



Spacial Thalassa ClimaSys

Universal Enclosures
Catalogue 2020

More than 60 years protecting your equipment



se.com/enclosures

Life Is On

Schneider
Electric



Green Premium™

An industry leading portfolio of offers delivering sustainable value



More than 75% of our product sales offer superior transparency on the material content, regulatory information and environmental impact of our products:

- RoHS compliance
- REACH substance information
- Industry leading # of PEP's*
- Circularity instructions



Discover what we mean by green
[Check your products!](#)

The Green Premium program stands for our commitment to deliver customer valued sustainable performance. It has been upgraded with recognized environmental claims and extended to cover all offers including Products, Services and Solutions.

CO₂ and P&L impact through... Resource Performance

Green Premium brings improved resource efficiency throughout an asset's lifecycle. This includes efficient use of energy and natural resources, along with the minimization of CO₂ emissions.

Cost of ownership optimization through... Circular Performance

We're helping our customers optimize the total cost of ownership of their assets. To do this, we provide IoT-enabled solutions, as well as upgrade, repair, retrofit, and remanufacture services.

Peace of mind through... Well-being Performance

Green Premium products are RoHS and REACH compliant. We're going beyond regulatory compliance with step-by-step substitution of certain materials and substances from our products.

Improved sales through... Differentiation

Green Premium delivers strong value propositions through third-party labels and services. By collaborating with third-party organizations we can support our customers in meeting their sustainability goals such as green building certifications.

*PEP: Product Environmental Profile (i.e. Environmental Product Declaration)

Schneider Electric

Our Universal Enclosures ranges, solutions for each application

PB500005



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.

PB500006



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.

PB502596-21



PB502612-30



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.

Best materials for any application

Always a solution for any environment

PB500013-55



> Solution:

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

> Steel

Indoor 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.

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

PB500014-55



> Solution:

The Spacial range in stainless 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).

PB500015-28



PB500016-48



> Solution:

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

> Insulating polyester and plastic materials (ABS, polycarbonate)

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.

- **Standard range**, for industry and infrastructures.

PB502732-46



PB502733-26



> Solution:

The Thalassa PHD and Spacial S3HD and SFHD ranges (wall-mounting and floor-standing).

> Heavy Duty materials

Severe outdoor environments, generally requested by OEMs, telecom, water treatment and transportation

- Polyester Heavy Duty is suitable for outdoor public areas thanks to its multiple virtues:
 - pressure and shock resistant (IEC 61439-5: 2010),
 - anti-posting thanks to its special ribbed-surface door,
 - insulated (ready to be Class II according to IEC 61439-1: 2011).
- Steel Heavy Duty enclosures are designed for outdoor private areas:
 - they are engineered to resist aggressive environments (anti-corrosion certification class C4H, ISO 12944:1999).

How to define an enclosures solution?

Invariables

Switchgear and Controlgear are the cornerstone of all electrical system. Industry, infrastructure, building, energy, transport, every segment.

The correct enclosure and thermal management selection is crucial to guaranty the targeted performance.

Safeguards of equipment installed inside and consequently, service continuity.



The correct selection of an enclosure and thermal solution

Many influences must be considered when defining an enclosure system. They may be grouped in three groups:

- **Protection (Equipment and people)**
- **Thermal management**
- **Solution profitability**

The environment and the enclosure

The table below is only indicative and not binding. It shows, in a general concept, the optimized performance of the Universal Enclosures ranges according to de environment conditions taking into account technical and commercial criteria:

- Very recommended
- Recommended
- Not recommended

Environment	Enclosure material						
	Steel	Steel Heavy Duty	Stainless-steel 304L	Stainless-steel 316L	Stainless-steel 316L Paint	Polyester	Polyester Heavy Duty
Indoor clean environment ⁽¹⁾	■■■	■	■	■	■	■	■
Hard cleaning process ⁽²⁾	-	-	■■■	■■■	-	-	-
Outdoor (no public access)	-	■■■	■	■	■	■■■	■■■
Outdoor (public access)	-	■	■	■	■	■■■	■■■
Harsh chemicals	-	■	■■■	■■■	■■■	■■■	■■■
Solar radiation	-	■■■	-	■ ⁽⁴⁾	■ ⁽⁴⁾	■■■	■■■
Sand storm	-	-	■■■	■■■	-	■	■
Temperature > 40°C ⁽³⁾	■■■	■■■	■■■	■■■	■■■	■■■	■■■
Temperature < 5°C ⁽³⁾	■■■	■■■	■■■	■■■	■■■	■■■	■■■
Salty environment	-	-	-	■■■	■■■	■■■	■■■
Sea water splashes	-	-	-	■■■	■■■	■■■	■■■
Humidity > 70% ⁽³⁾	-	■■■	■■■	■■■	■■■	■■■	■■■
Impact	■■■	■■■	■■■	■■■	■■■	■■■	■■■
Vandalism	-	■■■	■	■	■	■	■■■
Burglary	-	■■■	■	■	■	■	■■■
Strong pollution	■	■■■	■■■	■■■	■■■	■■■	■■■
Vibration (Marine application)	■■■	-	■■■	■■■	■■■	■■■	-
Seismic	■■■	-	-	-	-	-	-
Electro Magnetic Interference	■■■	-	-	-	-	-	-

⁽¹⁾ Not considering F&B process

⁽²⁾ e.g. F&B process

⁽³⁾ Always using ClimaSys solutions

⁽⁴⁾ Marine solar plants

Thermal management

Thermal management system must guaranty the temperature and humidity controlled inside the enclosure.

The correct solution must be based on a robust process starting on the environment diagnostic, going to the parameters calculations and defining the best architecture (Enclosures + Equipment installed + Thermal solution).

ClimaSys is the definitive solution based on ClimaSys DT / EffiClima / ProClima.

Selection tools

PB500009-165



> www.schneider-electric.com/enclosures

Our web 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

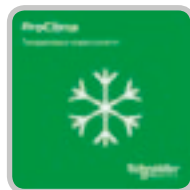


> Digital Rules

Find the accessories that suit your enclosure

The digital rules allow you to select the best components from the current product range. There will be no risk of mistake, since product and accessory selection take place automatically, saving you time and money.

Download Digital Rules.
Scan this



> ProClima

Find the best thermal solution for your enclosure

Select and calculate your thermal management requirements, according to the environment and the electrical/electronic devices installed inside the enclosure.

Download ProClima.
Scan this

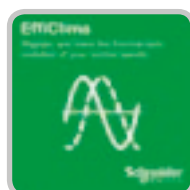


> Spacial.conf

Get your enclosure pre-engineered for your special needs

Spacial.conf software gives you total autonomy to configure and quote enclosures with services (cut-outs, painting, accessory mounting) in less than 3 minutes. Spacial.conf is designed for convenient, error-free, and time-saving orders.

Have a smartphone or a tablet?
Scan this



> EffiClima

Create a complete and accurate tracking report of thermal conditions

EffiClima software translates data into a report on temperature, humidity, and dew point. It provides security for your enclosures by monitoring and controlling the entire application environment directly.

Download EffiClima.
Scan this



Customised solutions

Over **50 years** of experience, knowledge and expertise to have the best enclosure solution that meets your needs.

Three offer levels to cover your different requirements

The tailored solution for special needs.

If you need special enclosures or thermal system, customized to improve technical data, mounting time, aesthetic or other characteristics, we offer you the customization possibility on three levels:

Configured offer (CTO)

Configure any standard enclosure, right from your desktop... in under 5 min.

Specific offer (ETO)

On-demand solution, optimized efficient integration of any complexity.

CO-engineering

Meet any demanding specification, integration challenge, budget constraint, or supply chain need.

PRE500516-1B2



Time saving

Delivered with cut-outs & painting: no waste of time



Logistics

- Flexible management of your logistic option (scheduled delivery service for on-going orders)
- Special packaging



Installation simplified

Enclosures delivered with cut-outs: you don't need special tools



Ergonomic design

Customized project dedicated to your personal concern



Life time increased

- Cut-outs done before painting, guarantees anti-corrosion performance and safe sealing
- Painting service for better protection



Quality improved

- No burrs on edges of cut-outs
- Guaranteed machining tolerances



Aesthetics

- Large choice of colours
- No scratches in external surfaces








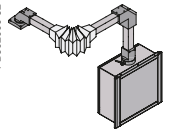











Higher performances

- Adapted thermal management
- Upgraded stainless steel type

Offers overview

Spacial enclosures

	Steel		Stainless-steel	
Boxes	 <p>PB500198-13</p> <p>SDB Derivation box</p> <p>SBM Steel industrial boxes</p> <p>p. 34 p. 36</p>		Consult us	
	 <p>PB500351-20</p> <p>Characteristics</p> <ul style="list-style-type: none"> ■ From 85 x 85 x 49 to 400 x 800 x 120 mm ■ IP55 or IP66 ■ Up to IK10 			
Wall-mounting	 <p>PB500068-84</p> <p>S3D Wall-mounting steel</p> <ul style="list-style-type: none"> ● S3D 19" enclosures p. 421 ● S3DB Terminal enclosures p. 290 ● S3DBFL Terminal enclosures with FL21 cut-out p. 290 ● S3DM Modular wall-mounting enclosures p. 294 ● VDM 19" enclosures p. 418 ● S3DEX Potentially explosive atmospheres p. 453 ● S3HF Electromagnetic compatibility p. 444 ● S3D 6G, S3D 6G K3 Seismic and nuclear enclosures p. 394 <p>Characteristics</p> <ul style="list-style-type: none"> ■ From 300 x 200 x 150 to 1400 x 1000 x 300 mm ■ Up to IP66 ■ Up to IK10 		 <p>PB500075-42</p> <p>S3X Wall-mounting</p> <p>p. 122</p> <p>Characteristics</p> <ul style="list-style-type: none"> ■ From 300 x 200 x 150 to 1200 x 1000 x 300 mm ■ Up to IP66 ■ Up to IK10 	
Floor-standing	 <p>PB500067-82</p> <p>SM Floor-standing compact</p> <p>SF Floor-standing suitable</p> <ul style="list-style-type: none"> ● 19" electronic enclosure p. 424 ● Automobile application p. 494 ● Accessories for modular floor-standing enclosures p. 300 ● Accessories for low voltage switchboards p. 306 ● SFM Motor control centers p. 348 ● SFP Prisma application p. 327 ● SFHF Electromagnetic compatibility p. 445 ● SF 6G, SFP 5G Seismic and nuclear enclosures p. 394 <p>Characteristics</p> <ul style="list-style-type: none"> ■ From 1200 x 600 x 400 to 2200 x 1200 x 800 mm ■ IP55 ■ Up to IK10 		 <p>PB500199-26</p> <p>SMX Floor-standing monobloc</p> <p>SFX Floor-standing suitable</p> <p>p. 132 p. 132</p> <p>Characteristics</p> <ul style="list-style-type: none"> ■ From 1400 x 1000 x 300 to 2000 x 1600 x 600 mm ■ IP66 ■ Up to IK10 	
Outdoor	 <p>PB502865-21</p> <p>S3HD Wall-mounting Heavy Duty enclosures p. 380</p> <p>SFHD Floor-standing Heavy Duty enclosures p. 380</p> <p>Spacial S3HD and SFHD are engineered to resist aggressive environments (anti-corrosion certification class C4 H, ISO 12.944).</p> <p>Options</p> <p>Ventilated plinths, roof ventilation module, slim fanbox, Heavy Duty fixings.</p> <p>Why should I choose it?</p> <p>Designed to resist in outdoor private areas.</p> <p>Characteristics</p> <ul style="list-style-type: none"> ■ From 300 x 200 x 180 to 2000 x 800 x 430 mm ■ Up to IP66 ■ IK10 		Consult us	
Interface	 <p>PB502000-32</p> <p>S3CM Control enclosures with suspension system</p> <p>SD Compact control desks</p> <p>SDF Control desks with console</p> <p>SF PC rack</p> <p>p. 458 p. 468 p. 468 p. 484</p>		 <p>PB501287-30</p> <p>SDX Control desk</p> <p>SMX PC rack</p> <p>p. 469 p. 488</p>	
ClimaSys	 <p>PB503599</p> <p>CV Smart ventilation systems</p> <p>p. 508</p>	 <p>PB500665-30</p> <p>CV Ventilation Systems</p> <p>p. 518</p>	 <p>PB502618-9</p> <p>CA Natural airing</p> <p>p. 534</p>	 <p>PB502625-8</p> <p>CE Exchangers</p> <p>p. 536</p>
				 <p>PB502618-9</p> <p>CU Cooling Units</p> <p>p. 547</p>
				 <p>PB502047-10</p> <p>CC Thermal Control</p> <p>p. 571</p>
				 <p>PB502624-10</p> <p>CR Resistance Heaters</p> <p>p. 564</p>
			 <p>PB502624-10</p> <p>DT Dataloggers</p> <p>p. 574</p>	

Offers overview

Thalassa enclosures

Insulating materials

Details and technical datasheets available on www.se.com/enclosures

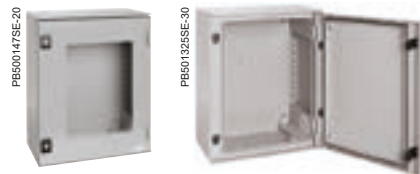


PLS Insulating modular boxes
TBP Polycarbonate industrial boxes
TBS ABS industrial boxes

p. 156
 p. 142
 p. 142

Characteristics

- From 74 x 74 x 54 to 540 x 720 x 230 mm
- Up to IP66
- Up to IK09



PLM Wall-mounting polyester

p. 166

Characteristics

- From 308 x 215 x 160 to 1056 x 852 x 350 mm
- Up to IP66
- Up to IK10

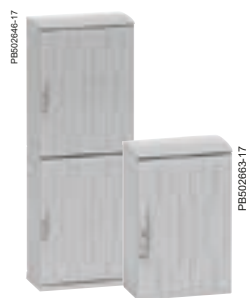


PLA Floor-standing polyester enclosures
PLD Floor-standing DIN polyester enclosures

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Characteristics

- From 500 x 500 x 320 to 2000 x 750 x 420 mm
- Up to IP65
- Up to IK10



PHD Polyester Heavy Duty enclosures

p. 380

Thalassa PHD has multiple virtues:

- pressure and shock resistant (IEC 61439-5),
- anti-posting thanks to its special front door,
- insulated (Class II).

Options

Anti-burglary accessory, ventilated plinths, roof ventilation module, slim fanbox.

Why should I choose it?

Suitable for harsh environments in outdoor public areas.

