})

Pd: Thermal power dissipated by the operational components
S = 1.4 x W x (H + D) + 1.8 x D x H = 4.6 m². According to standard IEC 890

K = Constant defined by the material used to manufacture the enclosure

K = 5.5 W/m ² x °C for a solid sheet-steel enclosure
K = 3.5 W/m ² x °C for a polyester enclosure
K = 3.7 W/m ² x °C for a stainless-steel enclosure

In order to make the calculation, it is necessary to know the height above sea level of the installation location:

Height above sea level: 800 m

f = Coefficient relating to the height above sea level (value)

0 to 100 m f = 3.1	500 to 750 m f = 3.4
100 to 250 m f = 3.2	750 to 1000 m f = 3.5
250 to 500 m f = 3.3

Our example:

Psis = 950 – 5.5 x 4.6 x (35 – 25) = 497 W
 Flow rate = 3.5 x 497 / (35 – 25) = 244 m³/h
 Selection from the fan quick-selection table

1 fan with standard filter ref. NSYCVF300M230PF + 1 grille with standard filter ref. NSYAG223LPF + 1 thermostat ref. NSYCCOTH0 enable a flow rate of 302 m³/h

The minimum outside temperature is lower than the desired minimum temperature inside the enclosure.

It is necessary to install resistance heaters:

Calculation of the useful resistance heater

Usage formula W = k x S x (Ts_{min} – Te_{min})

Our example:

W = 5.5 x 4.6 (15 – 10) = 127 W

Selection from the selection guide of the resistance heaters.

1 resistance heater ref. NSYCR150WU2C + 1 thermostat ref. NSYCCOTH0C

Help table to calculate corrected surfaces

Spacial wall-mounting enclosures

Installation mode									
H (mm)	W (mm)	D (mm)	1	2	3	4	5	6	7
300	200	150	0.23	0.21	0.21	0.19	0.20	0.17	0.15
300	250	150	0.28	0.24	0.25	0.22	0.23	0.20	0.18
300	300	150	0.31	0.27	0.29	0.25	0.27	0.23	0.20
300	300	200	0.35	0.32	0.33	0.29	0.31	0.27	0.23
300	400	150	0.38	0.33	0.36	0.32	0.35	0.30	0.26
300	400	200	0.41	0.39	0.41	0.36	0.39	0.34	0.28
400	300	150	0.39	0.34	0.36	0.32	0.34	0.29	0.26
400	300	200	0.44	0.40	0.41	0.36	0.38	0.33	0.29
400	400	200	0.54	0.48	0.51	0.45	0.48	0.42	0.36
400	600	200	0.74	0.65	0.71	0.62	0.68	0.58	0.50
400	600	250	0.82	0.73	0.78	0.69	0.74	0.65	0.54
500	300	200	0.53	0.47	0.49	0.43	0.45	0.39	0.35
500	400	200	0.65	0.57	0.61	0.53	0.57	0.49	0.44
500	400	250	0.73	0.65	0.68	0.60	0.63	0.55	0.48
500	500	200	0.77	0.67	0.73	0.63	0.69	0.59	0.52
500	500	250	0.85	0.75	0.80	0.70	0.75	0.65	0.56
600	400	200	0.76	0.66	0.71	0.62	0.66	0.57	0.51
600	400	250	0.84	0.75	0.78	0.69	0.72	0.63	0.56
600	500	250	1.02	0.87	0.93	0.81	0.87	0.75	0.66
600	600	200	1.03	0.89	0.98	0.84	0.94	0.79	0.71
600	600	250	1.13	0.98	1.07	0.92	1.01	0.86	0.76
600	600	300	1.22	1.08	1.15	1.01	1.08	0.94	0.81
600	600	400	1.42	1.27	1.32	1.18	1.22	1.08	0.91
600	800	300	1.52	1.33	1.45	1.26	1.38	1.19	1.02
700	500	250	1.12	0.98	1.05	0.91	0.98	0.84	0.75
800	600	200	1.32	1.13	1.26	1.06	1.19	1.00	0.92
800	600	250	1.43	1.24	1.35	1.16	1.27	1.08	0.98
800	600	300	1.55	1.36	1.45	1.26	1.36	1.16	1.04
800	600	400	1.78	1.58	1.65	1.46	1.52	1.33	1.16
800	800	250	1.79	1.54	1.71	1.46	1.63	1.38	1.24
800	800	300	1.92	1.66	1.82	1.57	1.73	1.47	1.30
800	1000	300	2.29	1.97	2.20	1.88	2.10	1.78	1.57
800	1200	300	2.50	2.28	2.57	2.18	2.47	2.09	1.84
1000	600	250	1.74	1.50	1.64	1.40	1.54	1.30	1.19
1000	600	300	2.04	1.63	1.75	1.51	1.63	1.39	1.27
1000	600	400	2.14	1.90	1.98	1.74	1.82	1.58	1.41
1000	800	250	2.17	1.85	2.07	1.75	1.97	1.65	1.51
1000	800	300	2.32	2.00	2.20	1.88	2.08	1.76	1.59
1000	800	400	2.61	2.29	2.45	2.13	2.29	1.97	1.74
1000	1000	300	2.76	2.36	2.64	2.24	2.52	2.12	1.91
1000	1200	300	3.20	2.72	3.08	2.60	2.96	2.48	2.23
1000	1200	400	3.44	3.07	3.39	2.91	3.23	2.75	2.42
1200	600	300	2.45	1.91	2.05	1.76	1.91	1.62	1.49
1200	600	400	2.83	2.21	2.30	2.02	2.11	1.82	1.66
1200	800	300	2.71	2.33	2.57	2.18	2.42	2.04	1.87
1200	800	400	3.04	2.66	2.85	2.46	2.66	2.27	2.05
1200	1000	300	3.23	2.75	3.08	2.60	2.94	2.46	2.25
1200	1000	400	3.70	3.10	3.39	2.91	3.20	2.72	2.44
1200	1200	300	3.74	3.17	3.60	3.02	3.46	2.88	2.63
1400	1000	300	3.86	3.14	3.53	2.97	3.36	2.80	2.59

Installation mode

- 1 Accessible from every side
- 2 Placed against a wall
- 3 On the end when suited
- 4 On the end when suited, placed against a wall
- 5 In the middle when suited
- 6 In the middle when suited, placed against a wall
- 7 In the middle when suited, placed against a wall, closed covered top

The surfaces are given in m².



Use ProClima to save time and find the best solution!

Help table to calculate corrected surfaces

THALASSA wall-mounting enclosures

H (mm)	W (mm)	D (mm)	Installation mode						
			1	2	3	4	5	6	7
310	215	160	0.26	0.23	0.24	0.21	0.22	0.19	0.17
307	255	164	0.29	0.26	0.27	0.24	0.25	0.22	0.19
430	330	200	0.50	0.45	0.47	0.41	0.43	0.38	0.33
530	430	200	0.72	0.63	0.68	0.59	0.64	0.55	0.49
645	435	250	0.95	0.84	0.88	0.77	0.82	0.71	0.63
745	535	300	1.34	1.19	1.26	1.10	1.17	1.01	0.89
845	635	300	1.69	1.47	1.59	1.37	1.49	1.27	1.14
1055	850	350	2.70	2.34	2.55	2.19	2.40	2.04	1.83

THALASSA floor-standing enclosures

H (mm)	W (mm)	D (mm)	Installation mode						
			1	2	3	4	5	6	7
500	500	320	0.96	0.86	0.90	0.80	0.83	0.73	0.62
500	750	320	1.30	1.15	1.24	1.09	1.17	1.02	0.85
500	1000	320	1.64	1.44	1.57	1.37	1.51	1.31	1.08
500	1250	320	1.97	1.72	1.91	1.66	1.85	1.60	1.32
750	500	320	1.33	1.18	1.24	1.09	1.14	0.99	0.88
750	750	320	1.78	1.56	1.68	1.46	1.59	1.36	1.20
750	1000	320	2.23	1.93	2.13	1.83	2.04	1.74	1.51
750	1250	320	2.68	2.30	2.58	2.21	2.49	2.11	1.83
1000	500	320	1.70	1.50	1.57	1.37	1.44	1.24	1.13
1000	750	320	2.26	1.96	2.13	1.83	2.01	1.71	1.54
1000	1000	320	2.82	2.42	2.70	2.30	2.57	2.17	1.94
1000	1250	320	3.39	2.89	3.26	2.76	3.13	2.63	2.35
1250	500	320	2.07	1.82	1.91	1.66	1.75	1.50	1.39
1250	750	320	2.74	2.37	2.58	2.21	2.42	2.05	1.88
1250	1000	320	3.42	2.92	3.26	2.76	3.10	2.60	2.37
1250	1250	320	4.09	3.47	3.93	3.31	3.77	3.15	2.87
1500	500	320	2.44	2.14	2.25	1.95	2.05	1.75	1.64
1500	750	320	3.23	2.78	3.03	2.58	2.84	2.39	2.22
1500	1000	320	4.01	3.41	3.82	3.22	3.63	3.03	2.80
1500	1250	320	4.80	4.05	4.61	3.86	4.42	3.67	3.39
500	500	420	1.12	1.02	1.04	0.94	0.95	0.85	0.71
500	750	420	1.49	1.34	1.41	1.26	1.33	1.18	0.96
500	1000	420	1.87	1.67	1.78	1.58	1.70	1.50	1.20
500	1250	420	2.24	1.99	2.15	1.90	2.07	1.82	1.45
750	500	420	1.54	1.39	1.41	1.26	1.28	1.13	0.99
750	750	420	2.02	1.80	1.89	1.67	1.77	1.54	1.32
750	1000	420	2.51	2.21	2.38	2.08	2.25	1.95	1.66
750	1250	420	2.99	2.61	2.86	2.49	2.74	2.36	2.00
1000	500	420	1.95	1.75	1.78	1.58	1.61	1.41	1.27
1000	750	420	2.55	2.25	2.38	2.08	2.21	1.91	1.69
1000	1000	420	3.14	2.74	2.98	2.58	2.81	2.41	2.11
1000	1250	420	3.74	3.24	3.57	3.07	3.41	2.91	2.54
1250	500	420	2.36	2.11	2.15	1.90	1.94	1.69	1.55
1250	750	420	3.07	2.70	2.86	2.49	2.65	2.28	2.06
1250	1000	420	3.78	3.28	3.57	3.07	3.36	2.86	2.57
1250	1250	420	4.49	3.87	4.28	3.66	4.07	3.45	3.08
1500	500	420	2.78	2.48	2.53	2.23	2.27	1.97	1.83
1500	750	420	3.60	3.15	3.35	2.90	3.10	2.65	2.43
1500	1000	420	4.42	3.82	4.17	3.57	3.92	3.32	3.02
1500	1250	420	5.24	4.49	4.99	4.24	4.74	3.99	3.62

Spacial floor-standing enclosures

H (mm)	W (mm)	D (mm)	Installation mode						
			1	2	3	4	5	6	7
1200	800	300	2.71	2.33	2.57	2.18	2.42	2.04	1.87
1200	1000	300	3.23	2.75	3.08	2.60	2.94	2.46	2.25
1200	1200	400	4.13	3.55	3.94	3.36	3.74	3.17	2.83
1400	600	300	2.52	2.18	2.35	2.02	2.18	1.85	1.72
1400	600	400	2.86	2.52	2.63	2.30	2.41	2.07	1.90
1400	800	300	3.11	2.66	2.94	2.49	2.77	2.32	2.16
1400	800	400	3.47	3.02	3.25	2.80	3.02	2.58	2.35
1400	1000	400	4.09	3.53	3.86	3.30	3.64	3.08	2.80
1400	1200	400	4.70	4.03	4.48	3.81	4.26	3.58	3.25
1600	600	300	2.84	2.46	2.65	2.27	2.46	2.08	1.95
1600	600	400	3.22	2.83	2.96	2.58	2.70	2.32	2.15
1600	800	300	3.50	2.99	3.31	2.80	3.12	2.61	2.44
1600	800	400	3.90	3.39	3.65	3.14	3.39	2.88	2.66
1600	1000	300	4.16	3.52	3.97	3.33	3.78	3.14	2.93
1600	1000	400	4.59	3.95	4.34	3.70	4.08	3.44	3.16
1600	1200	300	4.82	4.06	4.63	3.86	4.44	3.67	3.42
1600	1200	400	5.28	4.51	5.02	4.26	4.77	4.00	3.66
1800	600	300	3.17	2.74	2.95	2.52	2.74	2.30	2.18
1800	600	400	3.58	3.14	3.29	2.86	3.00	2.57	2.40
1800	600	500	3.98	3.55	3.62	3.19	3.26	2.83	2.62
1800	800	300	3.90	3.32	3.68	3.11	3.47	2.89	2.72
1800	800	400	4.34	3.76	4.05	3.47	3.76	3.18	2.96
1800	800	500	4.77	4.20	4.41	3.84	4.05	3.48	3.20
1800	800	600	5.21	4.63	4.78	4.20	4.34	3.77	3.43
1800	1000	400	5.10	4.38	4.81	4.09	4.52	3.80	3.52
1800	1000	500	5.56	4.84	5.20	4.48	4.84	4.12	3.77
1800	1200	400	5.86	4.99	5.57	4.70	5.28	4.42	4.08
1800	1200	500	6.35	5.48	5.99	5.12	5.63	4.76	4.34
1800	1600	400	7.38	6.22	7.09	5.94	6.80	5.65	5.20
1800	1600	500	7.92	6.77	7.56	6.41	7.20	6.05	5.49
2000	600	300	3.49	3.01	3.25	2.77	3.01	2.53	2.41
2000	600	400	3.94	3.46	3.62	3.14	3.30	2.82	2.65
2000	600	500	4.38	3.90	3.98	3.50	3.58	3.10	2.89
2000	800	300	4.30	3.66	4.06	3.42	3.82	3.18	3.01
2000	800	400	4.77	4.13	4.45	3.81	4.13	3.49	3.26
2000	800	500	5.24	4.60	4.84	4.20	4.44	3.80	3.52
2000	800	600	5.71	5.07	5.23	4.59	4.75	4.11	3.78
2000	1000	400	5.60	4.80	5.28	4.48	4.96	4.16	3.88
2000	1000	500	6.10	5.30	5.70	4.90	5.30	4.50	4.15
2000	1200	400	6.43	5.47	6.11	5.15	5.79	4.83	4.50
2000	1200	500	6.96	6.00	6.56	5.60	6.16	5.20	4.78
2000	1200	600	7.49	6.53	7.01	6.05	6.53	5.57	5.06
2000	1600	400	8.10	6.82	7.78	6.50	7.46	6.18	5.73
2000	1600	500	8.68	7.40	8.28	7.00	7.88	6.60	6.04
2000	1600	600	9.26	7.98	8.78	7.50	8.30	7.02	6.35

Installation mode

- 1 Accessible from every side
- 2 Placed against a wall
- 3 On the end when suited
- 4 On the end when suited, placed against a wall
- 5 In the middle when suited
- 6 In the middle when suited, placed against a wall
- 7 In the middle when suited, placed against a wall, closed covered top

The surfaces are given in m².



Use ProClima to save time and find the best solution!

Help table to calculate corrected surfaces

Spacial suitable enclosures

H (mm)	W (mm)	D (mm)	Installation mode						
			1	2	3	4	5	6	7
1200	600	400	2.50	2.21	2.30	2.02	2.11	1.82	1.66
1200	600	600	3.10	2.81	2.81	2.52	2.52	2.23	1.98
1200	800	400	3.04	2.66	2.85	2.46	2.66	2.27	2.05
1200	800	600	3.70	3.31	3.41	3.02	3.12	2.74	2.40
1400	600	400	2.86	2.52	2.63	2.30	2.41	2.07	1.90
1400	800	400	3.47	3.02	3.25	2.80	3.02	2.58	2.35
1600	600	600	3.96	3.58	3.58	3.19	3.19	2.81	2.56
1600	600	800	4.70	4.32	4.19	3.81	3.68	3.30	2.96
1600	800	600	4.70	4.19	4.32	3.81	3.94	3.42	3.09
1600	800	800	5.50	4.99	4.99	4.48	4.48	3.97	3.52
1800	400	400	2.82	2.53	2.53	2.24	2.24	1.95	1.84
1800	400	500	3.20	2.91	2.84	2.55	2.48	2.19	2.05
1800	400	600	3.58	3.29	3.14	2.86	2.71	2.42	2.26
1800	600	400	3.58	3.14	3.29	2.86	3.00	2.57	2.40
1800	600	500	3.98	3.55	3.62	3.19	3.26	2.83	2.62
1800	600	600	4.39	3.96	3.96	3.53	3.53	3.10	2.84
1800	600	800	5.21	4.78	4.63	4.20	4.06	3.62	3.29
1800	800	400	4.34	3.76	4.05	3.47	3.76	3.18	2.96
1800	800	500	4.77	4.20	4.41	3.84	4.05	3.48	3.20
1800	800	600	5.21	4.63	4.78	4.20	4.34	3.77	3.43
1800	1000	400	5.10	4.38	4.81	4.09	4.52	3.80	3.52
1800	1000	500	5.56	4.84	5.20	4.48	4.84	4.12	3.77
1800	1000	600	6.02	5.30	5.59	4.87	5.16	4.44	4.02
1800	1200	400	5.86	4.99	5.57	4.70	5.28	4.42	4.08
1800	1200	500	6.35	5.48	5.99	5.12	5.63	4.76	4.34
1800	1200	600	6.84	5.98	6.41	5.54	5.98	5.11	4.61
2000	300	500	3.09	2.85	2.69	2.45	2.29	2.05	1.95
2000	300	600	3.49	3.25	3.01	2.77	2.53	2.29	2.17
2000	400	400	3.10	2.78	2.78	2.46	2.46	2.14	2.03
2000	400	500	3.52	3.20	3.12	2.80	2.72	2.40	2.26
2000	400	600	3.94	3.62	3.46	3.14	2.98	2.66	2.49
2000	400	800	4.77	4.45	4.13	3.81	3.49	3.17	2.94
2000	600	400	3.94	3.46	3.62	3.14	3.30	2.82	2.65
2000	600	500	4.38	3.90	3.98	3.50	3.58	3.10	2.89
2000	600	600	4.82	4.34	4.34	3.86	3.86	3.38	3.13
2000	600	800	5.71	5.23	5.07	4.59	4.43	3.95	3.62
2000	800	400	4.77	4.13	4.45	3.81	4.13	3.49	3.26
2000	800	500	5.24	4.60	4.84	4.20	4.44	3.80	3.52
2000	800	600	5.71	5.07	5.23	4.59	4.75	4.11	3.78
2000	800	800	6.66	6.02	6.02	5.38	5.38	4.74	4.29
2000	1000	400	5.60	4.80	5.28	4.48	4.96	4.16	3.88
2000	1000	500	6.10	5.30	5.70	4.90	5.30	4.50	4.15
2000	1000	600	6.60	5.80	6.12	5.32	5.64	4.84	4.42
2000	1000	800	7.60	6.80	6.96	6.16	6.32	5.52	4.96
2000	1200	400	6.43	5.47	6.11	5.15	5.79	4.83	4.50
2000	1200	500	6.96	6.00	6.56	5.60	6.16	5.20	4.78
2000	1200	600	7.49	6.53	7.01	6.05	6.53	5.57	5.06
2000	1200	800	8.54	7.58	7.90	6.94	7.26	6.30	5.63
2000	1600	400	8.10	6.82	7.78	6.50	7.46	6.18	5.73
2000	1600	500	8.68	7.40	8.28	7.00	7.88	6.60	6.04
2000	1600	600	9.26	7.98	8.78	7.50	8.30	7.02	6.35
2200	400	600	4.30	3.94	3.77	3.42	3.24	2.89	2.72
2200	600	600	5.26	4.73	4.73	4.20	4.20	3.67	3.42
2200	600	800	6.22	5.69	5.51	4.98	4.81	4.28	3.94
2200	800	600	6.22	5.51	5.69	4.98	5.16	4.46	4.12
2200	800	800	7.23	6.53	6.53	5.82	5.82	5.12	4.67
2200	1000	600	7.18	6.30	6.65	5.77	6.12	5.24	4.82
2200	1200	600	8.14	7.08	7.61	6.55	7.08	6.02	5.52
2200	1200	800	9.26	8.21	8.56	7.50	7.86	6.80	6.13

Annexes and spare parts

Annexes and spare parts

Contents







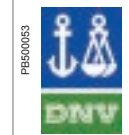


Enclosure certifications	792
International enclosure standard	793
Selection of enclosures	794
Degrees of protection provided by enclosures	795
Classification of electrical equipment enclosures according to NEMA and UL	796
Polyester base coating properties	798
Properties of the plastic materials	800
Electromagnetic compatibility	802
Potentially explosive atmospheres: important information	805
Equipment for potentially explosive atmospheres	806
Fields of application of Schneider Electric ATEX enclosures	807
Description of the marking label affixed to ATEX certified wall-mounting enclosures	808
Spare parts	810

Enclosure certifications

Product certifications are awarded for enclosures as components.

Range		Aim of the certification			
		International standard for electric power enclosures	Standards for industrial equipment and UL classification	Marine environment classification or approval for protection and resistance to vibrations	ATEX
		Standard/Directive			
		IEC 62208	UL508A and CAN CSA C22-2 no. 14	Rules of certifying bodies	European directive no. 94/9/EC EN 60079-0 and -7 EN 61241-0 and -1
SPACIAL	SF	●	●	● ●	
	SM	●	●	● ● (2)	
	S3D	●	●	● ● ● ●	● (1)
	CRN	●	●	●	
	S57	●	●		
	SFX	● (2)	● (2)		
	SMX	●	●	●	
	S3X	●	●	●	● (1)
THALASSA	PLA	●	●	●	
	PLD	●			
	PLM	●	●	●	● (1)
	PLS	●	●		
	TBS/TBP	●	●		
CLIMASYS	CV		●		

(1) ATEX certifications relate to an adapted part of the range. These ranges are distinguished by their EX endings.
 (2) In process.

Official certification body								
Bureau Veritas	LCIE (Bureau Veritas)	Bureau Veritas Marine Division	TUV Rheiland Group	Underwriters Laboratories	Laboratorio Oficial J.M. Madariaga	Det Norske Veritas	Germanischer Lloyd	Lloyd's Register
								
●	●	●	●	●	●	●	●	●



PB500056

Empty enclosures for low-voltage switchgear and controlgear assemblies. General rules.

Application

For empty enclosures before adding the user's switchgear, in the condition as supplied by the manufacturer.

Field of application

Demands for testing the enclosures to be used as part of the switchgear assemblies for voltages of less than 1000 V alternating current and 1500 V direct current.

Information supplied by the manufacturer

- Commercial trademark of the manufacturer: Schneider Electric.
- Mechanical characteristics, materials, conditions for use.
- Conditions for use:
Ambient air temperature for outdoor installations: -25 to $+40$ °C.
- Atmospheric conditions for outdoor installations: the humidity can temporarily reach 100% at a temperature of 25 °C.
- Transport and storage conditions: from -25 to $+55$ °C; for limited periods not exceeding 24 h: up to $+70$ °C.

* European standard EN 62208 is identical to IEC 62208. European countries publish this standard according to the body in each country (for example BS EN 62208 in the UK).



PB500057

Standard tests of standard IEC 62208

- Static loads: test 1.25 x maximum admissible load during 1 hour.
- Lifting: applicable to enclosures with lifting accessories.
- Axial loads of metal inserts: 500 N for 10 seconds for M8 inserts.
- IK code: test according to standard IEC 62262 with pendulum impact tester. After testing, the enclosure keeps its IP rating.
- IP rating: test according to standard IEC 60529. Degree of protection against access to dangerous parts and the penetration of solid bodies and against the penetration of water.
- Thermal stability at a temperature of 70 °C: 7 days.
- Resistance to heat: ball test at 70 °C (1).
- Resistance to abnormal heat and to fire: glow wire test according to IEC 60695-2-10 and IEC 60695-2-11 (1).
- Dielectric strength: 5000 V (1).
- Protection circuit continuity (2): resistance not to exceed 0.1 ohm.
- Weather resistance: duration 500 h (cycle: rain 5 minutes + UV lamp 25 minutes).
- Corrosion resistance:
 - For indoor enclosures:
 - 6 cycles of 24 hours of the damp heat test at 40 °C and relative humidity of 95%.
 - 2 cycles of 24 hours of the salt mist test at 35 °C.
 - For outdoor enclosures:
 - 12 cycles of 24 hours of the damp heat test at 40 °C and relative humidity of 95%.
 - 14 cycles of 24 hours of the salt mist test at 35 °C.

Our empty enclosures are marked CE according to the Low-Voltage Directive (LVD). It is the responsibility of the final equipment manufacturer to respect regulations in force.

(1) Information required for enclosures made from insulating material.

(2) For metal enclosures.

Selection according to the IP protection degrees.

The degrees of protection, explained on the next page, is an important element when selecting the enclosures.

The following table shows the protection degrees of the enclosures.

Name	Range	IP 40	IP 41	IP 42	IP 43	IP 44	IP 54	IP 55	IP 65	IP 66
Metal industrial boxes	Spacial S44 and S57									●
Metal derivation boxes	Spacial SDB							●		
Steel universal wall-mounting enclosures	Spacial S3D							● (1)		●
	Spacial CRN									●
Steel modular distribution wall-mounting enclosures	Spacial CRNG							● (1)		●
	Spacial S3DM									●
Terminal wall-mounting enclosures	Spacial S3DB									●
EMC steel wall-mounting enclosures	Spacial S3HF							●		
HMI steel wall-mounting enclosures	Spacial S3CM						●			
ATEX steel wall-mounting enclosures	Spacial S3DEX									●
Stainless-steel wall-mounting enclosures	Spacial S3X									●
ATEX stainless-steel wall-mounting enclosures	Spacial S3XEX									●
Steel floor-standing enclosures	Spacial SM							●		
Steel suitable enclosures	Spacial SF							●		
Stainless-steel floor-standing enclosures	Spacial SMX							●		
Stainless-steel suitable enclosures	Spacial SFX							●		
Steel control desks	Spacial SD							●		
Stainless-steel control desks	Spacial SDX							●		
Thermoplastic industrial boxes	Thalassa TBS-TBP									●
Polyester modular boxes	Thalassa PLS								●	
Polyester wall-mounting enclosures	Thalassa PLM									●
ATEX polyester wall-mounting enclosures	Thalassa PLMEX									●
Polyester floor-standing enclosures	Thalassa PLA (2)					●		●	●	
	Thalassa PLD				●			● (3)		

(1) Double door.
 (2) Different IP depending on the version. See introduction in Thalassa PLA section.
 (3) With gasket.

The universal offer

3 Material Solutions

Steel

Stainless-steel

Plastic & Polyester

Selection according to the environment

The location of the enclosures and the physical, chemical and climatic conditions to which they are exposed will determine the model to be used.

- Steel enclosures are particularly well suited to indoor use in industrial environments.
- Stainless-steel enclosures are particularly well suited to corrosive environments or areas where specific hygiene demands are applicable.
- Polyester enclosures are particularly well suited to severe corrosive atmospheres, indoors or outdoors.

Enclosures made from insulating materials guarantee total insulation, reducing electric hazards for persons. The main characteristics of the plastic materials of our enclosures and their chemical strength are given on page 801.

Further help for making the selection is given by the NEMA or UL classification of the enclosure, see page 797.

Degrees of protection provided by enclosures

- The degrees of protection provided by the enclosures are defined by standards IEC 60529 (IP) and IEC 62262 (IK).
- Degrees of protection are indicated by the letters IP followed by two characteristic numerals. The numerals show the degree of protection offered by the enclosure against access to dangerous parts, the penetration of solid bodies (1st numeral), and against the penetration of liquids (2nd numeral).
- The protection against external mechanical impact is indicated by the letters IK followed by a characteristic group numeral.

Note: Many EN European standards are harmonised with international IEC standards. This is the case with enclosure protection standards:
 – EN 60529 = IEC 60529.
 – EN 62262 = IEC 62262.

First numeral Protection against solid bodies	IP Second numeral Protection against liquids	IK Mechanical protection
0 No protection	0 No protection	0 No protection
1 Protected against solid bodies larger than 50 mm (e.g.: incidental contact with the hand)	1 Protected against vertically falling water droplets (condensation)	01 7,5 cm Impact energy: 0.150 Joules.
2 Protected against solid bodies larger than 12 mm (e.g.: finger contact)	2 Protected against water droplets deflected at up to 15° from vertical	02 10 cm Impact energy: 0.200 Joules.
3 Protected against solid bodies larger than 2.5 mm (tools, wires)	3 Protected against rainwater at up to 60° from vertical	03 17,5 cm Impact energy: 0.350 Joules.
4 Protected against solid bodies larger than 1 mm (fine tools, small wires)	4 Protection against water spray from all directions	04 25 cm Impact energy: 0.500 Joules.
5 Protected against dust (no harmful deposits)	5 Protected against low-pressure water jets from all directions	05 35 cm Impact energy: 0.700 Joules.
6 Totally dust tight	6 Protected against powerful water jets from all directions	06 20 cm Impact energy: 1.00 Joules.
	7 Protected against the effects of immersion	07 40 cm Impact energy: 2.00 Joules.
	8 Protected against prolonged effects of immersion under pressure	08 29,5 cm Impact energy: 5.00 Joules.
		09 20 cm Impact energy: 10.00 Joules.
		10 40 cm Impact energy: 20.00 Joules.

Classification of electrical equipment enclosures according to NEMA and UL

NEMA and UL are standardisation bodies, commonly recognised in North America, which have issued classifications of enclosures according to the protection offered in various environments.

These classifications are similar.

The 1st table below summarises this classification, which does not include potentially explosive areas. The detailed recommendations of this classification are given on the next page.

The 2nd table indicates the classification of our enclosures.

These classifications appear in our UL certifications (see Certification technical annex on page 792).

Certification according to the UL classification guarantees the corresponding NEMA classification by equivalence.

Environment and protection	Classification												
	1	2	3	3R	3S	4	4X	5	6	6P	12	12K	13
Indoor use	●	●	●	●	●	●	●	●	●	●	●	●	●
Outdoor use			●	●	●	●	●	●	●	●	●	●	●
Incidental contact with the equipment	●	●	●	●	●	●	●	●	●	●	●	●	●
Dirt	●	●	●	●	●	●	●	●	●	●	●	●	●
Drips and gentle splashes of non-corrosive liquids		●	●	●	●	●	●	●	●	●	●	●	●
Rain, frost(*) and snow			●	●	●	●	●		●	●			
Frost (**)					●								
Dust, fibres and particles in suspension			●		●	●	●		●	●	●	●	●
Built-up dust, fibres and particles in suspension			●		●	●	●	●	●	●	●	●	●
Clouds of dust			●		●	●	●		●	●			
Splashes and jets of water						●	●		●	●			
Gentle splashes and leaks of oil or non-corrosive coolants											●	●	●
Drips, splashing and spraying of oil or non-corrosive coolants													●
Corrosive agents							●			●			
Occasional temporary immersion									●	●			
Occasional prolonged immersion										●			

(*) The operation of the external mechanisms is not required when the enclosure is covered with frost.

(**) The operation of the external mechanisms is required when the enclosure is covered with frost.

Enclosures		Type of protection (1)												
		1	2	3	3R	3S	4	4X	5	6	6P	12	12K	13
Steel wall-mounting enclosures	S3D (1)	●	● (*)	● (*)	● (*)		● (*)	● (*)	●			●	● (**)	●
	CRN	●	● (*)	● (*)	● (*)		● (*)		● (*)			●		●
	S3HF	●	●	●	●				●			●		●
Stainless-steel wall-mounting enclosures	S3X (2)	●	● (*)	● (*)	● (*)		● (*)	● (*)	● (*)			●	● (**)	● (*)
Steel floor-standing enclosures	SM	●	● (*)	● (*)	● (*)		● (*)		● (*)			●	●	●
Steel suitable enclosures	SF	●										●	●	
Stainless-steel floor-standing enclosures	SMX	●	● (*)	● (*)	● (*)		● (*)	● (*)	● (*)			●	●	●
Stainless-steel suitable enclosures	SFX	●										●	●	
Thermoplastic boxes	TBP	●		●		●	●	●						
Polyester modular boxes	PLS	●	●	●	●	●	●	●				●		●
Polyester wall-mounting enclosures	PLM	●	●	●	●	●	●	●	●			●	●	●
Polyester floor-standing enclosures	PLA	●	●	● (*)	● (*)	● (*)	● (*)	● (*)	● (*)			●		●

(1) Also S3DM, S3DEX, S57, S3DC and CRNG.

(2) Also S3EX.

(*) 1 door.

(**) 2 doors.

Components		Type of protection (1)												
		1	2	3	3R	3S	4	4X	5	6	6P	12	12K	13
Ventilation system	CV											●	●	
Thermal regulation system	CC											●	●	

(1) In some ranges the classification depends on the model and version. The detailed protection types are indicated in the UL certifications.

Classification of electrical equipment enclosures according to NEMA and UL



PB500063



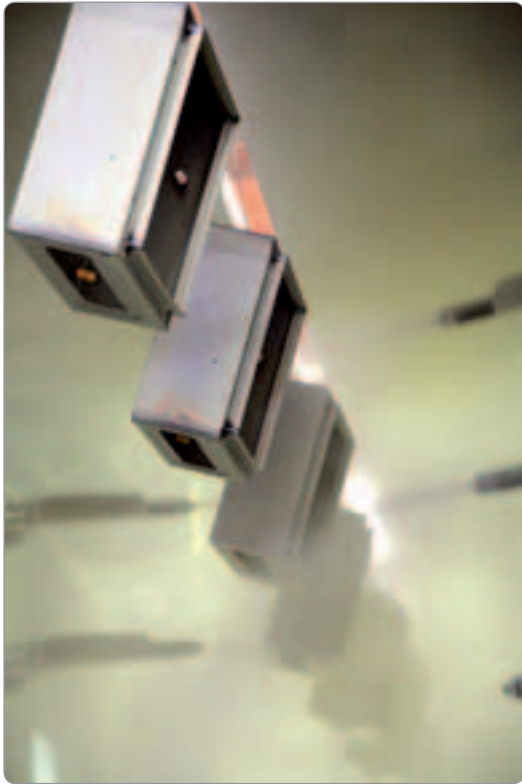
PB500064

The enclosures must protect the equipment against environmental conditions and protect the personnel against the risk of incidental contact with the equipment. The following classifications (Type) are required according to the required uses and prescriptions:

Type	Use	Prescription
1	Indoor use.	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt.
2	Indoor use.	It provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, drips and gentle splashes of non-corrosive liquids.
3	Indoor and outdoor use.	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, rain, sleet, snow, windblown and resists the formation of ice on the outside.
3R	Indoor and outdoor use.	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, rain, sleet, snow and resists the formation of ice on the outside.
3S	Indoor and outdoor use.	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, rain, sleet, snow and windblown dust. The external mechanism must continue to work even when layers of ice are formed.
4	Indoor and outdoor use.	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, rain, sleet, snow, windblown dust, splashes and hose-directed water and resists the formation of frost on the outside.
4x	Indoor and outdoor use.	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, rain, sleet, snow, windblown dust, splashes, hose-directed water and resists corrosion and the formation of ice on the outside.
5	Indoor use.	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, settling airborne dust, lint, fibres, flyings, drips and gentle splashes of non-corrosive liquids.
6	Indoor and outdoor use.	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, rain, sleet, snow, hose-directed water, the entry of water during occasional temporary submersion to a limited depth and resists the formation of ice on the outside.
6P	Indoor and outdoor use.	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, rain, sleet, snow, hose-directed water, the entry of water during prolonged submersion to a limited depth and resists corrosion and the formation of ice on the outside.
12	Indoor use. (without knockouts).	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, dust, fluff, fibres, particles in suspension, drips and gentle splashes of non-corrosive liquids as well as gentle splashes or leaks of oil and non-corrosive coolants.
12K	Indoor use. (enclosures with pre-routing).	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, dust, lint, fibres flyings drips and gentle splashes of non-corrosive liquids as well as gentle splashes or leaks of oil and non-corrosive coolants.
13	Indoor use.	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, dust, lint, fibres flyings and the spraying, splashing, and seepage leaks of water, oil or non-corrosive coolants.

Note: The above recommendations aim to explain the NEMA and UL classifications, but are not the official texts of NEMA or UL. The exact definitions provided by the Organisations are those of standards NEMA 250 and UL 50E.

Polyester base coating properties



PB500058

Product type

Thermosetting polyester resins based powder coating modified by epoxy resins and designed for decoration and to prevent corrosion. The performance of this coating is superior to conventional epoxy powders in terms of: colour stability, temperature resistance and weather resistance. Grey RAL 7035; appearance: structured.

Mechanical properties

Test conditions: steel samples with a thickness of 1 mm. Degreasing using biodegradable surface-active agents. Film thickness: 60 microns.

Bonding (scratching and adhesive tape)	ISO 2409	Class 1
Eriksen stamping	ISO 1520	≥ 7 mm
Direct impact resistance	ISO 6272	> 1 kg/70 cm
Indirect impact resistance	ISO 6272	> 1 kg/20 cm
Bending around conical mandrel	ISO 6860 - ASTM D 522-88	Maximum cracking of 70 mm, without the paint coming loose

Chemical properties

Tests conducted at ambient temperature on phosphated samples covered with a 150 to 200 micron film:

- Film intact.
- Film attacked (blistering, yellowing, loss of gloss).

Number of months		2	4	6	8	10	12
Acid	Acetic 20%	[Intact]					
	Sulphuric 30%	[Intact]					
	Nitric 30%	[Attacked]					
	Phosphoric 30%	[Intact]					
	Hydrochloric 30%	[Attacked]					
	Lactic 10%	[Intact]					
	Citric 10%	[Attacked]					
Base	Soda 10%	[Attacked]					
	Ammonia 10%	[Attacked]					
Water	Distilled water	[Intact]					
	Sea water	[Intact]					
	Tap water	[Intact]					
	Diluted chloride bleach	[Attacked]					
Solvents	Petrol	[Attacked]					
	Higher alcohols	[Attacked]					
	Aliphatics	[Attacked]					
	Aromatics	[Attacked]					
	Ketones-esters	[Attacked]					
Tri-perchlorethylene	[Attacked]						

Physical properties

Temperature resistance: -40 °C and 100 hours at +150 °C (colour: white). Gloss retention: good.

Resistance to corrosion

Compliance with standard IEC 62208 for outdoor installations: 288 h of humid heat and 336 h of salt mist.

Polyester base coating properties

Nuclear decontamination

Applicable to colours RAL 7035 and AFNOR A550.
Standard NFT 30901. Percentage of decontamination for contamination by fission products. Please consult us for further details.

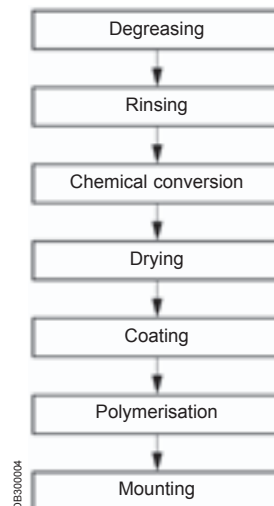
Accelerated aging

Standard IEC 62208: 500h UV according to ISO 4892 (method A) (adherence of the coating with minimum retention of 50% on the grid according to ISO 2409).

Fire behaviour

Class M1 (self-extinguishing material).
Class M0 (for coating on a metal base).

Manufacturing process



Properties of the plastic materials

Mechanical, electrical, physical and fire-resistance properties

Plastic materials generally used to manufacture our products:

- ABS.
- Polycarbonate.
- PVC (polyvinyl chloride).
- Bayblend® = PC + ABS.
- Polyester reinforced with fibreglass.
- Altuglas.
- Polypropylene.
- Polystyrene.
- Polyamide 6 and 12.
- SBS.

Specifications	Standards	Units	ABS	Polycarbonate	PVC	Bayblend®	Polyester	SBS
Mechanical properties								
Tensile strength	ISO 257	MPa	44	> 65	45	35	85	5
Tensile strain	ISO 527	%	12	> 110	120 to 150	40	0	600
Impact resistance	ISO 179	kJ/m ²	125	No breakage	25	No breakage	60	No breakage
Notching resistance	ISO 179	kJ/m ²	19	25	20	25	50	-
Electrical properties								
Stress point	IEC 60112	-	-	250-300	> 600	> 550	> 600	-
Surface strength	IEC 60093	ohm	1015	> 1015	> 1013	> 1014	≥1012	> 1013
Dielectric strength	IEC 60243	kV/mm	16.5	> 30	30	24	18-20	20
Specific resistivity	IEC 60093	ohm ³ cm	1015	> 1016	≥ 1015	1016	≥ 1012	> 1016
Physical properties								
Softening temperature (Vicat B)	ISO 306	°C	95	145-150	79-80	115	(1)	80
Temperature resistance	-	°C	-40...+90	-50...+125	-20...+65	-35...+90	-50...+150	-40...+120
Water absorption	ISO 62	%	0.2 - 0.45	0.15	< 0.1	0.2	0.2	-
Specific weight	ISO 1183	kg/dm ³	1.04	1.21	1.4	1.12	1.85	0.3 in 24 h
Fire resistance								
Oxygen index	ISO 4589	%	19	26	45-50	22	24.4	18
Glow wire resistance, 2 mm	IEC 60695-2	°C	650	960	960	750	960	750° (1.5 mm)
Glow wire resistance, 3 mm	IEC 60695-2	°C	650	960	960	750	960	NA

(1) No softening of the polyester.

Specifications	Standards	Units	Altuglas	Polypropylene	Polystyrene	Polyamide 6	Polyamide 12
Mechanical properties							
Tensile strength	ISO 257	MPa	30	35	24	40	30
Tensile strain	ISO 527	%	5	400	36	200	300
Impact resistance	ISO 179	kJ/m ²	20	20	63	No breakage	No breakage
Notching resistance	ISO 179	kJ/m ²	3	5	50	31.2	15
Electrical properties							
Stress point	IEC 60112	-	-	-	KB175	KB175	KB180
Surface strength	IEC 60093	ohm	≥ 1014	-	> 1013	1012	5 x 1010
Dielectric strength	IEC 60243	kV/mm	13-15	20	≤ 40	23	55
Specific resistivity	IEC 60093	ohm ³ cm	> 1015	> 1016	> 1015	1011	3 x 1011
Physical properties							
Softening temperature (Vicat B)	ISO 306	°C	120-122	75 (vicat A)	79	230	140
Temperature resistance	-	°C	-20...+80	-10...+80	-15...+60	-20...+100	-50...+125
Water absorption	ISO 62	%	< 0.5	0.1 in 24 h	0.1 in 24 h	1.6	1.5
Specific weight	ISO 1183	kg/dm ³	1.18	0.91	1.06	1.14	1.03
Fire resistance							
Oxygen index	ISO 4589	%	18.5	18	18	24	22
Glow wire resistance, 2 mm	IEC 60695-2	°C	-	650	650	750	650
Glow wire resistance, 3 mm	IEC 60695-2	°C	960	650	650	850	650

Properties of the plastic materials

Resistance to chemical agents

The table shows:

- The concentration of the chemical agent in %; sat = saturation.
- The resistance of the material:
 +: Resistant.
 O: Limited resistance.
 -: Not resistant.

Plastic materials generally used to manufacture our products:

- ABS.
- Polycarbonate.
- PVC (polyvinyl chloride).
- Bayblend® = PC + ABS.
- Polyester.
- Altuglas.
- Polypropylene.
- Polystyrene.
- Polyamide 6 and 12.
- SBS.

Resistance to	ABS	Polycarbonate	PVC	Bayblend®	Polyester	Altuglas	Polypropylene	Polystyrene	Polyamide 6	Polyamide 12	SBS
Acetone	-	-	-	-	-	O	100 +	-	100 +	+	+
Hydrochloric acid	15 +	10 +	30 +	20 +	30 +	sat +	10 +	O	10 -	10 +	10 +
Citric acid		10 +	sat +	10 +	100 +	sat +	sat +	+	10 O	+	10 +
Lactic acid	80 +	10 +	90 +	10 -	100 +	20 +	90 +	O	50 O	+	sat +
									90 -	+	
Nitric acid	30 +	10 +	50 +	10 +	20 +	10 +	25/50	O	2 O	-	50 +
		100 -			+	100 -	50		10 -		
Phosphoric acid	85 +	100 +	sat +	+	100 +	10 +	sat +	O	2 O	50 +	+
						95 -			10 -		
Sulphuric acid	50 +	50 +	96 +	30 +	70 +	30 +	96 +	O	3 -	10 +	96 +
		100 -									
Alcohol	O	96 +	96 +	-	50 O	50 O	96 +	+	96 O	96 +	+
Pure aniline	O	-	100 -	-	O	-	100 +		100 O	100 O	
Benzene	+	100 -	-	+	-	O	100 O		100 +	+	-
Liquid bromine		100 -	-	-	-		100 -			100 -	-
Liquid chlorine		-	100 -	-	sat +	-	100 -		100 O	-	50 +
Sea water	+	100 +	100 +	+	100 +	100 +	-	100 +		100 +	sat +
Petrol	+	100 +	100 O	-	100 +	100 O	-	-	100 +	+	-
Ether	-	100 O	100 -	-	100 O	+			100 +	100 +	-
Hexane	O	+	O	O	-		100 +		100 +	100 +	-
Oil and greases	+	100 +	100 +	O	100 +	100 O	100 +	-	+	100 +	-
Aromatic hydrocarbon	O	-	-	-	-	+	-	-	-	+	-
Fuel oil	O	100 O	100 +	-	100 +	100 -	100 +		100 +	100 +	-
Naphthalene			100 O	-	100 +	100 -	100 +		100 +	100 +	
Nitrobenzene	-	-	100 -	-	-	-	100 O		-	O	-
Phenol	-	-	sat O	-	20 O	-	sat +		-	-	10 O
Mineral salts		+	+	+	+	+	+			+	+
Iodine solution		O	-	+		-			+		
Toluene	-	-	100 -	-	+	O	100 O	-	100 +	100 +	-
Trichloroethylene	-	-	100 -	-	-	-	100 O	-	100 -	100 O	-
Urea		sat +	sat +	+			sat +		10 +	sat +	sat O

For other chemical agents, please contact us.

All this information is taken from the best sources and provided for information purposes only, with no commitment on our behalf.

General

The increasing presence of electromagnetic interference in industrial environments, together with the use of equipment susceptible to such interference requires the use of suitably protected enclosures.

In order to suppress electromagnetic interference, S3HF enclosures, due to the type of sheet metal and special gaskets used, fulfil two functions:

- Provision of adequate screening, with the effectiveness of a Faraday cage.
- Ability to provide effective protection of sensitive equipment by using galvanised sheet metal chassis, and by following recommended installation procedures.

Electromagnetic interference

Electromagnetic disruptions comprises an electrical field E generated by a differing potentials, and a magnetic field M, caused by current circulation, which combine to form electromagnetic field.

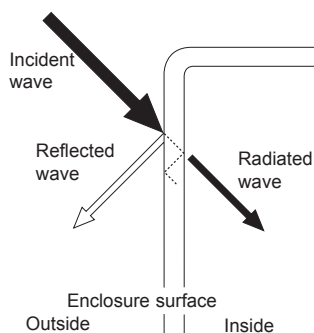
The electromagnetic interference or "noise" is a disruptive electrical signal which affects the useful signal and it likely to cause a malfunction.

Interference can be carried through the conductors or emitted through the environment.

Main sources of electrical interference and equipment sensitive to it

- Programmable controllers.
- Electronic circuits or boards.
- Regulators.
- Input signal cables (detectors, sensors, measurement probes).
- Analogue signal cables.

Main sources of electrical interference	
Material	Frequency range
Motors	10 kHz...100 MHz
Transformers/rectifiers	10 kHz...100 MHz
Inductive load switching	50 kHz...10 MHz
Spot welders	10 kHz...50 MHz
Fluorescent lamps	100 kHz...3 MHz
Relays, contactors	10 kHz...200 MHz
Switching power sources	10 kHz...30 MHz
Computers (internal clock)	50 kHz...200 MHz
Variable speed drives	10 kHz...100 MHz
Induction furnaces	0...10 kHz
Power cables, etc.	0...10 kHz



DES000006

Attenuation level of EMC fields

The waves of electrical or magnetic fields are reflected when they meet the sheet metal of the enclosure.

The effective rate of the screening or dampening "a" of the incident wave is measured in decibels (dB) using the following formulae:

$$a = 20 \log \frac{E_0}{E_1} \text{ (dB) for electrical fields,}$$

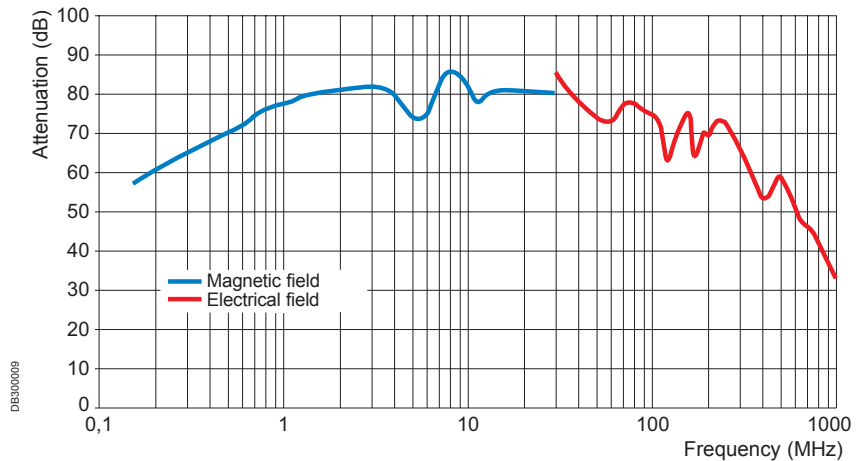
$$a = 20 \log \frac{H_0}{H_1} \text{ (dB) for magnetic fields,}$$

E0 and E1 are the current values of the electrical field, before entering and after entering the enclosure respectively.

H0 and H1 are the magnetic field values.

Example of attenuation level of S3HF enclosures

The presence of 55% aluminium on the surface of the sheet metal ensures good reflection of electromagnetic waves.
The graphic next to these lines shows the attenuation curves (dB) according to the frequency (MHz).



Installation

According to the type of interference generated by the devices:

- Low frequencies, "conducted interference" (up to 30 MHz).
- High frequencies, "radiated interference" (higher than 1 MHz).

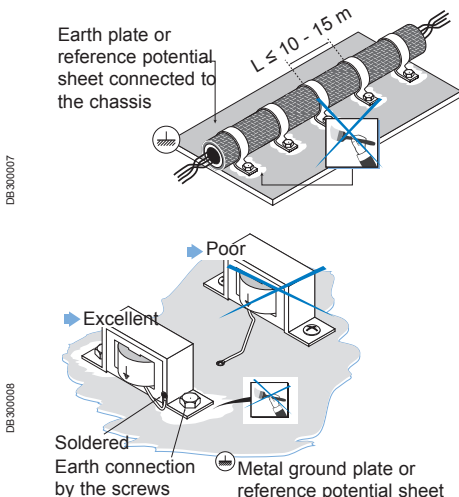
the rules to be taken into account relate to the choice of components that provide the most economical solution to complete the installation.

Low-frequency interference

- Importance of the protection systems:
 - Filters, overvoltage suppressor, isolating transformer for the power supply.
 - Cable length.

High-frequency interference

- Importance of the installation method:
 - Earth connections, cable length and section.
 - Cable selection and rules, cable runs, connections.
 - Enclosures and installation.



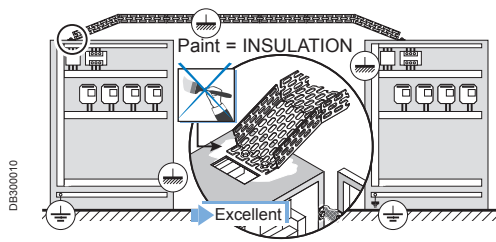
Specifics

Screen connections

It is recommended to earth screens at both ends. In addition, it is advisable to increase the number of intermediate earth connections.
If the screen is only earthed at one end, there can be a considerable difference in potential between the two ends. In addition, this screen will be ineffective against external high-frequency interference.

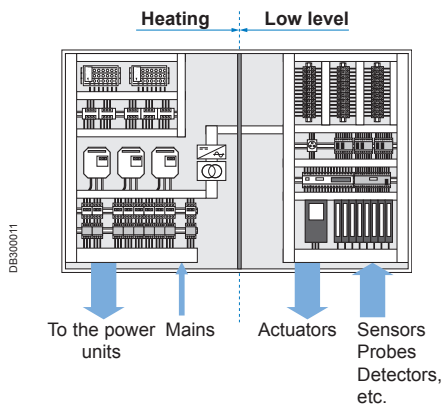
Transformers

The transformer chassis must be mounted, metal to metal, on the reference potential plate, that is, on a plain chassis supporting the equipment.



Cable runs

The metal ducts and conduits, when correctly connected, provide an extremely effective second screen for the cables. Cable ends must be screwed to the metal enclosures in order to provide an effective connection.



Enclosures

The interfering and sensitive components, cables etc. should be installed in separate enclosures or located at some distance from each other.

Note: For further information, consult your local sales office or our educational leaflet entitled "Electromagnetic compatibility".

Potentially explosive atmospheres: important information



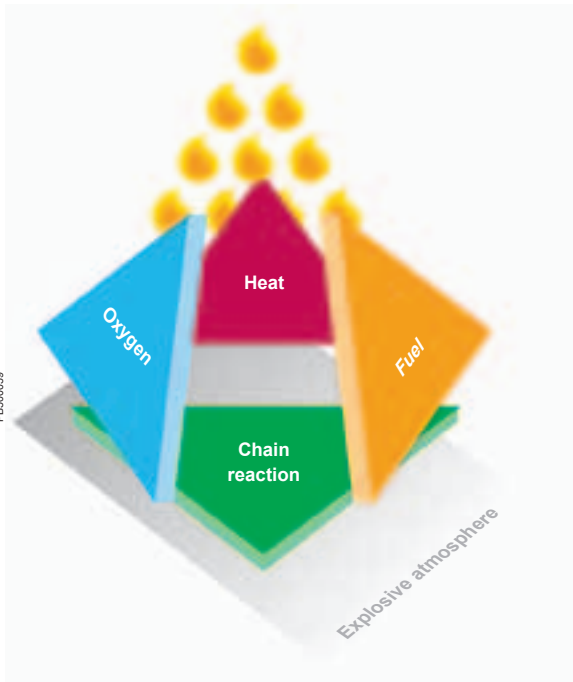
Product directive 94/9/CE: defines the manufacturers' obligations.



Personal protection directive 99/92/CE: defines the users' obligations.

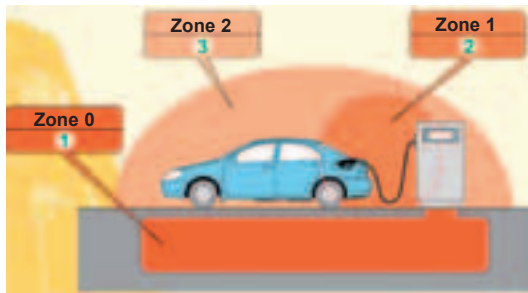
What is ATEX?

- It is a term commonly used to describe potentially EXplosive ATmospheres and standards for protection systems and equipment.
- Two European directives, ATEX 99/92/CE and ATEX 94/9/CE, and international standards IEC 60079 and IEC 61241, harmonized with EN European standards, apply to this field.



How is a potentially explosive atmosphere defined according to ATEX?

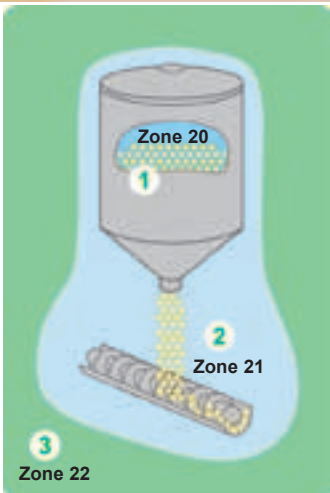
- An potentially explosive atmosphere is defined as a mix of flammable substances in the form of gas, vapour, dust (cloud or deposit) which, in air and under normal atmospheric conditions, can completely or partially catch fire in the form of an explosion when exposed to a source of ignition.



Classification of an explosive atmosphere

- They are classified into groups and zones according to directive 99/92/CE and IEC standards as follows:

Destination	Categories/presence of potentially explosive atmosphere	Hazardous zones	Atmosphere
Group I Mines	M1 and M2	Gas and dust (G & D)	
		Zone 0: gas and vapour	G
Group II surface Industries	1 Permanent or frequent	Zone 20: mist and dust	D
		Zone 1: gas and vapour	G
	2 Occasional	Zone 21: mist and dust	D
		Zone 2: gas and vapour	G
			Zone 22: mist and dust
3 Rare			



Equipment for potentially explosive atmospheres

- Since 1st July 2003, European directive ATEX 94/9/CE has made it compulsory to use certified electric or non-electric equipment when it must be installed in zones with explosive atmospheres (gas or dust).
- Certification must be provided by a body which is notified according to the same directive.
- The body notifies its assessment of the quality of the production and certifies that the product complies with the health and safety demands defined in the directive and the international standards.
- The certificate shows the category of the product by marking, and thus the zone and atmosphere in which it can be used.
- The standards define the following types of protection for electric equipment:

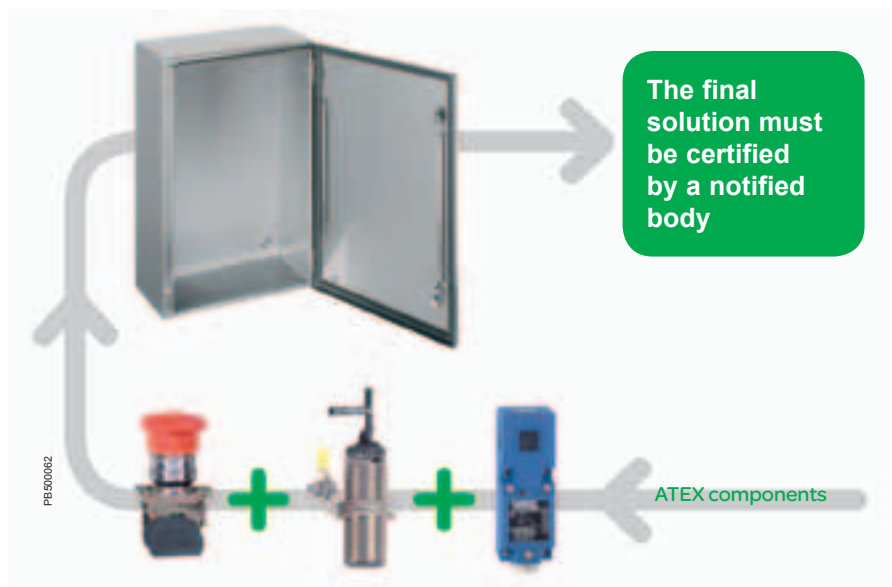
Electrical equipment				
CENELEC	IEC	Gas: symbol of the types of protection	CENELEC/IEC	Powder: symbol of the types of protection
EN 60079-0	IEC 60079-0	General rules	IEC/EN 61241-0	General rules
EN 50015	IEC 60079-6	o -oil immersion	IEC/EN 61241-1	tD -protection by enclosures
EN 50016	IEC 60079-2	p -pressurised enclosures	IEC/EN 61241-4	pD -protection by pressurisation
EN 50017	IEC 60079-5	q -powder filling	IEC/EN 61241-11	iD -protection by intrinsic safety
EN 60079-1	IEC 60079-1	d -flameproof enclosures	IEC/EN 61241-18	mD -protection by encapsulation
EN 60079-7	IEC 60079-7	e -increased safety		
EN 50020	IEC 60079-11	i -intrinsic safety		
EN 60079-15	IEC 60079-15	n -type of protection "n"		



Degree of protection

In hazardous areas, equipment is required to offer a minimum degree of protection of IP 54, but it can be tested or certified with a higher degree of protection.

- Enclosures are certified as components. They will be assembled with other ATEX electrical, pneumatic and hydraulic components, among others to form a final solution which, in turn, must be ATEX-certified and subject to a declaration of conformity.



3 Material solutions for wall-mounting enclosures

Steel

Stainless-steel


Polyester

Zone of application of Schneider Electric ATEX wall-mounting enclosures

Three types of enclosures

- All the wall-mounting enclosures presented in this brochure comply with standards for protection against the increased risk of explosion in atmospheres charged with gas (G) and/or dust (D).
- The Schneider Electric offer, designed to be used in group II, is classified as category 2.