Characteristics

- From 500 x 500 x 320 to 2000 x 750 x 420 mm
- Up to IP65
- IK10



Digital Rules
 Enclosures selector



Spacial.conf
 Services configurator



ProClima
 Thermal calculation software



EffiClima
 Thermal tracking software

Accessories



Mounting p. 214



Lighting and power sockets p. 276



Cable management p. 250

Project & Services

- CTO Customized to order
- ETO Engineered to order
- Co-engineering

Spare Parts



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Selection guide

Steel industrial boxes

Metallic junction boxes SDB IP55

	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)	References	References	Height (A)	Width (B)	D	E	F	References	
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° 1	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	-	-	-	220	170	88	NSYPMD2520	1.5
	307	257	116	NSYDBN3025	-	-	-	268	218	110	NSYPMD3025	3.3

Metallic modular boxes

External dimensions (mm)			SBM
Height	Width	Depth	
150	150	80	NSYSBM15158
		120	NSYSBM151512
	200	80	NSYSBM15208
		120	NSYSBM152012
	300	80	NSYSBM15308
		120	NSYSBM153012
400	80	80	NSYSBM15408
		120	NSYSBM154012
	200	80	NSYSBM20208
		120	NSYSBM202012
	300	80	NSYSBM20308
		120	NSYSBM203012
500	400	80	NSYSBM20408
		120	NSYSBM204012
	500	80	NSYSBM20508
		120	NSYSBM205012
	600	80	NSYSBM20608
		120	NSYSBM206012
800	800	120	NSYSBM208012
		300	NSYSBM303012
	400	120	NSYSBM304012
		120	NSYSBM305012
	500	120	NSYSBM306012
		120	NSYSBM308012
400	400	120	NSYSBM404012
		120	NSYSBM405012
	600	120	NSYSBM406012
		120	NSYSBM408012

> Accessories and mounting plates for metallic modular boxes

All informations about accessories and mounting plate on page 40

Selection guide

Insulating industrial boxes

Universal boxes with IP66



Overall external dimensions (mm)			Overall internal dimensions (mm)			Body (mm)	Cover (mm)	Material			
Height	Width	Depth	Height	Width	Depth			ABS IP66 IK07	PC-UL IP66 IK08		
								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	-
		94	105	65	85	45	40	NSYTBS1179H	-	-	-
		62	105	105	55	45	10	NSYTBS11116	-	NSYTBP11116	-
138	93	72	125	80	65	45	20	NSYTBS1397	NSYTBS1397T	NSYTBP1397	NSYTBP1397T
		87	150	105	80	60	20	NSYTBS16128	NSYTBS16128T	NSYTBP16128	NSYTBP16128T
164	121	87	175	105	80	60	20	NSYTBS19128	NSYTBS19128T	NSYTBP19128	NSYTBP19128T
		105	175	105	100	60	40	NSYTBS191210H	NSYTBS191210HT	NSYTBP191210H	NSYTBP191210HT
		87	175	150	80	60	20	NSYTBS19168	NSYTBS19168T	NSYTBP19168	NSYTBP19168T
241	194	105	175	150	100	60	40	NSYTBS191610H	NSYTBS191610HT	NSYTBP191610H	NSYTBP191610HT
		87	225	175	80	60	20	NSYTBS24198	NSYTBS24198T	NSYTBP24198	NSYTBP24198T
		107	225	175	100	80	20	NSYTBS241910	NSYTBS241910T	NSYTBP241910	NSYTBP241910T
291	241	107	225	175	100	60	40	NSYTBS241910H	NSYTBS241910HT	NSYTBP241910H	NSYTBP241910HT
		127	225	175	120	80	40	NSYTBS241912H	NSYTBS241912HT	NSYTBP241912H	NSYTBP241912HT
		88	275	225	80	60	20	NSYTBS29248	NSYTBS29248T	NSYTBP29248	NSYTBP29248T
341	291	128	275	225	120	100	20	NSYTBS292412	NSYTBS292412T	NSYTBP292412	NSYTBP292412T
		128	275	225	120	60	60	NSYTBS292412H	NSYTBS292412HT	NSYTBP292412H	NSYTBP292412HT
		168	275	225	160	100	60	NSYTBS292416H	NSYTBS292416HT	NSYTBP292416H	NSYTBP292416HT
341	291	128	325	275	120	100	20	NSYTBS342912	NSYTBS342912T	NSYTBP342912	NSYTBP342912T
		168	325	275	160	100	60	NSYTBS342916H	NSYTBS342916HT	NSYTBP342916H	NSYTBP342916HT

➤ Accessories and mounting plates for universal boxes with IP66

All informations about accessories and mounting plate on page 150

Modular boxes



Dimensions (mm)			Complete box			
Height	Width	Depth	Transparent cover	Opaque cover	Polyester cover	
180	270	180	NSYPLS1827G	NSYPLSC1827G	NSYPLSP1827G	
270	270	180	NSYPLS2727G	NSYPLSC2727G	NSYPLSP2727G	
		230	NSYPLS2727AG	NSYPLSC2727AG	-	
	360	180	NSYPLS2736G	NSYPLSC2736G	NSYPLSP2736G	
		230	NSYPLS2736AG	NSYPLSC2736AG	-	
360	540	180	NSYPLS2754G	NSYPLSC2754G	NSYPLSP2754G	
		230	NSYPLS2754AG	NSYPLSC2754AG	-	
	360	360	180	NSYPLS3636G	NSYPLSC3636G	NSYPLSP3636G
		540	180	NSYPLS3654G	NSYPLSC3654G	NSYPLSP3654G
540	720	230	NSYPLS3672AG	NSYPLSC3672AG	-	
		230	NSYPLS3672AG	NSYPLSC3672AG	-	
	540	540	180	NSYPLS5454G	NSYPLSC5454G	NSYPLSP5454G
		720	230	NSYPLS5472AG	NSYPLSC5472AG	-

➤ Accessories and mounting plates for modular boxes

All informations about accessories and mounting plate on page 161

Selection guide

Steel wall-mounting enclosures



Characteristics						Door			Mounting plate		
Dimensions (mm) (1)			No. of doors	IP	Weight (kg) (2)	Plain		Glazed	Plain	Silkscreened (3)	Microperforated
H	W	D				With mounting plate	Without mounting plate	Without mounting plate			
300	200	150	1	66	3.02	NSYS3D3215P	NSYS3D3215	-	NSYMM32	-	NSYMF32
	250	150	1	66	3.48	NSYS3D32515P	NSYS3D32515	NSYS3D32515T	NSYMM3025	-	-
	300	150	1	66	3.90	NSYS3D3315P	NSYS3D3315	NSYS3D3315T	NSYMM33	-	NSYMF33
		200	1	66	4.50	NSYS3D3320P	NSYS3D3320	NSYS3D3320T	NSYMM33	-	NSYMF33
400	150	1	66	4.82	NSYS3D3415P	NSYS3D3415	NSYS3D3415T	NSYMM43	NSYMS43	NSYMF43	
		200	1	66	5.60	NSYS3D3420P	NSYS3D3420	NSYS3D3420T	NSYMM43	NSYMS43	NSYMF43
	300	150	1	66	4.90	NSYS3D4315P	NSYS3D4315	NSYS3D4315T	NSYMM43	NSYMS43	NSYMF43
		200	1	66	5.00	NSYS3D4320P	NSYS3D4320	NSYS3D4320T	NSYMM43	NSYMS43	NSYMF43
400	200	1	66	6.50	NSYS3D4420P	NSYS3D4420	NSYS3D4420T	NSYMM44	NSYMS44	NSYMF44	
		200	1	66	10.50	NSYS3D4620P	NSYS3D4620	NSYS3D4620T	NSYMM64	NSYMS64	NSYMF64
	250	1	66	12.00	NSYS3D4625P	NSYS3D4625	NSYS3D4625T	NSYMM64	NSYMS64	NSYMF64	
		1	66	7.50	NSYS3D5320P	NSYS3D5320	NSYS3D5320T	NSYMM53	NSYMS53	NSYMF53	
500	300	200	1	66	9.30	NSYS3D5420P	NSYS3D5420	NSYS3D5420T	NSYMM54	NSYMS54	NSYMF54
		250	1	66	10.20	NSYS3D5425P	NSYS3D5425	NSYS3D5425T	NSYMM54	NSYMS54	NSYMF54
	500	200	1	66	11.18	NSYS3D5520P	NSYS3D5520	NSYS3D5520T	NSYMM55	NSYMS55	NSYMF55
		250	1	66	12.06	NSYS3D5525P	NSYS3D5525	NSYS3D5525T	NSYMM55	NSYMS55	NSYMF55
600	400	200	1	66	11.00	NSYS3D6420P	NSYS3D6420	NSYS3D6420T	NSYMM64	NSYMS64	NSYMF64
		250	1	66	12.00	NSYS3D6425P	NSYS3D6425	NSYS3D6425T	NSYMM64	NSYMS64	NSYMF64
	500	250	1	66	16.20	NSYS3D6525P	NSYS3D6525	NSYS3D6525T	NSYMM65	-	NSYMF65
		200	1	66	14.00	NSYS3D6620P	NSYS3D6620	NSYS3D6620T	NSYMM66	NSYMS66	NSYMF66
	600	250	1	66	15.00	NSYS3D6625P	NSYS3D6625	NSYS3D6625T	NSYMM66	NSYMS66	NSYMF66
		300	1	66	17.00	NSYS3D6630P	NSYS3D6630	NSYS3D6630T	NSYMM66	NSYMS66	NSYMF66
	400	1	66	19.00	NSYS3D6640P	NSYS3D6640	NSYS3D6640T	NSYMM66	NSYMS66	NSYMF66	
		300	1	66	25.50	NSYS3D6830P	NSYS3D6830	NSYS3D6830T	NSYMM86	NSYMS86	NSYMF86
700	500	250	1	66	15.00	NSYS3D7525P	NSYS3D7525	NSYS3D7525T	NSYMM75	NSYMS75	NSYMF75
800	600	200	1	66	21.00	NSYS3D8620P	NSYS3D8620	NSYS3D8620T	NSYMM86	NSYMS86	NSYMF86
		250	1	66	23.00	NSYS3D8625P	NSYS3D8625	NSYS3D8625T	NSYMM86	NSYMS86	NSYMF86
	300	1	66	25.00	NSYS3D8630P	NSYS3D8630	NSYS3D8630T	NSYMM86	NSYMS86	NSYMF86	
		1	66	29.00	NSYS3D8640P	NSYS3D8640	NSYS3D8640T	NSYMM86	NSYMS86	NSYMF86	
	800	250	1	66	30.00	NSYS3D8825P	NSYS3D8825	NSYS3D8825T	NSYMM88	-	NSYMF88
		300	1	66	32.00	NSYS3D8830P	NSYS3D8830	NSYS3D8830T	NSYMM88	-	NSYMF88
	1000	300	1	66	38.00	NSYS3D81030P	NSYS3D81030	-	NSYMM108	-	NSYMF108
		300	2	55	43.50	NSYS3D81030DP	NSYS3D81030DP	-	NSYMM108	-	NSYMF108
1200	300	2	55	46.00	NSYS3D81230DP	NSYS3D81230DP	-	NSYMM128	-	NSYMF128	
1000	600	250	1	66	28.00	NSYS3D10625P	NSYS3D10625	NSYS3D10625T	NSYMM106	-	NSYMF106
		300	1	66	30.60	NSYS3D10630P	NSYS3D10630	NSYS3D10630T	NSYMM106	-	NSYMF106
	400	1	66	33.00	NSYS3D10640P	NSYS3D10640	NSYS3D10640T	NSYMM106	-	NSYMF106	
		250	1	66	35.00	NSYS3D10825P	NSYS3D10825	NSYS3D10825T	NSYMM108	-	NSYMF108
	300	1	66	38.00	NSYS3D10830P	NSYS3D10830	NSYS3D10830T	NSYMM108	-	NSYMF108	
		1	66	42.00	NSYS3D10840P	NSYS3D10840	NSYS3D10840T	NSYMM108	-	NSYMF108	
	1000	300	1	66	46.00	NSYS3D101030P	NSYS3D101030	NSYS3D101030T	NSYMM1010	-	NSYMF1010
		300	2	55	46.00	NSYS3D101030DP	NSYS3D101030DP	NSYS3D101030DT	NSYMM1010	-	NSYMF1010
1200	300	2	55	53.00	NSYS3D101230DP	NSYS3D101230DP	-	NSYMM1210	-	NSYMF1210	
		2	55	60.00	NSYS3D101240DP	NSYS3D101240DP	-	NSYMM1210	-	NSYMF1210	
	600	300	1	66	37.00	NSYS3D12630P	NSYS3D12630	NSYS3D12630T	NSYMM126	-	NSYMF126
		400	1	66	42.00	NSYS3D12640P	NSYS3D12640	NSYS3D12640T	NSYMM126	-	NSYMF126
800	300	1	66	45.00	NSYS3D12830P	NSYS3D12830	NSYS3D12830T	NSYMM128	-	NSYMF128	
	400	1	66	49.00	NSYS3D12840P	NSYS3D12840	NSYS3D12840T	NSYMM128	-	NSYMF128	
1000	300	1	66	53.00	NSYS3D121030P	NSYS3D121030	NSYS3D121030T	NSYMM1210	-	NSYMF1210	
		2	55	54.00	NSYS3D121030DP	NSYS3D121030DP	NSYS3D121030DT	NSYMM1210	-	NSYMF1210	
	400	2	55	61.00	NSYS3D121040DP	NSYS3D121040DP	-	NSYMM1210	-	NSYMF1210	
		2	55	64.00	NSYS3D121230DP	NSYS3D121230DP	-	NSYMM1212	-	2 x NSYMF126 +	
1200	300	2	55	90.00	NSYS3D121240DP	NSYS3D121240DP	-	NSYMM1212	-	2 x NSYMF126 +	
1400	1000	300	2	55	80.00	NSYS3D141030DP	NSYS3D141030DP	-	NSYMM1410	-	-

(1) For other dimensions, see our application offer.
 (2) Enclosure without mounting plate.
 (3) In inverted use, the marking is inverted.

Wall-fixing lugs

Steel: **NSYAEFPFC**
 Stainless steel: **NSYAEFPXSC**
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Reinforcement for heavy loads

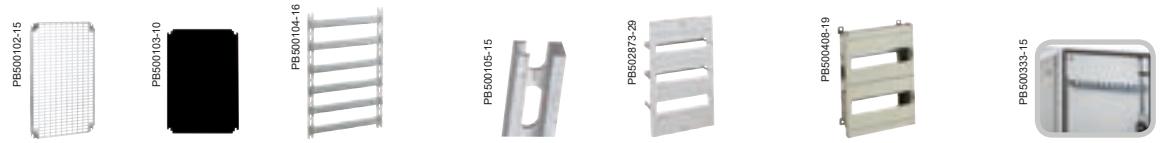
NSYAEFAHLBSC
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Locking accessories

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Selection guide

Steel wall-mounting enclosures



Characteristics			Mounting plate				Modular chassis				
Dimensions (mm)			Telequick	Bakelite	DIN rail chassis	Type	Aluminium vertical rails (4)	Modular chassis		No. of modules	Door cross-rails
H	W	D						DLA Insulated	DLM Steel		
300	200	150	NSYMR32	NSYMB32	-	-	NSYMDVR3	-	-	-	-
		250	NSYMR3025	NSYMB3025	-	-	NSYMDVR3	-	-	-	-
	300	150	NSYMR33	NSYMB33	NSYMD33	B	NSYMDVR3	-	-	-	-
		200	NSYMR33	NSYMB33	NSYMD33	B	NSYMDVR3	-	-	-	-
400	400	150	NSYMR34	NSYMB43	-	-	NSYMDVR3	-	-	-	-
		200	NSYMR34	NSYMB43	-	-	NSYMDVR3	-	-	-	-
	300	150	NSYMR43	NSYMB43	NSYMD43	B	NSYMDVR4	-	NSYDLM24	24	-
		200	NSYMR43	NSYMB43	NSYMD43	B	NSYMDVR4	NSYDLA24G	NSYDLM24	24	-
	400	200	NSYMR44	-	-	-	NSYMDVR4	-	-	-	NSYTFPCR4
		600	200	NSYMR46	NSYMB64	-	-	NSYMDVR4	-	-	-
250	NSYMR46	NSYMB64	-	-	NSYMDVR4	-	-	-	-	NSYTFPCR6	
	500	300	200	NSYMR53	-	-	-	NSYMDVR5	-	-	-
400		200	NSYMR54	NSYMB54	NSYMD54	B	NSYMDVR5	NSYDLA48G	NSYDLM48	48	NSYTFPCR4
		250	NSYMR54	NSYMB54	NSYMD54	B	NSYMDVR5	-	NSYDLM48	48	NSYTFPCR4
500		200	NSYMR55	-	-	-	NSYMDVR5	-	-	-	NSYTFPCR5
	250	NSYMR55	-	-	-	NSYMDVR5	-	-	-	NSYTFPCR5	
600	400	200	NSYMR64	NSYMB64	NSYMD64	B	NSYMDVR6	NSYDLA48PG	NSYDLM48P	48	NSYTFPCR4
		250	NSYMR64	NSYMB64	NSYMD64	B	NSYMDVR6	NSYDLA48PG	NSYDLM48P	48	NSYTFPCR4
	500	250	NSYMR65	NSYMB65	-	-	NSYMDVR6	-	-	-	-
		600	200	NSYMR66	-	NSYMD66	A	NSYMDVR6	-	NSYDLM84P	84
	250		NSYMR66	-	NSYMD66	A	NSYMDVR6	-	NSYDLM84P	84	NSYTFPCR6
	300		NSYMR66	-	NSYMD66	A	NSYMDVR6	-	NSYDLM84P	84	NSYTFPCR6
	400		NSYMR66	-	NSYMD66	A	NSYMDVR6	-	NSYDLM84P	84	NSYTFPCR6
	800	300	NSYMR68	NSYMB86	NSYMD86	A	NSYMDVR6	-	-	-	NSYTFPCR8
700	500	250	NSYMR75	NSYMB75	NSYMD75	B	NSYMDVR7	NSYDLA66G	NSYDLM66	66	NSYTFPCR5
		800	600	200	NSYMR86	NSYMB86	NSYMD86	A	NSYMDVR8	NSYDLA84G/NSYDLA112G	NSYDLM84
250	NSYMR86		NSYMB86	NSYMD86	A	NSYMDVR8	NSYDLA84G/NSYDLA112G	NSYDLM112	112*	NSYTFPCR6	
300	NSYMR86		NSYMB86	NSYMD86	A	NSYMDVR8	NSYDLA84G/NSYDLA112G	NSYDLM112	112*	NSYTFPCR6	
400	NSYMR86		NSYMB86	NSYMD86	A	NSYMDVR8	NSYDLA84G/NSYDLA112G	NSYDLM112	112*	NSYTFPCR6	
800	250	NSYMR88	-	-	-	NSYMDVR8	-	-	-	NSYTFPCR8	
		300	NSYMR88	-	-	-	NSYMDVR8	-	-	-	NSYTFPCR8
1000	300	NSYMR810	NSYMB108	-	-	NSYMDVR8	-	-	-	NSYTFPCR10	
		NSYMR810	NSYMB108	-	-	NSYMDVR8	-	-	-	-	
1200	300	2 x NSYMR86 + 2 x NSYMB86 +		2 x NSYMD86 +	A	NSYMDVR8	-	-	-	-	
1000	600	250	NSYMR106	NSYMB106	-	-	NSYMDVR10	-	NSYDLM168	168	NSYTFPCR6
		300	NSYMR106	NSYMB106	-	-	NSYMDVR10	-	NSYDLM168	168	NSYTFPCR6
		400	NSYMR106	NSYMB106	-	-	NSYMDVR10	-	NSYDLM168	168	NSYTFPCR6
	800	250	NSYMR108	NSYMB108	NSYMD108	A	NSYMDVR10	NSYDLA234G	NSYDLM240	234	NSYTFPCR8
		300	NSYMR108	NSYMB108	NSYMD108	A	NSYMDVR10	NSYDLA234G	NSYDLM240	234	NSYTFPCR8
		400	NSYMR108	NSYMB108	NSYMD108	A	NSYMDVR10	NSYDLA234G	NSYDLM240	234	NSYTFPCR8
1000	300	NSYMR1010 (5)	-	-	-	NSYMDVR10	-	-	-	NSYTFPCR10	
		NSYMR1010 (5)	-	-	-	NSYMDVR10	-	-	-	-	
1200	300	NSYMR1012 (5)	NSYMB1210	-	-	NSYMDVR10	-	-	-	-	
		NSYMR1012 (5)	NSYMB1210	-	-	NSYMDVR10	-	-	-	-	
1200	600	300	-	-	-	NSYMDVR12	-	-	-	-	
		400	-	-	-	NSYMDVR12	-	-	-	-	
	800	300	NSYMR128	-	NSYMD128	A	NSYMDVR12	-	-	-	NSYTFPCR8
		400	NSYMR128	-	NSYMD128	A	NSYMDVR12	-	-	-	NSYTFPCR8
	1000	300	NSYMR1210 (5)	NSYMB1210	-	-	NSYMDVR12	-	-	-	NSYTFPCR10
			NSYMR1210 (5)	NSYMB1210	-	-	NSYMDVR12	-	-	-	-
	400	NSYMR1210 (5)	NSYMB1210	-	-	NSYMDVR12	-	-	-	-	
		NSYMR1210 (5)	NSYMB1210	-	-	NSYMDVR12	-	-	-	-	
1200	300	2 x NSYMR126 +		-	-	NSYMDVR12	-	-	-	-	
		2 x NSYMR126 +		-	-	NSYMDVR12	-	-	-	-	
1400	1000	300	NSYMR1410 (5)	-	-	-	-	-	-	-	

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

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

(5) When width ≥ 1000 ref. **NSYEMR** is mandatory (see on page 73).

* Possible assembling to ref. **NSYDLM84** or **NSYDLM112**.

Door accessories

Pages 280 to 284

Clip-on nuts

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Self-tapping screw

NSYS13M5HS

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Selection guide

for applicative and customised solutions wall-mounting enclosures



Characteristics					Basic enclosures							
					Empty application enclosures				19" enclosure with glazed door (1)			
Dimensions (mm)			No. of doors	IP	S3DB terminal enclosures	S3DBFL terminal enclosures with FL21 cut-out	S3DM modular enclosures with glazed door	VDM steel enclosures with 19" swing rack	No. of U	1-body 19" fixed rack	No. of U	
H	W	D			Page 291	Page 291	Page 295	Page 418		Page 418		
200	300	150	1	66	-	-	-	-	-	-	-	
250	300	150	1	66	NSYS3DB25315	-	-	-	-	-	-	
		400	1	66	NSYS3DB25415	-	-	-	-	-	-	
		500	1	66	NSYS3DB25515	-	-	-	-	-	-	
300	300	150	1	66	NSYS3DB3315	-	-	-	-	-	-	
		170	1	66	-	NSYS3DBFL3317	-	-	-	-	-	
	400	150	1	66	NSYS3DB3415	-	-	-	-	-	-	
		170	1	66	-	NSYS3DBFL3417	-	-	-	-	-	
	500	150	1	66	NSYS3DB3515	-	-	-	-	-	-	
			200	1	66	-	-	-	-	-	-	-
600			1	66	NSYS3DB3615	-	-	-	-	-	-	
400	300	150	1	66	NSYS3DB4315	-	NSYS3DM4315T	-	-	-	-	
		170	1	66	-	NSYS3DBFL4317	-	-	-	-	-	
		600	400	1	66	-	-	-	NSYVDM7U4P	7	NSYVDM8U4F	8
	800	150	1	66	NSYS3DB4815	-	-	-	-	-	-	
			400	1	66	NSYS3DB5415	-	NSYS3DM5415T	-	-	-	-
			600	400	1	66	-	-	-	NSYVDM9U4P	9	NSYVDM10U4F
600	400	150	1	66	NSYS3DB6415	-	NSYS3DM6415T	-	-	-	-	
		600	150	1	66	-	NSYS3DM6615T	-	-	-	-	
		500	1	66	-	-	-	-	-	-	-	
700	500	150	1	66	-	-	-	-	-	-		
		150	1	66	-	-	NSYS3DM7515T	-	-	-		
	600	400	1	66	-	-	-	NSYVDM13U4P	13	NSYVDM14U4F	14	
800	600	150	1	66	-	-	-	-	-	-	-	
		150	1	66	-	-	NSYS3DM8615T	-	-	-		
		400	1	66	-	-	-	NSYVDM16U4P	16	NSYVDM17U4F	17	
		500	1	66	-	-	-	-	-	-		
1000	600	150	1	66	-	-	NSYS3DM10615T	-	-	-		
		800	150	1	66	-	NSYS3DM10815T	-	-	-		

(1) Plain door, please consult us.

Wall-fixing brackets

PB502979-6



Steel: **NSYAEFPFSC**
Stainless steel: **NSYAEFPFXSC**
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Reinforcement for heavy loads

PB502980-10



NSYAEFAHLBSC
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Cable gland

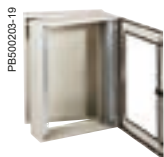
PB50009P-19



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Selection guide

for applicative and customised solutions
wall-mounting enclosures



Characteristics			Basic enclosures 19" enclosure with glazed door (1)		Accessories Electricity distribution		Automatism					
Dimensions (mm)			No. of doors	IP	2 parts with 19" fixed rack	No. of U	Modular mounting chassis (metallic)	No. of modules	DIN rail support and DIN rail	Plain mounting plate	Telequick mounting plate	Aluminium vertical rails
H	W	D			Page 418		Page 296			Page 214	Page 214	Page 219
200	300	150	1	66	-	-	-	-	NSYAMRD2030	NSYMM32	-	-
250	300	150	1	66	-	-	-	-	NSYAMRD2530	NSYMM3025	-	-
	400	150	1	66	-	-	-	-	NSYAMRD2540	NSYMM2540	-	-
	500	150	1	66	-	-	-	-	NSYAMRD2550	NSYMM2550	-	-
300	300	150	1	66	-	-	-	-	NSYAMRD3030	NSYMM33	NSYMR33	NSYMDVR3
		170	1	66	-	-	-	-	NSYAMRD3030	NSYMM33	NSYMR33	-
	400	150	1	66	-	-	-	-	NSYAMRD3040	NSYMM43	NSYMR34	NSYMDVR3
		170	1	66	-	-	-	-	NSYAMRD3040	NSYMM43	NSYMR34	-
	500	150	1	66	-	-	-	-	NSYAMRD3050	NSYMM53	-	NSYMDVR3
		200	1	66	-	-	-	-	NSYAMRD3050	NSYMM53	-	NSYMDVR3
600	300	150	1	66	-	-	-	-	NSYAMRD36	NSYMM36	-	NSYMDVR3
		400	1	66	NSYVD2M5U4	5	-	-	NSYAMRD36	NSYMM36	-	NSYMDVR3
		500	1	66	NSYVD2M5U5	5	-	-	NSYAMRD36	NSYMM36	-	NSYMDVR3
400	300	150	1	66	-	-	NSYDLM24	24	NSYAMRD43	NSYMM43	NSYMR43	NSYMDVR4
		170	1	66	-	-	-	-	NSYAMRD43	NSYMM43	NSYMR43	-
	600	400	1	66	NSYVD2M8U4	8	-	-	-	NSYMM64	NSYMR46	NSYMDVR4
		500	1	66	NSYVD2M8U5	8	-	-	NSYAMRD48	NSYMM64	NSYMR46	NSYMDVR4
	800	150	1	66	-	-	-	-	NSYAMRD54	NSYMM48	-	NSYMDVR4
500	400	150	1	66	-	-	NSYDLM48	48	-	NSYMM54	NSYMR54	NSYMDVR5
		600	1	66	NSYVD2M10U4	10	-	-	-	NSYMM65	-	NSYMDVR5
		500	1	66	NSYVD2M10U5	10	-	-	-	NSYMM65	-	NSYMDVR5
600	400	150	1	66	-	-	NSYDLM48P	48	NSYAMRD64	NSYMM64	NSYMR64	NSYMDVR6
	600	150	1	66	-	-	NSYDLM84P	84	-	NSYMM66	NSYMR66	NSYMDVR6
700	500	150	1	66	-	-	NSYDLM66	66	-	NSYMM75	NSYMR75	NSYMDVR7
		150	1	66	-	-	NSYDLM88	88	-	NSYMM75	NSYMR75	NSYMDVR7
	600	400	1	66	NSYVD2M14U4	14	-	-	-	NSYMM76	NSYMR76	NSYMDVR7
800	600	500	1	66	NSYVD2M14U5	14	-	-	-	NSYMM76	NSYMR76	NSYMDVR7
		150	1	66	-	-	NSYDLM84	84	-	NSYMM86	NSYMR86	NSYMDVR8
		150	1	66	-	-	NSYDLM112	112	-	NSYMM86	NSYMR86	NSYMDVR8
		400	1	66	NSYVD2M17U4	17	-	-	-	NSYMM86	NSYMR86	NSYMDVR8
		500	1	66	NSYVD2M17U5	17	-	-	-	NSYMM86	NSYMR86	NSYMDVR8
1000	600	150	1	66	-	-	NSYDLM168	168	-	NSYMM106	NSYMR106	NSYMDVR10
	800	150	1	66	-	-	NSYDLM240	234	-	NSYMM108	NSYMR108	NSYMDVR10