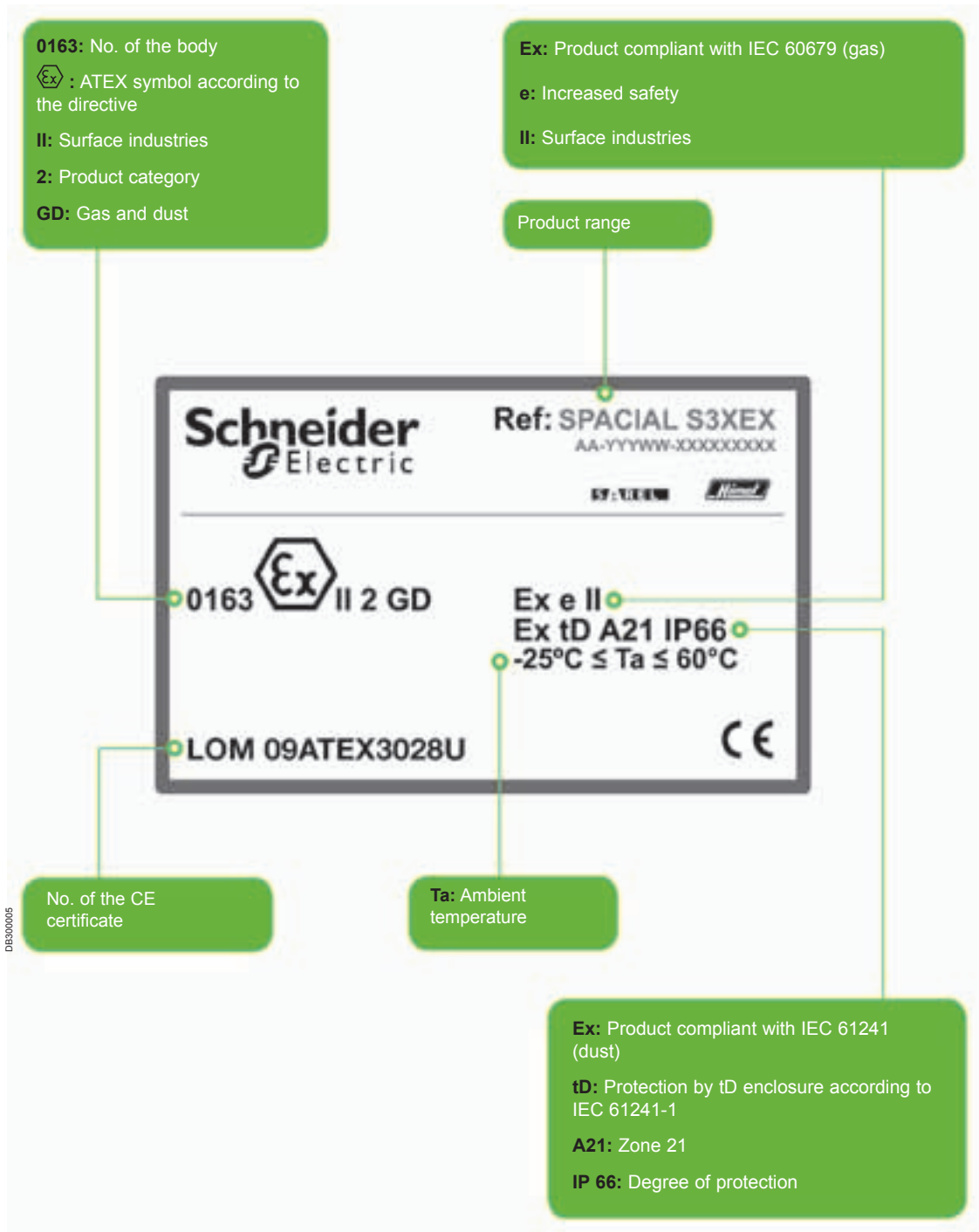
Destination	Categories/presence of potentially explosive atmosphere	Hazardous zones	Atmosphere
Group I Mines	M1 and M2	Gas and dust (G & D)	
Group II Surface industries	1 Permanent or frequent	Zone 0: gas and vapour	G
		Zone 20: mist and dust	D
	2 Occasional	Zone 1: gas and vapour	G
		Zone 21: mist and dust	D
	3 Rare	Zone 2: gas and vapour	G
		Zone 22: mist and dust	D

- Category 2 products can be used as category 3.
- Our products are qualified for increased safety "e" (Ex e) but not for explosion-proof safety "d" (Ex d).
- The wall-mounting enclosures have the following marks:  II 2 GD Ex e II Ex tD A21 IP 66 according to directive 94/9/CE and standards EN 60079-0 (2004), EN 60079-7 (2006), EN 61241-0 (2005) and EN 61241-1 (2004).
- The wall-mounting enclosures offer a degree of protection IP 66 according to EN 60529, exceeding the recommendations of the ATEX directive.
- Certification of our production sites and inspection procedures guarantees observance and consistency of the quality level.

Description of the marking label affixed to ATEX certified wall-mounting enclosures



Download our ATEX certificates from our site.



Spare parts Selection table

Description	Type	Steel													Reference		
		Wall-mounting							Floor-standing								
		S3D	S3DM	S3DC	S3DCD	S3DB	CRN	CRNG	OLN	CMO	S6000	S18500	SF	SM			
Standard door hinges and pins. 4 units. OLN/S6000	Door accessories								•		•						NSYDHS6
Standard door hinges and pins. 4 units. CMO/S18500	Door accessories									•		•					NSYDHS18
Standard gasket for gland plate, 2000 mm. OLN/CMO/S6000/S18500	Door accessories								•	•	•	•					NSYDKTS6
Set of 4 Hinges & fixing elements for SF/SM	Door accessories												•	•			NSYDHSF
Standard Spacial hinge CRN	Door accessories								•								NSYBICRN
Gasket double door encl. for S3D	Door accessories	•															NSYDGD
Set of 5 taps and latches S3D	Door accessories	•															NSYS3DTL
Glazed door H300xW250 CRN	Doors							•									NSYDCRN3025T
Glazed door H300xW300 CRN	Doors							•									NSYDCRN33T
Glazed door H300xW400 CRN	Doors							•									NSYDCRN34T
Glazed door H400xW300 CRN	Doors							•									NSYDCRN43T
Glazed door H400xW400 CRN	Doors							•									NSYDCRN44T
Glazed door H400xW600 CRN	Doors							•									NSYDCRN46T
Glazed door H500xW400 CRN	Doors							•									NSYDCRN54T
Glazed door H500xW500 CRN	Doors							•									NSYDCRN55T
Glazed door H600xW400 CRN	Doors							•									NSYDCRN64T
Glazed door H600xW500 CRN	Doors							•									NSYDCRN65T
Glazed door H600xW600 CRN	Doors							•									NSYDCRN66T
Glazed door H600xW800 CRN	Doors							•									NSYDCRN68T
Glazed door H700xW500 CRN	Doors							•									NSYDCRN75T
Glazed door H800xW600 CRN	Doors							•									NSYDCRN86T
Glazed door H800xW800 CRN	Doors							•									NSYDCRN88T
Glazed door H1000xW600 CRN	Doors							•									NSYDCRN106T
Glazed door H1000xW800 CRN	Doors							•									NSYDCRN108T
Plain door 300x200 S3D	Doors	•															NSYDS3D32
Plain door 300x250 S3D	Doors	•															NSYDS3D325
Plain door 300x300 S3D	Doors	•															NSYDS3D33
Plain door 300x400 S3D	Doors	•															NSYDS3D34
Plain door 400x300 S3D	Doors	•															NSYDS3D43
Plain door 400x400 S3D	Doors	•															NSYDS3D44
Plain door 400x600 S3D	Doors	•															NSYDS3D46
Plain door 500x300 S3D	Doors	•															NSYDS3D53
Plain door 500x400 S3D	Doors	•															NSYDS3D54
Plain door 500x500 S3D	Doors	•															NSYDS3D55
Plain door 600x400 S3D	Doors	•															NSYDS3D64
Plain door 600x500 S3D	Doors	•															NSYDS3D65
Plain door 600x600 S3D	Doors	•															NSYDS3D66
Plain door 600x800 S3D	Doors	•															NSYDS3D68
Plain door 700x500 S3D	Doors	•															NSYDS3D75
Plain door 800x600 S3D	Doors	•															NSYDS3D86
Plain door 800x800 S3D	Doors	•															NSYDS3D88
Plain door 800x1000 S3D	Doors	•															NSYDS3D810
Plain door 800x500 right S3D	Doors	•															NSYDS3D85R
Plain door 800x500 left S3D	Doors	•															NSYDS3D85L
Plain door 800x600 right S3D	Doors	•															NSYDS3D86R
Plain door 800x600 left S3D	Doors	•															NSYDS3D86L
Plain door 1000x600 S3D	Doors	•															NSYDS3D106
Plain door 1000x800 S3D	Doors	•															NSYDS3D108
Plain door 1000x1000 S3D	Doors	•															NSYDS3D1210
Plain door 1000x500 right S3D	Doors	•															NSYDS3D105R
Plain door 1000x500 left S3D	Doors	•															NSYDS3D105L
Plain door 1000x600 right S3D	Doors	•															NSYDS3D106R
Plain door 1000x600 left S3D	Doors	•															NSYDS3D106L
Plain door 1200x600 S3D	Doors	•															NSYDS3D126
Plain door 1200x800 S3D	Doors	•															NSYDS3D128
Plain door 1200x500 right S3D	Doors	•															NSYDS3D125R
Plain door 1200x500 left S3D	Doors	•															NSYDS3D125L
Plain door 1200x600 right S3D	Doors	•															NSYDS3D126R
Plain door 1200x600 left S3D	Doors	•															NSYDS3D126L
Plain door 1400x500 right S3D	Doors	•															NSYDS3D145R
Plain door 1400x500 left S3D	Doors	•															NSYDS3D145L
Plain door 500x500 S3DCD	Doors				•												NSYDS3DCD55
Plain door 600x600 S3DCD	Doors				•												NSYDS3DCD66
Plain door 700x500 S3DCD	Doors				•												NSYDS3DCD75
Plain door 800x600 S3DCD	Doors				•												NSYDS3DCD86
Plain door 1000x600 S3DCD	Doors				•												NSYDS3DCD106
Plain door 1000x800 S3DCD	Doors				•												NSYDS3DCD108
Plain door 1000x1000 S3DCD	Doors				•												NSYDS3DCD1010
Plain door 1200x1000 S3DCD	Doors				•												NSYDS3DCD1210
Plain door 300x200 S3DC	Doors			•													NSYDS3DC32
Plain door 300x300 S3DC	Doors			•													NSYDS3DC33
Plain door 400x300 S3DC	Doors			•													NSYDS3DC43
Plain door 400x400 S3DC	Doors			•													NSYDS3DC44
Plain door 500x400 S3DC	Doors			•													NSYDS3DC54
Plain door 500x500 S3DC	Doors			•													NSYDS3DC55
Plain door 600x400 S3DC	Doors			•													NSYDS3DC64
Plain door 600x600 S3DC	Doors			•													NSYDS3DC66
Plain door 700x500 S3DC	Doors			•													NSYDS3DC75
Plain door 800x600 S3DC	Doors			•													NSYDS3DC86
Plain door 800x800 S3DC	Doors			•													NSYDS3DC88
Plain door 1000x600 S3DC	Doors			•													NSYDS3DC106
Plain door 1000x800 S3DC	Doors			•													NSYDS3DC108
Plain door 1000x1000 S3DC	Doors			•													NSYDS3DC1010
Plain door 1200x800 S3DC	Doors			•													NSYDS3DC128
Plain door 1200x1000 S3DC	Doors			•													NSYDS3DC1210
Plain door 250x300 S3DB	Doors						•										NSYDS3DB2530

Spare parts

Selection table

Description	Type	Steel													Reference		
		Wall-mounting							Floor-standing								
		S3D	S3DM	S3DC	S3DCD	S3DB	CRN	CRNG	OLN	CMO	S6000	S18500	SF	SM			
Plain door 250x400 S3DB	Doors																NSYDS3DB2540
Plain door 250x500 S3DB	Doors							•									NSYDS3DB2550
Plain door 300x300 S3DB	Doors							•									NSYDS3DB33
Plain door 300x400 S3DB	Doors							•									NSYDS3DB34
Plain door 300x500 S3DB	Doors							•									NSYDS3DB35
Plain door 300x600 S3DB	Doors							•									NSYDS3DB36
Plain door 400x300 S3DB	Doors							•									NSYDS3DB43
Plain door 400x800 S3DB	Doors							•									NSYDS3DB48
Plain door 500x400 S3DB	Doors							•									NSYDS3DB54
Plain door 600x400 S3DB	Doors							•									NSYDS3DB64
Glazed door 300x250 S3D	Doors	•															NSYDS3D325T
Glazed door 300x300 S3D	Doors	•															NSYDS3D33T
Glazed door 300x400 S3D	Doors	•															NSYDS3D34T
Glazed door 300x600 S3D	Doors	•															NSYDS3D36T
Glazed door 400x300 S3D	Doors	•	•														NSYDS3D43T
Glazed door 400x400 S3D	Doors	•															NSYDS3D44T
Glazed door 400x600 S3D	Doors	•															NSYDS3D46T
Glazed door 500x300 S3D	Doors	•															NSYDS3D53T
Glazed door 500x400 S3D	Doors	•	•														NSYDS3D54T
Glazed door 500x500 S3D	Doors	•															NSYDS3D55T
Glazed door 500x600 S3D	Doors	•															NSYDS3D56T
Glazed door 600x400 S3D	Doors	•	•														NSYDS3D64T
Glazed door 600x500 S3D	Doors	•															NSYDS3D65T
Glazed door 600x600 S3D	Doors	•	•														NSYDS3D66T
Glazed door 600x800 S3D	Doors	•															NSYDS3D68T
Glazed door 700x500 S3D	Doors	•	•														NSYDS3D75T
Glazed door 700x600 S3D	Doors	•															NSYDS3D76T
Glazed door 800x600 S3D	Doors	•	•														NSYDS3D86T
Glazed door 800x800 S3D	Doors	•															NSYDS3D88T
Glazed door 1000x600 S3D	Doors	•	•														NSYDS3D106T
Glazed door 1000x800 S3D	Doors	•	•														NSYDS3D108T
Glazed door 1000x1000 S3D	Doors	•															NSYDS3D1010T
Glazed door 1200x600 S3D	Doors	•															NSYDS3D126T
Glazed door 1200x800 S3D	Doors	•															NSYDS3D128T
Glazed door 1200x1000 S3D	Doors	•															NSYDS3D1210T
Glazed door 1000x500 right S3D	Doors	•															NSYDS3D105TR
Glazed door 1000x500 left S3D	Doors	•															NSYDS3D105TL
Glazed door 1200x500 right S3D	Doors	•															NSYDS3D125TR
Glazed door 1200x500 left S3D	Doors	•															NSYDS3D125TL
Plain door H200xW200 CRN	Doors																NSYDCRN22
Plain door H200xW300 CRN	Doors							•									NSYDCRN23
Plain door H250xW200 CRN	Doors							•									NSYDCRN2520
Plain door H300xW250 CRN	Doors							•									NSYDCRN3025
Plain door H300xW300 CRN	Doors							•									NSYDCRN33
Plain door H300xW400 CRN	Doors							•									NSYDCRN34
Plain door H300xW450 CRN	Doors							•									NSYDCRN3045
Plain door H400xW300 CRN	Doors							•									NSYDCRN43
Plain door H400xW400 CRN	Doors							•									NSYDCRN44
Plain door H400xW600 CRN	Doors							•									NSYDCRN46
Plain door H500xW400 CRN	Doors							•									NSYDCRN54
Plain door H500xW500 CRN	Doors							•									NSYDCRN55
Plain door H600xW400 CRN	Doors							•									NSYDCRN64
Plain door H600xW500 CRN	Doors							•									NSYDCRN65
Plain door H600xW600 CRN	Doors							•									NSYDCRN66
Plain door H600xW800 CRN	Doors							•									NSYDCRN68
Plain door H700xW500 CRN	Doors							•									NSYDCRN75
Plain door H800xW600 CRN	Doors							•									NSYDCRN86
Plain door H800xW800 CRN	Doors							•									NSYDCRN88
Plain door H1000xW600 CRN	Doors							•									NSYDCRN106
Plain door H1000xW800 CRN	Doors							•									NSYDCRN108
Roof trim neutral 1000 mm CMO/S18500	Doors									•			•				NSYTRIM10S18
Plain door H1800xW600 mm for OLN/S6000/CMO/S18500	Doors									•	•	•	•				OLPU186
Plain door H1800xW800 mm for OLN/S6000/CMO/S18500	Doors									•	•	•	•				OLPU188
Plain door H2000xW600 mm for OLN/S6000/CMO/S18500	Doors									•	•	•	•				OLPU206
Plain door H2000xW800 mm for OLN/S6000/CMO/S18500	Doors									•	•	•	•				OLPU208
Plain door H2000xW1000 mm for OLN/S6000/CMO/S18500	Doors									•	•	•	•				OLPU2010
Transparent door H1800xW800 mm for OLN/S6000/CMO/S18500	Doors									•	•	•	•				OLPU188KT
Transparent door H2000xW800 mm for OLN/S6000/CMO/S18500	Doors									•	•	•	•				OLPU208KT
Set of 500 earthing labels	Earthing accessories	•	•	•		•	•	•									NSYSWMEL
100 screws cable gland plate S3D	Fixing hardware	•	•														NSYS3DCGSB
Standard screw bag cable gland plate	Fixing hardware	•	•					•									NSYS3DCGPSTDSB
Standard handle in RAL 7011	Locking accessories									•	•	•	•				NSYSDH
OLN/CMO/S6000/S18500 Flat escutcheon DB 5 mm insert for OLN/CMO/S6000/S18500/Spacial SD	Locking accessories									•	•	•	•				NSYEMPOLN
Locking system for enclosures 1 single door version 1200H	Locking accessories									•	•	•	•				NSYLCK12S6
Locking system for enclosures 1 single door version 1600H	Locking accessories									•	•	•	•				NSYLCK16S6

Spare parts

Selection table

Description	Type	Steel												Reference			
		Wall-mounting						Floor-standing									
		S3D	S3DM	S3DC	S3DCD	S3DB	CRN	CRNG	OLN	CMO	S6000	S18500	SF		SM		
Locking system for enclosures 1 single door version 1800H	Locking accessories									•	•	•	•				NSYLCK18S6
Locking system for enclosures 1 single door version 2000H	Locking accessories									•	•	•	•				NSYLCK20S6
Locking system for enclosures 1 single door version 2200H	Locking accessories									•	•	•	•				NSYLCK22S6
Locking system for enclosures 1 single door version 1200H (right side door for double door version) Spacial SF/SM	Locking accessories													•	•		NSYLCK12SF
Locking system for enclosures 1 single door version 1600H (right side door for double door version) Spacial SF/SM	Locking accessories													•	•		NSYLCK16SF
Locking system for enclosures 1 single door version 1800H (right side door for double door version) Spacial SF/SM	Locking accessories													•	•		NSYLCK18SF
Locking system for enclosures 1 single door version 2000H (right side door for double door version) Spacial SF/SM	Locking accessories													•	•		NSYLCK20SF
Locking system for enclosures 1 single door version 2200H (right side door for double door version) Spacial SF/SM	Locking accessories													•	•		NSYLCK22SF
Locking system for double door enclosures. Secondary door. Spacial SF/SM	Locking accessories													•	•		NSYLCKSF
Set of 10 linkage guides S3D	Locking accessories	•	•	•													NSYS3DLG
Standard lock enclosures for S3DC	Locking accessories			•	•												NSYAEDLS3DC
Standard key DB3 S3D	Locking accessories	•	•			•											NSYAEDLS3DKDB3
3 point lock linkage H 600 mm S3D	Locking accessories	•	•	•													NSYBTAS3D60
3 point lock linkage H 700 mm S3D	Locking accessories	•	•	•	•												NSYBTAS3D70
3 point lock linkage H 800 mm S3D	Locking accessories	•	•	•	•												NSYBTAS3D80
3 point lock linkage H 1000 mm S3D	Locking accessories	•	•	•	•												NSYBTAS3D100
3 point lock linkage H 1200 mm S3D	Locking accessories	•		•	•												NSYBTAS3D120
3 point lock linkage H 1400 mm S3D	Locking accessories	•															NSYBTAS3D140
2244E key handle S3D	Locking accessories	•															NSYAEDL2244S3D
4322A key handle S3D	Locking accessories	•															NSYAEDL4322S3D
1332E key handle S3D	Locking accessories	•															NSYAEDL1332S3D
3132A key handle S3D	Locking accessories	•															NSYAEDL3132S3D
2132A key handle S3D	Locking accessories	•															NSYAEDL2132S3D
2124E key handle S3D	Locking accessories	•															NSYAEDL2124S3D
2314E key handle S3D	Locking accessories	•															NSYAEDL2314S3D
2241A key handle S3D	Locking accessories	•															NSYAEDL2241S3D
2322A key handle S3D	Locking accessories	•															NSYAEDL2322S3D
3432E key handle S3D	Locking accessories	•															NSYAEDL3432S3D
520 key handle S3D	Locking accessories	•															NSYAEDL520S3D
4324E key handle S3D	Locking accessories	•															NSYAEDL4324S3D
3123E key handle S3D	Locking accessories	•															NSYAEDL3123S3D
2131A key handle S3D	Locking accessories	•															NSYAEDL2131S3D
610E key handle S3D	Locking accessories	•															NSYAEDL610S3D
1344E key handle S3D	Locking accessories	•															NSYAEDL1344S3D
601 key handle S3D	Locking accessories	•															NSYAEDL601S3D
705E key handle S3D	Locking accessories	•															NSYAEDL705S3D
2432E key handle S3D	Locking accessories	•															NSYAEDL2432S3D
2133A key handle S3D	Locking accessories	•															NSYAEDL2133S3D
5124A key handle S3D	Locking accessories	•															NSYAEDL5124S3D

Spare parts

Selection table

Description	Type	Steel													Reference		
		Wall-mounting							Floor-standing								
		S3D	S3DM	S3DC	S3DCD	S3DB	CRN	CRNG	OLN	CMO	S6000	S18500	SF	SM			
TCRE1 Lock for CRN	Locking accessories						•										NSYTCRE1
TCRE12 Lock for CRN	Locking accessories						•										NSYTCRE12
50 caps for holes of hinges WM	Panels	•	•	•	•	•		•									NSYSWMCH
Set of 50 back plugs WM	Panels	•	•	•	•	•	•	•									NSYSWMBP
Roof trim neutral 600 mm OLN/S6000	Panels								•		•						NSYTRIM6S6
Roof trim neutral 800 mm OLN/S6000	Panels								•		•						NSYTRIM8S6
Roof trim neutral 1000 mm OLN/S6000	Panels								•		•						NSYTRIM10S6
Roof trim neutral 600 mm CMO/S18500	Panels									•		•					NSYTRIM6S18
Roof trim neutral 800 mm CMO/S18500	Panels									•		•					NSYTRIM8S18
Side panel H1800xW500 for OLN/S6000/CMO/S18500	Panels									•	•	•					2PLOL185
Side panel H1800xW600 for OLN/S6000/CMO/S18500	Panels									•	•	•					2PLOL186
Side panel H2000xW500 for OLN/S6000/CMO/S18500	Panels									•	•	•					2PLOL205
Side panel H2000xW600 for OLN/S6000/CMO/S18500	Panels									•	•	•					2PLOL206
Side panel H2000xW800 for OLN/S6000/CMO/S18500	Panels									•	•	•					2PLOL208

Spare parts

Selection table

Description	Type	Stainless steel			Insulating materials		Applicative offer						Reference		
		Wall-mounting	Floor-standing		Wall-mounting	Floor-standing	HMI				EMC	ATEX			
			S3X	SFX			SMX	PLM	PLA	S3CM				SD	SDX
Cable gland plate SFX64	Cable gland plates	•													NSYCEX1
Cable gland plate SMX64/SFX65	Cable gland plates	•	•												NSYCEX2
Cable gland p. SDX85/SMX85/SFX86	Cable gland plates	•	•						•						NSYCEX7
Cable gland plate SFX84	Cable gland plates	•													NSYCEX4
Cable gland plate SMX103	Cable gland plates			•											NSYCEX10
Cable gland plate SMX104	Cable gland plates			•											NSYCEX11
Cable gland plate SMX104 316L	Cable gland plates			•											NSYCEX12
Cable gland plate SMX124	Cable gland plates			•											NSYCEX14
Cable gland plate SMX124 316L	Cable gland plates			•											NSYCEX15
Cable gland plate SMX125 316L	Cable gland plates			•											NSYCEX17
Cable gland plate SMX84/SMX164	Cable gland plates			•											NSYCEX5
Cable gland plate SMX166	Cable gland plates			•											NSYCEX8
Cable gland plate SMX166 316L	Cable gland plates			•											NSYCEX9
Cable gland plate SMX84/SMX164 316L	Cable gland plates			•											NSYCEX6
Cable gland plate SDX105/SFX106	Cable gland plates	•								•					NSYCEX13
Cable gland plate SDX125/SMX125	Cable gland plates			•						•					NSYCEX16
Cable gland plate SDX65/SFX126	Cable gland plates	•								•					NSYCEX3
Cable gland plate 800x400 mm SFX	Cable gland plates	•													NSYCEX84A
Cable gland pl. 1 entry W600 mm SD	Cable gland plates								•						NSYCESD6R
Cable gland pl. 1 entry W800 mm SD	Cable gland plates								•						NSYCESD8R
Cable gland pl. 1 entry W1000 mm SD	Cable gland plates								•						NSYCESD10R
Cable gland pl. 1 entry W1200 mm SD	Cable gland plates								•						NSYCESD12R
Cable gland pl. 1 entry W600xD800 mm SD	Cable gland plates								•						NSYFCESD68
Cable gland pl. 1 entry W800xD800 mm SD	Cable gland plates								•						NSYFCESD88
Cable gland pl. 1 entry W1000xD800 mm SD	Cable gland plates								•						NSYFCESD108
Cable gland pl. 1 entry W1200xD800 mm SD	Cable gland plates								•						NSYFCESD128
Cable gland pl. 1 entry W1600xD800 mm SD	Cable gland plates								•						NSYFCESD168
Cable gland pl. 1 entry W800xD1000 mm SD	Cable gland plates								•						NSYFCESD810
Cable gland pl. 1 entry W1000xD1000 mm SD	Cable gland plates								•						NSYFCESD1010
Cable gland pl. 1 entry W1200xD1000 mm SD	Cable gland plates								•						NSYFCESD1210
Cable gland pl. 1 entry W1600xD1000 mm SD	Cable gland plates								•						NSYFCESD1610
Hinges compact control desk SD	Door accessories									•					NSYHSD
Hinges control desk w/console SD	Door accessories									•					NSYHSD
Standard Spacial hinge CRN	Door accessories							•							NSYBICRN
Hinge PLA (120° opening)	Door accessories														NSYAEPLA004
Axes of door PLAZT (180° opening)	Door accessories														NSYAEPLA005
Rod guide inside the door PLA (set of 2)	Door accessories														NSYAEPLA001
Rod guide on 1 door PLA (set of 2)	Door accessories														NSYAEPLA002
Rod guide on 2 doors PLA (set of 2)	Door accessories														NSYAEPLA003
Door hinge for NSYPLM32	Door accessories					•									NSYAEHPLM32
Door hinge for NSYPLM3025	Door accessories					•									NSYAEHPLM3025
Door hinge for NSYPLM43 to 86	Door accessories					•									NSYAEHPLM
Door hinge for NSYPLM108	Door accessories					•									NSYAEHPLM108
Set of 2 hinges for S3X	Door accessories	•													NSYHS3X
Set of 3 hinges for SFX	Door accessories		•												NSYHSMX
Set of 3 hinges stainless 316L SMX	Door accessories			•											NSYHSMXH
Left door 304L 1000x1000 mm for S3X	Doors	•													NSYDS3X1010L
Left door 316L 1000x1000 mm for S3X	Doors	•													NSYDS3X1010LH
Right door 304L 1000x1000 mm S3X	Doors	•													NSYDS3X1010R
Right door 316L 1000x1000 mm S3X	Doors	•													NSYDS3X1010RH
Plain door 304L 1000x800 mm for S3X	Doors	•													NSYDS3X108
Plain door 316L 1000x800 mm for S3X	Doors	•													NSYDS3X108H
Left door 304L 1200x1000 mm for S3X	Doors	•													NSYDS3X1210L
Left door 316L 1200x1000 mm for S3X	Doors	•													NSYDS3X1210LH
Right door 304L 1200x1000 mm S3X	Doors	•													NSYDS3X1210R
Right door 316L 1200x1000 mm S3X	Doors	•													NSYDS3X1210RH
Plain door 304L 1200x800 mm S3X	Doors	•													NSYDS3X128
Plain door 316L 1200x800 mm S3X	Doors	•													NSYDS3X128H
Plain door 304L 300x200 mm for S3X	Doors	•													NSYDS3X32
Plain door 304L 300x250 mm for S3X	Doors	•													NSYDS3X325
Plain door 316L 300x250 mm for S3X	Doors	•													NSYDS3X325H
Plain door 316L 300x200 mm for S3X	Doors	•													NSYDS3X32H
Plain door 304L 300x300 mm for S3X	Doors	•													NSYDS3X33
Plain door 316L 300x300 mm for S3X	Doors	•													NSYDS3X33H
Plain door 304L 400x300 mm for S3X	Doors	•													NSYDS3X43
Plain door 316L 400x300 mm for S3X	Doors	•													NSYDS3X43H
Plain door 304L 400x400 mm for S3X	Doors	•													NSYDS3X44
Plain door 316L 400x400 mm for S3X	Doors	•													NSYDS3X44H
Plain door 304L 400x600 mm for S3X	Doors	•													NSYDS3X46
Plain door 316L 400x600 mm for S3X	Doors	•													NSYDS3X46H
Plain door 304L 500x400 mm for S3X	Doors	•													NSYDS3X54
Plain door 316L 500x400 mm for S3X	Doors	•													NSYDS3X54H
Plain door 304L 600x400 mm for S3X	Doors	•													NSYDS3X64
Plain door 316L 600x400 mm for S3X	Doors	•													NSYDS3X64H
Plain door 304L 600x600 mm for S3X	Doors	•													NSYDS3X66
Plain door 316L 600x600 mm for S3X	Doors	•													NSYDS3X66H
Plain door 304L 700x500 mm for S3X	Doors	•													NSYDS3X75
Plain door 316L 700x500 mm for S3X	Doors	•													NSYDS3X75H
Plain door 304L 800x600 mm for S3X	Doors	•													NSYDS3X86
Plain door 316L 800x600 mm for S3X	Doors	•													NSYDS3X86H
Plain door 304L 800x800 mm for S3X	Doors	•													NSYDS3X88
Plain door 316L 800x800 mm for S3X	Doors	•													NSYDS3X88H
Left door 304L 1400x1000 mm SMX	Doors			•											NSYDSFX1410L
Right door 304L 1400x1000 mm SMX	Doors			•											NSYDSFX1410R
Door 304L 1600x800 mm SMX	Doors			•											NSYDSFX168
Door 304L 1800x600 mm SMX SFX	Doors			•											NSYDSFX186
Left door 1800x1200 mm SMX SFX	Doors			•											NSYDSFX1812L
Left door 316L 1800x1200 mm SMX	Doors			•											NSYDSFX1812LH
Right door 1800x1200 mm SMX SFX	Doors			•											NSYDSFX1812R

Spare parts

Selection table

Description	Type	Stainless steel			Insulating materials		Applicative offer						Reference		
		Wall-mounting	Floor-standing		Wall-mounting	Floor-standing	HMI				EMC	ATEX			
			S3X	SFX			SMX	PLM	PLA	S3CM				SD	SDX
Right door 316L 1800x1200 mm SMX	Doors			•											NSYDSFX1812RH
Door 304L 1800x800 mm SMX SFX	Doors		•												NSYDSFX188
Door 316L 1800x800 mm SMX	Doors			•											NSYDSFX188H
Left door 304L 1800x1600 mm SMX	Doors			•											NSYDSFX1816L
Left door 316L 1800x1600 mm SMX	Doors			•											NSYDSFX1816LH
Right door 304L 1800x1600 mm SMX	Doors			•											NSYDSFX1816R
Right door 316L 1800x1600 mm SMX	Doors			•											NSYDSFX1816RH
Left door 2000x1000 mm SMX SFX	Doors		•	•											NSYDSFX2010L
Left door 316L 2000x1000 mm SMX	Doors			•											NSYDSFX2010LH
Right door 2000x1000 mm SMX SFX	Doors		•	•											NSYDSFX2010R
Right door 316L 2000x1000 mm SMX	Doors			•											NSYDSFX2010RH
Door 1800x800 mm SMX SFX	Doors		•	•											NSYDSFX206
Left door 2000x1200 mm SMX SFX	Doors		•	•											NSYDSFX2012L
Left door 316L 2000x1200 mm SMX	Doors			•											NSYDSFX2012LH
Right door 2000x1200 mm SMX SFX	Doors		•	•											NSYDSFX2012R
Right door 316L 2000x1200 mm SMX	Doors			•											NSYDSFX2012RH
Door 2000x800 mm SMX SFX	Doors		•	•											NSYDSFX208
Left door 2000x1600 mm SMX SFX	Doors		•	•											NSYDSFX2016L
Left door 316L 2000x1600 mm SMX	Doors			•											NSYDSFX2016LH
Right door 2000x1600 mm SMX SFX	Doors		•	•											NSYDSFX2016R
Right door 316L 2000x1600 mm SMX	Doors			•											NSYDSFX2016RH
Door without locking for NSYPLM32	Doors				•										NSYDPLM32
Door without locking for NSYPLM3025	Doors				•										NSYDPLM3025
Transp. door without locking for NSYPLM32T	Doors				•										NSYDPLM32T
Glazed door without locking for NSYPLM3025T	Doors				•										NSYDPLM3025T
Plain door 300x200 S3D	Doors													•	NSYDS3D32
Plain door 300x300 S3D	Doors													•	NSYDS3D33
Plain door 400x300 S3D	Doors													•	NSYDS3D43
Plain door 400x400 S3D	Doors													•	NSYDS3D44
Plain door 500x400 S3D	Doors													•	NSYDS3D54
Plain door 600x400 S3D	Doors													•	NSYDS3D64
Plain door 600x600 S3D	Doors													•	NSYDS3D66
Plain door 700x500 S3D	Doors													•	NSYDS3D75
Plain door 800x600 S3D	Doors													•	NSYDS3D86
Plain door 1000x800 S3D	Doors													•	NSYDS3D108
Plain door H400xW300 S3HF	Doors												•		NSYDS3HF43
Plain door H400xW600 S3HF	Doors												•		NSYDS3HF46
Plain door H500xW400 S3HF	Doors												•		NSYDS3HF54
Plain door H600xW400 S3HF	Doors												•		NSYDS3HF64
Plain door H600xW600 S3HF	Doors												•		NSYDS3HF66
Plain door H700xW500 S3HF	Doors												•		NSYDS3HF75
Plain door H800xW600 S3HF	Doors												•		NSYDS3HF86
Plain door H1000xW800 S3HF	Doors												•		NSYDS3HF108
Plain door H1200xW800 S3HF	Doors												•		NSYDS3HF128
Door 500x500 PLA	Doors					•									NSYDPLA55
Door 500x750 PLA	Doors					•									NSYDPLA57
Door 750x500 PLA	Doors					•									NSYDPLA75
Door 750x750 PLA	Doors					•									NSYDPLA77
Door 1000x500 PLA	Doors					•									NSYDPLA105
Door 1000x750 PLA	Doors					•									NSYDPLA107
Door 1250x500 PLA	Doors					•									NSYDPLA125
Door 1250x750 PLA	Doors					•									NSYDPLA127
Door 1500x500 PLA	Doors					•									NSYDPLA155
Door 1500x750 PLA	Doors					•									NSYDPLA157
Door 500x500 with handle PLA	Doors					•									NSYDPLA55H
Door 500x750 with handle PLA	Doors					•									NSYDPLA57H
Door 750x500 with handle PLA	Doors					•									NSYDPLA75H
Door 750x750 with handle PLA	Doors					•									NSYDPLA77H
Door 1000x500 with handle PLA	Doors					•									NSYDPLA105H
Door 1000x750 with handle PLA	Doors					•									NSYDPLA107H
Door 1250x500 with handle PLA	Doors					•									NSYDPLA125H
Door 1250x750 with handle PLA	Doors					•									NSYDPLA127H
Door 1500x500 with handle PLA	Doors					•									NSYDPLA155H
Door 1500x750 with handle PLA	Doors					•									NSYDPLA157H
Plain door H200xW200 CRN	Doors						•								NSYDCRN22
Plain door H200xW300 CRN	Doors						•								NSYDCRN23
Plain door H250xW200 CRN	Doors						•								NSYDCRN2520
Plain door H300xW250 CRN	Doors						•								NSYDCRN3025
Plain door H300xW300 CRN	Doors						•								NSYDCRN33
Plain door H300xW400 CRN	Doors						•								NSYDCRN34
Plain door H300xW450 CRN	Doors						•								NSYDCRN3045
Plain door H400xW300 CRN	Doors						•								NSYDCRN43
Plain door H400xW400 CRN	Doors						•								NSYDCRN44
Plain door H400xW600 CRN	Doors						•								NSYDCRN46
Plain door H500xW500 CRN	Doors						•								NSYDCRN55
Plain door H600xW600 CRN	Doors						•								NSYDCRN66
Plain door H600xW800 CRN	Doors						•								NSYDCRN68
Plain door H800xW600 CRN	Doors						•								NSYDCRN86
Transp. door 304L 1000x800 mm S3X	Doors	•													NSYDS3X108T
Transp. door 304L 400x300 mm S3X	Doors	•													NSYDS3X43T
Transp. door 304L 500x400 mm S3X	Doors	•													NSYDS3X54T
Transp. door 304L 600x400 mm S3X	Doors	•													NSYDS3X64T
Transp. door 304L 700x500 mm S3X	Doors	•													NSYDS3X75T
Transp. door 304L 400x304 mm S3X	Doors	•													NSYDS3X86T
Frontal door 600 mm for SDX	Doors									•					NSYSDX6
Frontal door 800 mm for SDX	Doors									•					NSYSDX8
Frontal right door 1000 mm for SDX	Doors									•					NSYSDX10R
Frontal right door 1200 mm for SDX	Doors									•					NSYSDX12R
Frontal left door 1000 mm for SDX	Doors									•					NSYSDX10L

Spare parts

Selection table

Description	Type	Stainless steel			Insulating materials		Applicative offer						Reference			
		Wall-mounting	Floor-standing		Wall-mounting	Floor-standing	HMI				EMC	ATEX				
			S3X	SFX			SMX	PLM	PLA	S3CM				SD	SDX	SMXPC
Frontal left door 1200 mm for SDX	Doors															NSYSDSX12L
Desk lid 1000 mm for SDX	Doors															NSYDLSDX10
Desk lid 1200 mm for SDX	Doors															NSYDLSDX12
Desk lid 600 mm for SDX	Doors															NSYDLSDX6
Desk lid 800 mm for SDX	Doors															NSYDLSDX8
Door without locking for NSYPLM43	Doors					•										NSYDPLM43
Door without locking for NSYPLM54	Doors					•										NSYDPLM54
Door without locking for NSYPLM64	Doors					•										NSYDPLM64
Door without locking for NSYPLM75	Doors					•										NSYDPLM75
Door without locking for NSYPLM86	Doors					•										NSYDPLM86
Door without locking for NSYPLM108	Doors					•										NSYDPLM108
Glazed door without locking for NSYPLM43T	Doors					•										NSYDPLM43T
Glazed door without locking for NSYPLM54T	Doors					•										NSYDPLM54T
Glazed door without locking for NSYPLM64T	Doors					•										NSYDPLM64T
Glazed door without locking for NSYPLM75T	Doors					•										NSYDPLM75T
Glazed door without locking for NSYPLM86T	Doors					•										NSYDPLM86T
Glazed door without locking for NSYPLM108T	Doors					•										NSYDPLM108T
Desk lid W600 mm SD	Doors									•						NSYDLS6
Desk lid W800 mm SD	Doors									•						NSYDLS8
Desk lid W1000 mm SD	Doors									•						NSYDLS10
Desk lid W1200 mm SD	Doors									•						NSYDLS12
Desk lid for w/console W800 mm SD	Doors									•						NSYDLSDF8
Desk lid for w/console W1000 mm SD	Doors									•						NSYDLSDF10
Desk lid for w/console W1200 mm SD	Doors									•						NSYDLSDF12
Desk lid for w/console W1600 mm SD	Doors									•						NSYDLSDF16
Folding console cover W800 mm SD	Doors									•						NSYCCSDF8
Folding console cover W1000 mm SD	Doors									•						NSYCCSDF10
Folding console cover W1200 mm SD	Doors									•						NSYCCSDF12
Folding console cover W1600 mm SD	Doors									•						NSYCCSDF16
Cover W400 mm for modular console	Doors									•						NSYMCCSD4
Cover W600 mm for modular console	Doors									•						NSYMCCSD6
Frontal door W600 mm SD	Doors									•						NSYSD6
Frontal door W800 mm SD	Doors									•						NSYSD8
Frontal right door W1000 mm SD	Doors									•						NSYSD10R
Frontal left door W1000 mm SD	Doors									•						NSYSD10L
Frontal right door W1200 mm SD	Doors									•						NSYSD12R
Frontal left door W1200 mm SD	Doors									•						NSYSD12L
Frontal door w/console W800 mm SD	Doors									•						NSYSDF8
Front. R door w/console W1000 mm SD	Doors									•						NSYSDF10R
Front. L door w/console W1000 mm SD	Doors									•						NSYSDF10L
Front. R door w/console W1200 mm SD	Doors									•						NSYSDF12R
Front. L door w/console W1200 mm SD	Doors									•						NSYSDF12L
Front. R door w/console W1600 mm SD	Doors									•						NSYSDF16R
Front. L door w/console W1600 mm SD	Doors									•						NSYSDF16L
Set of 500 earthing labels	Earthing accessories							•					•	•		NSYSWML
Acc. bag for 1 door PLA	Fixing hardware					•										NSYASPLA001
Acc. bag for 2 door h 500-750 PLA	Fixing hardware					•										NSYASPLA002
Acc. bag for 2 door h 1000-1250-1500 PLA	Fixing hardware					•										NSYASPLA003
Acc. bag NSYPLM32	Fixing hardware					•										NSYASPLM32
Acc. bag NSYPLM43 to 86	Fixing hardware					•										NSYASPLM
100 screws cable gland plate S3D	Fixing hardware														•	NSYS3DCGSB
Standard screw bag cable gland plate	Fixing hardware														•	NSYS3DCGPSTDSB
Standard handle in RAL 7011 OLN/CMO/S6000/S18500	Locking accessories									•						NSYSDH
Flat escutcheon DB 5 mm insert for OLN/CMO/S6000/S18500/Spacial SD	Locking accessories									•						NSYEMPOLN
Lock w/DB 3 mm for frontal doors SD	Locking accessories									•						NSYFDLSD
Lock w/DB 3 mm desk lids & covers SD	Locking accessories									•						NSYDLLSDF
Flat escutcheon with DB 5 mm SD	Locking accessories									•						NSYSDFLCKDB5
Set of 10 linkage guides S3D	Locking accessories													•		NSYS3DLG
Standard Locking system S3HF	Locking accessories												•			NSYAEELS3HFB3
Standard key DB3 S3D	Locking accessories														•	NSYAEELS3DKDB3
3 point lock linkage H 600 mm S3D	Locking accessories														•	NSYBTAS3D60
3 point lock linkage H 700 mm S3D	Locking accessories														•	NSYBTAS3D70
3 point lock linkage H 800 mm S3D	Locking accessories														•	NSYBTAS3D80
3 point lock linkage H 1000 mm S3D	Locking accessories														•	NSYBTAS3D100
Locking system for SDX	Locking accessories												•			NSYLSSDX
Locking system 1000 mm for S3X	Locking accessories	•														NSYLSS3X10
Locking system 1200 mm for S3X	Locking accessories	•														NSYLSS3X12
Locking and rods h 500 for PLA	Locking accessories														•	NSYVPLA5
Locking and rods h 750 for PLA	Locking accessories														•	NSYVPLA7

Spare parts

Selection table

Description	Type	Stainless steel			Insulating materials		Applicative offer						Reference		
		Wall-mounting	Floor-standing		Wall-mounting	Floor-standing	HMI				EMC	ATEX			
			S3X	SFX			SMX	PLM	PLA	S3CM				SD	SDX
Locking and rods h 1000 for PLA	Locking accessories					•									NSYVPLA10
Locking and rods h 1250 for PLA	Locking accessories					•									NSYVPLA12
Locking and rods h 1500 for PLA	Locking accessories					•									NSYVPLA15
Handle locking and rods h 500 for PLA	Locking accessories					•									NSYVPLA5M
Handle locking and rods h 750 for PLA	Locking accessories					•									NSYVPLA7M
Handle locking and rods h 1000 for PLA	Locking accessories					•									NSYVPLA10M
Handle locking and rods h 1250 for PLA	Locking accessories					•									NSYVPLA12M
Handle locking and rods h 1500 for PLA	Locking accessories					•									NSYVPLA15M
Locking and rods for NSYPLM108	Locking accessories				•										NSYVPLM108
Locking system 1400 mm for SFX	Locking accessories		•												NSYLSSF14
Locking system 1600 mm for SFX	Locking accessories		•												NSYLSSF16
Locking system 1800 mm for SFX	Locking accessories		•												NSYLSSF18
Locking system 2000 mm for SFX	Locking accessories		•												NSYLSSF20
50 caps for holes of hinges WM	Panels												•		NSYSWMCH
Aluminium plate H300xW300 S3CM	Panels						•								NSYDAS3CM33
Aluminium plate H300xW400 S3CM	Panels						•								NSYDAS3CM34
Aluminium plate H400xW400 S3CM	Panels						•								NSYDAS3CM44
Aluminium plate H400xW600 S3CM	Panels						•								NSYDAS3CM46
Aluminium plate H500xW500 S3CM	Panels						•								NSYDAS3CM55
Aluminium plate H600xW600 S3CM	Panels						•								NSYDAS3CM66
Aluminium plate H600xW800 S3CM	Panels						•								NSYDAS3CM68
Aluminium plate H800xW600 S3CM	Panels						•								NSYDAS3CM86
Set of 50 back plugs WM	Panels												•		NSYSWMBP
Rear panel 1000 mm for SDX	Panels								•						NSYBPSDX10
Rear panel 1200 mm for SDX	Panels								•						NSYBPSDX12
Rear panel 600 mm for SDX	Panels								•						NSYBPSDX6
Rear panel 800 mm for SDX	Panels								•						NSYBPSDX8
Rear panel W600 mm SD	Panels							•							NSYBPSD6
Rear panel W800 mm SD	Panels							•							NSYBPSD8
Rear panel W1000 mm SD	Panels							•							NSYBPSD10
Rear panel W1200 mm SD	Panels							•							NSYBPSD12

Index of references

Index of references

Contents

Reference	Page(s)	Reference	Page(s)	Reference	Page(s)	Reference	Page(s)
04...		AB1NEN1635U	471	AF1EA5	340, 391	AK5PC32L	428
4012	414	AB1NEN435U	471	AF1EA6	340, 391	AK5PC32LPH	428
4013	414	AB1RRN1035U2GR	468	AF1GC4	379, 380	AK5PC33	428
4014	414	AB1RRN1035U3GR	468	AF1GC5	379, 380	AK5PC331	428
4045	413	AB1RRN1635U2GR	468	AF1GC6	379, 380	AK5PC33L	428
4046	413	AB1RRN1635U3GR	468	AF1VA410	391	AK5PC34	428
4047	413	AB1RRN235U2BL	54, 255	AF1VA416	391	AK5PC34L	428
4052	412	AB1RRN235U2GR	54, 246, 255, 468	AF1VA512	391	AKEGA39	460
4053	412	AB1RRN235U3GR	468	AF1VA518	391	AM...	
4054	412	AB1RRN235U4GR	468	AF1VA612	358, 359, 391	AM1DL201	380, 428
4055	412	AB1RRN3535U2GR	468	AF1VA618	358, 359, 391	AM1EA200	380
4192	411	AB1RRN435U2GR	246, 255, 468	AF1VC820	358, 359, 391	AM1PA0670	341
4197	411	AB1RRN435U3GR	468	AK...		AM1PA1270	341
4502	603, 604	AB1RRN435U4GR	468	AK2CA3	460	AM1PA3015	341
4503	603, 604	AB1RRN635U2GR	468	AK2CA6	460	AM1PA3020	341
4504	603, 604	AB1RRN635U3GR	468	AK2CD100	460	AM1PA3050	341
4505	603, 604	AB1RRNET235T6	469	AK2CD125	460	AM1PA3070	341
4506	603, 604	AB1RRNET235U4	469	AK2CD25	460	AM1PA4030	341
4516	605, 607	AB1RRNET235U6	469	AK2CD37	460	AM1PA6040	341
4518	605, 607	AB1RRNET435U4	469	AK2CD50	460	AM1PA6050	341
4525	606, 608	AB1RRNETP235T6	469	AK2CD75	460	AM1PA6060	341
4526	606, 608	AB1RRNETP235U4	469	AK2GA315	460	AM1PA6070	341
4528	606, 608	AB1RRNETP235U6	469	AK2GA33	460	AM1PA7050	341
4634	603	AB1RRNETP435U4	469	AK2GA35	460	AM1PA8060	341
4635	603, 604, 607, 608	AB1RRNETV235T6	469	AK2GA615	460	AM1PA9050	341
4636	603, 604, 606, 607, 608	AB1RRNETV235U4	469	AK2GA65	460	AM1PA9060	341
4637	606	AB1RRNETV235U6	469	AK2GA69	460	AM1PA9070	341
4642	603, 604, 606, 607, 608	AB1RRNETV435U4	469	AK2GD10075	460	AX...	
4637	606	AB1RRNP235UNO	468	AK2GD12575	460	AX2DL01	365
4642	603, 604, 606, 607, 608	AB1RRNSC235U2	469	AK2GD2525	460	AX2DL02	365
4652	604	AB1RRNSC235U3	469	AK2GD2550	460	AZ...	
4653	607, 608	AB1RRNSC235U4	469	AK2GD3750	460	AZ5CE005D	468
4662	600, 602, 605, 606, 607, 608	AB1RRNSCE235U4	469	AK2GD3775	460	AZ5CE007D	468
4766	604	AB1RRNSCE235U5	469	AK2GD5050	460	AZ5CE010D	468
4767	604	AB1RRNSF435UGR	469	AK2GD5075	460	AZ5CE015D	468
4772	604	AB1RRNTP1035U2	468	AK2GD7550	460	AZ5CE025D	468
4773	604	AB1RRNTP1035U3	468	AK2GD7575	460	AZ5DE007D	469
4774	604	AB1RRNTP1635U2	468	AK2LA39	340, 341, 361	AZ5DE010D	469
4775	604	AB1RRNTP1635U3	468	AK2LA39	463	AZ5DE015D	469
4794	604	AB1RRNTP235U2	54, 246, 255, 468	AK2LD01	463	AZ5DE025D	469
4775	604	AB1RRNTP235U3	468	AK2LD02	463	DB...	
4794	604	AB1RRNTP235U4	468	AK5GF1	428	DB6CD102	470
08...		AB1RRNTP3535U2	468	AK5JB1410	428	DB6CD105	470
8881	448	AB1RRNTP3535U2	255, 468	AK5JB143	428	DB6CD110	470
8892	448	AB1RRNTP435U2	468	AK5JB144	428	DB6DD102	470
8895	448	AB1RRNTP435U3	468	AK5JB145	428	DB6DD103	470
8897	448	AB1RRNTP435U4	468	AK5JB146	428	DB6ED01	470
8897	448	AB1RRNTP635U2	468	AK5JB149	428	DB6FD01	470
8898	448	AB1RRNTP635U3	468	AK5PA211N1	429	DX...	
8899	448	AB1SC435U	471	AK5PA211N2	429	DX1AP52	365
13...		AB1SF435U	471	AK5PA211N3	429	DZ...	
13934	246, 247	AB1TP1035U	470	AK5PA211PH12	429	DZ5CE005D	468
13934AB	236	AB1TP1635U	470	AK5PA211PH13	429	DZ5CE007D	468
AB...		AB1TP215	470	AK5PA211PH23	429	DZ5CE010D	468
AB1AA235U2GR	246	AB1TP235U	54, 246, 255, 470	AK5PA212N1	429	DZ5CE015D	468
AB1AATP235U2	246	AB1TP435U	255, 470	AK5PA212N2	429	DZ5CE025D	468
AB1BB18535	471	AB1TP635U	470	AK5PA212N3	429	DZ5CEB005D	468
AB1BB24035	471	AB1VV215	471	AK5PA212PH12	429	DZ5CEB007D	468
AB1BB9535	471	AB1VV235U	54, 246, 255, 470	AK5PA212PH13	429	DZ5CEB010D	468
AB1BC15035	471	AB1VV235UBL	54, 255	AK5PA212PH23	429	DZ5CEB015D	468
AB1BC24036	471	AB1VV415	471	AK5PA231	429	DZ5CEB025D	468
AB1BC9535	471	AB1VV435U	246, 255, 470	AK5PA2311	429	DZ5ME5	381, 392
AB1D11435U	471	AB1VV435UBL	255	AK5PA2312	429	DZ5ME8	381, 392
AB1ET3235U	471	AB1VV635U	470	AK5PA2312S	429	DZ5ME9	381, 392
AB1ET435U	471	AB1VVN1035U	470	AK5PA232S	429	DZ5MF6	346
AB1ET435U2	471	AB1VVN15035U	470	AK5PA241	429	DZ5MF8	346
AB1ET435UTP	470	AB1VVN1635U	470	AK5PA242	429	DZ5MS10	364
AB1ETN235U	471	AB1VVN3535U	470	AK5PA5312	429	DZ6MZ121	346
AB1ETN335U	471	AB1VVN7035U	470	AK5PA532	429	DZ6MZ151	346
AB1ETN435U	471	AF...		AK5PA542	429	DZ6MZ181	346
AB1ETNTP435U	470	AF1CF34	382, 392	AK5PC12	428	DZ6MZ211	346
AB1FU10135U	471	AF1CF56	382, 392	AK5PC12PH	428	IMT...	
AB1FU10335U	471	AF1CG4	392	AK5PC13	428	IMT34000	246, 255
AB1FU10435U	471	AF1CG5	392	AK5PC131	428	IMT34001	246, 255
AB1FUSE435U5X	471	AF1CG6	392	AK5PC14	428	IMT34002	246, 255
AB1FUSE435U6X	471	AF1EA3	340, 391				
AB1NEN1035U	471	AF1EA4	340, 391				

Reference	Page(s)	Reference	Page(s)	Reference	Page(s)	Reference	Page(s)
IMT34003	246, 255	LV...		NSY2SPHF206	584	NSYAEDLPADS3D	91
IMT34004	246, 255	LV429372	426	NSY2SPHF208	584	NSYAEDLPSS3D	92
IMT34005	246, 255	LV429373	426	NSY2SPHF226	584	NSYAEDLS6S3D	90
IMT34006	246, 255	LV432623	426	NSY2SPHF228	584	NSYAEDLS7S3D	90
IMT34007	246, 255	LV432624	426	NSY2SPI126	136	NSYAEDLS8S3D	90
IMT34008	246, 255	NSY1...		NSY2SPI185	136	NSYAEDLSDS3D	90
IMT34009	255	NSY11950	773	NSY2SPI186	136	NSYAEDLT6S3D	90
IMT36150	249, 450	NSY11951	773	NSY2SPI188	136	NSYAEDLT8S3D	90
IMT36151	249, 450	NSY11952	773	NSY2SPI204	136	NSYAEDRS3DPA6	486
IMT36152	249, 450	NSY11953	776	NSY2SPI205	136	NSYAEDRSCST	486
IMT36153	249, 450	NSY11954	774	NSY2SPI206	136	NSYAEDS20TB	252
IMT36154	249, 450	NSY11955	774	NSY2SPI208	136	NSYAEDS40TB	252
IMT36155	249, 450	NSY11956	774	NSY2SPI226	136	NSYAEDS60TB	252
IMT36156	249, 450	NSY11957	774	NSY2SPI228	136	NSYAEDSB320TB	252
IMT36157	249, 450	NSY11958	774	NSY2SPQ126	136	NSYAEDSB520TB	252
IMT36158	249, 450	NSY11959	775	NSY2SPQ128	136	NSYAEDST620TB	252
IMT36159	249, 450	NSY11960	775	NSY2SPQ146	136	NSYAEDST820TB	252
IMT36160	249, 450	NSY11961	775	NSY2SPQ148	136	NSYAEDXS24	49
IMT36161	249, 450	NSY11962	775	NSY2SPQ166	136	NSYAFAHLBSC	80
IMT36162	249, 450	NSY17990	692	NSY2SPQ168	136	NSYAFFP315S3D	71, 84
IMT36163	249, 450	NSY17991	692	NSY2SPQ186	136	NSYAFFP32S3D	71, 84
IMT36164	249, 450	NSY17992	692	NSY2SPQ188	136	NSYAFFP42S3D	71, 84
IMT36165	450	NSY17996	692	NSY2SPQ206	136	NSYAFFPF40SC	81
IMT36166	249, 450	NSY17997	692	NSY2SPQ208	136	NSYAFFPFS3DW100	71
IMT36167	249, 450	NSY17998	692	NSY2SPQ226	136	NSYAFFPFS3DW120	71
IMT36168	249, 450	NSY1TH	376, 547	NSY2SPQ228	136	NSYAFFPFS3DW20	71
IMT36169	249, 450	NSY2...		NSY2SPQ28	136	NSYAFFPFS3DW30	71
IMT36170	249, 450	NSY2SP124	26, 28, 125, 128, 135	NSY2SPX184	225	NSYAFFPFS3DW40	71
IMT36171	249, 450	NSY2SP125	28, 128, 135	NSY2SPX204	225	NSYAFFPFS3DW40	71
IMT36172	248, 449	NSY2SP126	26, 28, 125, 128, 135	NSY2SPX205	225	NSYAFFPFS3DW50	71
IMT36173	248, 449	NSY2SP128	28, 128, 135	NSY2SPX206	225	NSYAFFPFS3DW60	71
IMT36179	246, 248, 449	NSY2SP144	26, 28, 125, 128, 135	NSY5...		NSYAFFPFS3DW80	71
IMT36180	246, 248, 449	NSY2SP145	28, 128, 135	NSYAFFPFSC	624	NSYAFFPFSC	54, 80, 566, 634
IMT36181	246, 248, 449	NSY2SP146	28, 128, 135	NSY5G2SP205	624	NSYAFFPFXSC	54, 80, 566
IMT36182	246, 248, 449	NSY2SP148	28, 128, 135	NSY5G2SP206	624	NSYAFFS24	49
IMT36183	246, 248, 449	NSY2SP149	28, 128, 135	NSY5G2SP208	624	NSYAFTB	246
IMT36184	246, 248, 449	NSY2SP165	28, 128, 135	NSYA...		NSYAELYTCRG8	89
IMT36185	248, 449	NSY2SP166	26, 28, 125, 128, 135	NSYADC16	401, 403, 404	NSYAEUBU41SC	88
ISM...		NSY2SP168	26, 28, 125, 128, 135	NSYADC18	403, 404	NSYAEUBU61SC	88
ISM71071	248, 449	NSY2SP184	26, 28, 125, 128, 135	NSYADR100	381	NSYAEUBUSC	88
ISM71072	248, 449	NSY2SP185	26, 28, 125, 128, 135, 613	NSYADR120	381	NSYAMCSF	392
ISM71073	248, 449	NSY2SP186	26, 28, 125, 128, 135, 613	NSYADR200	381	NSYAMFEP154TB	246
ISM71074	248, 449	NSY2SP188	26, 28, 125, 128, 135	NSYADR200D	381	NSYAMFEP204TB	246
ISM71501	246, 249, 450	NSY2SP204	26, 29, 125, 129, 135, 613	NSYADR60	381	NSYAMFEP304TB	246
ISM71502	246, 249, 450	NSY2SP205	26, 29, 125, 129, 135, 597, 599, 613, 622	NSYADR80	381	NSYAMFESTB	246, 254
ISM71503	246, 249, 450	NSY2SP206	26, 29, 125, 129, 135, 597, 599, 613, 621	NSYAE25	263	NSYAMFET154TB	246
ISM71504	246, 249, 450	NSY2SP208	26, 29, 125, 129, 135, 597, 599, 613, 621, 622	NSYAECFLA10	441	NSYAMFET204TB	246
ISM71505	246, 249, 450	NSY2SP224	29, 129, 135	NSYAECFLA25	441	NSYAMFET304TB	246
ISM71506	246, 249, 450	NSY2SP225	29, 129, 135	NSYAECFLA33	441	NSYAMFSTB	253
LA...		NSY2SP226	26, 29, 125, 129, 135, 613	NSYAECFLA7	441	NSYAMPA1916TB	246, 253
LA9ZA32427	425	NSY2SP228	26, 29, 125, 129, 135	NSYAECFLAP	442	NSYAMPA2419TB	246, 253
LA9ZA32428	425	NSY2SPC186	742	NSYAECFLBP	440	NSYAMPA2924TB	246, 253
LA9ZA32434	425	NSY2SPC188	742	NSYAECFLT25	171, 440	NSYAMPA3429TB	246, 253
LA9ZA32442	425	NSY2SPC206	742	NSYAECFLT35	171, 440	NSYAMP1612SB	49, 51
LA9ZA32443	425	NSY2SPC208	742	NSYAECFLT7	171, 440	NSYAMP1816SB	49
LA9ZA32600	426	NSY2SPHF184	584	NSYAECPKFL10	439	NSYAMP1916TB	246, 253
LA9ZA32621	425	NSY2SPHF186	584	NSYAECPKFL11	439	NSYAMP2020SB	51
LA9ZA32622	425	NSY2SPHF204	584	NSYAECPKFL7A	439	NSYAMP2321SB	49
LA9ZA32623	425			NSYAEDH120S3D	93	NSYAMP2419TB	246, 253
LA9ZA32624	425			NSYAEDH180S3D	93	NSYAMP2525SB	51
LA9ZA32625	425			NSYAEDH20TB	246, 251	NSYAMP2924TB	246, 253
LA9ZA32626	425			NSYAEDH40TB	246, 251	NSYAMP3030SB	51
LA9ZA32627	426			NSYAEDKT8	252	NSYAMP3429TB	246, 253
LA9ZX01131	424			NSYAEDL1242S3D	90	NSYAMP4040SB	51
LA9ZX01243	424			NSYAEDL2331S3D	90	NSYAMRD11155TB	254
LA9ZX01244	424			NSYAEDL2433S3D	90	NSYAMRD11357TB	254
LA9ZX01245	424			NSYAEDL3113S3D	90	NSYAMRD16155TB	254
LA9ZX01285	424			NSYAEDL3524S3D	90	NSYAMRD16357TB	254
LA9ZX01287	424			NSYAEDL405S3D	90, 634	NSYAMRD19155TB	254
LA9ZX01413	424			NSYAEDL421S3D	90	NSYAMRD19357TB	254
LA9ZX01485	424			NSYAEDL455S3D	90	NSYAMRD2030	25
LA9ZX01495	424			NSYAEDLB3S3D	90	NSYAMRD24155TB	254
LA9ZX01563	424			NSYAEDLB5S3D	90	NSYAMRD243515TB	254
LA9ZX01573	424			NSYAEDLDINS3D	91	NSYAMRD24357TB	254
				NSYAEDLED13S3D	91	NSYAMRD2530	25
				NSYAEDLED14S3D	91	NSYAMRD2540	25
				NSYAEDLED9S3D	91	NSYAMRD2550	25