Other cable entries Page 250

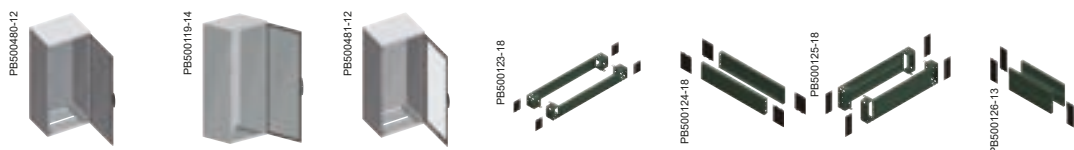
Clip-on nuts Page 248

Self-tapping screw NSYS13M5HS
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Selection guide

Steel floor-standing enclosures

SM



Characteristics			Door			Plinth					
Dimensions (mm)			No. of doors	Plain		Transparent	Height 100 mm		Height 200 mm		
H (A)	W (B)	D (C)		With mounting plate	Without mounting plate	Without mounting plate	Front kit (corners + front panels)	Side panels, 2 u.	Front kit (corners + front panels)	Side panels, 4 u.	
1200	800	300	1	NSYSM12830P	NSYSM12830	-	NSYSPF8100	NSYSPS3100	NSYSPF8200	NSYSPS3200	
	1000	300	2	NSYSM1210302DP	NSYSM1210302D	-	NSYSPF10100	NSYSPS3100	NSYSPF10200	NSYSPS3200	
	1200	400	2	NSYSM1212402DP	NSYSM1212402D	-	NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200	
1400	600	300	1	NSYSM14630P	NSYSM14630	-	NSYSPF6100	NSYSPS3100	NSYSPF6200	NSYSPS3200	
		400	1	NSYSM14640P	NSYSM14640	-	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200	
	800	300	1	NSYSM14830P	NSYSM14830	-	NSYSPF8100	NSYSPS3100	NSYSPF8200	NSYSPS3200	
		400	1	NSYSM14840P	NSYSM14840	NSYSM14840T	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200	
		1000	400	2	NSYSM1410402DP	NSYSM1410402D	-	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200
		1200	400	2	NSYSM1412402DP	NSYSM1412402D	-	NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200
1600	600	300	1	NSYSM16630P	NSYSM16630	-	NSYSPF6100	NSYSPS3100	NSYSPF6200	NSYSPS3200	
		400	1	NSYSM16640P	NSYSM16640	NSYSM16640T	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200	
	800	300	1	NSYSM16830P	NSYSM16830	NSYSM16830T	NSYSPF8100	NSYSPS3100	NSYSPF8200	NSYSPS3200	
		400	1	NSYSM16840P	NSYSM16840	NSYSM16840T	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200	
	1000	300	2	NSYSM1610302DP	NSYSM1610302D	-	NSYSPF10100	NSYSPS3100	NSYSPF10200	NSYSPS3200	
		400	2	NSYSM1610402DP	NSYSM1610402D	-	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200	
	1200	300	2	NSYSM1612302DP	NSYSM1612302D	-	NSYSPF12100	NSYSPS3100	NSYSPF12200	NSYSPS3200	
		400	2	NSYSM1612402DP	NSYSM1612402D	-	NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200	
	1800	600	300	1	NSYSM18630P	NSYSM18630	-	NSYSPF6100	NSYSPS3100	NSYSPF6200	NSYSPS3200
			400	1	NSYSM18640P	NSYSM18640	NSYSM18640T	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200
			500	1	NSYSM18650P	NSYSM18650	-	NSYSPF6100	NSYSPS5100	NSYSPF6200	NSYSPS5200
		800	300	1	NSYSM18830P	NSYSM18830	NSYSM18830T	NSYSPF8100	NSYSPS3100	NSYSPF8200	NSYSPS3200
400			1	NSYSM18840P	NSYSM18840	NSYSM18840T	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200	
500			1	NSYSM18850P	NSYSM18850	NSYSM18850T	NSYSPF8100	NSYSPS5100	NSYSPF8200	NSYSPS5200	
600		300	1	NSYSM18860P	NSYSM18860	-	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	
		400	1	NSYSM181040P	NSYSM181040	-	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200	
		400	2	NSYSM1810402DP	NSYSM1810402D	-	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200	
500		2	NSYSM1810502DP	NSYSM1810502D	-	NSYSPF10100	NSYSPS5100	NSYSPF10200	NSYSPS5200		
		400	2	NSYSM1812402DP	NSYSM1812402D	-	NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200	
		500	2	NSYSM1812502DP	NSYSM1812502D	-	NSYSPF12100	NSYSPS5100	NSYSPF12200	NSYSPS5200	
1600		400	2	NSYSM1816402DP	NSYSM1816402D	-	NSYSPF16100	NSYSPS4100	NSYSPF16200	NSYSPS4200	
		500	2	NSYSM1816502DP	NSYSM1816502D	-	NSYSPF16100	NSYSPS5100	NSYSPF16200	NSYSPS5200	
		600	2	NSYSM1816502DP	NSYSM1816502D	-	NSYSPF16100	NSYSPS6100	NSYSPF16200	NSYSPS6200	
2000		600	300	1	NSYSM20630P	NSYSM20630	-	NSYSPF6100	NSYSPS3100	NSYSPF6200	NSYSPS3200
			400	1	NSYSM20640P	NSYSM20640	NSYSM20640T	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200
			500	1	NSYSM20650P	NSYSM20650	-	NSYSPF6100	NSYSPS5100	NSYSPF6200	NSYSPS5200
	800	300	1	NSYSM20830P	NSYSM20830	NSYSM20830T	NSYSPF8100	NSYSPS3100	NSYSPF8200	NSYSPS3200	
		400	1	NSYSM20840P	NSYSM20840	NSYSM20840T	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200	
		500	1	NSYSM20850P	NSYSM20850	NSYSM20850T	NSYSPF8100	NSYSPS5100	NSYSPF8200	NSYSPS5200	
	600	1	NSYSM20860P	NSYSM20860	NSYSM20860T	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200		
		400	2	NSYSM2010402DP	NSYSM2010402D	-	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200	
		500	2	NSYSM2010502DP	NSYSM2010502D	-	NSYSPF10100	NSYSPS5100	NSYSPF10200	NSYSPS5200	
	1200	400	2	NSYSM2012402DP	NSYSM2012402D	-	NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200	
		500	2	NSYSM2012502DP	NSYSM2012502D	-	NSYSPF12100	NSYSPS5100	NSYSPF12200	NSYSPS5200	
		600	2	NSYSM2012602DP	NSYSM2012602D	-	NSYSPF12100	NSYSPS6100	NSYSPF12200	NSYSPS6200	
1600	400	2	NSYSM2016402DP	NSYSM2016402D	-	NSYSPF16100	NSYSPS4100	NSYSPF16200	NSYSPS4200		
	500	2	NSYSM2016502DP	NSYSM2016502D	-	NSYSPF16100	NSYSPS5100	NSYSPF16200	NSYSPS5200		
	600	2	NSYSM2016602DP	NSYSM2016602D	-	NSYSPF16100	NSYSPS6100	NSYSPF16200	NSYSPS6200		

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Steel floor-standing enclosures

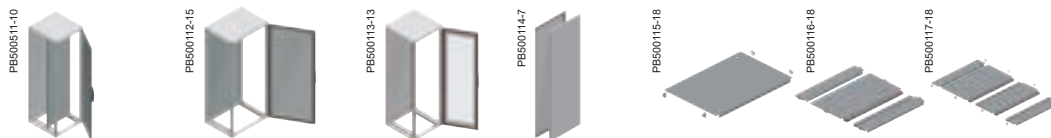
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Characteristics			Inner door	Mounting plate	Vertical uprights		Off-centre 19" swing rack	Centred 19" swing rack		
Dimensions (mm)					No. of doors	Standard			Technical	
H (A)	W (B)	D (C)								
1200	800	300	1	-	NSYMP128	-	NSYTVR12	-	-	
	1000	300	2	-	NSYMP1210	-	NSYTVR12	-	-	
	1200	400	2	-	NSYMP1212	-	NSYTVR12	-	-	
1400	600	300	1	-	NSYMP146	-	NSYTVR14	-	-	
		400	1	-	NSYMP146	-	NSYTVR14	-	-	
	800	300	1	-	NSYMP148	-	NSYTVR14	NSYRSW27	NSYRSWC27	
		400	1	-	NSYMP148	-	NSYTVR14	NSYRSW27	NSYRSWC27	
	1000	400	2	-	NSYMP1410	-	NSYTVR14	-	-	
	1200	400	2	-	NSYMP1412	-	NSYTVR14	-	-	
1600	600	300	1	NSYID166	NSYMP166	-	NSYTVR16	-	-	
		400	1	NSYID166	NSYMP166	-	NSYTVR16	-	-	
	800	300	1	NSYID168	NSYMP168	-	NSYTVR16	NSYRSW31	NSYRSWC31	
		400	1	NSYID168	NSYMP168	-	NSYTVR16	NSYRSW31	NSYRSWC31	
	1000	300	2	-	NSYMP1610	-	NSYTVR16	-	-	
		400	2	-	NSYMP1610	-	NSYTVR16	-	-	
	1200	300	2	-	NSYMP1612	-	NSYTVR16	-	-	
		400	2	-	NSYMP1612	-	NSYTVR16	-	-	
	1800	600	300	1	NSYID186	NSYMP186	NSYVR18	NSYTVR18	-	-
			400	1	NSYID186	NSYMP186	NSYVR18	NSYTVR18	-	-
500			1	NSYID186	NSYMP186	NSYVR18	NSYTVR18	-	-	
800		300	1	NSYID188	NSYMP188	NSYVR18	NSYTVR18	NSYRSW36	NSYRSWC36	
		400	1	NSYID188	NSYMP188	NSYVR18	NSYTVR18	NSYRSW36	NSYRSWC36	
		500	1	NSYID188	NSYMP188	NSYVR18	NSYTVR18	NSYRSW36	NSYRSWC36	
		600	1	NSYID188	NSYMP188	NSYVR18	NSYTVR18	NSYRSW36	NSYRSWC36	
1000		400	1	NSYID1810	NSYMP1810	NSYVR18	NSYTVR18	-	-	
		400	2	NSYID1810	NSYMP1810	NSYVR18	NSYTVR18	-	-	
		500	2	NSYID1810	NSYMP1810	NSYVR18	NSYTVR18	-	-	
1200		400	2	-	NSYMP1812	NSYVR18	NSYTVR18	-	-	
		500	2	-	NSYMP1812	NSYVR18	NSYTVR18	-	-	
1600		400	2	-	NSYMP1816	NSYVR18	NSYTVR18	-	-	
		500	2	-	NSYMP1816	NSYVR18	NSYTVR18	-	-	
2000		600	300	1	NSYID206	NSYMP206	NSYVR20	NSYTVR20	-	-
			400	1	NSYID206	NSYMP206	NSYVR20	NSYTVR20	-	-
			500	1	NSYID206	NSYMP206	NSYVR20	NSYTVR20	-	-
		800	300	1	NSYID208	NSYMP208	NSYVR20	NSYTVR20	NSYRSW40	NSYRSWC40
	400		1	NSYID208	NSYMP208	NSYVR20	NSYTVR20	NSYRSW40	NSYRSWC40	
	500		1	NSYID208	NSYMP208	NSYVR20	NSYTVR20	NSYRSW40	NSYRSWC40	
	600		1	NSYID208	NSYMP208	NSYVR20	NSYTVR20	NSYRSW40	NSYRSWC40	
	1000	400	2	NSYID2010	NSYMP2010	NSYVR20	NSYTVR20	-	-	
		500	2	NSYID2010	NSYMP2010	NSYVR20	NSYTVR20	-	-	
	1200	400	2	-	NSYMP2012	NSYVR20	NSYTVR20	-	-	
		500	2	-	NSYMP2012	NSYVR20	NSYTVR20	-	-	
		600	2	-	NSYMP2012	NSYVR20	NSYTVR20	-	-	
	1600	400	2	-	NSYMP2016	NSYVR20	NSYTVR20	-	-	
		500	2	-	NSYMP2016	NSYVR20	NSYTVR20	-	-	
		600	2	-	NSYMP2016	NSYVR20	NSYTVR20	-	-	

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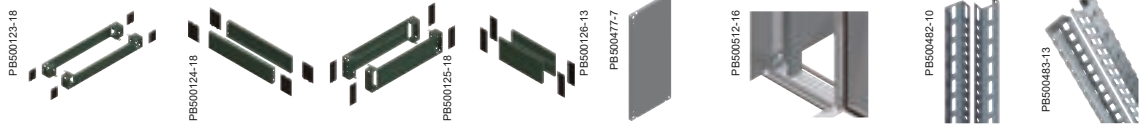
Steel floor-standing enclosures



Nominal dimensions (mm)			No. of doors	Door			Side panels	Cable-entry plate			
Height (A)	Width (B)	Depth (C)		Plain	Transparent	Without mounting plate		Plain	1 entry	2 entries	
				With mounting plate	Without mounting plate	Without mounting plate					
1200	600	400	1	NSYSF12640P	NSYSF12640	-	NSY2SP124	NSYEC64	NSYEC641	-	
		600	1	NSYSF12660P	NSYSF12660	-	NSY2SP126	NSYEC66	NSYEC661	NSYEC662	
	800	400	1	NSYSF12840P	NSYSF12840	-	NSY2SP124	NSYEC84	NSYEC841	-	
1400	600	600	1	NSYSF12860P	NSYSF12860	-	NSY2SP126	NSYEC86	NSYEC861	NSYEC862	
		400	1	NSYSF14640P	NSYSF14640	-	NSY2SP144	NSYEC64	NSYEC641	-	
	800	400	1	NSYSF14840P	NSYSF14840	-	NSY2SP144	NSYEC84	NSYEC841	-	
1600	600	600	1	NSYSF16660P	NSYSF16660	-	NSY2SP166	NSYEC66	NSYEC661	NSYEC662	
		800	1	NSYSF16680P	NSYSF16680	-	NSY2SP168	NSYEC68	NSYEC681	NSYEC682	
	800	600	1	NSYSF16860P	NSYSF16860	-	NSY2SP166	NSYEC86	NSYEC861	NSYEC862	
1800	400	400	1	-	NSYSF18440	-	NSY2SP184	NSYEC44	NSYEC441	-	
		500	1	-	NSYSF18450	-	NSY2SP185	NSYEC45	NSYEC451	-	
		600	1	-	NSYSF18460	-	NSY2SP186	-	NSYEC461	-	
	600	400	1	NSYSF18640P	NSYSF18640	NSYSF18640T	NSY2SP184	NSYEC64	NSYEC641	-	
		500	1	NSYSF18650P	NSYSF18650	NSYSF18650T	NSY2SP185	NSYEC65	NSYEC651	-	
		600	1	NSYSF18660P	NSYSF18660	-	NSY2SP186	NSYEC66	NSYEC661	NSYEC662	
	800	400	1	-	-	NSYSF18680T	NSY2SP188	NSYEC68	NSYEC681	NSYEC682	
		400	1	NSYSF18840P	NSYSF18840	NSYSF18840T	NSY2SP184	NSYEC84	NSYEC841	-	
		500	1	NSYSF18850P	NSYSF18850	NSYSF18850T	NSY2SP185	NSYEC85	NSYEC851	-	
	1000	600	600	1	NSYSF18860P	NSYSF18860	NSYSF18860T	NSY2SP186	NSYEC86	NSYEC861	NSYEC862
			2	NSYSF188602DP	NSYSF188602D	-	NSY2SP186	NSYEC86	NSYEC861	NSYEC862	
			400	1	NSYSF181040P	NSYSF181040	-	NSY2SP184	NSYEC104	NSYEC1041	-
400		400	2	NSYSF1810402DP	NSYSF1810402D	-	NSY2SP184	NSYEC104	NSYEC1041	-	
		500	1	NSYSF181050P	NSYSF181050	-	NSY2SP185	NSYEC105	NSYEC1051	-	
		600	1	NSYSF181060P	NSYSF181060	-	NSY2SP186	NSYEC106	NSYEC1061	NSYEC1062	
1200	600	2	NSYSF1810602DP	NSYSF1810602D	-	NSY2SP186	NSYEC106	NSYEC1061	NSYEC1062		
	400	2	NSYSF1812402DP	NSYSF1812402D	-	NSY2SP184	NSYEC124	NSYEC1241	-		
	500	2	NSYSF1812502DP	NSYSF1812502D	-	NSY2SP185	NSYEC125	NSYEC1251	-		
2000	300	600	2	NSYSF1812602DP	NSYSF1812602D	-	NSY2SP186	NSYEC126	NSYEC1261	NSYEC1262	
		500	1	-	NSYSF20350	-	NSY2SP205	NSYEC35	NSYEC351	-	
		600	1	-	NSYSF20360	-	NSY2SP206	NSYEC36	NSYEC361	-	
	400	800	1	-	NSYSF20380	-	NSY2SP208	-	NSYEC381	-	
		400	1	-	NSYSF20440	-	NSY2SP204	NSYEC44	NSYEC441	-	
		500	1	-	NSYSF20450	-	NSY2SP205	NSYEC45	NSYEC451	-	
	600	600	1	-	NSYSF20460	-	NSY2SP206	NSYEC64	NSYEC641	-	
		800	1	-	NSYSF20480	-	NSY2SP208	NSYEC84	NSYEC841	-	
		400	1	NSYSF20640P	NSYSF20640	NSYSF20640T	NSY2SP204	NSYEC64	NSYEC641	-	
	800	500	1	NSYSF20650P	NSYSF20650	NSYSF20650T	NSY2SP205	NSYEC65	NSYEC651	-	
		600	1	NSYSF20660P	NSYSF20660	-	NSY2SP206	NSYEC66	NSYEC661	NSYEC662	
		800	1	NSYSF20680P	NSYSF20680	-	NSY2SP208	NSYEC68	NSYEC681	NSYEC682	
400		1	NSYSF20840P	NSYSF20840	NSYSF20840T	NSY2SP204	NSYEC84	NSYEC841	-		
500		1	NSYSF20850P	NSYSF20850	NSYSF20850T	NSY2SP205	NSYEC85	NSYEC851	-		
600		1	NSYSF20860P	NSYSF20860	NSYSF20860T	NSY2SP206	NSYEC86	NSYEC861	NSYEC862		
1000	600	2	NSYSF208602DP	NSYSF208602D	-	NSY2SP206	NSYEC86	NSYEC861	NSYEC862		
	800	1	NSYSF20880P	NSYSF20880	NSYSF20880T	NSY2SP208	NSYEC88	NSYEC881	NSYEC882		
	400	1	NSYSF201040P	NSYSF201040	NSYSF201040T	NSY2SP204	NSYEC104	NSYEC1041	-		
	400	2	NSYSF2010402DP	NSYSF2010402D	-	NSY2SP204	NSYEC104	NSYEC1041	-		
	500	1	NSYSF201050P	NSYSF201050	NSYSF201050T	NSY2SP205	NSYEC105	NSYEC1051	-		
	500	2	NSYSF2010502DP	NSYSF2010502D	-	NSY2SP205	NSYEC105	NSYEC1051	-		
1200	600	1	NSYSF201060P	NSYSF201060	NSYSF201060T	NSY2SP206	NSYEC106	NSYEC1061	NSYEC1062		
	600	2	NSYSF2010602DP	NSYSF2010602D	-	NSY2SP206	NSYEC106	NSYEC1061	NSYEC1062		
	800	1	NSYSF201080P	NSYSF201080	-	NSY2SP208	NSYEC108	NSYEC1081	NSYEC1082		
	400	2	NSYSF2012402DP	NSYSF2012402D	-	NSY2SP204	NSYEC124	NSYEC1241	-		
	500	2	NSYSF2012502DP	NSYSF2012502D	-	NSY2SP205	NSYEC125	NSYEC1251	-		
	600	2	NSYSF2012602DP	NSYSF2012602D	-	NSY2SP206	NSYEC126	NSYEC1261	NSYEC1262		
1600	800	2	NSYSF2012802DP	NSYSF2012802D	-	NSY2SP208	NSYEC128	NSYEC1281	NSYEC1282		
	400	2	NSYSF2016402DP	NSYSF2016402D	-	NSY2SP204	NSYEC164	NSYEC1641	-		
	500	2	NSYSF2016502DP	NSYSF2016502D	-	NSY2SP205	NSYEC165	NSYEC1651	-		
	600	2	NSYSF2016602DP	NSYSF2016602D	-	NSY2SP206	NSYEC166	NSYEC1661	NSYEC1662		
	2200	400	600	1	-	NSYSF22460	-	NSY2SP226	-	NSYEC461	-
		600	600	1	NSYSF22660P	NSYSF22660	-	NSY2SP226	NSYEC66	NSYEC661	NSYEC662
800		1	NSYSF22680P	NSYSF22680	-	NSY2SP228	NSYEC68	NSYEC681	NSYEC682		
800	600	1	NSYSF22860P	NSYSF22860	-	NSY2SP226	NSYEC86	NSYEC861	NSYEC862		
	800	1	NSYSF22880P	NSYSF22880	NSYSF22880T	NSY2SP228	NSYEC88	NSYEC881	NSYEC882		
1000	600	1	NSYSF221060P	NSYSF221060	-	NSY2SP226	NSYEC106	NSYEC1061	NSYEC1062		
1200	600	2	NSYSF2212602DP	NSYSF2212602D	-	NSY2SP226	NSYEC126	NSYEC1261	NSYEC1262		
	800	2	NSYSF2212802DP	NSYSF2212802D	-	NSY2SP228	NSYEC128	NSYEC1281	NSYEC1282		

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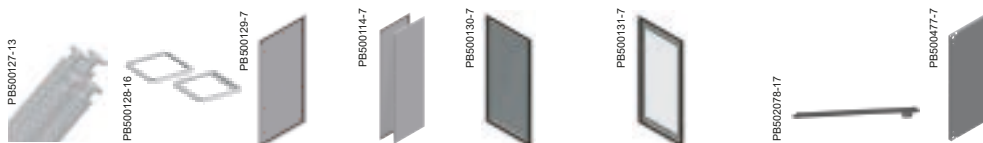
Steel floor-standing enclosures