Reference	Page(s)	Reference	Page(s)	Reference	Page(s)	Reference	Page(s)
NSYAMRD29155TB	254	NSYAW65	489	NSYBP2212	29, 129	NSYCAF92	690
NSYAMRD293515TB	254	NSYAW66	489	NSYBP224	29, 129	NSYCAF92M	690
NSYAMRD29357TB	254	NSYAW84	489	NSYBP226	29, 129	NSYCAG104X95LM	698
NSYAMRD3030	25	NSYAW85	489	NSYBP228	29, 129	NSYCAG108LP	694
NSYAMRD3040	25	NSYAW86	489	NSYBPA7032	497	NSYCAG110X46M	698
NSYAMRD3050	25	NSYAZ3PLA	306	NSYBPA7035	497	NSYCAG114LPF	695
NSYAMRD34155TB	254	NSYAZ4PLA	306	NSYBPC3	463	NSYCAG125LPC	683, 690
NSYAMRD343515TB	254	NSYB...		NSYBPC5	463	NSYCAG125LPF	683, 690, 691, 692
NSYAMRD34357TB	254	NSYB204	391	NSYBPCH1016	421	NSYCAG12LPH-	699
NSYAMRD36	25	NSYB404	391	NSYBPCH1050	421	NSYCAG12LPH1	256, 699
NSYAMRD43	25	NSYB406	391	NSYBPCH5120	421	NSYCAG12LPH2	256, 699
NSYAMRD48	25	NSYBANPLA53	320	NSYBPCH516	421	NSYCAG130X110LM	698
NSYAMRD54	25	NSYBANPLA54	320	NSYBPCH550	421	NSYCAG170X190LM	698
NSYAMRD64	25	NSYBANPLA73	320	NSYBPI126	137	NSYCAG180X62M	698
NSYAPLD812	332	NSYBANPLA74	320	NSYBPI166	137	NSYCAG19LP	699
NSYAPLD85	332	NSYBAS500	605	NSYBPI168	137	NSYCAG216X62M	698
NSYAPLD86	332	NSYBBH29	421	NSYBPI1810	137	NSYCAG223LPC	683, 690
NSYAPLD88	332	NSYBBH29C	421	NSYBPI186	137	NSYCAG223LPF	683, 690, 691, 692
NSYAPMC1813SB	49	NSYBBH29D	421	NSYBPI188	137	NSYCAG291LPC	683, 690
NSYAPMC2321SB	49	NSYBBH29DP	421	NSYBPI2010	137	NSYCAG291LPF	683, 690, 691, 692
NSYAPU10F3	474	NSYBBH29DPC	421	NSYBPI2012	137	NSYCAG317X120M	698
NSYAPU10F3S	474	NSYBBH29P	421	NSYBPI204	137	NSYCAG317X91M	698
NSYAPU10S3	474	NSYBBH30	421	NSYBPI206	137	NSYCAG33LP	699
NSYAPU10S3S	474	NSYBBH30D	421	NSYBPI208	137	NSYCAG35LP	699
NSYAPU19F6CB	474	NSYBBH31	421	NSYBPI2210	137	NSYCAG38LP	699
NSYAPU19F6F	474	NSYBBH31D	421	NSYBPI226	137	NSYCAG417X120M	698
NSYAPU19F6FT	474	NSYBBH32	421	NSYBPI228	137	NSYCAG45LP	699
NSYAPU19F7FA	474	NSYBBH32D	421	NSYBPLDN	332	NSYCAG78LPF	695
NSYAPU19F8S	474	NSYBCE10	157	NSYBRF12PLA	37, 300	NSYCAG92LPC	683, 690
NSYAPU19F9	474	NSYBCE12	157	NSYBRF17PLA	37, 300	NSYCAG92LPF	683, 690
NSYAPU19S6CB	474	NSYBCE16	157	NSYBRF21PLA	37, 300	NSYCAP125LE	683, 692, 693
NSYAPU19S6F	474	NSYBCE3	157	NSYBRF26PLA	37, 300	NSYCAP125LXF	683, 691, 693
NSYAPU19S6FT	474	NSYBCE4	157	NSYBRF8PLA	37, 300	NSYCAP125LZF	683, 691, 693
NSYAPU19S7FA	474	NSYBCE6	157, 662	NSYBRP11PLA	37, 300	NSYCAP223LE	683, 692, 693
NSYAPU19S8S	474	NSYBCE8	157, 662	NSYBRP16PLA	37, 300	NSYCAP223LXF	683, 691, 693
NSYAPU19S9	474	NSYBCME	227	NSYBRP20PLA	37, 300	NSYCAP223LZF	683, 691, 693
NSYAPUB	474	NSYBCPL	32, 574	NSYBRP25PLA	37, 300	NSYCAP291LE	683, 692, 693
NSYAPUBV	474	NSYBCPLA	313	NSYBRP7PLA	37, 300	NSYCAP291LXF	683, 691, 693
NSYAPUF10S	474	NSYBDS112	422	NSYBS400	410	NSYCAP291LZF	683, 691, 693
NSYAPUF12CB	474	NSYBDS26	422	NSYBS500	410	NSYCBMPLA	314
NSYAPUF7S	474	NSYBDS34	422	NSYBS600	410	NSYCCAST	765
NSYAPUS10S	474	NSYBDS43	422	NSYBS800	410	NSYCCOHY230VID	765, 772
NSYAPUS12CB	474	NSYBE27	263, 265	NSYBSA	419	NSYCCOHYT120VID	771
NSYAPUS7S	474	NSYBHS500	600, 602	NSYBSC630	410	NSYCCOHYT230VID	771
NSYAS25	263	NSYBHS600	600, 602	NSYBTE630TBT	421	NSYCCOHT30VID	771
NSYAS400	417	NSYBHS800	600, 602	NSYBU108PLM	33, 277	NSYCCOTH120VID	770
NSYAS500	605, 606	NSYBHS800L	602	NSYBUPLM	33, 277	NSYCCOTH230VID	770
NSYAS600	605, 606	NSYBL27	263	NSYBVS	416	NSYCCOTH30VID	770
NSYAS800	605, 606	NSYBLKH123	182	NSYBVS400	415	NSYCCOTH30VID	770
NSYAS800L	605, 606	NSYBN204	391	NSYBVS500	605, 606	NSYCCOTH30VID	770
NSYAT32	384	NSYBN206	391	NSYBVS600	605, 606	NSYCCOTH30VID	770
NSYATM27	264	NSYBN404	391	NSYBVS800	605, 606	NSYCCOTH30VID	770
NSYATP24DTM	399	NSYBN406	391	NSYBVS800L	605, 606	NSYCCOTH30VID	770
NSYATP6DTM	399	NSYBN408	391	NSYC...		NSYCCOTH30VID	770
NSYATP72G	399	NSYBN606	391	NSYCAAPV	690	NSYCCOTH30VID	770
NSYATP72M	399	NSYBN608	391	NSYCAC228RMF	697	NSYCCOTH30VID	770
NSYATP72MS	206, 219, 224	NSYBN610	391	NSYCAG104X95X	698	NSYCCOTH30VID	770
NSYATPUND	399	NSYBP126	28, 128	NSYCAF108	694	NSYCCOTH30VID	770
NSYAUPG1	286	NSYBP128	28, 128	NSYCAF125	690	NSYCCOTH30VID	770
NSYAUPG5	286	NSYBP146	28, 128	NSYCAF125L55	691, 692	NSYCCOTH30VID	770
NSYAUPGS	286	NSYBP148	28, 128	NSYCAF125M	690	NSYCCOTH30VID	770
NSYAVD1U1450	696	NSYBP166	28, 128	NSYCAF125O	690	NSYCCOTH30VID	770
NSYAVD1U480	696	NSYBP168	28, 128	NSYCAF125T	690	NSYCCOTH30VID	770
NSYAVD1U550M48	696	NSYBP1810	28, 128	NSYCAF130X110X	698	NSYCCOTH30VID	770
NSYAVD1U970	696	NSYBP1812	28, 128	NSYCAF170X190X	698	NSYCCOTH30VID	770
NSYAVG2U300	696	NSYBP184	28, 128	NSYCAF223	690	NSYCCOTH30VID	770
NSYAW24	489	NSYBP186	28, 128	NSYCAF223L55	691, 692	NSYCCOTH30VID	770
NSYAW25	489	NSYBP188	28, 128	NSYCAF223M	690	NSYCCOTH30VID	770
NSYAW26	489	NSYBP2010	29, 129	NSYCAF223O	690	NSYCCOTH30VID	770
NSYAW44	489	NSYBP2012	29, 129	NSYCAF223T	690	NSYCCOTH30VID	770
NSYAW45	489	NSYBP2016	29, 129	NSYCAF228R	697	NSYCCOTH30VID	770
NSYAW46	489	NSYBP203	29, 129	NSYCAF291	690	NSYCCOTH30VID	770
NSYAW54	489	NSYBP204	29, 129	NSYCAF291L55	691, 692	NSYCCOTH30VID	770
NSYAW55	489	NSYBP206	29, 129	NSYCAF291M	690	NSYCCOTH30VID	770
NSYAW56	489	NSYBP208	29, 129	NSYCAF291O	690	NSYCCOTH30VID	770
NSYAW64	489	NSYBP2210	29, 129	NSYCAF291T	690	NSYCCOTH30VID	770

Reference	Page(s)	Reference	Page(s)	Reference	Page(s)	Reference	Page(s)
NSYCECS66	641	NSYCMUMR50	508, 515	NSYCS600PLM	33, 277, 285	NSYUCUCFX	721, 745, 746
NSYCECS68	641	NSYCMUMR80	508, 515	NSYCS800PLM	33, 277, 285	NSYUCUCH	721, 745, 746
NSYCECS810	641	NSYCMUTC50	508, 517	NSYCSH126	401	NSYUCUCHX	721, 745, 746
NSYCECS86	641	NSYCMUTC80	508, 517	NSYCSH128	401	NSYUCUCL	721, 745, 746
NSYCECS88	641	NSYCN20	385	NSYCSH146	401	NSYUCUCLX	721, 745, 746
NSYCEFILS	645	NSYCN40	385	NSYCSH148	401	NSYUCUE1100W230L	720, 737
NSYCEJ	160	NSYCN60	385	NSYCSH166	401	NSYUCUE1400W230L	720, 736, 737
NSYCEJD	447	NSYCN9M625	378	NSYCSH168	401	NSYUCUE1400W230R	721, 738, 739
NSYCEJD11	447	NSYCNFM6	392	NSYCSH186	401	NSYUCUE1400W400L	720, 737
NSYCEJD13	447	NSYCNFM8	392	NSYCSH188	401	NSYUCUE1800W400L	720, 737
NSYCEJD16	447	NSYCNM6	358, 392	NSYCSH206	401	NSYUCUE1800W400R	721, 739
NSYCEJD18	447	NSYCNM8	358	NSYCSH208	401	NSYUCUT30	384
NSYCEJD20	447	NSYCNOH123	182	NSYCSHB1410	403	NSYCV114M	695
NSYCEJD22	447	NSYCNT20	385	NSYCSHB1412	403	NSYCV78M	695
NSYCEJD24	447	NSYCNT40	385	NSYCSHB1610	403	NSYCVAC100	695
NSYCEJD26	447	NSYCNT60	385	NSYCSHB1612	403	NSYCVF156M115	695
NSYCEJD28	447	NSYCOCN80	71, 84	NSYCSHB1810	403	NSYCVF156M230	695
NSYCEJD3	447	NSYCPT17	458	NSYCSHB1812	403	NSYCVF165M115PF	683
NSYCEJD30	447	NSYCPT29	458	NSYCSHB2010	403	NSYCVF165M230PF	683, 691, 692
NSYCEJD5	447	NSYCPT37	458	NSYCSHB2012	403	NSYCVF165M24DPF	683
NSYCEJD7	447	NSYCPT50	458	NSYCSH135	135	NSYCVF165M48DPF	683
NSYCEJD9	447	NSYCPTS17	458	NSYCTL300DLA	288	NSYCVF170M115	696
NSYCEK	161	NSYCPTS29	458	NSYCTL300DLM	396, 397	NSYCVF170M230	696
NSYCEP	493	NSYCPTS37	458	NSYCTL400DLA	288	NSYCVF300M115PF	683
NSYCEPLMA	33, 277	NSYCPTS50	458	NSYCTL400DLM	396, 397	NSYCVF300M230PF	683, 691, 692
NSYCEPLMB	33, 277	NSYCR100WU1	756	NSYCTL500DLA	288	NSYCVF300M24DPF	683
NSYCEPLMC	33, 277	NSYCR100WU1C	758	NSYCTL500DLM	396, 397	NSYCVF300M48DPF	683
NSYCEW2100W230VL	711, 712	NSYCR100WU2	756	NSYCTL500DLP	324	NSYCVF35M115	695
NSYCEW2100W230VR	711, 712	NSYCR100WU2C	758	NSYCTL600DLA	288	NSYCVF35M230	695
NSYCEW3150W230VL	711, 712	NSYCR100WU3	756	NSYCTL600DLM	396, 397	NSYCVF38M115PF	683
NSYCFIX	193	NSYCR100WU3C	758	NSYCTL750DLP	324	NSYCVF38M230PF	683
NSYCFIX6	193	NSYCR10WU1	756	NSYCTL800DLA	288	NSYCVF38M24DPF	683
NSYCFIX8	193	NSYCR10WU1C	757	NSYCTL800DLM	396, 397	NSYCVF38M48DPF	683
NSYCFP100	452	NSYCR10WU2	756	NSYCU1050W230VL	720, 724, 725	NSYCVF54M230MM2	694
NSYCFP60	452	NSYCR10WU2C	757	NSYCU1050W230VR	721, 728, 729	NSYCVF560M115PF	683, 689
NSYCFP80	452	NSYCR150WU1	756	NSYCU1400W230VL	740	NSYCVF560M230PF	683, 691, 692
NSYCF8126	452	NSYCR150WU1C	758	NSYCU1460W230VR	721, 728, 729	NSYCVF570M115MF	694
NSYCF8128	452	NSYCR150WU2	756	NSYCU1650W230VL	720, 724, 725	NSYCVF575M230MF	694
NSYCF896	452	NSYCR150WU2C	758	NSYCU1650W230VR	721, 730, 731	NSYCVF65M115PF	694
NSYCF898	452	NSYCR150WU3	756	NSYCU1800W400VL	720, 725, 726	NSYCVF65M230PF	694
NSYCL1242ECSX	208	NSYCR170W230VVC	756, 759	NSYCU2000W400VR	721, 730, 731	NSYCVF850M115PF	683, 689
NSYCL27L1242E	264	NSYCR20WU1	756	NSYCU240W230VL	720, 722, 723	NSYCVF850M230PF	683, 691, 692
NSYCL27L405	264	NSYCR20WU1C	757	NSYCU2450W400VR	721, 732	NSYCVF850M400PF	683
NSYCL27M	264	NSYCR20WU2	756	NSYCU2500W400VL	720, 726	NSYCVF85M115PF	683
NSYCL405CRN	47	NSYCR20WU2C	757	NSYCU3100W400VR	721, 732	NSYCVF85M230PF	683, 691, 692
NSYCL405CSX	208	NSYCR20WU3	756	NSYCU370W230VL	720, 722, 723	NSYCVF85M24DPF	683
NSYCLL405CRN	580	NSYCR250W115VV	756, 760	NSYCU4000W400VL	720, 726	NSYCVF85M48DPF	683
NSYCMACS50	519	NSYCR250W230VV	756, 760	NSYCU760W230VL	720, 722, 723	NSYD...	
NSYCMACS80	519	NSYCR350W230VTV	756, 761	NSYCU760W230VR	721, 728, 729	NSYDA...M	45
NSYCMBPC	513	NSYCR400W115VV	756, 760	NSYCUAD	734	NSYDA1510M	20, 41, 45
NSYCMBPT	513	NSYCR400W230VV	756, 760	NSYCUAE	742	NSYDA2015M	20, 41, 45
NSYCMOD6	194	NSYCR50WU1C	758	NSYCUAI	734	NSYDA2520M	20, 41, 44, 45
NSYCMOD8	194	NSYCR50WU2C	758	NSYCUALF	742	NSYDAN	45
NSYCMSPP	513	NSYCR50WU3C	758	NSYCUALN	742	NSYDAN...D	47
NSYCMT2560110	512	NSYCR55WU1	756	NSYCUALT	742	NSYDAN1510	20, 41, 45
NSYCMT5005	508	NSYCR55WU2	756	NSYCUARF	742	NSYDAN2015	20, 41, 45
NSYCMT5010	508	NSYCR55WU3	756	NSYCUART	742	NSYDAN2015D	20, 41, 47
NSYCMT5015	508	NSYCRAF	756, 761	NSYCUASD	749	NSYDAN2520	20, 41, 45
NSYCMT5020	508	NSYCRAFD	756, 761	NSYCUAY	749	NSYDAN2520D	20, 41, 47
NSYCMT8005	508	NSYCRCKP12	195	NSYCUB1100W...	747	NSYDAN3025D	46
NSYCMT8010	508	NSYCRCKP16	195	NSYCUB1100W115S	721, 745	NSYDAN3530D	20, 41, 47
NSYCMT8015	508	NSYCRCKP21	195	NSYCUB1100W230S	721, 744, 745	NSYDB...M	45
NSYCMT8020	508	NSYCRCKP25	195	NSYCUB1100W400S	721, 745	NSYDB1010M	20, 41, 45
NSYCMUCC50	508, 519	NSYCRCKP3	195	NSYCUB1500W115S	721, 745	NSYDB1510M	20, 41, 45
NSYCMUCC80	508, 519	NSYCRCKP7	195	NSYCUB1500W230S	721, 745	NSYDB2015M	20, 41, 45
NSYCMUCP50	508, 520	NSYCRN64150P	398	NSYCUB1500W230S	747	NSYDB2520M	20, 41, 45
NSYCMUCP80	508, 520	NSYCRNG101030DT	23	NSYCUB1500W115S		NSYDB3025M	20, 41, 45
NSYCMUCPAD87	520	NSYCRNGSDR	344	NSYCUB1500W400S	721, 745, 747	NSYDB3530M	20, 41, 45
NSYCMUCR50	508, 518	NSYCRP1W120VTV	756, 761	NSYCUB2200W...	747	NSYDB88M	20, 41, 45
NSYCMUCR80	508, 518	NSYCRP1W230VTV	761	NSYCUB2200W115S	721, 746	NSYDBN	45
NSYCMUIA50	508, 517	NSYCRS200W115V	756, 760	NSYCUB2200W230S	721, 746	NSYDBN...D	47
NSYCMUIA80	508, 517	NSYCRS200W230V	756, 760	NSYCUB2200W400S	721, 746	NSYDBN1010	20, 41, 45
NSYCMUMA50	508, 515	NSYCS200PLM	33, 277, 285	NSYCUB2700W...	747	NSYDBN1510	20, 41, 44, 45
NSYCMUMA80	508, 515	NSYCS300PLM	33, 277, 285	NSYCUB2700W230S	721, 746	NSYDBN2015	20, 41, 45
NSYCMUMC50	508, 516	NSYCS400PLM	33, 277, 285	NSYCUB2700W400S	721, 746	NSYDBN2015D	20, 41, 47
NSYCMUMC80	508, 516	NSYCS500PLM	33, 277, 285	NSYUCUF	721, 745, 746	NSYDBN2520	20, 41, 45

Reference	Page(s)	Reference	Page(s)	Reference	Page(s)	Reference	Page(s)
NSYDBN2520D	20, 41, 47	NSYDPA4	177,483	NSYEC461	26, 125	NSYEDPLA	318
NSYDBN3025	20, 41, 45	NSYDPA44	206, 219, 225	NSYEC462	26	NSYEL136D6	492
NSYDBN3025D	46	NSYDPA5	177,483	NSYEC48	157	NSYEL166D6	492
NSYDBN3530	20, 41, 45	NSYDPLA	317	NSYEC481	26, 125	NSYEL166D8	634
NSYDBN3530D	20, 41, 47	NSYDPLA3	317	NSYEC482	26	NSYEL1710D6	492
NSYDBN88	20, 41, 45	NSYDPLA4	317	NSYEC5	451	NSYEL2225D8	492
NSYDBP	264	NSYDPLM200	32, 33, 277, 574	NSYEC6	451	NSYEL226D6	492
NSYDCE10	161	NSYDPLM250	32, 33, 277, 574	NSYEC610	640,662	NSYEL2510D6	492
NSYDCE12	161	NSYDPLM300	32, 33, 277, 574	NSYEC6101	640,662	NSYEL3525D8	492,598
NSYDCE168	447	NSYDPLM350	32, 33, 277, 574	NSYEC6102	640,662	NSYEMA20	386
NSYDCE240	447	NSYDPR100	382	NSYEC64	26, 125	NSYEMA40	386
NSYDCE2410	447	NSYDPR120	382	NSYEC641	26, 125	NSYEMR	77
NSYDCE244	447	NSYDPR200	383	NSYEC65	26, 125	NSYEN20	389
NSYDCE6	161	NSYDPR200D	383	NSYEC651	26, 125	NSYEN40	389
NSYDCE8	161	NSYDPR25	382	NSYEC66	26, 125	NSYEN60	389
NSYDCM20	482	NSYDPR35	382	NSYEC661	26, 125	NSYETF	363
NSYDCSH1412	402	NSYDPR45	382	NSYEC662	26, 125	NSYETU118	390
NSYDCSH1612	402	NSYDPR55	382	NSYEC68	26, 125	NSYETU48	390
NSYDCSH1812	402	NSYDPR60	382	NSYEC681	26, 125	NSYETU58	390
NSYDCSH1816	402	NSYDPR65	382	NSYEC682	26, 125	NSYETU79	390
NSYDCSH2012	402	NSYDPR75	382	NSYEC7	451	NSYEVA20	386
NSYDCSH2016	402	NSYDPR80	382	NSYEC751	598	NSYEVA40	386
NSYDL10	535	NSYE...		NSYEC761	598	NSYEX1006	390
NSYDL12	535	NSYE1025	390	NSYEC781	598	NSYEX1008	390
NSYDL16	535	NSYE1525	390	NSYEC810	640,662	NSYEX106	390
NSYDL6	535	NSYE2025	390	NSYEC8101	640,662	NSYEX126	390
NSYDL8	535	NSYEB1510D6	492, 591	NSYEC8102	640,662	NSYEX146	390
NSYDLA112	33, 69, 277, 287	NSYEB1516D8	492, 591	NSYEC84	26, 125	NSYEX158	390
NSYDLA234	33, 69, 277, 287	NSYEB156D6	492, 591	NSYEC841	26, 125	NSYEX166	390
NSYDLA24	33, 69, 277, 287	NSYEB2025D8	492, 591	NSYEC85	26, 125	NSYEX186	390
NSYDLA48	33, 69, 277, 287	NSYEB2050D8	492, 591	NSYEC851	26, 125	NSYEX206	390,643
NSYDLA48P	33, 69, 277, 287	NSYEBMPLA	313	NSYEC86	26, 125	NSYEX208	390
NSYDLA66	33, 69, 277, 287	NSYEBPLA	314	NSYEC861	26, 125	NSYEX306	390
NSYDLA84	33, 69, 277, 287	NSYEC1	451	NSYEC862	26, 125	NSYEX308	390
NSYDLA88	33, 277, 287	NSYEC104	26, 125	NSYEC88	26, 125	NSYEX406	390
NSYDLCR110	398	NSYEC1041	26, 125	NSYEC881	26, 125	NSYEX408	390
NSYDLCR135	398	NSYEC105	26, 125	NSYEC882	26, 125	NSYEX506	390
NSYDLCR18	398	NSYEC1051	26, 125	NSYECA22	388	NSYEX508	390
NSYDLCR24	398	NSYEC106	26, 125	NSYECA42	388	NSYEX608	390
NSYDLCR36	398	NSYEC1061	26, 125	NSYECA44	388	NSYF...	
NSYDLCR48	398	NSYEC1062	26, 125	NSYECAV440	644	NSYFB	345
NSYDLCR64	398	NSYEC108	26, 125	NSYECB1M153	493	NSYFB45	363
NSYDLCR88	398	NSYEC1081	26, 125	NSYECPC400	644	NSYFCG100	453
NSYDLM112	25, 69, 397	NSYEC1082	26, 125	NSYECPC15	451	NSYFCG120	453
NSYDLM168	25, 69, 397	NSYEC124	26, 125	NSYECPC3	451	NSYFCG160	453
NSYDLM24	25, 69, 206, 397	NSYEC1241	26, 125	NSYECPC5	451	NSYFCG60	453
NSYDLM240	25, 69, 206, 397	NSYEC125	26, 125	NSYECPC6	451	NSYFCG80	453
NSYDLM48	25, 69, 206, 397	NSYEC1251	26, 125	NSYECPC9	451	NSYFCMX	228
NSYDLM48P	25, 69, 206, 397	NSYEC126	26, 125	NSYECPLAZ103	37, 301	NSYFECVT440	644
NSYDLM66	25, 69, 206, 397	NSYEC1261	26, 125	NSYECPLAZ104	37, 301	NSYFMPLA	309
NSYDLM84	25, 69, 206, 397	NSYEC1262	26, 125	NSYECPLAZ123	37, 301	NSYFNM6	359, 392
NSYDLM84P	25, 69, 206, 397	NSYEC128	26, 125	NSYECPLAZ124	37, 301	NSYFNM8	359, 392
NSYDLM88	25, 397	NSYEC1281	26, 125	NSYECPLAZ124	37, 301	NSYFPLS1827	260
NSYDLP114	36, 300, 323	NSYEC1282	26, 125	NSYECPLAZ53	37, 301	NSYFPLS2727	260
NSYDLP114P	36, 300, 323	NSYEC164	26, 125	NSYECPLAZ54	37, 301	NSYFPLS2736	260
NSYDLP132	36, 300, 323	NSYEC1641	26, 125	NSYECPLAZ73	37, 301	NSYFPLS2754	260
NSYDLP133	36, 300, 323	NSYEC165	26, 125	NSYECPLAZ74	37, 301	NSYFPLS3636	260
NSYDLP152	36, 300, 323	NSYEC1651	26, 125	NSYECV6101	640	NSYFPLS3654	260
NSYDLP165	36, 300, 323	NSYEC166	26, 125	NSYECV661	640	NSYFPLS3672	260
NSYDLP171	36, 300, 323	NSYEC1661	26, 125	NSYECV681	640	NSYFPLS5454	260
NSYDLP198	36, 300, 323	NSYEC1662	26, 125	NSYECV8101	640	NSYFPLS5472	260
NSYDLP198P	36, 300, 323	NSYEC2	451	NSYECV861	640	NSYFSP27270	262
NSYDLP231	36, 300, 323	NSYEC3	451	NSYECV881	640	NSYFSP27360	262
NSYDLP264	36, 300, 323	NSYEC35	26, 125	NSYECVT2440	644	NSYFSP27540	262
NSYDLP297	36, 300, 323	NSYEC351	26, 125, 598	NSYECVT2V440	644	NSYFSP27540	262
NSYDLP57	36, 300, 323	NSYEC36	26, 125	NSYECVT3440	644	NSYFPLAZ	306
NSYDLP76	36, 300, 323	NSYEC361	26, 125, 598	NSYECVT3V440	644	NSYFXT6040	375
NSYDLP95	36, 300, 323	NSYEC381	125, 598	NSYED128T	647	NSYFXT6050	375
NSYDLP99	36, 300, 323	NSYEC4	451	NSYED148T	647	NSYFXT6060	375,547
NSYDLPML18	33, 277	NSYEC44	26, 125	NSYED168T	647	NSYFXT8040	375
NSYDLS12	260	NSYEC441	26, 125	NSYED188T	647	NSYFXT8050	375
NSYDLS24	260	NSYEC440	643	NSYED208T	647	NSYFXT8060	375
NSYDLS242	260	NSYEC441	26, 125	NSYED228T	647	NSYG...	
NSYDLS36	260	NSYEC45	26, 125	NSYEDCME	100	NSYGB140	657
NSYDLS48	260	NSYEC451	26, 125	NSYEDCO	364	NSYGFR166P	378
NSYDPA3	177,483	NSYEC46	157	NSYEDCOS	494	NSYGFR95M55	378
				NSYEDCSDCR	100		

Reference	Page(s)	Reference	Page(s)	Reference	Page(s)	Reference	Page(s)
NSYGFR95M63	378	NSYK...		NSYMD64	23, 30, 69, 343, 566, 570	NSYMFSC80D	407
NSYGFR95M65	378	NSYKMN3	361	NSYMD66	23, 69, 343, 566	NSYMIC6	186
NSYHLCR40	374	NSYKMN6	206, 224	NSYMD75	23, 30, 69, 343, 566, 570	NSYMIC8	186
NSYHLCR50	374	NSYKPLM	32, 574	NSYMD86	23, 30, 69, 343, 566, 570	NSYML23	546
NSYHLCR60	374	NSYL...		NSYMDCM20	482	NSYML405SD	536
NSYHLCR80	374	NSYLADP	181	NSYMDT	190	NSYMLCD23	546
NSYI...		NSYLAM14T5	478	NSYMDVR10	23, 25, 69	NSYMLS6	546
NSYID166	112, 113	NSYLAM1U	476	NSYMDVR12	23, 69	NSYMLT6	546
NSYID168	112, 113	NSYLAM8T5	478	NSYMDVR3	23, 25, 69	NSYMM1010	23, 30, 69, 206, 338
NSYID1810	112, 113	NSYLAMC	476	NSYMDVR3M	345	NSYMM106	23, 25, 69, 338
NSYID186	112, 113	NSYLAMCB	476	NSYMDVR4	23, 25, 69	NSYMM108	23, 25, 30, 32, 338, 566, 570, 574
NSYID188	112, 113	NSYLAMCD	476	NSYMDVR5	23, 25, 69	NSYMM1210	23, 30, 69, 206, 338
NSYID2010	112, 113	NSYLAMCF	476	NSYMDVR6	23, 25, 69	NSYMM1212	23, 69, 338
NSYID206	112, 113	NSYLAMCS	206, 219, 224, 476	NSYMDVR7	23, 25, 69	NSYMM126	23, 69, 338
NSYID208	112, 113	NSYLAMCU	476	NSYMDVR8	23, 25, 69	NSYMM128	23, 30, 69, 206, 338
NSYID226	174	NSYLAMPOR	479	NSYMF1010	23, 69, 206, 339	NSYMM1410	23, 69, 338
NSYID228	174	NSYLCR40	377	NSYMF106	23, 69, 339	NSYMM22	338
NSYIN1242E1	179, 314, 537	NSYLCR50	377	NSYMF108	23, 30, 32, 33, 69, 206, 277, 339, 566, 570, 574	NSYMM23	338
NSYIN1242E2	180, 314	NSYLCR60	377	NSYMF1210	23, 69, 206, 339	NSYMM2520	338
NSYIN1332E1	179, 314, 537	NSYLSUP	377	NSYMF126	339	NSYMM2540	25, 338
NSYIN2124E1	179, 537	NSYLT27	264	NSYMF128	23, 69, 206, 339	NSYMM2550	25, 338
NSYIN2131A1	179, 314, 537	NSYM...		NSYMF32	23, 30, 54, 69, 339, 570	NSYMM3025	23, 25, 30, 32, 338, 566, 570, 574
NSYIN2132A1	179, 314, 537	NSYMA44	489	NSYMF33	23, 54, 69, 339, 566	NSYMM3045	338
NSYIN2331A1	179, 314, 537	NSYMA45	489	NSYMF43	23, 30, 32, 33, 54, 69, 206, 277, 339, 566, 570, 574	NSYMM32	23, 24, 30, 33, 54, 69, 206, 277, 338, 566, 570
NSYIN241	537	NSYMA46	489	NSYMF44	23, 69, 206, 339, 529, 553, 566	NSYMM33	23, 24, 30, 54, 69, 206, 338, 566
NSYIN2433A1	179, 314, 537	NSYMA48	489	NSYMF53	23, 54, 69, 339	NSYMM35	54
NSYIN2452E1	179, 314, 537	NSYMA55	489	NSYMF54	23, 30, 32, 33, 69, 206, 277, 339, 566, 570, 574	NSYMM36	24, 338
NSYIN3113A1	179, 314, 537	NSYMA56	489	NSYMF55	23, 69, 339	NSYMM43	23, 24, 30, 32, 33, 54, 69, 206, 277, 338, 566, 570, 574
NSYIN3122E1	179, 314, 537	NSYMA58	489	NSYMF64	23, 30, 32, 33, 69, 206, 277, 339, 529, 553, 566, 570, 574	NSYMM44	23, 30, 69, 206, 338, 529, 553, 566
NSYIN3123A1	179, 314, 537	NSYMA65	489	NSYMF65	23, 69, 339	NSYMM48	25, 338
NSYIN3133A1	179, 314, 537	NSYMA66	489	NSYMF66	23, 69, 206, 339, 566	NSYMM53	23, 25, 69, 338
NSYIN3422E1	179, 314, 537	NSYMB106	23, 69, 342	NSYMF75	23, 30, 32, 33, 69, 206, 277, 339, 566, 570, 574	NSYMM54	23, 25, 30, 32, 338, 566, 570, 574
NSYIN3432E1	179, 314, 537	NSYMB108	23, 33, 69, 277, 342	NSYMF86	23, 30, 32, 33, 69, 206, 277, 339, 566, 570, 574	NSYMM55	23, 69, 338
NSYIN405E1	179, 314, 537	NSYMB1210	23, 69, 342	NSYMF88	23, 69, 206, 339	NSYMM64	23, 25, 30, 32, 338, 566, 570, 574
NSYIN421E1	179, 314, 537	NSYMB3025	23, 33, 69, 277, 342	NSYMF16	186	NSYMM65	23, 25, 69, 338
NSYIN4551	179, 314, 537	NSYMB32	23, 33, 69, 277, 342	NSYMF18	186	NSYMM66	23, 25, 30, 69, 206, 338, 566
NSYINASSA2	180	NSYMB33	23, 69, 342	NSYMF36	186	NSYMM75	23, 25, 30, 32, 338, 566, 570, 574
NSYINBENZ1	537	NSYMB43	23, 33, 69, 277, 342	NSYMF38	186	NSYMM76	338
NSYINCW1	537	NSYMB54	23, 33, 69, 277, 342	NSYMF103	37, 301	NSYMM86	23, 25, 30, 32, 338, 566, 570, 574
NSYINDB31	537	NSYMB64	23, 33, 69, 277, 342	NSYMF104	37, 301	NSYMM88	23, 30, 69, 206, 338
NSYINDB51	537	NSYMB65	23, 69, 342	NSYMF123	37, 301	NSYMP106	193
NSYINDIN2	180, 314	NSYMB75	23, 33, 69, 277, 342	NSYMF124	37, 301	NSYMP108	193
NSYINE11	179, 537	NSYMB86	23, 33, 69, 277, 342	NSYMF126	37, 301	NSYMP1210	27, 112, 113
NSYINF1301	179, 314, 537	NSYMBC106	192	NSYMF128	37, 301	NSYMP1212	27, 112, 113
NSYINF1401	179, 314, 537	NSYMBC108	192	NSYMF129	37, 301	NSYMP126	27, 28, 125, 128
NSYINFIAT1	537	NSYMBC26	192	NSYMF130	37, 301	NSYMP128	27, 28, 112, 113, 125, 128
NSYINH31	537	NSYMBC28	192	NSYMF131	406		
NSYINICHEL8131	179, 537	NSYMBC46	192	NSYMF136	186		
NSYINICHEL8371	179, 537	NSYMBC48	192	NSYMF138	186		
NSYINICHEL8791	179, 537	NSYMBC66	192	NSYMF140	186		
NSYINKBA2	180	NSYMBC86	192	NSYMF143	186		
NSYINKFAC2	180, 314	NSYMBC88	192	NSYMF144	186		
NSYINKJIS2	180, 314	NSYMBR19	656	NSYMF145	37, 301		
NSYINKR2	180, 314	NSYMCDFIX	409	NSYMF146	37, 301		
NSYINLCRN	206	NSYMCOD264	190	NSYMF147	37, 301		
NSYINPULS1	179	NSYMCOD284	190	NSYMF148	37, 301		
NSYINPULSD	537	NSYMCOD284	190	NSYMF149	37, 301		
NSYINS61	537	NSYMCOD284	190	NSYMF150	37, 301		
NSYINS6G1	537	NSYMCOD284	190	NSYMF151	406		
NSYINS71	537	NSYMCOD284	190	NSYMF152	406		
NSYINS81	537	NSYMCOD284	190	NSYMF153	406		
NSYINS8G1	537	NSYMCOD284	190	NSYMF154	406		
NSYINS8H1	537	NSYMCOD284	190	NSYMF155	406		
NSYINT101	537	NSYMCOD284	190	NSYMF156	406		
NSYINT61	537	NSYMCOD284	190	NSYMF157	406		
NSYINT71	537	NSYMCOD284	190	NSYMF158	406		
NSYINT81	537	NSYMCOD284	190	NSYMF159	406		
NSYINT91	537	NSYMCOD284	190	NSYMF160	406		
NSYINUSA1	537	NSYMCOD284	190	NSYMF161	406		
NSYJ...		NSYMD108	23, 30, 69, 343, 566, 570	NSYMF162	406		
NSYJED8122	331	NSYMD128	23, 69, 343	NSYMF163	406		
NSYJED8500	331	NSYMD33	23, 69, 343, 566	NSYMF164	406		
NSYJED860	331	NSYMD43	23, 30, 69, 343, 566, 570	NSYMF165	406		
NSYJED881	331	NSYMD54	23, 30, 69, 343, 566, 570	NSYMF166	406		

Reference	Page(s)	Reference	Page(s)	Reference	Page(s)	Reference	Page(s)
NSYPIN75	71, 94, 206	NSYPLA5103T	34	NSYPLAT1274	35	NSYPLAZ12104	34
NSYPIN86	71, 94, 206	NSYPLA5104	34	NSYPLAT1274R	35	NSYPLAZ12104R	34
NSYPLA10103	34	NSYPLA5104R	34	NSYPLAT15103	35	NSYPLAZ12123	34
NSYPLA10103R	34	NSYPLA5104T	34	NSYPLAT15103R	35	NSYPLAZ12123R	34
NSYPLA10103T	34	NSYPLA5123	34	NSYPLAT15104	35	NSYPLAZ12124	34
NSYPLA10104	34	NSYPLA5123R	34	NSYPLAT15104R	35	NSYPLAZ12124R	34
NSYPLA10104R	34	NSYPLA5123T	34	NSYPLAT15123	35	NSYPLAZ1253	34
NSYPLA10104T	34	NSYPLA5124	34	NSYPLAT15123R	35	NSYPLAZ1253R	34
NSYPLA10123	34	NSYPLA5124R	34	NSYPLAT15124	35	NSYPLAZ1254	34
NSYPLA10123R	34	NSYPLA5124T	34	NSYPLAT15124R	35	NSYPLAZ1254R	34
NSYPLA10123T	34	NSYPLA553	34	NSYPLAT1553	35	NSYPLAZ1273	34
NSYPLA10124	34	NSYPLA553R	34	NSYPLAT1553R	35	NSYPLAZ1273R	34
NSYPLA10124R	34	NSYPLA553T	34	NSYPLAT1554	35	NSYPLAZ1274	34
NSYPLA10124T	34	NSYPLA554	34	NSYPLAT1554R	35	NSYPLAZ1274R	34
NSYPLA1053	34	NSYPLA554R	34	NSYPLAT1573	35	NSYPLAZ15103	34
NSYPLA1053R	34	NSYPLA554T	34	NSYPLAT1573R	35	NSYPLAZ15103R	34
NSYPLA1053T	34	NSYPLA573	34	NSYPLAT1574	35	NSYPLAZ15104	34
NSYPLA1054	34	NSYPLA573R	34	NSYPLAT1574R	35	NSYPLAZ15104R	34
NSYPLA1054R	34	NSYPLA573T	34	NSYPLAT5103	35	NSYPLAZ15123	34
NSYPLA1054T	34	NSYPLA574	34	NSYPLAT5103R	35	NSYPLAZ15123R	34
NSYPLA1073	34	NSYPLA574R	34	NSYPLAT5104	35	NSYPLAZ15124	34
NSYPLA1073R	34	NSYPLA574T	34	NSYPLAT5104R	35	NSYPLAZ15124R	34
NSYPLA1073T	34	NSYPLA7103	34	NSYPLAT5123	35	NSYPLAZ1553	34
NSYPLA1074	34	NSYPLA7103R	34	NSYPLAT5123R	35	NSYPLAZ1553R	34
NSYPLA1074R	34	NSYPLA7103T	34	NSYPLAT5124	35	NSYPLAZ1554	34
NSYPLA1074T	34	NSYPLA7104	34	NSYPLAT5124R	35	NSYPLAZ1554R	34
NSYPLA12103	34	NSYPLA7104R	34	NSYPLAT553	35	NSYPLAZ1573	34
NSYPLA12103R	34	NSYPLA7104T	34	NSYPLAT553R	35	NSYPLAZ1573R	34
NSYPLA12103T	34	NSYPLA7123	34	NSYPLAT554	35	NSYPLAZ1574	34
NSYPLA12104	34	NSYPLA7123R	34	NSYPLAT554R	35	NSYPLAZ1574R	34
NSYPLA12104R	34	NSYPLA7123T	34	NSYPLAT573	35	NSYPLAZ5103	34
NSYPLA12104T	34	NSYPLA7124	34	NSYPLAT573R	35	NSYPLAZ5103R	34
NSYPLA12123	34	NSYPLA7124R	34	NSYPLAT574	35	NSYPLAZ5104	34
NSYPLA12123R	34	NSYPLA7124T	34	NSYPLAT574R	35	NSYPLAZ5104R	34
NSYPLA12123T	34	NSYPLA753	34	NSYPLAT7103	35	NSYPLAZ5123	34
NSYPLA12124	34	NSYPLA753R	34	NSYPLAT7103R	35	NSYPLAZ5123R	34
NSYPLA12124R	34	NSYPLA753T	34	NSYPLAT7104	35	NSYPLAZ5124	34
NSYPLA12124T	34	NSYPLA754	34	NSYPLAT7104R	35	NSYPLAZ5124R	34
NSYPLA1253	34	NSYPLA754R	34	NSYPLAT7123	35	NSYPLAZ553	34
NSYPLA1253R	34	NSYPLA754T	34	NSYPLAT7123R	35	NSYPLAZ553R	34
NSYPLA1253T	34	NSYPLA773	34	NSYPLAT7124	35	NSYPLAZ554	34
NSYPLA1254	34	NSYPLA773R	34	NSYPLAT7124R	35	NSYPLAZ554R	34
NSYPLA1254R	34	NSYPLA773T	34	NSYPLAT753	35	NSYPLAZ573	34
NSYPLA1254T	34	NSYPLA774	34	NSYPLAT753R	35	NSYPLAZ573R	34
NSYPLA1273	34	NSYPLA774R	34	NSYPLAT754	35	NSYPLAZ574	34
NSYPLA1273R	34	NSYPLA774T	34	NSYPLAT754R	35	NSYPLAZ574R	34
NSYPLA1273T	34	NSYPLAT10103	35	NSYPLAT773	35	NSYPLAZ7103	34
NSYPLA1274	34	NSYPLAT10103R	35	NSYPLAT773R	35	NSYPLAZ7103R	34
NSYPLA1274R	34	NSYPLAT10104	35	NSYPLAT774	35	NSYPLAZ7104	34
NSYPLA1274T	34	NSYPLAT10104R	35	NSYPLAT774R	35	NSYPLAZ7104R	34
NSYPLA15103	34	NSYPLAT10123	35	NSYPLAZ(T)x103	308	NSYPLAZ7123	34
NSYPLA15103R	34	NSYPLAT10123R	35	NSYPLAZ(T)x104	308	NSYPLAZ7123R	34
NSYPLA15103T	34	NSYPLAT10124	35	NSYPLAZ(T)x123	308	NSYPLAZ7124	34
NSYPLA15104	34	NSYPLAT10124R	35	NSYPLAZ(T)x124	308	NSYPLAZ7124R	34
NSYPLA15104R	34	NSYPLAT1053	35	NSYPLAZ(T)x53	308	NSYPLAZ753	34
NSYPLA15104T	34	NSYPLAT1053R	35	NSYPLAZ(T)x54	308	NSYPLAZ753R	34
NSYPLA15123	34	NSYPLAT1054	35	NSYPLAZ(T)x73	308	NSYPLAZ754	34
NSYPLA15123R	34	NSYPLAT1054R	35	NSYPLAZ(T)x74	308	NSYPLAZ754R	34
NSYPLA15123T	34	NSYPLAT1073	35	NSYPLAZ10103	34	NSYPLAZ773	34
NSYPLA15124	34	NSYPLAT1073R	35	NSYPLAZ10103R	34	NSYPLAZ773R	34
NSYPLA15124R	34	NSYPLAT1074	35	NSYPLAZ10104	34	NSYPLAZ774	34
NSYPLA15124T	34	NSYPLAT1074R	35	NSYPLAZ10104R	34	NSYPLAZ774R	34
NSYPLA1553	34	NSYPLAT12103	35	NSYPLAZ10123	34	NSYPLAZT10103	35, 297
NSYPLA1553R	34	NSYPLAT12103R	35	NSYPLAZ10123R	34	NSYPLAZT10103R	35, 297
NSYPLA1553T	34	NSYPLAT12104	35	NSYPLAZ10124	34	NSYPLAZT10104	35, 297
NSYPLA1554	34	NSYPLAT12104R	35	NSYPLAZ10124R	34	NSYPLAZT10104R	35, 297
NSYPLA1554R	34	NSYPLAT12123	35	NSYPLAZ1053	34	NSYPLAZT10123	35, 297
NSYPLA1554T	34	NSYPLAT12123R	35	NSYPLAZ1053R	34	NSYPLAZT10123R	35, 297
NSYPLA1573	34	NSYPLAT12124	35	NSYPLAZ1054	34	NSYPLAZT10124	35, 297
NSYPLA1573R	34	NSYPLAT12124R	35	NSYPLAZ1054R	34	NSYPLAZT10124R	35, 297
NSYPLA1573T	34	NSYPLAT1253	35	NSYPLAZ1073	34	NSYPLAZT1053	35, 297
NSYPLA1574	34	NSYPLAT1253R	35	NSYPLAZ1073R	34	NSYPLAZT1053R	35, 297
NSYPLA1574R	34	NSYPLAT1254	35	NSYPLAZ1074	34	NSYPLAZT1054	35, 297
NSYPLA1574T	34	NSYPLAT1254R	35	NSYPLAZ1074R	34	NSYPLAZT1054R	35, 297
NSYPLA5103	34	NSYPLAT1273	35	NSYPLAZ12103	34	NSYPLAZT1073	35, 297
NSYPLA5103R	34	NSYPLAT1273R	35	NSYPLAZ12103R	34	NSYPLAZT1073R	35, 297

Reference	Page(s)	Reference	Page(s)	Reference	Page(s)	Reference	Page(s)
NSYPLAZT1074	35, 297	NSYPLM108T	32, 274, 275, 276, 287	NSYPLS2736A	21, 259	NSYPMB125	36, 300
NSYPLAZT1074R	35, 297			NSYPLS2736AL	21, 259	NSYPMB127	36, 300
NSYPLAZT12103	35, 297	NSYPLM3025	32, 273, 276	NSYPLS2736L	21, 259	NSYPMB1510	36, 300
NSYPLAZT12103R	35, 297	NSYPLM3025B	276	NSYPLS2754	21, 259	NSYPMB1512	36, 300
NSYPLAZT12104	35, 297	NSYPLM3025P	276	NSYPLS2754A	21, 259	NSYPMB155	36, 300
NSYPLAZT12104R	35, 297	NSYPLM3025T	32, 273, 276	NSYPLS2754AL	21, 259	NSYPMB157	36, 300
NSYPLAZT12123	35, 297	NSYPLM32	32, 272, 276	NSYPLS2754L	21, 259	NSYPMB1827	260
NSYPLAZT12123R	35, 297	NSYPLM32B	276	NSYPLS30	535, 555	NSYPMB2727	260
NSYPLAZT12124	35, 297	NSYPLM32P	276	NSYPLS3627DLS24	260, 267	NSYPMB2736	260
NSYPLAZT12124R	35, 297	NSYPLM32T	32, 272, 276	NSYPLS3627DLS36	260, 267	NSYPMB2754	260
NSYPLAZT1253	35, 297	NSYPLM43	32, 274, 275, 276, 286, 287	NSYPLS3636	21, 259	NSYPMB3636	260
NSYPLAZT1253R	35, 297			NSYPLS3636L	21, 259	NSYPMB3654	260
NSYPLAZT1254	35, 297	NSYPLM43B	276	NSYPLS3654	21, 259	NSYPMB3672	260
NSYPLAZT1254R	35, 297	NSYPLM43P	276	NSYPLS3654A	21, 259	NSYPMB510	36, 300
NSYPLAZT1273	35, 297	NSYPLM43T	32, 274, 275, 276, 287	NSYPLS3654AL	21, 259	NSYPMB5454	260
NSYPLAZT1273R	35, 297			NSYPLS3654L	21, 259	NSYPMB5472	260
NSYPLAZT1274	35, 297	NSYPLM43TV	32, 274, 275, 276	NSYPLS3672A	21, 259	NSYPMB55	36, 300
NSYPLAZT1274R	35, 297	NSYPLM43V	32, 274, 276	NSYPLS3672AL	21, 259	NSYPMB710	36, 300
NSYPLAZT15103	35, 297	NSYPLM54	32, 274, 275, 276, 286, 287	NSYPLS5427DLS48	260, 265, 266, 267	NSYPMB712	36, 300
NSYPLAZT15103R	35, 297					NSYPMB75	36, 300
NSYPLAZT15104	35, 297	NSYPLM54B	276	NSYPLS5454	21, 259	NSYPMB77	36, 300
NSYPLAZT15104R	35, 297	NSYPLM54P	276	NSYPLS5454A	21, 259	NSYPMD1510	20, 41, 45
NSYPLAZT15123	35, 297	NSYPLM54T	32, 274, 275, 276, 287	NSYPLS5454AL	21, 259	NSYPMD2015	20, 41, 45
NSYPLAZT15123R	35, 297			NSYPLS5454L	21, 259	NSYPMD2520	20, 41, 45
NSYPLAZT15124	35, 297	NSYPLM54TV	32, 274, 275, 276	NSYPLS5472A	21, 259	NSYPMD3025	20, 41, 45
NSYPLAZT15124R	35, 297	NSYPLM54V	32, 274, 276	NSYPLS5472AL	21, 259	NSYPMD3530	20, 41, 45
NSYPLAZT1553	35, 297	NSYPLM64	32, 274, 275, 276, 286, 287	NSYPLSC1827	21, 259	NSYPLM103	318
NSYPLAZT1553R	35, 297			NSYPLSC2727	21, 259	NSYPLM104	318
NSYPLAZT1554	35, 297	NSYPLM64B	276	NSYPLSC2727A	21, 259	NSYPLM123	318
NSYPLAZT1554R	35, 297	NSYPLM64P	276	NSYPLSC2736	21, 259	NSYPLM124	318
NSYPLAZT1573	35, 297	NSYPLM64T	32, 274, 275, 276, 287	NSYPLSC2736A	21, 259	NSYPLM153	318
NSYPLAZT1573R	35, 297			NSYPLSC2754	21, 259	NSYPLM154	318
NSYPLAZT1574	35, 297	NSYPLM64TV	32, 274, 275, 276	NSYPLSC2754A	21, 259	NSYPLM173	318
NSYPLAZT1574R	35, 297	NSYPLM64V	32, 274, 276	NSYPLSC3636	21, 259	NSYPLM174	318
NSYPLAZT5103	35, 297	NSYPLM75	32, 274, 275, 276, 287	NSYPLSC3654	21, 259	NSYPLM1010	36, 300
NSYPLAZT5103R	35, 297			NSYPLSC3654A	21, 259	NSYPLM1012	36, 300
NSYPLAZT5104	35, 297	NSYPLM75B	276	NSYPLSC3672A	21, 259	NSYPLM105	36, 300
NSYPLAZT5104R	35, 297	NSYPLM75P	276	NSYPLSC5454	21, 259	NSYPLM107	36, 300
NSYPLAZT5123	35, 297	NSYPLM75T	32, 274, 275, 276, 287	NSYPLSC5454A	21, 259	NSYPLM1210	36, 300
NSYPLAZT5123R	35, 297			NSYPLSC5472A	21, 259	NSYPLM1212	36, 300
NSYPLAZT5124	35, 297	NSYPLM75TV	32, 274, 275, 276	NSYPLSP1827	21, 259	NSYPLM125	36, 300
NSYPLAZT5124R	35, 297	NSYPLM75V	32, 274, 276	NSYPLSP2727	21, 259	NSYPLM127	36, 300
NSYPLAZT5124R	35, 297	NSYPLM86	32, 274, 275, 276, 287	NSYPLSP2736	21, 259	NSYPLM1510	36, 300
NSYPLAZT553	35, 297			NSYPLSP2754	21, 259	NSYPLM1512	36, 300
NSYPLAZT553R	35, 297	NSYPLM86B	276	NSYPLSP3636	21, 259	NSYPLM155	36, 300
NSYPLAZT554	35, 297	NSYPLM86P	276	NSYPLSP3654	21, 259	NSYPLM157	36, 300
NSYPLAZT554R	35, 297	NSYPLM86T	32, 274, 275, 276, 287	NSYPLSP5454	21, 259	NSYPLM1827	260
NSYPLAZT573	35, 297			NSYPMA1010	36, 300	NSYPLM2727	260
NSYPLAZT573R	35, 297	NSYPLM86TV	32, 274, 275, 276	NSYPMA1012	36, 300	NSYPLM2736	260
NSYPLAZT574	35, 297	NSYPLM86V	32, 274, 276	NSYPMA105	36, 300	NSYPLM2754	260
NSYPLAZT574R	35, 297	NSYPLMEX108	32, 574, 575	NSYPMA107	36, 300	NSYPLM3636	260
NSYPLAZT7103	35, 297	NSYPLMEX3025	32, 574	NSYPMA1210	36, 300	NSYPLM3654	260
NSYPLAZT7103R	35, 297	NSYPLMEX43	32, 574, 575	NSYPMA1212	36, 300	NSYPLM3672	260
NSYPLAZT7104	35, 297	NSYPLMEX54	32, 574, 575	NSYPMA125	36, 300	NSYPLM510	36, 300
NSYPLAZT7104R	35, 297	NSYPLMEX64	32, 574, 575	NSYPMA127	36, 300	NSYPLM5454	260
NSYPLAZT7123	35, 297	NSYPLMEX75	32, 574, 575	NSYPMA1827	260	NSYPLM5472	260
NSYPLAZT7123R	35, 297	NSYPLMEX86	32, 574, 575	NSYPMA2727	260	NSYPLM55	36, 300
NSYPLAZT7124	35, 297			NSYPMA2736	260	NSYPLM710	36, 300
NSYPLAZT7124R	35, 297	NSYPLS***1827		NSYPMA2754	260	NSYPLM712	36, 300
NSYPLAZT753	35, 297	NSYPLS***2727•	261	NSYPMA3636	260	NSYPLM75	36, 300
NSYPLAZT753R	35, 297	NSYPLS***2736•	261	NSYPMA3654	260	NSYPLM77	36, 300
NSYPLAZT754	35, 297	NSYPLS***2754•	261	NSYPMA3672	260	NSYPMP300DLM	396,397
NSYPLAZT754R	35, 297	NSYPLS***3636	261	NSYPMA510	36, 300	NSYPMP400DLA	288
NSYPLAZT773	35, 297	NSYPLS***3654•	261	NSYPMA5454	260	NSYPMP400DLM	396,397
NSYPLAZT773R	35, 297	NSYPLS***3672•	261	NSYPMA5472	260	NSYPMP45100	538
NSYPLAZT774	35, 297	NSYPLS***5454•	261	NSYPMA55	36, 300	NSYPMP45120	538
NSYPLAZT774R	35, 297	NSYPLS1827	21, 259	NSYPMA710	36, 300	NSYPMP45160	538
NSYPLD114P	36,3	NSYPLS1827DLS12	260, 267	NSYPMA712	36, 300	NSYPMP4580	538
NSYPLD8122	330, 331	NSYPLS1827L	21, 259	NSYPMA75	36, 300	NSYPMP5002DLP	324
NSYPLD8122C	331	NSYPLS24	535, 555	NSYPMA77	36, 300	NSYPMP500DLA	288
NSYPLD8500	330, 331	NSYPLS2727	21, 259	NSYPMA77	36, 300	NSYPMP500DLM	396,397
NSYPLD860	330, 331	NSYPLS2727A	21, 259	NSYPMA1010	36, 300	NSYPMP500DLP	324
NSYPLD881	330, 331	NSYPLS2727AL	21, 259	NSYPMB1012	36, 300	NSYPMP600DLA	288
NSYPLM108	32, 274, 275, 276, 286, 287	NSYPLS2727ALS24	260, 267	NSYPMB105	36, 300	NSYPMP600DLM	396,397
		NSYPLS2727L	21, 259	NSYPMB107	36, 300	NSYPMP7502DLP	324
NSYPLM108B	276	NSYPLS2736	21, 259	NSYPMB1210	36, 300	NSYPMP750DLP	324