Nominal dimensions (mm)			Plinth				Mounting plate	Intermediate mounting plate	Vertical uprights	
Height (A)	Width (B)	Depth (C)	Height 100 mm		Height 200 mm				Standard	Technical
			Front kit (corners + front panels)	Side panels, 2 u.	Front kit (corners + front panels)	Side panels, 4 u.				
1200	600	400	NSYSPPF6100	NSYSPPS4100	NSYSPPF6200	NSYSPPS4200	NSYMP126	NSYSIMP12	-	NSYTVR12
		600	NSYSPPF6100	NSYSPPS6100	NSYSPPF6200	NSYSPPS6200	NSYMP126	NSYSIMP12	-	NSYTVR12
		800	NSYSPPF8100	NSYSPPS4100	NSYSPPF8200	NSYSPPS4200	NSYMP128	NSYSIMP12	-	NSYTVR12
	800	400	NSYSPPF8100	NSYSPPS6100	NSYSPPF8200	NSYSPPS6200	NSYMP128	NSYSIMP12	-	NSYTVR12
		600	NSYSPPF8100	NSYSPPS4100	NSYSPPF8200	NSYSPPS4200	NSYMP146	NSYSIMP14	-	NSYTVR14
		800	NSYSPPF8100	NSYSPPS4100	NSYSPPF8200	NSYSPPS4200	NSYMP148	NSYSIMP14	-	NSYTVR14
1400	600	400	NSYSPPF6100	NSYSPPS4100	NSYSPPF6200	NSYSPPS4200	NSYMP146	NSYSIMP14	-	NSYTVR14
		600	NSYSPPF8100	NSYSPPS4100	NSYSPPF8200	NSYSPPS4200	NSYMP148	NSYSIMP14	-	NSYTVR14
		800	NSYSPPF8100	NSYSPPS4100	NSYSPPF8200	NSYSPPS4200	NSYMP148	NSYSIMP14	-	NSYTVR14
	800	400	NSYSPPF6100	NSYSPPS6100	NSYSPPF6200	NSYSPPS6200	NSYMP166	NSYSIMP16	-	NSYTVR16
		600	NSYSPPF6100	NSYSPPS8100	NSYSPPF6200	NSYSPPS8200	NSYMP166	NSYSIMP16	-	NSYTVR16
		800	NSYSPPF8100	NSYSPPS6100	NSYSPPF8200	NSYSPPS6200	NSYMP168	NSYSIMP16	-	NSYTVR16
1600	600	400	NSYSPPF6100	NSYSPPS4100	NSYSPPF6200	NSYSPPS4200	-	-	NSYVVR18	NSYTVR18
		600	NSYSPPF6100	NSYSPPS6100	NSYSPPF6200	NSYSPPS6200	-	-	NSYVVR18	NSYTVR18
		800	NSYSPPF8100	NSYSPPS4100	NSYSPPF8200	NSYSPPS4200	-	-	NSYVVR18	NSYTVR18
		400	NSYSPPF6100	NSYSPPS6100	NSYSPPF6200	NSYSPPS6200	-	-	NSYVVR18	NSYTVR18
		600	NSYSPPF6100	NSYSPPS8100	NSYSPPF6200	NSYSPPS8200	-	-	NSYVVR18	NSYTVR18
		800	NSYSPPF8100	NSYSPPS6100	NSYSPPF8200	NSYSPPS6200	-	-	NSYVVR18	NSYTVR18
	800	400	NSYSPPF6100	NSYSPPS4100	NSYSPPF6200	NSYSPPS4200	NSYMP186	NSYSIMP18	NSYVVR18	NSYTVR18
		600	NSYSPPF6100	NSYSPPS6100	NSYSPPF6200	NSYSPPS6200	NSYMP186	NSYSIMP18	NSYVVR18	NSYTVR18
		800	NSYSPPF8100	NSYSPPS4100	NSYSPPF8200	NSYSPPS4200	NSYMP186	NSYSIMP18	NSYVVR18	NSYTVR18
		400	NSYSPPF6100	NSYSPPS6100	NSYSPPF6200	NSYSPPS6200	NSYMP186	NSYSIMP18	NSYVVR18	NSYTVR18
		600	NSYSPPF6100	NSYSPPS8100	NSYSPPF6200	NSYSPPS8200	NSYMP186	NSYSIMP18	NSYVVR18	NSYTVR18
		800	NSYSPPF8100	NSYSPPS6100	NSYSPPF8200	NSYSPPS6200	NSYMP188	NSYSIMP18	NSYVVR18	NSYTVR18
	1000	400	NSYSPPF8100	NSYSPPS4100	NSYSPPF8200	NSYSPPS4200	NSYMP188	NSYSIMP18	NSYVVR18	NSYTVR18
		600	NSYSPPF8100	NSYSPPS6100	NSYSPPF8200	NSYSPPS6200	NSYMP188	NSYSIMP18	NSYVVR18	NSYTVR18
		800	NSYSPPF8100	NSYSPPS4100	NSYSPPF8200	NSYSPPS4200	NSYMP188	NSYSIMP18	NSYVVR18	NSYTVR18
		400	NSYSPPF6100	NSYSPPS6100	NSYSPPF6200	NSYSPPS6200	NSYMP188	NSYSIMP18	NSYVVR18	NSYTVR18
		600	NSYSPPF6100	NSYSPPS8100	NSYSPPF6200	NSYSPPS8200	NSYMP188	NSYSIMP18	NSYVVR18	NSYTVR18
		800	NSYSPPF8100	NSYSPPS6100	NSYSPPF8200	NSYSPPS6200	NSYMP188	NSYSIMP18	NSYVVR18	NSYTVR18
1200	400	NSYSPPF10100	NSYSPPS4100	NSYSPPF10200	NSYSPPS4200	NSYMP1810	NSYSIMP18	NSYVVR18	NSYTVR18	
	600	NSYSPPF10100	NSYSPPS4100	NSYSPPF10200	NSYSPPS4200	NSYMP1810	NSYSIMP18	NSYVVR18	NSYTVR18	
	800	NSYSPPF10100	NSYSPPS4100	NSYSPPF10200	NSYSPPS4200	NSYMP1810	NSYSIMP18	NSYVVR18	NSYTVR18	
	400	NSYSPPF6100	NSYSPPS6100	NSYSPPF6200	NSYSPPS6200	NSYMP1810	NSYSIMP18	NSYVVR18	NSYTVR18	
	600	NSYSPPF6100	NSYSPPS8100	NSYSPPF6200	NSYSPPS8200	NSYMP1810	NSYSIMP18	NSYVVR18	NSYTVR18	
	800	NSYSPPF8100	NSYSPPS6100	NSYSPPF8200	NSYSPPS6200	NSYMP1810	NSYSIMP18	NSYVVR18	NSYTVR18	
2000	300	400	NSYSPPF12100	NSYSPPS4100	NSYSPPF12200	NSYSPPS4200	NSYMP1812	NSYSIMP18	NSYVVR18	NSYTVR18
		600	NSYSPPF12100	NSYSPPS4100	NSYSPPF12200	NSYSPPS4200	NSYMP1812	NSYSIMP18	NSYVVR18	NSYTVR18
		800	NSYSPPF12100	NSYSPPS4100	NSYSPPF12200	NSYSPPS4200	NSYMP1812	NSYSIMP18	NSYVVR18	NSYTVR18
		400	NSYSPPF6100	NSYSPPS6100	NSYSPPF6200	NSYSPPS6200	NSYMP1812	NSYSIMP18	NSYVVR18	NSYTVR18
		600	NSYSPPF6100	NSYSPPS8100	NSYSPPF6200	NSYSPPS8200	NSYMP1812	NSYSIMP18	NSYVVR18	NSYTVR18
		800	NSYSPPF8100	NSYSPPS6100	NSYSPPF8200	NSYSPPS6200	NSYMP1812	NSYSIMP18	NSYVVR18	NSYTVR18
	400	400	NSYSPPF3100	NSYSPPS5100	NSYSPPF3200	NSYSPPS5200	-	-	NSYVVR20	NSYTVR20
		600	NSYSPPF3100	NSYSPPS6100	NSYSPPF3200	NSYSPPS6200	-	-	NSYVVR20	NSYTVR20
		800	NSYSPPF3100	NSYSPPS8100	NSYSPPF3200	NSYSPPS8200	-	-	NSYVVR20	NSYTVR20
		400	NSYSPPF4100	NSYSPPS4100	NSYSPPF4200	NSYSPPS4200	-	-	NSYVVR20	NSYTVR20
		600	NSYSPPF4100	NSYSPPS5100	NSYSPPF4200	NSYSPPS5200	-	-	NSYVVR20	NSYTVR20
		800	NSYSPPF4100	NSYSPPS6100	NSYSPPF4200	NSYSPPS6200	-	-	NSYVVR20	NSYTVR20
	600	400	NSYSPPF4100	NSYSPPS8100	NSYSPPF4200	NSYSPPS8200	-	-	NSYVVR20	NSYTVR20
		600	NSYSPPF6100	NSYSPPS4100	NSYSPPF6200	NSYSPPS4200	NSYMP206	NSYSIMP20	NSYVVR20	NSYTVR20
		800	NSYSPPF6100	NSYSPPS5100	NSYSPPF6200	NSYSPPS5200	NSYMP206	NSYSIMP20	NSYVVR20	NSYTVR20
		400	NSYSPPF6100	NSYSPPS6100	NSYSPPF6200	NSYSPPS6200	NSYMP206	NSYSIMP20	NSYVVR20	NSYTVR20
		600	NSYSPPF6100	NSYSPPS8100	NSYSPPF6200	NSYSPPS8200	NSYMP206	NSYSIMP20	NSYVVR20	NSYTVR20
		800	NSYSPPF8100	NSYSPPS4100	NSYSPPF8200	NSYSPPS4200	NSYMP208	NSYSIMP20	NSYVVR20	NSYTVR20
800	400	NSYSPPF8100	NSYSPPS5100	NSYSPPF8200	NSYSPPS5200	NSYMP208	NSYSIMP20	NSYVVR20	NSYTVR20	
	600	NSYSPPF8100	NSYSPPS6100	NSYSPPF8200	NSYSPPS6200	NSYMP208	NSYSIMP20	NSYVVR20	NSYTVR20	
	800	NSYSPPF8100	NSYSPPS6100	NSYSPPF8200	NSYSPPS6200	NSYMP208	NSYSIMP20	NSYVVR20	NSYTVR20	
	400	NSYSPPF8100	NSYSPPS8100	NSYSPPF8200	NSYSPPS8200	NSYMP208	NSYSIMP20	NSYVVR20	NSYTVR20	
	600	NSYSPPF8100	NSYSPPS4100	NSYSPPF8200	NSYSPPS4200	NSYMP208	NSYSIMP20	NSYVVR20	NSYTVR20	
	800	NSYSPPF8100	NSYSPPS5100	NSYSPPF8200	NSYSPPS5200	NSYMP208	NSYSIMP20	NSYVVR20	NSYTVR20	
1000	400	NSYSPPF8100	NSYSPPS6100	NSYSPPF8200	NSYSPPS6200	NSYMP208	NSYSIMP20	NSYVVR20	NSYTVR20	
	600	NSYSPPF8100	NSYSPPS8100	NSYSPPF8200	NSYSPPS8200	NSYMP208	NSYSIMP20	NSYVVR20	NSYTVR20	
	800	NSYSPPF8100	NSYSPPS4100	NSYSPPF8200	NSYSPPS4200	NSYMP208	NSYSIMP20	NSYVVR20	NSYTVR20	
	400	NSYSPPF10100	NSYSPPS4100	NSYSPPF10200	NSYSPPS4200	NSYMP2010	NSYSIMP20	NSYVVR20	NSYTVR20	
	600	NSYSPPF10100	NSYSPPS5100	NSYSPPF10200	NSYSPPS5200	NSYMP2010	NSYSIMP20	NSYVVR20	NSYTVR20	
	800	NSYSPPF10100	NSYSPPS6100	NSYSPPF10200	NSYSPPS6200	NSYMP2010	NSYSIMP20	NSYVVR20	NSYTVR20	
1200	400	NSYSPPF10100	NSYSPPS8100	NSYSPPF10200	NSYSPPS8200	NSYMP2010	NSYSIMP20	NSYVVR20	NSYTVR20	
	600	NSYSPPF10100	NSYSPPS4100	NSYSPPF10200	NSYSPPS4200	NSYMP2010	NSYSIMP20	NSYVVR20	NSYTVR20	
	800	NSYSPPF10100	NSYSPPS5100	NSYSPPF10200	NSYSPPS5200	NSYMP2010	NSYSIMP20	NSYVVR20	NSYTVR20	
	400	NSYSPPF6100	NSYSPPS6100	NSYSPPF6200	NSYSPPS6200	NSYMP2010	NSYSIMP20	NSYVVR20	NSYTVR20	
	600	NSYSPPF6100	NSYSPPS8100	NSYSPPF6200	NSYSPPS8200	NSYMP2010	NSYSIMP20	NSYVVR20	NSYTVR20	
	800	NSYSPPF8100	NSYSPPS4100	NSYSPPF8200	NSYSPPS4200	NSYMP2010	NSYSIMP20	NSYVVR20	NSYTVR20	
1600	400	NSYSPPF12100	NSYSPPS4100	NSYSPPF12200	NSYSPPS4200	NSYMP2012	NSYSIMP20	NSYVVR20	NSYTVR20	
	600	NSYSPPF12100	NSYSPPS5100	NSYSPPF12200	NSYSPPS5200	NSYMP2012	NSYSIMP20	NSYVVR20	NSYTVR20	
	800	NSYSPPF12100	NSYSPPS6100	NSYSPPF12200	NSYSPPS6200	NSYMP2012	NSYSIMP20	NSYVVR20	NSYTVR20	
	400	NSYSPPF16100	NSYSPPS4100	NSYSPPF16200	NSYSPPS4200	NSYMP2016	NSYSIMP20	NSYVVR20	NSYTVR20	
	600	NSYSPPF16100	NSYSPPS5100	NSYSPPF16200	NSYSPPS5200	NSYMP2016	NSYSIMP20	NSYVVR20	NSYTVR20	
	800	NSYSPPF16100	NSYSPPS6100	NSYSPPF16200	NSYSPPS6200	NSYMP2016	NSYSIMP20	NSYVVR20	NSYTVR20	
2200	400	600	NSYSPPF4100	NSYSPPS6100	NSYSPPF4200	NSYSPPS6200	-	-	NSYVVR22	NSYTVR22
		800	NSYSPPF6100	NSYSPPS6100	NSYSPPF6200	NSYSPPS6200	NSYMP226	NSYSIMP22	NSYVVR22	NSYTVR22
		800	NSYSPPF6100	NSYSPPS8100	NSYSPPF6200	NSYSPPS8200	NSYMP226	NSYSIMP22	NSYVVR22	NSYTVR22
	800	600	NSYSPPF8100	NSYSPPS6100	NSYSPPF8200	NSYSPPS6200	NSYMP228	NSYSIMP22	NSYVVR22	NSYTVR22
		800	NSYSPPF8100	NSYSPPS8100	NSYSPPF8200	NSYSPPS8200	NSYMP228	NSYSIMP22	NSYVVR22	NSYTVR22
		1000	NSYSPPF10100	NSYSPPS6100	NSYSPPF10200	NSYSPPS6200	NSYMP2210	NSYSIMP22	NSYVVR22	NSYTVR22
1200	600	NSYSPPF12100	NSYSPPS6100	NSYSPPF12200	NSYSPPS6200	NSYMP2212	NSYSIMP22	NSYVVR22	NSYTVR22	
	800	NSYSPPF12100	NSYSPPS8100	NSYSPPF12200	NSYSPPS8200	NSYMP2212	NSYSIMP22	NSYVVR22	NSYTVR22	

Selection guide

Steel floor-standing enclosures

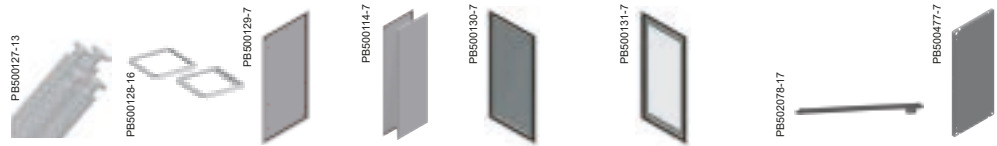


Nominal dimensions (mm)			No. of doors	Vertical uprights	Bottom frame and top frame with roof	Rear panel	Side panels	Plain door (1)	Transparent door (Securit® glass) (1)	Door Trim plate	Mounting plate	
Height (A)	Width (B)	Depth (C)										
1200	600	400	1	NSYSFV12	NSYSFC64	NSYBP126	NSY2SP124	NSYSFD126	NSYSFD126T	NSYTRIM6SF	NSYMP126	
		500	1	NSYSFV12	NSYSFC65	NSYBP126	NSY2SP125	NSYSFD126	NSYSFD126T	NSYTRIM6SF	NSYMP126	
		600	1	NSYSFV12	NSYSFC66	NSYBP126	NSY2SP126	NSYSFD126	NSYSFD126T	NSYTRIM6SF	NSYMP126	
		800	1	NSYSFV12	NSYSFC68	NSYBP126	NSY2SP128	NSYSFD126	NSYSFD126T	NSYTRIM6SF	NSYMP126	
	800	400	1	NSYSFV12	NSYSFC84	NSYBP128	NSY2SP124	NSYSFD128	NSYSFD128T	NSYTRIM8SF	NSYMP128	
		500	1	NSYSFV12	NSYSFC85	NSYBP128	NSY2SP125	NSYSFD128	NSYSFD128T	NSYTRIM8SF	NSYMP128	
		600	1	NSYSFV12	NSYSFC86	NSYBP128	NSY2SP126	NSYSFD128	NSYSFD128T	NSYTRIM8SF	NSYMP128	
		800	1	NSYSFV12	NSYSFC88	NSYBP128	NSY2SP128	NSYSFD128	NSYSFD128T	NSYTRIM8SF	NSYMP128	
	1400	600	400	1	NSYSFV14	NSYSFC64	NSYBP146	NSY2SP144	NSYSFD146	NSYSFD146T	NSYTRIM6SF	NSYMP146
			500	1	NSYSFV14	NSYSFC65	NSYBP146	NSY2SP145	NSYSFD146	NSYSFD146T	NSYTRIM6SF	NSYMP146
			600	1	NSYSFV14	NSYSFC66	NSYBP146	NSY2SP146	NSYSFD146	NSYSFD146T	NSYTRIM6SF	NSYMP146
			800	1	NSYSFV14	NSYSFC68	NSYBP146	NSY2SP148	NSYSFD146	NSYSFD146T	NSYTRIM6SF	NSYMP146
800		400	1	NSYSFV14	NSYSFC84	NSYBP148	NSY2SP144	NSYSFD148	NSYSFD148T	NSYTRIM8SF	NSYMP148	
		500	1	NSYSFV14	NSYSFC85	NSYBP148	NSY2SP145	NSYSFD148	NSYSFD148T	NSYTRIM8SF	NSYMP148	
		600	1	NSYSFV14	NSYSFC86	NSYBP148	NSY2SP146	NSYSFD148	NSYSFD148T	NSYTRIM8SF	NSYMP148	
		800	1	NSYSFV14	NSYSFC88	NSYBP148	NSY2SP148	NSYSFD148	NSYSFD148T	NSYTRIM8SF	NSYMP148	
1600	600	400	1	NSYSFV16	NSYSFC64	NSYBP166	NSY2SP164	NSYSFD166	NSYSFD166T	NSYTRIM6SF	NSYMP166	
		500	1	NSYSFV16	NSYSFC65	NSYBP166	NSY2SP165	NSYSFD166	NSYSFD166T	NSYTRIM6SF	NSYMP166	
		600	1	NSYSFV16	NSYSFC66	NSYBP166	NSY2SP166	NSYSFD166	NSYSFD166T	NSYTRIM6SF	NSYMP166	
		800	1	NSYSFV16	NSYSFC68	NSYBP166	NSY2SP168	NSYSFD166	NSYSFD166T	NSYTRIM6SF	NSYMP166	
	800	400	1	NSYSFV16	NSYSFC84	NSYBP168	NSY2SP164	NSYSFD168	NSYSFD168T	NSYTRIM8SF	NSYMP168	
		500	1	NSYSFV16	NSYSFC85	NSYBP168	NSY2SP165	NSYSFD168	NSYSFD168T	NSYTRIM8SF	NSYMP168	
		600	1	NSYSFV16	NSYSFC86	NSYBP168	NSY2SP166	NSYSFD168	NSYSFD168T	NSYTRIM8SF	NSYMP168	
		800	1	NSYSFV16	NSYSFC88	NSYBP168	NSY2SP168	NSYSFD168	NSYSFD168T	NSYTRIM8SF	NSYMP168	
	1800	400	400	1	NSYSFV18	NSYSFC44	NSYBP184	NSY2SP184	NSYSFD184	-	NSYTRIM4SF	-
			500	1	NSYSFV18	NSYSFC45	NSYBP184	NSY2SP185	NSYSFD184	-	NSYTRIM4SF	-
			600	1	NSYSFV18	NSYSFC46	NSYBP184	NSY2SP186	NSYSFD184	-	NSYTRIM4SF	-
			800	1	NSYSFV18	NSYSFC48	NSYBP184	NSY2SP188	NSYSFD184	-	NSYTRIM4SF	-
600		400	1	NSYSFV18	NSYSFC64	NSYBP186	NSY2SP184	NSYSFD186	NSYSFD186T	NSYTRIM6SF	NSYMP186	
		500	1	NSYSFV18	NSYSFC65	NSYBP186	NSY2SP185	NSYSFD186	NSYSFD186T	NSYTRIM6SF	NSYMP186	
		600	1	NSYSFV18	NSYSFC66	NSYBP186	NSY2SP186	NSYSFD186	NSYSFD186T	NSYTRIM6SF	NSYMP186	
		800	1	NSYSFV18	NSYSFC68	NSYBP186	NSY2SP188	NSYSFD186	NSYSFD186T	NSYTRIM6SF	NSYMP186	
800		400	1	NSYSFV18	NSYSFC84	NSYBP188	NSY2SP184	NSYSFD188	NSYSFD188T	NSYTRIM8SF	NSYMP188	
		500	1	NSYSFV18	NSYSFC85	NSYBP188	NSY2SP185	NSYSFD188	NSYSFD188T	NSYTRIM8SF	NSYMP188	
		600	1	NSYSFV18	NSYSFC86	NSYBP188	NSY2SP186	NSYSFD188	NSYSFD188T	NSYTRIM8SF	NSYMP188	
		800	2	NSYSFV18	NSYSFC86	NSYBP188	NSY2SP186	NSYSFD1882D	-	NSYTRIM8SF2D	NSYMP188	
1000	400	400	1	NSYSFV18	NSYSFC88	NSYBP188	NSY2SP188	NSYSFD188	NSYSFD188T	NSYTRIM8SF	NSYMP188	
		800	2	NSYSFV18	NSYSFC88	NSYBP188	NSY2SP188	NSYSFD1882D	-	NSYTRIM8SF2D	NSYMP188	
	1200	400	1	NSYSFV18	NSYSFC104	NSYBP1810	NSY2SP184	NSYSFD1810	NSYSFD1810T	NSYTRIM10SF	NSYMP1810	
		400	2	NSYSFV18	NSYSFC104	NSYBP1810	NSY2SP184	NSYSFD18102D	-	NSYTRIM10SF2D	NSYMP1810	
1200	500	1	NSYSFV18	NSYSFC105	NSYBP1810	NSY2SP185	NSYSFD1810	NSYSFD1810T	NSYTRIM10SF	NSYMP1810		
		1	NSYSFV18	NSYSFC106	NSYBP1810	NSY2SP186	NSYSFD1810	NSYSFD1810T	NSYTRIM10SF	NSYMP1810		
	600	2	NSYSFV18	NSYSFC106	NSYBP1810	NSY2SP186	NSYSFD18102D	-	NSYTRIM10SF2D	NSYMP1810		
		1	NSYSFV18	NSYSFC108	NSYBP1810	NSY2SP188	NSYSFD1810	NSYSFD1810T	NSYTRIM10SF	NSYMP1810		
	800	2	NSYSFV18	NSYSFC108	NSYBP1810	NSY2SP188	NSYSFD18102D	-	NSYTRIM10SF2D	NSYMP1810		
		400	2	NSYSFV18	NSYSFC124	NSYBP1812	NSY2SP184	NSYSFD18122D	NSYSFD18122DT	NSYTRIM12SF2D	NSYMP1812	
	500	2	NSYSFV18	NSYSFC125	NSYBP1812	NSY2SP185	NSYSFD18122D	NSYSFD18122DT	NSYTRIM12SF2D	NSYMP1812		
		600	2	NSYSFV18	NSYSFC126	NSYBP1812	NSY2SP186	NSYSFD18122D	NSYSFD18122DT	NSYTRIM12SF2D	NSYMP1812	
800	2	NSYSFV18	NSYSFC128	NSYBP1812	NSY2SP188	NSYSFD18122D	NSYSFD18122DT	NSYTRIM12SF2D	NSYMP1812			

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

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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)	Door Trim plate	Mounting plate
Height (A)	Width (B)	Depth (C)									
2000	300	500	1	NSYSFV20	NSYSFC35	NSYBP203	NSY2SP205	NSYSFD203	-	NSYTRIM3SF	-
		600	1	NSYSFV20	NSYSFC36	NSYBP203	NSY2SP206	NSYSFD203	-	NSYTRIM3SF	-
		800	1	NSYSFV20	NSYSFC38	NSYBP203	NSY2SP208	NSYSFD203	-	NSYTRIM3SF	-
	400	400	1	NSYSFV20	NSYSFC44	NSYBP204	NSY2SP204	NSYSFD204	-	NSYTRIM4SF	-
		500	1	NSYSFV20	NSYSFC45	NSYBP204	NSY2SP205	NSYSFD204	-	NSYTRIM4SF	-
		600	1	NSYSFV20	NSYSFC46	NSYBP204	NSY2SP206	NSYSFD204	-	NSYTRIM4SF	-
		800	1	NSYSFV20	NSYSFC48	NSYBP204	NSY2SP208	NSYSFD204	-	NSYTRIM4SF	-
	600	400	1	NSYSFV20	NSYSFC64	NSYBP206	NSY2SP204	NSYSFD206	NSYSFD206T	NSYTRIM6SF	NSYMP206
		500	1	NSYSFV20	NSYSFC65	NSYBP206	NSY2SP205	NSYSFD206	NSYSFD206T	NSYTRIM6SF	NSYMP206
		600	1	NSYSFV20	NSYSFC66	NSYBP206	NSY2SP206	NSYSFD206	NSYSFD206T	NSYTRIM6SF	NSYMP206
		800	1	NSYSFV20	NSYSFC68	NSYBP206	NSY2SP208	NSYSFD206	NSYSFD206T	NSYTRIM6SF	NSYMP206
	800	400	1	NSYSFV20	NSYSFC84	NSYBP208	NSY2SP204	NSYSFD208	NSYSFD208T	NSYTRIM8SF	NSYMP208
		500	1	NSYSFV20	NSYSFC85	NSYBP208	NSY2SP205	NSYSFD208	NSYSFD208T	NSYTRIM8SF	NSYMP208
		600	1	NSYSFV20	NSYSFC86	NSYBP208	NSY2SP206	NSYSFD208	NSYSFD208T	NSYTRIM8SF	NSYMP208
		600	2	NSYSFV20	NSYSFC86	NSYBP208	NSY2SP206	NSYSFD2082D	-	NSYTRIM8SF2D	NSYMP208
		800	1	NSYSFV20	NSYSFC88	NSYBP208	NSY2SP208	NSYSFD208	NSYSFD208T	NSYTRIM8SF	NSYMP208
		800	2	NSYSFV20	NSYSFC88	NSYBP208	NSY2SP208	NSYSFD2082D	-	NSYTRIM8SF2D	NSYMP208
	1000	400	1	NSYSFV20	NSYSFC104	NSYBP2010	NSY2SP204	NSYSFD2010	NSYSFD2010T	NSYTRIM10SF	NSYMP2010
		400	2	NSYSFV20	NSYSFC104	NSYBP2010	NSY2SP204	NSYSFD20102D	-	NSYTRIM10SF2D	NSYMP2010
		500	1	NSYSFV20	NSYSFC105	NSYBP2010	NSY2SP205	NSYSFD2010	NSYSFD2010T	NSYTRIM10SF	NSYMP2010
		500	2	NSYSFV20	NSYSFC105	NSYBP2010	NSY2SP205	NSYSFD20102D	-	NSYTRIM10SF2D	NSYMP2010
		600	1	NSYSFV20	NSYSFC106	NSYBP2010	NSY2SP206	NSYSFD2010	NSYSFD2010T	NSYTRIM10SF	NSYMP2010
		600	2	NSYSFV20	NSYSFC106	NSYBP2010	NSY2SP206	NSYSFD20102D	-	NSYTRIM10SF2D	NSYMP2010
		800	1	NSYSFV20	NSYSFC108	NSYBP2010	NSY2SP208	NSYSFD2010	NSYSFD2010T	NSYTRIM10SF	NSYMP2010
800		2	NSYSFV20	NSYSFC108	NSYBP2010	NSY2SP208	NSYSFD20102D	-	NSYTRIM10SF2D	NSYMP2010	
1200	400	2	NSYSFV20	NSYSFC124	NSYBP2012	NSY2SP204	NSYSFD20122D	NSYSFD20122DT	NSYTRIM12SF2D	NSYMP2012	
	500	2	NSYSFV20	NSYSFC125	NSYBP2012	NSY2SP205	NSYSFD20122D	NSYSFD20122DT	NSYTRIM12SF2D	NSYMP2012	
	600	2	NSYSFV20	NSYSFC126	NSYBP2012	NSY2SP206	NSYSFD20122D	NSYSFD20122DT	NSYTRIM12SF2D	NSYMP2012	
	800	2	NSYSFV20	NSYSFC128	NSYBP2012	NSY2SP208	NSYSFD20122D	NSYSFD20122DT	NSYTRIM12SF2D	NSYMP2012	
1600	400	2	NSYSFV20	NSYSFC164	NSYBP2016	NSY2SP204	NSYSFD20162D	-	NSYTRIM16SF2D	NSYMP2016	
	500	2	NSYSFV20	NSYSFC165	NSYBP2016	NSY2SP205	NSYSFD20162D	-	NSYTRIM16SF2D	NSYMP2016	
	600	2	NSYSFV20	NSYSFC166	NSYBP2016	NSY2SP206	NSYSFD20162D	-	NSYTRIM16SF2D	NSYMP2016	
2200	400	400	1	NSYSFV22	NSYSFC44	NSYBP224	NSY2SP224	NSYSFD224	-	NSYTRIM4SF	-
		500	1	NSYSFV22	NSYSFC45	NSYBP224	NSY2SP225	NSYSFD224	-	NSYTRIM4SF	-
		600	1	NSYSFV22	NSYSFC46	NSYBP224	NSY2SP226	NSYSFD224	-	NSYTRIM4SF	-
		800	1	NSYSFV22	NSYSFC48	NSYBP224	NSY2SP228	NSYSFD224	-	NSYTRIM4SF	-
	600	400	1	NSYSFV22	NSYSFC64	NSYBP226	NSY2SP224	NSYSFD226	NSYSFD226T	NSYTRIM6SF	NSYMP226
		500	1	NSYSFV22	NSYSFC65	NSYBP226	NSY2SP225	NSYSFD226	NSYSFD226T	NSYTRIM6SF	NSYMP226
		600	1	NSYSFV22	NSYSFC66	NSYBP226	NSY2SP226	NSYSFD226	NSYSFD226T	NSYTRIM6SF	NSYMP226
		800	1	NSYSFV22	NSYSFC68	NSYBP226	NSY2SP228	NSYSFD226	NSYSFD226T	NSYTRIM6SF	NSYMP226
	800	400	1	NSYSFV22	NSYSFC84	NSYBP228	NSY2SP224	NSYSFD228	NSYSFD228T	NSYTRIM8SF	NSYMP228
		500	1	NSYSFV22	NSYSFC85	NSYBP228	NSY2SP225	NSYSFD228	NSYSFD228T	NSYTRIM8SF	NSYMP228
		600	1	NSYSFV22	NSYSFC86	NSYBP228	NSY2SP226	NSYSFD228	NSYSFD228T	NSYTRIM8SF	NSYMP228
		800	1	NSYSFV22	NSYSFC88	NSYBP228	NSY2SP228	NSYSFD228	NSYSFD228T	NSYTRIM8SF	NSYMP228
	1000	400	1	NSYSFV22	NSYSFC104	NSYBP2210	NSY2SP224	NSYSFD2210	NSYSFD2210T	NSYTRIM10SF	NSYMP2210
		500	1	NSYSFV22	NSYSFC105	NSYBP2210	NSY2SP225	NSYSFD2210	NSYSFD2210T	NSYTRIM10SF	NSYMP2210
		600	1	NSYSFV22	NSYSFC106	NSYBP2210	NSY2SP226	NSYSFD2210	NSYSFD2210T	NSYTRIM10SF	NSYMP2210
		800	1	NSYSFV22	NSYSFC108	NSYBP2210	NSY2SP228	NSYSFD2210	NSYSFD2210T	NSYTRIM10SF	NSYMP2210
	1200	400	2	NSYSFV22	NSYSFC124	NSYBP2212	NSY2SP224	NSYSFD22122D	NSYSFD22122DT	NSYTRIM12SF2D	NSYMP2212
		500	2	NSYSFV22	NSYSFC125	NSYBP2212	NSY2SP225	NSYSFD22122D	NSYSFD22122DT	NSYTRIM12SF2D	NSYMP2212
		600	2	NSYSFV22	NSYSFC126	NSYBP2212	NSY2SP226	NSYSFD22122D	NSYSFD22122DT	NSYTRIM12SF2D	NSYMP2212
		800	2	NSYSFV22	NSYSFC128	NSYBP2212	NSY2SP228	NSYSFD22122D	NSYSFD22122DT	NSYTRIM12SF2D	NSYMP2212

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

Selection guide

Stainless-steel wall-mounting enclosures

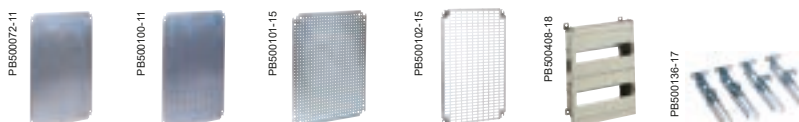


Dimensions (mm)			No. of locks	No. of doors	304L stainless-steel		316L stainless-steel	304L stainless-steel canopy	Plain mounting plate***
Height	Width	Depth			Plain door	Glazed door**	Plain door		
300	200	150	1	1	NSYS3X3215	-	NSYS3X3215H	NSYTX2015	NSYMM32
	250	150	1	1	NSYS3X302515	-	NSYS3X302515H	NSYTX2515	NSYMM3025
	300	150	1	1	NSYS3X3315	-	NSYS3X3315H	NSYTX3015	NSYMM33
400	300	150	1	1	NSYS3X4315	-	NSYS3X4315H	NSYTX3015	NSYMM43
		200	1	1	NSYS3X4320	NSYS3X4320T	NSYS3X4320H	NSYTX3020	NSYMM43
	400	200	1	1	NSYS3X4420	-	NSYS3X4420H	NSYTX4020	NSYMM44
	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	250	2	1	NSYS3X6625	-	NSYS3X6625H	NSYTX6025	NSYMM66
	1000	300	*	2	NSYS3X601030	-	-	-	-
	1200	300	*	2	NSYS3X601230	-	-	NSYTX12030	-
700	500	250	2	1	NSYS3X7525	NSYS3X7525T	NSYS3X7525H	NSYTX5025	NSYMM75
800	600	250	2	1	NSYS3X8625	NSYS3X8625T	NSYS3X8625H	NSYTX6025	NSYMM86
	800	300	2	1	NSYS3X8830	-	NSYS3X8830H	NSYTX8030	NSYMM88
	1000	300	*	2	NSYS3X801030	-	-	-	-
	1200	300	*	2	NSYS3X801230	-	-	NSYTX12030	-
1000	800	300	2	1	NSYS3X10830	NSYS3X10830T	NSYS3X10830H	NSYTX8030	NSYMM108
	1000	300	*	2	NSYS3X101030	-	NSYS3X101030H	NSYTX10030	NSYMM1010
1200	800	300	2	1	NSYS3X12830	-	NSYS3X12830H	NSYTX8030	NSYMM128
	1000	300	*	2	NSYS3X121030	-	NSYS3X121030H	NSYTX10030	NSYMM1210

* Three-point closure system.