Reference	Page(s)	Reference	Page(s)	Reference	Page(s)	Reference	Page(s)
NSYPMP800DLA	288	NSYRCDR18	659	NSYS3D101030P	23, 69	NSYS3D4620	23, 69
NSYPMP800DLM	396, 397	NSYRCINT	660	NSYS3D101030T	23, 69	NSYS3D4620P	23, 69
NSYPMP85100	538, 550	NSYRCK19KIT	649	NSYS3D101230D	23, 69	NSYS3D4620T	23, 69
NSYPMP85120	538, 550	NSYRCK24	648	NSYS3D101230DP	23, 69	NSYS3D4625	23, 69, 634
NSYPMP85160	538	NSYRCK29	648	NSYS3D101240D	23, 69	NSYS3D4625P	23, 69
NSYPMP8560	538, 550	NSYRCK33	648	NSYS3D101240DP	23, 69	NSYS3D4625T	23, 69, 634
NSYPMP8580	538, 550	NSYRCK38	648	NSYS3D10625	23, 69, 78, 634	NSYS3D5320	23, 69, 78
NSYPMR105	36, 300, 316	NSYRCK42	621, 624	NSYS3D10625P	23, 69	NSYS3D5320P	23, 69
NSYPMR107	36, 300, 316	NSYRCK47	648	NSYS3D10625T	23, 69, 634	NSYS3D5320T	23, 69
NSYPMR125	36, 300, 316	NSYRCKP12	650	NSYS3D10630	23, 69	NSYS3D5420	23, 69, 78
NSYPMR127	36, 300, 316	NSYRCKP17	650	NSYS3D10630P	23, 69	NSYS3D5420P	23, 69
NSYPMR155	36, 300, 316	NSYRCKP21	650	NSYS3D10630T	23, 69	NSYS3D5420T	23, 69
NSYPMR157	36, 300, 316	NSYRCKP26	650	NSYS3D10640	23, 69, 634	NSYS3D5425	23, 69
NSYPMR1827	260	NSYRCKP4	650	NSYS3D10640P	23, 69	NSYS3D5425P	23, 69
NSYPMR2727	260	NSYRCKP8	650	NSYS3D10640T	23, 69, 634	NSYS3D5425T	23, 69
NSYPMR2736	260	NSYRCKS10	649	NSYS3D10825	23, 69, 634	NSYS3D5520	23, 69
NSYPMR2754	260	NSYRCKS6	649	NSYS3D10825P	23, 69	NSYS3D5520P	23, 69
NSYPMR3654	260	NSYRCKS8	649	NSYS3D10825T	23, 69, 634	NSYS3D5520T	23, 69
NSYPMR3672	260	NSYRCLOCK	660	NSYS3D10830	23, 69, 78, 634	NSYS3D5525	23, 69
NSYPMR5454	260	NSYRCSUP15	658	NSYS3D10830P	23, 69	NSYS3D5525P	23, 69
NSYPMR5472	260	NSYRCSUP25	658	NSYS3D10830T	23, 69, 634	NSYS3D5525T	23, 69
NSYPMR55	36, 300, 316	NSYRE26	697	NSYS3D10840	23, 69, 634	NSYS3D6420	23, 69
NSYPMR57	36, 300, 316	NSYRE60	697	NSYS3D10840P	23, 69	NSYS3D6420P	23, 69
NSYPMR75	36, 300, 316	NSYRETPLA	311	NSYS3D10840T	23, 69, 634	NSYS3D6420T	23, 69
NSYPMR77	36, 300, 316	NSYRETPLAU	311	NSYS3D121030	23, 69	NSYS3D6425	23, 69, 78
NSYPPS166	137	NSYRETPLAZ	311	NSYS3D121030D	23, 69	NSYS3D6425P	23, 69
NSYPPS168	137	NSYRP2	529, 530	NSYS3D121030DP	23, 69	NSYS3D6425T	23, 69
NSYPPS184	137	NSYRPX2	553, 554	NSYS3D121030DT	23, 69	NSYS3D6525	23, 69
NSYPPS185	137	NSYRSW27	113, 651	NSYS3D121030P	23, 69	NSYS3D6525P	23, 69
NSYPPS186	137	NSYRSW31	113, 651	NSYS3D121030T	23, 69	NSYS3D6525T	23, 69
NSYPPS204	137	NSYRSW36	113, 651	NSYS3D121040D	23, 69	NSYS3D6620	23, 69, 78
NSYPPS205	137	NSYRSW40	113, 651	NSYS3D121040DP	23, 69	NSYS3D6620P	23, 69
NSYPPS206	137	NSYRSW45	651	NSYS3D121230D	23, 69	NSYS3D6620T	23, 69
NSYPPS208	137	NSYRSW627	653	NSYS3D121230DP	23, 69	NSYS3D6625	23, 69, 634
NSYPPS226	137	NSYRSW631	653	NSYS3D121240D	23, 69	NSYS3D6625P	23, 69
NSYPPS228	137	NSYRSW636	653	NSYS3D121240DP	23, 69	NSYS3D6625T	23, 69, 634
NSYPPS27	264	NSYRSW640	653	NSYS3D12630	23, 69	NSYS3D6630	23, 69, 634
NSYPPTR55	312	NSYRSW645	653	NSYS3D12630P	23, 69	NSYS3D6630P	23, 69
NSYPPTR57	312	NSYRSWC27	113, 651	NSYS3D12630T	23, 69	NSYS3D6630T	23, 69, 634
NSYPPTR75	312	NSYRSWC31	113, 651	NSYS3D12640	23, 69	NSYS3D6640	23, 69, 634
NSYPPTR77	547	NSYRSWC36	113, 651	NSYS3D12640P	23, 69	NSYS3D6640P	23, 69
NSYPS2C27	263, 265	NSYRSWC40	113, 651	NSYS3D12640T	23, 69	NSYS3D6640T	23, 69, 634
NSYPS3D43	595	NSYRSWC45	651	NSYS3D12830	23, 69, 634	NSYS3D6830	23, 69
NSYPS3D54	595	NSYRSWH180	652	NSYS3D12830P	23, 69	NSYS3D6830P	23, 69
NSYPS3D64	595	NSYRSWP12	655	NSYS3D12830T	23, 69, 634	NSYS3D6830T	23, 69
NSYPS3D66	595	NSYRSWP15	655	NSYS3D12840	23, 69, 634	NSYS3D7525	23, 69
NSYPS3D75	595	NSYRSWP18	655	NSYS3D12840P	23, 69	NSYS3D7525P	23, 69
NSYPS4C27	263	NSYRSWP21	655	NSYS3D12840T	23, 69, 634	NSYS3D7525T	23, 69
NSYPSA4	547	NSYRSWP6	655	NSYS3D141030D	23, 69, 78	NSYS3D81030	23, 69
NSYPTZ	317	NSYRSWP9	655	NSYS3D141030DP	23, 69	NSYS3D81030D	23, 69
NSYPTZ---	318	NSYRSWSP6	656	NSYS3D3215	23, 69, 78	NSYS3D81030DP	23, 69
NSYPTZ---2P	318	NSYRSWSP8	656	NSYS3D3215P	23, 69	NSYS3D81030P	23, 69
NSYPTZ3	317, 318	NSYS...		NSYS3D3215T	23, 69	NSYS3D81230D	23, 69
NSYPTZ32P	317, 318	NSYS04	420	NSYS3D32515P	23, 69	NSYS3D81230DP	23, 69
NSYPTZ4	317, 318	NSYS06	420	NSYS3D32515T	23, 69	NSYS3D8620	23, 69
NSYPTZ42P	317, 318	NSYS10	420	NSYS3D3315	23, 69	NSYS3D8620P	23, 69
NSYPUC27	263	NSYS13M5HS	25, 206, 219, 225, 391	NSYS3D3315P	23, 69	NSYS3D8620T	23, 69
NSYPUNX	227	NSYS16	420	NSYS3D3315T	23, 69	NSYS3D8625	23, 69, 634
NSYR...		NSYS16M5HS	206, 219, 225, 391	NSYS3D3320	23, 69	NSYS3D8625P	23, 69
NSYRBL216146M	422	NSYS16M6HS	206, 219, 225, 391	NSYS3D3320P	23, 69	NSYS3D8625T	23, 69, 634
NSYRBL216296M	422			NSYS3D3320T	23, 69	NSYS3D8630	23, 69, 78, 634
NSYRBL21656M	422	NSYS2535	420	NSYS3D3415	23, 69	NSYS3D8630P	23, 69
NSYRBL21686M	422	NSYS3CM303020	508, 510, 511	NSYS3D3415P	23, 69	NSYS3D8630T	23, 69, 634
NSYRBLZ216146	422	NSYS3CM304020	508, 510, 511	NSYS3D3415T	23, 69	NSYS3D8640	23, 69, 634
NSYRBLZ216296	422	NSYS3CM404020	508, 510, 511	NSYS3D4315	23, 69	NSYS3D8640P	23, 69
NSYRBLZ21656	422	NSYS3CM406025	508, 510, 511	NSYS3D4315P	23, 69	NSYS3D8640T	23, 69, 634
NSYRBLZ21686	422	NSYS3CM505025	508, 510, 511	NSYS3D4315T	23, 69	NSYS3D8825	23, 69
NSYRC12	649	NSYS3CM606020	508, 510, 511	NSYS3D4320	23, 69	NSYS3D8825P	23, 69
NSYRC14	649	NSYS3CM608030	508, 510, 511	NSYS3D4320P	23, 69	NSYS3D8825T	23, 69
NSYRC16	649	NSYS3CM806030	508, 510, 511	NSYS3D4320T	23, 69	NSYS3D8830	23, 69
NSYRC18	649	NSYS3D101030	23, 69	NSYS3D4320P	23, 69	NSYS3D8830P	23, 69
NSYRC1U	657	NSYS3D101030D	23, 69, 78	NSYS3D4320T	23, 69	NSYS3D8830T	23, 69
NSYRC20	649	NSYS3D101030DP	23, 69	NSYS3D4420	23, 69	NSYS3D8830T	23, 69
NSYRC22	649	NSYS3D101030DT	69	NSYS3D4420P	23, 69	NSYS3D8830T	23, 69
NSYRCDFIX	658			NSYS3D4420T	23, 69	NSYS3DB25315	24
NSYRCDR12	659					NSYS3DB25415	24
						NSYS3DB25515	24
						NSYS3DB3315	24

Reference	Page(s)	Reference	Page(s)	Reference	Page(s)	Reference	Page(s)
NSYS3DB3415	24	NSYS3X8830H	30, 206	NSYSC2460	166	NSYSDGCR6	453
NSYS3DB3515	24	NSYS3XEX10830	30, 570	NSYSC630	166	NSYSDGCR8	453
NSYS3DB3615	24	NSYS3XEX3215	30, 570	NSYSC640	166	NSYSDH	536, 811, 816
NSYS3DB4315	24	NSYS3XEX4320	30, 570	NSYSC650	166	NSYSDP6M	177,483
NSYS3DB4815	24	NSYS3XEX5420	30, 570	NSYSC660	166	NSYSDP8M	177,483
NSYS3DB5415	24	NSYS3XEX6420	30, 570	NSYSC830	166	NSYSDR100	379
NSYS3DB6415	24	NSYS3XEX7525	30, 570	NSYSC840	166	NSYSDR100A	379
NSYS3DBFL3317	24	NSYS3XEX8625	30, 570	NSYSC850	166	NSYSDR120	379
NSYS3DBFL3417	24	NSYS50	420	NSYSC860	166	NSYSDR200	380
NSYS3DBFL4317	24	NSYS5GPC35	624	NSYSCCDINLG140	454	NSYSDR200B	380
NSYS3DEX10830	566	NSYS5GPC38	624	NSYSCCDINLG75	454	NSYSDR200BD	380
NSYS3DEX3215	566	NSYS5GPC68	624	NSYSCX10030	218, 226	NSYSDR200D	380, 381
NSYS3DEX3320	566	NSYS5GPC75	624	NSYSCX10040	218, 226	NSYSDR30B	379
NSYS3DEX4320	566	NSYS5GPC78	624	NSYSCX10060	225, 226	NSYSDR40B	379
NSYS3DEX4420	566	NSYS5GPC86	624	NSYSCX12040	218, 225, 226	NSYSDR50A	379
NSYS3DEX5420	566	NSYS70	420	NSYSCX12050	218, 226	NSYSDR60	379
NSYS3DEX6425	566	NSYS95100	420	NSYSCX12060	225, 226	NSYSDR60A	379
NSYS3DEX6625	566	NSYSB130	345	NSYSCX16040	218, 226	NSYSDR80	379
NSYS3DEX7525	566	NSYSB90	345	NSYSCX16060	218, 226	NSYSDR80A	379
NSYS3DEX8630	566	NSYSBPLA	320, 325, 326	NSYSCX6040	218, 225, 226	NSYSDRC	177
NSYS3DM10615T	24	NSYSBS10105	20, 41, 51, 52	NSYSCX6050	225, 226	NSYSDRSDCR300	344
NSYS3DM10815T	24	NSYSBS13136	20, 41, 51, 52	NSYSCX8040	218, 225, 226	NSYSDRSDCR400	344
NSYS3DM4315T	24	NSYSBS16126	20, 41, 51	NSYSCX8050	218, 226	NSYSDT5	176,484
NSYS3DM5415T	24	NSYSBS16126S	20, 41, 51	NSYSCX8060	225, 226	NSYSDT6	176,484
NSYS3DM6415T	24	NSYSBS16166	20, 41, 51, 52	NSYSD10	524, 534, 535	NSYSDT8	176,484
NSYS3DM6615T	24	NSYSBS18139F	20, 41, 48	NSYSD10R	526, 530, 534, 535	NSYSDX10	550, 554, 555
NSYS3DM7515T	24	NSYSBS18139FT	48	NSYSD12	524, 534, 535	NSYSDX12	550, 554, 555
NSYS3DM8615T	24	NSYSBS18139K	48	NSYSD12R	526, 530, 534, 535	NSYSDX6	550, 554, 555
NSYS3HF10830P	580	NSYSBS18139KT	48	NSYSD6	524, 534, 535	NSYSDX8	550, 554, 555
NSYS3HF12830P	580	NSYSBS18139KTH	48	NSYSD6R	526, 530, 534, 535	NSYSF12640	26, 125
NSYS3HF4320P	580	NSYSBS18169F	20, 41, 48	NSYSD8	524, 534, 535	NSYSF12640P	26, 125
NSYS3HF4620P	580	NSYSBS18169FT	48	NSYSD8R	526, 530, 534, 535	NSYSF12660	125
NSYS3HF5420P	580	NSYSBS18169K	48	NSYSDC42	528, 530	NSYSF12660E	638
NSYS3HF6420P	580	NSYSBS18169KT	48	NSYSDC43	528, 530	NSYSF12660P	26, 125
NSYS3HF6625P	580	NSYSBS18169KTH	48	NSYSDC62	528, 530	NSYSF12680E	638
NSYS3HF7525P	580	NSYSBS20209	20, 41, 51	NSYSDC63	528, 530	NSYSF12840	26, 125
NSYS3HF8630P	580	NSYSBS20209S	20, 41, 51	NSYSDCR	100, 209, 594	NSYSF12840P	26, 125
NSYS3X101030	30, 206	NSYSBS232112F	20, 41, 48	NSYSDCR10	176,484	NSYSF12860	26, 125
NSYS3X101030H	30, 206	NSYSBS232112FT	48	NSYSDCR200	30, 71, 206, 344, 566, 570	NSYSF12860E	638
NSYS3X10830	30, 206	NSYSBS232112K	48	NSYSDCR250	30, 71, 206, 344, 566, 570	NSYSF12860P	26, 125
NSYS3X10830H	30, 206	NSYSBS232112KT	48	NSYSDCR300	30, 71, 206, 344, 566, 570	NSYSF12880E	638
NSYS3X10830T	30, 206	NSYSBS232112KTH	48	NSYSDCR4	484	NSYSF14640	26, 125
NSYS3X121030	30, 206	NSYSBS252510	20, 41, 51	NSYSDCR400	71, 344	NSYSF14640P	26, 125
NSYS3X121030H	30, 206	NSYSBS252510S	20, 41, 51	NSYSDCR5	484	NSYSF14840	26, 125
NSYS3X12830	30, 206	NSYSBS302011R	20, 41, 51	NSYSDCR6	484	NSYSF14840P	26, 125
NSYS3X12830H	30, 206	NSYSBS302015	20, 24, 41	NSYSDCR8	484	NSYSF16660	26, 125
NSYS3X302515	30, 206	NSYSBS303010	20, 41, 51	NSYSDCREC	100	NSYSF16660P	26, 125
NSYS3X302515H	30, 206	NSYSBS303010S	20, 41, 51	NSYSDCREC200	100	NSYSF16660PC	544
NSYS3X3215	30, 206	NSYSBS303015	20, 24, 41	NSYSDCREC250	100	NSYSF16680	26, 125
NSYS3X3215H	30, 206	NSYSBS402011R	20, 41, 51, 52	NSYSDCREC300	100	NSYSF16680P	26, 125
NSYS3X3315	30, 206	NSYSBS403015	20, 24, 41	NSYSDCREC400	100	NSYSF16680PC	544
NSYS3X3315H	30, 206	NSYSBS404011	20, 41, 51	NSYSDCX42	552, 554	NSYSF16860	26, 125
NSYS3X4315	30, 206	NSYSBS404011S	20, 41, 51	NSYSDCX43	552, 554	NSYSF16860P	26, 125
NSYS3X4315H	30, 206	NSYSBS502011R	20, 41, 51	NSYSDCX62	552, 554	NSYSF16860PC	544
NSYS3X4320	30, 206	NSYSBS503011R	20, 41, 51	NSYSDCX63	552, 554	NSYSF16880	26, 125
NSYS3X4320H	30, 206	NSYSBS503020	20, 24, 41	NSYSDF1010	532, 534	NSYSF16880P	26, 125
NSYS3X4320T	30, 206	NSYSBS602011R	20, 41, 51	NSYSDF1010	535	NSYSF16880P	26, 125
NSYS3X4420	30, 206	NSYSBS603011R	20, 41, 51	NSYSDF108	532, 534	NSYSF181040	26, 125
NSYS3X4420H	30, 206	NSYSBS884	20, 41, 51, 52	NSYSDF1210	532, 534	NSYSF1810402D	26, 125
NSYS3X4620	30, 206	NSYSBTB	353	NSYSDF1210	535	NSYSF181040P	26, 125
NSYS3X4620H	30, 206	NSYSC1030	166	NSYSDF128	532, 534, 535	NSYSF181050P	26, 125
NSYS3X5420	30, 206	NSYSC1040	166	NSYSDF128	532, 534, 535	NSYSF181060	26, 125
NSYS3X5420H	30, 206	NSYSC1050	166	NSYSDF1610	532, 534	NSYSF1810602D	26, 125
NSYS3X5420T	30, 206	NSYSC1060	166	NSYSDF1610	535	NSYSF1810602DP	26, 125
NSYS3X6420	30, 206	NSYSC1230	166	NSYSDF1610	535	NSYSF1812402D	26, 125
NSYS3X6420H	30, 206	NSYSC1240	166	NSYSDF1610	535	NSYSF1812402DP	26, 125
NSYS3X6420T	30, 206	NSYSC1250	166	NSYSDF1610	535	NSYSF1812502D	26, 125
NSYS3X6625	30, 206	NSYSC1260	166	NSYSDF1610	535	NSYSF1812502DP	26, 125
NSYS3X6625H	30, 206	NSYSC1640	166	NSYSDF1610	535	NSYSF1812602D	26, 125
NSYS3X7525	30, 206	NSYSC1650	166	NSYSDF1610	535	NSYSF1812602DP	26, 125
NSYS3X7525H	30, 206	NSYSC1660	166	NSYSDF168	532, 534, 535	NSYSF18440	26, 125, 612
NSYS3X7525T	30, 206	NSYSC1850	166	NSYSDF810	532, 534	NSYSF18450	26, 125, 612
NSYS3X8625	30, 206	NSYSC1860	166	NSYSDF810	535	NSYSF18460	26, 125, 612
NSYS3X8625H	30, 206	NSYSC2050	166	NSYSDF88	532, 534, 535	NSYSF18640	26, 125
NSYS3X8625T	30, 206	NSYSC2060	166	NSYSDGCR10	453	NSYSF18640P	26, 125
NSYS3X8830	30, 206	NSYSC2450	166	NSYSDGCR5	453		

Index of references

Reference	Page(s)	Reference	Page(s)	Reference	Page(s)	Reference	Page(s)
NSYSF18640T	26, 125	NSYSF20840	26, 125	NSYSFC88	28, 29, 128, 129	NSYSFLOCKS7	183
NSYSF18650	26, 125	NSYSF20840P	26, 125	NSYSFD126	28, 128	NSYSFLOCKS8	183
NSYSF18650P	26, 125	NSYSF20840T	26, 125	NSYSFD126T	28, 128	NSYSFLOCKSG8	183
NSYSF18650T	26, 125	NSYSF20850	26, 125	NSYSFD128	28, 128	NSYSFLOCKT6	183
NSYSF18660	26, 125	NSYSF20850P	26, 125	NSYSFD128T	28, 128	NSYSFLOCKT7	183
NSYSF18660P	26, 125	NSYSF20850T	26, 125	NSYSFD146	28, 128	NSYSFLOCKT8	183
NSYSF18660PC	544	NSYSF20860	26, 125, 621	NSYSFD146T	28, 128	NSYSFLR105	168
NSYSF18680PC	544	NSYSF208602D	26, 125	NSYSFD148	28, 128	NSYSFLR106	168
NSYSF18680T	26, 125	NSYSF208602DP	26, 125	NSYSFD148T	28, 128	NSYSFLR65	168
NSYSF18840	26, 125	NSYSF20860E	638	NSYSFD166	28, 128	NSYSFLR66	168
NSYSF18840P	26, 125	NSYSF20860M	184	NSYSFD166T	28, 128	NSYSFLR85	168
NSYSF18840T	26, 125	NSYSF20860P	26, 125, 621	NSYSFD168	28, 128	NSYSFLR86	168
NSYSF18850	26, 125	NSYSF20860T	26, 125	NSYSFD168T	28, 128	NSYSFMDR	485, 663
NSYSF18850P	26, 125	NSYSF20880	26, 125	NSYSFD1810	28, 128	NSYSFNDR	485, 663
NSYSF18850T	26, 125	NSYSF20880E	638	NSYSFD18102D	28, 128	NSYSFP20750	597, 622
NSYSF18860	26, 125	NSYSF20880M	184	NSYSFD1810T	28, 128	NSYSFP20750T	597
NSYSF188602D	26, 125	NSYSF20880P	26, 125	NSYSFD18122D	28, 128	NSYSFP20760	597
NSYSF188602DP	26, 125	NSYSF20880T	26, 125	NSYSFD18122DT	28, 128	NSYSFP20760T	597
NSYSF18860P	26, 125	NSYSF221060	26, 125	NSYSFD184	28, 128	NSYSFP20780	597
NSYSF18860T	26, 125	NSYSF221060P	26, 125	NSYSFD185	175	NSYSFP20780T	597
NSYSF201040	26, 125	NSYSF2212602D	26, 125	NSYSFD186	28, 128	NSYSFP300	33, 277
NSYSF2010402D	26, 125	NSYSF2212602DP	26, 125	NSYSFD186T	28, 128	NSYSFP400	33, 277
NSYSF2010402DP	26, 125	NSYSF2212802D	26, 125	NSYSFD188	28, 128	NSYSFP500	33, 277
NSYSF201040P	26, 125	NSYSF2212802DP	26, 125	NSYSFD1882D	28, 128	NSYSFP5G20750	624
NSYSF201040T	26, 125	NSYSF22460	26, 125, 612	NSYSFD188T	28, 128	NSYSFP600	33, 277
NSYSF201050	26, 125	NSYSF226100E	638	NSYSFD2010	29, 129	NSYSFPA	603
NSYSF2010502D	26, 125	NSYSF22660	26, 125	NSYSFD20102D	29, 129	NSYSFPB	350, 583
NSYSF2010502DP	26, 125	NSYSF22660E	638	NSYSFD2010T	29, 129	NSYSFPSC30	71, 83
NSYSF201050P	26, 125	NSYSF22660P	26, 125	NSYSFD20122D	29, 129	NSYSFPSC40	71, 83
NSYSF201050T	26, 125	NSYSF22680	26, 125	NSYSFD20122DT	29, 129	NSYSFPSC50	71, 83
NSYSF201060	26, 125	NSYSF22680E	638	NSYSFD20162D	29, 129	NSYSFPSC60	71, 83
NSYSF2010602D	26, 125	NSYSF22680P	26, 125	NSYSFD203	29, 129	NSYSFPSC80	71, 83
NSYSF2010602DP	26, 125	NSYSF228100E	638	NSYSFD204	29, 129	NSYSFSPLM	33, 277
NSYSF201060P	26, 125	NSYSF22860	26, 125	NSYSFD205	175	NSYSFTB16	163
NSYSF201060T	26, 125	NSYSF22860E	638	NSYSFD206	29, 129	NSYSFTB18	163
NSYSF201080	26, 125	NSYSF22860P	26, 125	NSYSFD206T	29, 129	NSYSFTB24	163
NSYSF201080P	26, 125	NSYSF22880	26, 125	NSYSFD208	29, 129	NSYSFV12	28, 128
NSYSF2012402D	26, 125	NSYSF22880E	638	NSYSFD2082D	29, 129	NSYSFV14	28, 128
NSYSF2012402DP	26, 125	NSYSF22880P	26, 125	NSYSFD208T	29, 129	NSYSFV16	28, 128
NSYSF2012502D	26, 125	NSYSF22880T	26, 125	NSYSFD2210	29, 129	NSYSFV18	28, 128
NSYSF2012502DP	26, 125	NSYSF5G20350	624	NSYSFD2210T	29, 129	NSYSFV20	29, 129
NSYSF2012602D	26, 125	NSYSF5G20380	624	NSYSFD22122D	29, 129	NSYSFV22	29, 129
NSYSF2012602DP	26, 125	NSYSF5G20680	624	NSYSFD22122DT	29, 129	NSYSFWFIX	172
NSYSF2012802D	26, 125	NSYSF5G20780	624	NSYSFD224	29, 129	NSYSFX181240	225
NSYSF2012802DP	26, 125	NSYSF5G20860	624	NSYSFD225	175	NSYSFX18640	225
NSYSF2016402D	26, 125	NSYSFBK	138, 139	NSYSFD226	29, 129	NSYSFX18840	225
NSYSF2016402DP	26, 125	NSYSFBK19	31, 138, 139, 226, 599	NSYSFD226T	29, 129	NSYSFX201060	225
NSYSF2016502D	26, 125	NSYSFBKE	138, 141	NSYSFD228	29, 129	NSYSFX201260	225
NSYSF2016502DP	26, 125	NSYSFBKF	138, 140	NSYSFD228T	29, 129	NSYSFX20650	225
NSYSF2016602D	26, 125	NSYSFBKR	138, 140	NSYSFEB	162, 599	NSYSFX20840	225
NSYSF2016602DP	26, 125	NSYSFBKSH	141	NSYSFELB	162, 599	NSYSFX20860	225
NSYSF20350	26, 125, 597, 612, 622	NSYSFCH2	28, 29, 128, 129	NSYSFHD2	179, 180	NSYSGF	145, 147, 153
NSYSF20360	26, 125, 597, 612	NSYSFCH3	181	NSYSFHD3	181	NSYSH180	176
NSYSF20380	125, 597, 612, 622	NSYSFCH105	28, 29, 128, 129	NSYSFHF18660	584	NSYSIBTB	354
NSYSF20440	26, 125, 612	NSYSFCH106	28, 29, 128, 129	NSYSFHF18840	584	NSYSIMP12	125
NSYSF20450	26, 125, 612	NSYSFCH108	28, 29, 128, 129	NSYSFHF18860	584	NSYSIMP14	125
NSYSF20460	26, 125, 612	NSYSFCH124	28, 29, 128, 129	NSYSFHF20640	584	NSYSIMP16	125
NSYSF20480	26, 125, 612	NSYSFCH125	28, 29, 128, 129	NSYSFHF20660	584	NSYSIMP18	125
NSYSF20640	26, 125	NSYSFCH126	28, 29, 128, 129	NSYSFHF20680	584	NSYSIMP20	125
NSYSF20640P	26, 125	NSYSFCH128	28, 29, 128, 129	NSYSFHF20840	584	NSYSIMP22	125
NSYSF20640T	26, 125	NSYSFCH164	29, 129	NSYSFHF20860	584	NSYSLCKP	666, 667
NSYSF20650	26, 125	NSYSFCH165	29, 129	NSYSFHF20880	584	NSYSLCKS10	668
NSYSF20650P	26, 125	NSYSFCH166	29, 129	NSYSFHF22660	584	NSYSLCKS6	668
NSYSF20650T	26, 125	NSYSFCH35	29, 129	NSYSFHF22860	584	NSYSLCKS8	668
NSYSF20660	26, 125	NSYSFCH36	29, 129	NSYSFHF22880	584	NSYSLCR40	374
NSYSF20660E	638	NSYSFCH44	28, 29, 128, 129	NSYSFHF22880T	591	NSYSLCR50	374
NSYSF20660M	184	NSYSFCH45	28, 29, 128, 129	NSYSFHF22880P	591	NSYSLCR60	374
NSYSF20660P	26, 125	NSYSFCH46	28, 29, 128, 129	NSYSFHF22880M	591	NSYSLCR80	374
NSYSF20680	26, 125, 621	NSYSFCH48	28, 29, 128, 129	NSYSFHF22880P	591	NSYSM10M5HP	462
NSYSF20680E	638	NSYSFCH64	28, 29, 128, 129	NSYSFHF22880T	591	NSYSM1210302D	27, 112, 113
NSYSF20680M	184	NSYSFCH65	28, 29, 128, 129	NSYSFHF22880P	591	NSYSM1210302DP	27, 112, 113
NSYSF20680P	26, 125	NSYSFCH66	28, 29, 128, 129	NSYSFHF22880M	591	NSYSM1212402D	27, 112, 113
NSYSF20780	622	NSYSFCH68	28, 29, 128, 129	NSYSFHF22880T	591	NSYSM1212402DP	27, 112, 113
NSYSF208100E	638	NSYSFCH84	28, 29, 128, 129	NSYSFHF22880P	591	NSYSM12830	27, 112, 113
		NSYSFCH85	28, 29, 128, 129	NSYSFHF22880M	591	NSYSM12830P	27, 112, 113
		NSYSFCH86	28, 29, 128, 129	NSYSFHF22880T	591	NSYSM1410402D	27, 112, 113
				NSYSFHF22880P	591		
				NSYSFHF22880M	591		
				NSYSFHF22880T	591		
				NSYSFHF22880P	591		
				NSYSFHF22880M	591		
				NSYSFHF22880T	591		
				NSYSFHF22880P	591		
				NSYSFHF22880M	591		
				NSYSFHF22880T	591		
				NSYSFHF22880P	591		
				NSYSFHF22880M	591		
				NSYSFHF22880T	591		
				NSYSFHF22880P	591		
				NSYSFHF22880M	591		
				NSYSFHF22880T	591		
				NSYSFHF22880P	591		
				NSYSFHF22880M	591		
				NSYSFHF22880T	591		
				NSYSFHF22880P	591		
				NSYSFHF22880M	591		
				NSYSFHF22880T	591		
				NSYSFHF22880P	591		
				NSYSFHF22880M	591		
				NSYSFHF22880T	591		
				NSYSFHF22880P	591		
				NSYSFHF22880M	591		
				NSYSFHF22880T	591		
				NSYSFHF22880P	591		
				NSYSFHF22880M	591		
				NSYSFHF22880T	591		
				NSYSFHF22880P	591		
				NSYSFHF22880M	591		
				NSYSFHF22880T	591		
				NSYSFHF22880P	591		
				NSYSFHF22880M	591		
				NSYSFHF22880T	591		
				NSYSFHF22880P	591		
				NSYSFHF22880M	591		
				NSYSFHF22880T	591		
				NSYSFHF22880P	591		
				NSYSFHF22880M	591		
				NSYSFHF22880T	591		
				NSYSFHF22880P	591		
				NSYSFHF22880M	591		
				NSYSFHF22880T	591		
				NSYSFHF22880P	591		
				NSYSFHF22880M	591		
				NSYSFHF22880T	591		
				NSYSFHF22880P	591		
				NSYSFHF22880M	591		
				NSYSFHF22880T	591		
				NSYSFHF22880P	591		
				NSYSFHF22880M	591		
				NSYSFHF22880T	591		
				NSYSFHF22880P	591		
				NSYSFHF22880M	591		
				NSYSFHF22880T	591		
				NSYSFHF22880P	591		</

Reference	Page(s)	Reference	Page(s)	Reference	Page(s)	Reference	Page(s)
NSYSM1410402DP	27, 112, 113	NSYSM2016502DP	27, 112, 113	NSYSMX181240H	219	NSYSPMP2575	318, 362
NSYSM1412402D	27, 112, 113	NSYSM2016602D	27, 112, 113	NSYSMX181640	31, 219	NSYSPMP2580	362
NSYSM1412402DP	27, 112, 113	NSYSM2016602DP	27, 112, 113	NSYSMX181640H	219	NSYSPMP40100	318, 362, 539
NSYSM14630	27, 112, 113	NSYSM20630	27, 112, 113	NSYSMX18640	31, 219	NSYSPMP40120	362, 539
NSYSM14630P	27, 112, 113	NSYSM20630P	27, 112, 113	NSYSMX18660PC	558	NSYSPMP40160	362, 539
NSYSM14640	27, 112, 113	NSYSM20640	27, 112, 113	NSYSMX18840	31, 219	NSYSPMP4060	362
NSYSM14640P	27, 112, 113	NSYSM20640P	27, 112, 113	NSYSMX18840H	219	NSYSPMP4080	362, 539
NSYSM14830	27, 112, 113	NSYSM20640T	27, 112, 113	NSYSMX201040	31, 219	NSYSPMP60100	362
NSYSM14830P	27, 112, 113	NSYSM20650	27, 112, 113	NSYSMX201040H	219	NSYSPMP60120	362
NSYSM14840	27, 112, 113	NSYSM20650P	27, 112, 113	NSYSMX201250	31, 219	NSYSPMP6060	362
NSYSM14840P	27, 112, 113	NSYSM20830	27, 112, 113	NSYSMX201250H	219	NSYSPMP6080	362
NSYSM14840T	27, 112, 113	NSYSM20830P	27, 112, 113	NSYSMX201660	31, 219	NSYSPRJ	496
NSYSM1610302D	27, 112, 113	NSYSM20830T	27, 112, 113	NSYSMX201660H	219	NSYSFPS10100	639, 661
NSYSM1610302DP	27, 112, 113	NSYSM20840	27, 112, 113	NSYSMX20850	31, 219	NSYSFPS3100	27, 112, 113
NSYSM1610402D	27, 112, 113	NSYSM20840P	27, 112, 113	NSYSNLPLA	312	NSYSFPS3100SD	71
NSYSM1610402DP	27, 112, 113	NSYSM20840T	27, 112, 113	NSYSNM6	358, 392	NSYSFPS3200	27, 112, 113
NSYSM1612302D	27, 112, 113	NSYSM20850	27, 112, 113	NSYSNM8	358, 392	NSYSFPS3200SD	71
NSYSM1612302DP	27, 112, 113	NSYSM20850P	27, 112, 113	NSYSNSM6	358, 392	NSYSFPS4100	27, 112, 113, 125
NSYSM1612402D	27, 112, 113	NSYSM20850T	27, 112, 113	NSYSNSM8	358, 392	NSYSFPS4100SD	71, 534
NSYSM1612402DP	27, 112, 113	NSYSM20860	27, 112, 113	NSYSNODS	667	NSYSFPS4200	27, 112, 113, 125
NSYSM16630	27, 112, 113	NSYSM20860P	27, 112, 113	NSYSPB6100	151, 661	NSYSFPS4200SD	71, 534
NSYSM16630P	27, 112, 113	NSYSM20860T	27, 112, 113	NSYSPB8100	151, 661	NSYSFPS5100	27, 112, 113, 125, 598
NSYSM16640	27, 112, 113	NSYSMBCE10	159	NSYSPBC35	612	NSYSFPS5100SD	534
NSYSM16640P	27, 112, 113	NSYSMBCE6	159	NSYSPBC36	612	NSYSFPS5200	27, 112, 113, 125, 598
NSYSM16640T	27, 112, 113	NSYSMBCE8	159	NSYSPBC38	612	NSYSFPS5200SD	534
NSYSM16830	27, 112, 113	NSYSMBK	142	NSYSPC	340, 341, 361, 462	NSYSFPS6100	27, 112, 113, 125, 598, 621
NSYSM16830P	27, 112, 113	NSYSMDR	485	NSYSPC4100	152	NSYSFPS6100SD	534
NSYSM16830T	27, 112, 113	NSYSMEB	219, 225	NSYSPC5100	152	NSYSFPS6200	27, 112, 113, 125, 598
NSYSM16840	27, 112, 113	NSYSMEC103	158	NSYSPC6100	152	NSYSFPS6200SD	534
NSYSM16840P	27, 112, 113	NSYSMEC104	158	NSYSPC8100	152	NSYSFPS8100	27, 112, 113, 125, 598
NSYSM16840T	27, 112, 113	NSYSMEC105	158	NSYSPCP	461	NSYSFPS8100SD	151, 639
NSYSM181040	27, 112, 113	NSYSMEC63	158	NSYSPCR	154	NSYSFPS8200	27, 112, 113, 125, 598
NSYSM1810402D	27, 112, 113	NSYSMEC64	158	NSYSPF10100	27, 71, 112, 113, 125, 534	NSYSFPSJ	496
NSYSM1810402DP	27, 112, 113	NSYSMEC65	158	NSYSPF10200	27, 71, 112, 113, 125, 534	NSYSPTR77	312
NSYSM181040P	27, 112, 113	NSYSMEC66	158	NSYSPF12100	27, 71, 112, 113, 125, 534	NSYSPV6100	151, 639
NSYSM1810502D	27, 112, 113	NSYSMEC83	158	NSYSPF12200	27, 71, 112, 113, 125, 534	NSYSPV8100	151, 639, 661
NSYSM1810502DP	27, 112, 113	NSYSMEC84	158	NSYSPF16100	27, 112, 113, 125, 534	NSYSPXF10100H	31, 219, 225, 229, 550
NSYSM1812402D	27, 112, 113	NSYSMEC85	158	NSYSPF16200	27, 112, 113, 125, 534	NSYSPXF10200H	31, 219, 225, 229, 550
NSYSM1812402DP	27, 112, 113	NSYSMEC86	158	NSYSPF3100	27, 112, 113, 125, 598	NSYSPXF12100H	31, 219, 225, 229, 550
NSYSM1812502D	27, 112, 113	NSYSMHF18660P	588	NSYSPF3200	27, 112, 113, 125, 598	NSYSPXF12200H	31, 219, 225, 229, 550
NSYSM1812502DP	27, 112, 113	NSYSMHF18860P	588	NSYSPF4100	27, 125	NSYSPXF16100H	31, 219, 229
NSYSM1816402D	27, 112, 113	NSYSMHF20840P	588	NSYSPF4200	27, 125	NSYSPXF16200H	31, 219, 229
NSYSM1816402DP	27, 112, 113	NSYSMHR10	27	NSYSPF6100	27, 71, 112, 113, 125, 534, 621	NSYSPXF6100H	31, 219, 225, 229, 550, 558
NSYSM1816502D	27, 112, 113	NSYSMHR12	27	NSYSPF6200	27, 71, 112, 113, 125, 534	NSYSPXF6200H	31, 219, 225, 229, 550, 558
NSYSM1816502DP	27, 112, 113	NSYSMHR16	27	NSYSPF7100	598	NSYSPXF8100H	31, 219, 225, 229, 550
NSYSM18630	27, 112, 113	NSYSMHR6	27	NSYSPF7200	598	NSYSPXF8200H	31, 219, 225, 229, 550
NSYSM18630P	27, 112, 113	NSYSMHR8	27	NSYSPF8100	27, 71, 112, 113, 125, 534, 621	NSYSPXS3100H	31, 219, 229
NSYSM18640	27, 112, 113	NSYSMHR8	27	NSYSPF8200	27, 71, 112, 113, 125, 534	NSYSPXS4100H	31, 219, 225, 229
NSYSM18640P	27, 112, 113	NSYSMNRD	485	NSYSRFC16100	152	NSYSPXS5100H	31, 219, 225, 229, 550
NSYSM18640T	27, 112, 113	NSYSMP2D4	356	NSYSRFC16200	152	NSYSPXS6100H	31, 219, 225, 229, 558
NSYSM18650	27, 112, 113	NSYSMP2D5	356, 402	NSYSRFC18100	152	NSYSPXS8100H	229
NSYSM18650P	27, 112, 113	NSYSMP2D6	356	NSYSRFC18200	152	NSYSQCR40100	373
NSYSM18830	27, 112, 113	NSYSMP2D8	356	NSYSRFC24100	152	NSYSQCR40120	373
NSYSM18830P	27, 112, 113	NSYSMPB	350, 356, 357, 587	NSYSRFC24200	152	NSYSQCR4040	373, 376
NSYSM18830T	27, 112, 113	NSYSMPFA	348	NSYSRFV6100	151	NSYSQCR4050	373, 376
NSYSM18840	27, 112, 113	NSYSMPFB	348	NSYSRFV8100	151	NSYSQCR4060	373, 376, 547
NSYSM18840P	27, 112, 113	NSYSMP4	351	NSYSPLA100	37, 300, 320	NSYSQCR4080	373, 376, 547
NSYSM18840T	27, 112, 113	NSYSMP5	351	NSYSPLA125	37, 300, 320	NSYSQCR65100	373
NSYSM18850	27, 112, 113	NSYSMP5	351	NSYSPLA150	37, 300, 320	NSYSQCR65120	373
NSYSM18850P	27, 112, 113	NSYSMP6	351	NSYSPLA75	37, 300, 320	NSYSQCR6540	373
NSYSM18850T	27, 112, 113	NSYSMP8	351	NSYSPLD	331	NSYSQCR6550	373
NSYSM18860	27, 112, 113	NSYSMP8	351	NSYSPLM6	144, 147, 150	NSYSQCR6550	373
NSYSM18860P	27, 112, 113	NSYSMP8	351	NSYSPLM6	144, 147, 150	NSYSQCR6560	373
NSYSM18860P	27, 112, 113	NSYSMP8	351	NSYSPLM6	144, 147, 150	NSYSQCR6580	373
NSYSM18860P	27, 112, 113	NSYSMP8	351	NSYSPLM6	144, 147, 150		
NSYSM2010402D	27, 112, 113	NSYSMP8	351	NSYSPLM6	144, 147, 150		
NSYSM2010402DP	27, 112, 113	NSYSMP8	351	NSYSPLM6	144, 147, 150		
NSYSM2010502D	27, 112, 113	NSYSMP8	351	NSYSPLM6	144, 147, 150		
NSYSM2010502DP	27, 112, 113	NSYSMP8	351	NSYSPLM6	144, 147, 150		
NSYSM2012402D	27, 112, 113	NSYSMP8	351	NSYSPLM6	144, 147, 150		
NSYSM2012402DP	27, 112, 113	NSYSMP8	351	NSYSPLM6	144, 147, 150		
NSYSM2012502D	27, 112, 113	NSYSMP8	351	NSYSPLM6	144, 147, 150		
NSYSM2012502DP	27, 112, 113	NSYSMP8	351	NSYSPLM6	144, 147, 150		
NSYSM2012602D	27, 112, 113	NSYSMP8	351	NSYSPLM6	144, 147, 150		
NSYSM2012602DP	27, 112, 113	NSYSMP8	351	NSYSPLM6	144, 147, 150		
NSYSM2016402D	27, 112, 113	NSYSMP8	351	NSYSPLM6	144, 147, 150		
NSYSM2016402DP	27, 112, 113	NSYSMP8	351	NSYSPLM6	144, 147, 150		
NSYSM2016502D	27, 112, 113	NSYSMP8	351	NSYSPLM6	144, 147, 150		
NSYSM2016502DP	27, 112, 113	NSYSMP8	351	NSYSPLM6	144, 147, 150		
NSYSM2016502D	27, 112, 113	NSYSMP8	351	NSYSPLM6	144, 147, 150		

Reference	Page(s)	Reference	Page(s)	Reference	Page(s)	Reference	Page(s)
NSYSQCR90100	373	NSYSUCR90120	372	NSYTBP342916HT	21, 238, 245	NSYTD5PLA	49, 50
NSYSQCR90120	373	NSYSUCR90140	372	NSYTBP775	21, 238, 243, 245	NSYTD5PLA	49, 50
NSYSQCR9040	373	NSYSUCR90150	154, 372	NSYTBP885	21, 238, 243, 245	NSYTD5PLA	191
NSYSQCR9050	373	NSYSUCR90160	372	NSYTBS111113H	21, 238, 243, 245	NSYTEC6PL	284
NSYSQCR9060	373	NSYSUCR90180	372	NSYTBS11116	21, 238, 243, 245	NSYTEC7PL	284
NSYSQCR9080	373	NSYSUCR90200	372	NSYTBS1176	21, 238, 243, 245	NSYTEC8PL	284
NSYSRCE1050	169	NSYSUCR90220	372	NSYTBS1176B2	244	NSYTEDB5PL	284
NSYSRCE1060	169	NSYSUCR9030	154, 372	NSYTBS1176B3	244	NSYTEL1242EPL	284
NSYSRCE650	169	NSYSUCR9040	154, 372	NSYTBS1176C2	244	NSYTEL405PL	284
NSYSRCE660	169	NSYSUCR9050	154, 372	NSYTBS1176C3	244	NSYTEL405PL	284
NSYSRCE850	169	NSYSUCR9060	372	NSYTBS1179H	21, 238, 243, 245	NSYTELJISPL	284
NSYSRCE860	169	NSYSUCR9070	154, 372	NSYTBS1397	21, 238, 243, 245	NSYTEMPL	284
NSYSRSYS810	642	NSYSUCR9080	372	NSYTBS1397T	21, 238, 245	NSYTEPLDM8	330
NSYSRSYS86	642	NSYSUCR9090	154, 372	NSYTBS16128	21, 238, 243, 245	NSYTERPL	284
NSYSRSYS88	642	NSYSUPLA3	303	NSYTBS16128T	21, 238, 245	NSYTET6PL	284
NSYST30M6	391	NSYSUPLA3T	303	NSYTBS191210H	21, 238, 243, 245	NSYTET7PL	284
NSYST30M6S	391	NSYSUPLA4	303	NSYTBS191210HT	21, 238, 245	NSYTET8PL	284
NSYST30M8	391	NSYSUPLA4T	303	NSYTBS19128	21, 238, 243, 245	NSYTEX5	286
NSYSTBR3	357	NSYSVR606	166, 646	NSYTBS19128T	21, 238, 245	NSYTEX6	286
NSYSTBR4	357	NSYSVR608	166, 646	NSYTBS191610H	21, 238, 243, 245	NSYTEX8	286
NSYSTBR5	357	NSYSVR806	166, 167, 646	NSYTBS191610HT	21, 238, 245	NSYTFPCR	100
NSYSTBR6	357	NSYSVR808	167, 646	NSYTBS19168	21, 238, 243, 245	NSYTFPCR10	69, 100
NSYSTDCSX	208	NSYSW	495	NSYTBS19168T	21, 238, 245	NSYTFPCR4	69, 100
NSYSTDCXH	208	NSYT...		NSYTBS241910	21, 238, 243, 245	NSYTFPCR5	69, 100
NSYSTDNCSX	208	NSYTB	49, 50	NSYTBS241910H	21, 238, 243, 245	NSYTFPCR6	69, 100
NSYSTMP22100	361	NSYTB3105	611	NSYTBS241910HT	21, 238, 245	NSYTFPCR8	69, 100
NSYSTMP22120	361	NSYTB3106	611	NSYTBS241910T	21, 238, 245	NSYTHL1242EPLM	50
NSYSTMP2260	361	NSYTB3108	611	NSYTBS241912H	21, 238, 243, 245	NSYTHL2331APLM	50
NSYSTMP2280	361	NSYTB3125	611	NSYTBS241912HT	21, 238, 245	NSYTHL2433APLM	50
NSYSTMP45100	361	NSYTB3126	611	NSYTBS24198	21, 238, 243, 245	NSYTHL3113APLM	49, 50
NSYSTMP45120	361	NSYTB3128	611	NSYTBS24198T	21, 238, 245	NSYTHL405PLM	50
NSYSTMP4560	361	NSYTB335	611	NSYTBS292412	21, 238, 243, 245	NSYTHL421PLM	50
NSYSTMP4580	361	NSYTB336	611	NSYTBS292412H	21, 238, 243, 245	NSYTHL455PLM	50
NSYSTMP60100	361, 539	NSYTB338	611	NSYTBS292412HT	21, 238, 245	NSYTHPLM	49, 50, 283
NSYSTMP60120	361, 539	NSYTB345	611	NSYTBS292412T	21, 238, 245	NSYTHPLM	49, 50, 283
NSYSTMP6060	361	NSYTB346	611	NSYTBS292416H	21, 238, 243, 245	NSYTHPLM	49, 50, 283
NSYSTMP6080	361, 539	NSYTB348	611	NSYTBS292416HT	21, 238, 245	NSYTHPLM	49, 50, 283
NSYSTMP82100	361	NSYTB365	611	NSYTBS29248T	21, 238, 243, 245	NSYTHPLM	49, 50, 283
NSYSTMP82120	361	NSYTB366	611	NSYTBS342912	21, 238, 243, 245	NSYTHPLM	49, 50, 283
NSYSTMP8260	361	NSYTB368	611	NSYTBS342912T	21, 238, 245	NSYTHPLM	49, 50, 283
NSYSTMP8280	361	NSYTB385	611	NSYTBS342916H	21, 238, 243, 245	NSYTHPLM	49, 50, 283
NSYSTR64	194	NSYTB386	611	NSYTBS342916HT	21, 238, 245	NSYTHPLM	49, 50, 283
NSYSTR65	194	NSYTB388	611	NSYTBS342916HT	21, 238, 245	NSYTHPLM	49, 50, 283
NSYSTR84	194	NSYTBP11116	21, 238, 243, 245	NSYTB775	21, 238, 243, 245	NSYTHPLM	49, 50, 283
NSYSTR85	194	NSYTBP1176	21, 238, 243, 245	NSYTB775B1Y (1)	244	NSYTHPLM	49, 50, 283
NSYSTW	495	NSYTBP1397	21, 238, 243, 245	NSYTB775C1	244	NSYTHPLM	49, 50, 283
NSYSUCR40100	371	NSYTBP1397T	21, 238, 245	NSYTB775C1Y	244	NSYTHPLM	49, 50, 283
NSYSUCR40110	154, 372	NSYTBP16128	21, 238, 243, 245	NSYTB885	21, 238, 243, 245	NSYTHPLM	49, 50, 283
NSYSUCR40120	371	NSYTBP16128T	21, 238, 245	NSYTC12100	459	NSYTHPLM	49, 50, 283
NSYSUCR40140	371	NSYTBP191210H	21, 238, 243, 245	NSYTC6CRN	47, 49, 50, 191	NSYTHPLM	49, 50, 283
NSYSUCR40150	154, 372	NSYTBP191210HT	21, 238, 245	NSYTC6CSX	208	NSYTHPLM	49, 50, 283
NSYSUCR40160	371	NSYTBP19128	21, 238, 243, 245	NSYTC6ME	227, 331	NSYTHPLM	49, 50, 283
NSYSUCR40180	371	NSYTBP19128T	21, 238, 245	NSYTC6PL	284	NSYTHPLM	49, 50, 283
NSYSUCR40200	371	NSYTBP191610H	21, 238, 243, 245	NSYTC7CRN	47, 49, 50, 191, 536	NSYTHPLM	49, 50, 283
NSYSUCR40220	371	NSYTBP191610HT	21, 238, 245	NSYTC7CSX	208	NSYTHPLM	49, 50, 283
NSYSUCR4030	154, 371	NSYTBP19168	21, 238, 243, 245	NSYTC7ME	227, 331	NSYTHPLM	49, 50, 283
NSYSUCR4040	154, 371, 376	NSYTBP19168T	21, 238, 245	NSYTC7PL	284	NSYTHPLM	49, 50, 283
NSYSUCR4050	154, 371, 376	NSYTBP241910	21, 238, 243, 245	NSYTC8CRN	47, 49, 50, 191, 283, 536	NSYTHPLM	49, 50, 283
NSYSUCR4060	371, 376, 547	NSYTBP241910H	21, 238, 243, 245	NSYTC8ME	227, 331	NSYTHPLM	49, 50, 283
NSYSUCR4070	154, 372	NSYTBP241910HT	21, 238, 245	NSYTC8PL	284	NSYTHPLM	49, 50, 283
NSYSUCR4080	371, 376, 547	NSYTBP241910T	21, 238, 245	NSYTC8PL	284	NSYTHPLM	49, 50, 283
NSYSUCR4090	154, 372	NSYTBP241912H	21, 238, 243, 245	NSYTC8PL	284	NSYTHPLM	49, 50, 283
NSYSUCR65100	371	NSYTBP241912HT	21, 238, 245	NSYTC8PL	284	NSYTHPLM	49, 50, 283
NSYSUCR65120	371	NSYTBP24198	21, 238, 243, 245	NSYTC8PL	284	NSYTHPLM	49, 50, 283
NSYSUCR65140	371	NSYTBP24198T	21, 238, 245	NSYTC8PL	284	NSYTHPLM	49, 50, 283
NSYSUCR65160	371	NSYTBP292412	21, 238, 243, 245	NSYTC8PL	284	NSYTHPLM	49, 50, 283
NSYSUCR65180	371	NSYTBP292412H	21, 238, 243, 245	NSYTC8PL	284	NSYTHPLM	49, 50, 283
NSYSUCR65200	371	NSYTBP292412HT	21, 238, 245	NSYTC8PL	284	NSYTHPLM	49, 50, 283
NSYSUCR65220	371	NSYTBP292412T	21, 238, 245	NSYTC8PL	284	NSYTHPLM	49, 50, 283
NSYSUCR6530	371	NSYTBP292416H	21, 238, 243, 245	NSYTC8PL	284	NSYTHPLM	49, 50, 283
NSYSUCR6540	371	NSYTBP292416HT	21, 238, 245	NSYTC8PL	284	NSYTHPLM	49, 50, 283
NSYSUCR6550	371	NSYTBP29248	21, 238, 243, 245	NSYTC8PL	284	NSYTHPLM	49, 50, 283
NSYSUCR6560	371	NSYTBP29248T	21, 238, 245	NSYTC8PL	284	NSYTHPLM	49, 50, 283
NSYSUCR6580	371	NSYTBP342912	21, 238, 243, 245	NSYTC8PL	284	NSYTHPLM	49, 50, 283
NSYSUCR90100	372	NSYTBP342912T	21, 238, 245	NSYTC8PL	284	NSYTHPLM	49, 50, 283
NSYSUCR90110	154, 372	NSYTBP342916H	21, 238, 243, 245	NSYTC8PL	284	NSYTHPLM	49, 50, 283

Reference	Page(s)	Reference	Page(s)	Reference	Page(s)	Reference	Page(s)
NSYTLAU	71, 96	NSYTSAM508SE	445	NSYVA274M	487	NSYZNPLA124	37, 301
NSYTLB	71, 96	NSYTSAM6313SE	445	NSYVA274MA	487	NSYZNPLA53	37, 301
NSYTLBFL	71, 96, 98	NSYTSAM638SE	445	NSYVA2751M	487	NSYZNPLA54	37, 301
NSYTLBU	71, 96	NSYTSMLS3D	90	NSYVA276M	487	NSYZNPLA73	37, 301
NSYTLCL	71, 96	NSYTSP450	643	NSYVA276MA	487	NSYZNPLA74	37, 301
NSYTLCF	71, 96, 98	NSYTSPC450	643	NSYVA278M	487	NSYZZ2103	37, 301, 308
NSYTLCU	71, 96	NSYTSPLA	314	NSYVA278MA	487	NSYZZ2104	37, 301, 308
NSYTLDD	71, 96	NSYTSPV450	643	NSYVD2M10U4	25, 634	NSYZZ2123	37, 301, 308
NSYTLDFL	71, 96, 98	NSYTT6CRN	47, 49, 50, 191	NSYVD2M10U5	25, 634	NSYZZ2124	37, 301, 308
NSYTLDU	71, 96	NSYTT6ME	227, 331	NSYVD2M14U4	25, 634	NSYZZ253	37, 301, 308
NSYTLLE	71, 96	NSYTT6PL	284	NSYVD2M14U5	25, 634	NSYZZ254	37, 301, 308
NSYTLLEFL	71, 96, 98	NSYTT7CRN	47, 191	NSYVD2M17U4	25, 634	NSYZZ273	37, 301, 308
NSYTLLEU	71, 96	NSYTT7PL	284	NSYVD2M17U5	25, 634	NSYZZ274	37, 301, 308
NSYTLF	71, 96	NSYTT8CRN	47, 49, 50, 191, 283, 536	NSYVD2M5U4	25, 634	NSYZZ5103	37, 301, 308
NSYTLF2FL	96	NSYTT8CSX	208	NSYVD2M5U5	25, 634	NSYZZ5104	37, 301, 308
NSYTLFFL	71, 98	NSYTT8ME	227, 331	NSYVD2M8U4	25, 634	NSYZZ5123	37, 301, 308
NSYTLFU	71, 96	NSYTT8PL	284	NSYVD2M8U5	25, 634	NSYZZ5124	37, 301, 308
NSYTLG	71, 96	NSYTTG40	375	NSYVDM10U4F	25, 634	NSYZZ553	37, 301, 308
NSYTLG2FL	70, 96, 443	NSYTTG50	375	NSYVDM11UP	71, 378, 634, 637	NSYZZ554	37, 301, 308
NSYTLG4FL	96, 98, 443	NSYTTG60	375, 547, 558	NSYVDM12UF	71, 378, 634, 637	NSYZZ573	37, 301, 308
NSYTLGFL	98	NSYTUP7032	497	NSYVDM13U4P	24, 634	NSYZZ574	37, 301, 308
NSYTLGU	71, 96	NSYTUP7035	497	NSYVDM14U4F	25, 634	PLM	
NSYTLJISME	331	NSYTVR10	319, 358	NSYVDM16U4P	24, 634	PLM3025/T	288
NSYTLRME	331	NSYTVR12	112, 113, 125	NSYVDM16UP	71, 378, 634, 637		
NSYTMME	283	NSYTVR15	319, 358	NSYVDM17U4F	25, 634		
NSYTMP42100	538	NSYTVR125	112, 113, 125, 218	NSYVDM17UF	71, 378, 634, 637		
NSYTMP42120	538	NSYTVR14	319, 358	NSYVDM20U8P	71, 378, 634, 637		
NSYTMP4280	538	NSYTVR16	112, 113, 125, 218	NSYVDM20UP	71, 378, 634, 637		
NSYTMP67100	538	NSYTVR18	112, 113, 125, 218	NSYVDM21UF	71, 378, 634, 637		
NSYTMP67120	538	NSYTVR20	112, 113, 125, 218	NSYVDM25U8P	71, 378, 634, 637		
NSYTMP6760	538	NSYTVR22	125	NSYVDM4U4P	24, 634		
NSYTMP6780	538	NSYTVR7	319, 358	NSYVDM5U4F	25, 634		
NSYTPLS1827	260	NSYTVR8	358, 540	NSYVDM7U4P	24, 634		
NSYTPLS2727	260	NSYTX10030	30, 206, 207	NSYVDM7UP	71, 378, 634, 637		
NSYTPLS2727A	260	NSYTX2015	30, 206, 207	NSYVDM8U4F	25, 634		
NSYTPLS2736	260	NSYTX2515	30, 206, 207	NSYVDM8UF	71, 378, 634, 637		
NSYTPLS2736A	260	NSYTX3015	30, 206, 207	NSYVDM9U4P	24, 634		
NSYTPLS2754	260	NSYTX3020	30, 206, 207	NSYVEA9	286		
NSYTPLS2754A	260	NSYTX4020	30, 206, 207	NSYVR18	113, 125, 218, 224, 359		
NSYTPLS3636	260	NSYTX5025	30, 206, 207	NSYVR20	113, 125, 218, 224, 359		
NSYTPLS3654	260	NSYTX6020	30, 206, 207	NSYVR22	125, 359		
NSYTPLS3654A	260	NSYTX6025	30, 206, 207	NSYVTR20	125		
NSYTPLS3672A	260	NSYTX8030	30, 206, 207	NSYW...			
NSYTPLS5454	260	NSYU...		NSYWMK33	71, 87		
NSYTPLS5454A	260	NSYUCA22	387	NSYWMK34	71, 87		
NSYTPLS5472A	260	NSYUCA44	387	NSYWMK43	71, 87		
NSYTPLSC1827	260	NSYUCC270	262, 265	NSYWMK44	71, 87		
NSYTPLSC2727	260	NSYUCC360	262	NSYZ...			
NSYTPLSC2727A	260	NSYUM27180	262	NSYZA2103	37, 301		
NSYTPLSC2736	260	NSYUM27270	262, 265	NSYZA2104	37, 301		
NSYTPLSC2736A	260	NSYUM27360	262	NSYZA2123	37, 301		
NSYTPLSC2754	260	NSYUR20	388	NSYZA2124	37, 301		
NSYTPLSC2754A	260	NSYUR40	388	NSYZA253	37, 301		
NSYTPLSC3636	260	NSYUR60	388	NSYZA254	37, 301		
NSYTPLSC3654	260	NSYUT20	389	NSYZA273	37, 301		
NSYTPLSC3654A	260	NSYUT40	389	NSYZA274	37, 301		
NSYTPLSC3672A	260	NSYUT60	389	NSYZD1232	330		
NSYTPLSC5454	260	NSYUTA22	387	NSYZD5300	330		
NSYTPLSC5454A	260	NSYUTA42	387	NSYZD630	330		
NSYTPLSC5472A	260	NSYUTA44	387	NSYZD831	330		
NSYTPLSP1827	260	NSYUVP	304	NSYZHPLA103	37, 301		
NSYTPLSP2727	260	NSYV...		NSYZHPLA104	37, 301		
NSYTPLSP2727A	260	NSYVA2710M	487	NSYZHPLA123	37, 301		
NSYTPLSP2736	260	NSYVA2710MA	487	NSYZHPLA124	37, 301		
NSYTPLSP2754	260	NSYVA2712M	487	NSYZHPLA124	37, 301		
NSYTPLSP3636	260	NSYVA2712MA	487	NSYZHPLA53	37, 301		
NSYTPLSP3654	260	NSYVA2716M	487	NSYZHPLA54	37, 301		
NSYTPLSP5454	260	NSYVA2724M	487	NSYZHPLA73	37, 301		
NSYTRG6	195	NSYVA272M	487	NSYZHPLA74	37, 301		
NSYTRG8	195	NSYVA272MA	487	NSYZM253	33, 277		
NSY TSA2414SE	445, 446	NSYVA274M	487	NSYZM263	33, 277		
NSY TSA2417SE	445, 446	NSYVA278M	487	NSYZM283	33, 277		
NSY TSA2422SE	445, 446	NSYVA278MA	487	NSYZNPLA103	37, 301		
NSY TSA2423SE	445, 446	NSYVD2M10U4	25, 634	NSYZNPLA104	37, 301		
NSY TSA2429SE	445, 446	NSYVD2M10U5	25, 634	NSYZNPLA123	37, 301		
NSY TSAKFL	438	NSYVD2M14U4	25, 634				
NSY TSAM504SE	445	NSYVD2M14U5	25, 634				

Make the most of your energy

www.schneider-electric.com



Schneider Electric Industries SAS

35, rue Joseph Monier
CS 30323
F- 92506 Rueil Malmaison Cedex

RCS Nanterre 954 503 439
Capital social 896 313 776 €
www.schneider-electric.com

As standards, specifications and designs change from time to time, please ask for confirmation of the information given in this publication.



This document has been printed on ecological paper

Design: Schneider Electric
Photos: Schneider Electric
Printed: Altavia Connexion

UE12MK01EN
053173

05-2012