** The glazed door has no reinforcement.

*** See other mounting plates in common accessories.



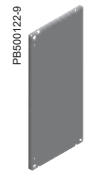
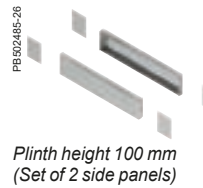
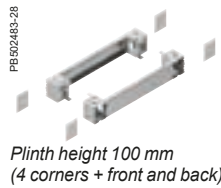
External dimensions (mm)			No. of modules	References					Step slides
Height	Width	Depth		Mounting plate					
				Plain	Silkscreened	Microperforated	Telequick	Modular	
300	200	150	-	NSYMM32	-	NSYMF32	NSYMR32	-	-
	250	150	-	NSYMM3025	-	-	NSYMR3025	-	-
	300	150	-	NSYMM33	-	NSYMF33	NSYMR33	-	-
400	300	150	24	NSYMM43	NSYMS43	NSYMF43	NSYMR43	NSYDLM24	-
		200	24	NSYMM43	NSYMS43	NSYMF43	NSYMR43	NSYDLM24	NSYSDCR200
	400	200	-	NSYMM44	NSYMS44	NSYMF44	NSYMR44	-	NSYSDCR200
	600	200	-	NSYMM64	NSYMS64	NSYMF64	NSYMR46	-	NSYSDCR200
500	400	200	48	NSYMM54	NSYMS54	NSYMF54	NSYMR54	NSYDLM48	NSYSDCR200
600	400	200	48	NSYMM64	NSYMS64	NSYMF64	NSYMR64	NSYDLM48P	NSYSDCR200
	600	250	84	NSYMM66	NSYMS66	NSYMF66	NSYMR66	NSYDLM84P	NSYSDCR250
	1000	300	-	NSYMM106	-	NSYMF106	NSYMR106	-	NSYSDCR300
	1200	300	-	NSYMM126	-	NSYMF126	-	-	NSYSDCR300
700	500	250	66	NSYMM75	NSYMS75	NSYMF75	NSYMR75	NSYDLM66	NSYSDCR250
800	600	250	84	NSYMM86	NSYMS86	NSYMF86	NSYMR86	NSYDLM84	NSYSDCR250
	800	300	-	NSYMM88	-	NSYMF88	NSYMR88	-	NSYSDCR300
	1000	300	-	NSYMM108	-	NSYMF108	NSYMR108	-	NSYSDCR300
	1200	300	-	NSYMM128	-	NSYMF128	NSYMR128	-	NSYSDCR300
1000	800	300	234	NSYMM108	-	NSYMF108	NSYMR108	NSYDLM240	NSYSDCR300
	1000	300	-	NSYMM1010	-	NSYMF1010	NSYMR1010	-	NSYSDCR300
1200	800	300	-	NSYMM128	-	NSYMF128	NSYMR128	-	NSYSDCR300
	1000	300	-	NSYMM1210	-	NSYMF1210	NSYMR1210	-	NSYSDCR300

Selection guide

Stainless-steel floor-standing enclosures



Stainless-steel floor-standing monobloc



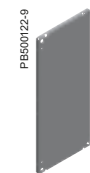
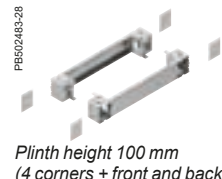
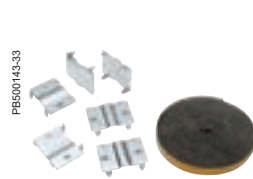
Dimensions (mm)			Number of front doors	Stainless-steel floor-standing enclosure 304L / 316L*	Brushed 304L / 316L* stainless-steel plinth height 100 mm**		Brushed 304L / 316L* stainless-steel plinth height 200 mm**		Plain mounting plate***
Height	Width	Depth			Kit (4 corners + front and back)	Set of 2 side panels	Kit (4 corners + front and back)	Set of 2 side panels (x2)	
1400	1000	300	2	NSYSMX141030	NSYSPFX10100	NSYSPSX3100	NSYSPFX10200	NSYSPSX3200	NSYMP1410
1600	800	400	1	NSYSMX16840	NSYSPFX8100	NSYSPSX4100	NSYSPFX8200	NSYSPSX4200	NSYMP168
1800	600	400	1	NSYSMX18640	-	NSYSPSX4100	-	NSYSPSX4200	NSYMP186
	800	400	1	NSYSMX18840*	NSYSPFX8100	NSYSPSX4100	NSYSPFX8200	NSYSPSX4200	NSYMP188
	1200	400	2	NSYSMX181240*	NSYSPFX12100	NSYSPSX4100	NSYSPFX12200	NSYSPSX4200	NSYMP1812
	1600	400	2	NSYSMX181640*	NSYSPFX16100	NSYSPSX4100	NSYSPFX16200	NSYSPSX4200	NSYMP1816
2000	800	500	1	NSYSMX20850	NSYSPFX8100	NSYSPSX5100	NSYSPFX8200	NSYSPSX5200	NSYMP208
	1000	400	2	NSYSMX201040*	NSYSPFX10100	NSYSPSX4100	NSYSPFX10200	NSYSPSX4200	NSYMP2010
	1200	500	2	NSYSMX201250*	NSYSPFX12100	NSYSPSX5100	NSYSPFX12200	NSYSPSX5200	NSYMP2012
	1600	600	2	NSYSMX201660*	NSYSPFX16100	NSYSPSX6100	NSYSPFX16200	NSYSPSX6200	NSYMP2016

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

** See section on stainless-steel composition accessories. - *** See other mounting plates in common accessories.



Stainless-steel floor-standing suitable

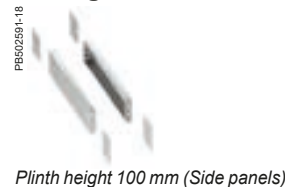
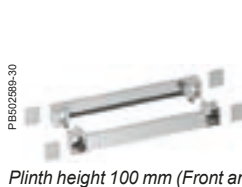


Dimensions (mm)			No. of front doors	References in 304L stainless steel (1)			Brushed 304L stainless-steel plinth height 100 mm (2)		Brushed 304L stainless-steel plinth height 200 mm (2)		Plain mounting plate (3)
H	W	D		Suitable enclosure	Set of 2 side panels	Coupling kit	Kit (4 corners + front and back)	Set of 2 side panels	Kit (4 corners + front and back)	Side Set of 2 side panels (x2)	
1800	600	400	1	NSYSFX18640	NSY2SPX184	NSYSFBK19 + NSYSFXJG	NSYSPFX6100	NSYSPSX4100SF	NSYSPFX6200	NSYSPSX4200SF	NSYMP186
	800	400	1	NSYSFX18840	NSY2SPX184	NSYSFBK19 + NSYSFXJG	NSYSPFX8100	NSYSPSX4100SF	NSYSPFX8200	NSYSPSX4200SF	NSYMP188
	1200	400	2	NSYSFX181240	NSY2SPX184	NSYSFBK19 + NSYSFXJG	NSYSPFX12100	NSYSPSX4100SF	NSYSPFX12200	NSYSPSX4200SF	NSYMP1812
2000	600	500	1	NSYSFX20650	NSY2SPX205	NSYSFBK19 + NSYSFXJG	NSYSPFX6100	NSYSPSX5100SF	NSYSPFX6200	NSYSPSX5200SF	NSYMP206
	800	400	1	NSYSFX20840	NSY2SPX204	NSYSFBK19 + NSYSFXJG	NSYSPFX8100	NSYSPSX4100SF	NSYSPFX8200	NSYSPSX4200SF	NSYMP208
	600	600	1	NSYSFX20860	NSY2SPX206	NSYSFBK19 + NSYSFXJG	NSYSPFX8100	NSYSPSX6100SF	NSYSPFX8200	NSYSPSX6200SF	NSYMP208
	1000	600	2	NSYSFX201060	NSY2SPX206	NSYSFBK19 + NSYSFXJG	NSYSPFX10100	NSYSPSX6100SF	NSYSPFX10200	NSYSPSX6200SF	NSYMP2010
	1200	600	2	NSYSFX201260	NSY2SPX206	NSYSFBK19 + NSYSFXJG	NSYSPFX12100	NSYSPSX6100SF	NSYSPFX12200	NSYSPSX6200SF	NSYMP2012

(1) 316L stainless-steel enclosures on request. - (2) See section on stainless-steel composition accessories. - (3) See other mounting plates in common accessories.



Stainless-steel floor-standing suitable



Dimensions (mm)			References	Number of front doors	304L stainless-steel plinth, height 100 mm (1)		304L stainless-steel plinth, height 200 mm (1)		Plain mounting plate (2)
Height	Width	Depth			Front and rear	side panels	Front and rear	side panels	
1000	600	500	NSYSDX6	1	NSYSPFX6100	NSYSPSX5100	NSYSPFX6200	2 x NSYSPSX5100	NSYPMP8560
	800	500	NSYSDX8	1	NSYSPFX8100	NSYSPSX5100	NSYSPFX8200	2 x NSYSPSX5100	NSYPMP8580
	1000	500	NSYSDX10	2	NSYSPFX10100	NSYSPSX5100	NSYSPFX10200	2 x NSYSPSX5100	NSYPMP85100
	1200	500	NSYSDX12	2	NSYSPFX12100	NSYSPSX5100	NSYSPFX12200	2 x NSYSPSX5100	NSYPMP85120

(1) See section on stainless-steel composition accessories. - (2) See other mounting plates in common accessories.

[!] Stainless-steel plinths (standard plinths pages 136 and 137, ventilated plinths page 385) are compatible with steel offer using an earthing cable reference NSYEL226D13 (description page 286) to be ordered separately.

Selection guide

Polyester wall-mounting enclosures

Polyester wall-mounting enclosures IP66



Dimensions (mm)			ABS/PC wall-mounting enclosures IP66		Polyester wall-mounting enclosures IP66			
Height	Width	Depth	Plain door	Transp. door	Plain door	Transp. door	Plain door 3-point closure	Transp. door 3-point closure
Page 167								
310	215	160	NSYPLM32G	NSYPLM32TG	-	-	-	-
308	255	160	-	-	NSYPLM3025G	NSYPLM3025TG	-	-
430	330	200	-	-	NSYPLM43G	NSYPLM43TG	NSYPLM43VG	NSYPLM43TVG
530	430	200	-	-	NSYPLM54G	NSYPLM54TG	NSYPLM54VG	NSYPLM54TVG
647	436	250	-	-	NSYPLM64G	NSYPLM64TG	NSYPLM64VG	NSYPLM64TVG
747	536	300	-	-	NSYPLM75G	NSYPLM75TG	NSYPLM75VG	NSYPLM75TVG
847	636	300	-	-	NSYPLM86G	NSYPLM86TG	NSYPLM86VG	NSYPLM86TVG
1056	852	350	-	-	NSYPLM108G	NSYPLM108TG	-	-

Selection guide

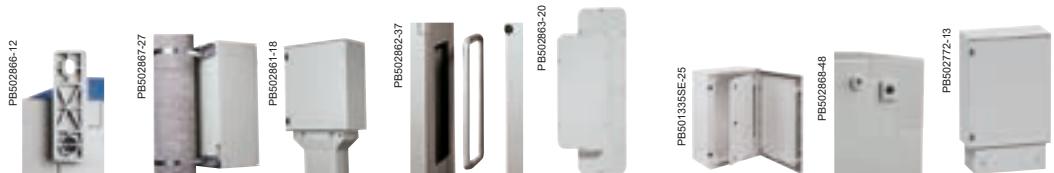
Polyester wall-mounting enclosures

Mounting accessories



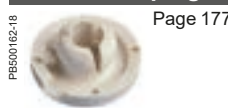
Dimensions (mm)			Metallic mounting plates				Insulating mounting plates		Modular distribution chassis	Step slides	Symmetrical DIN rail
Height	Width	Depth	Plain	Silkscreened	Microperforated	Telequick	Bakelite	Polyester			
			Page 214				Page 215		Page 176	Page 174	
310	215	160	NSYMM32	-	-	NSYMR32	NSYMB32	NSYMPP32	-	-	NSYCS200PLM
308	255	160	NSYMM3025	-	-	NSYMR3025	NSYMB3025	NSYMPP3025	NSYDLPLM18G	-	-
430	330	200	NSYMM43	NSYMS43	NSYMF43	NSYMR43	NSYMB43	NSYMPP43	NSYDLA24G	NSYDPLM200	NSYCS300PLM
530	430	200	NSYMM54	NSYMS54	NSYMF54	NSYMR54	NSYMB54	NSYMPP54	NSYDLA48G	NSYDPLM200	NSYCS400PLM
647	436	250	NSYMM64	NSYMS46	NSYMF64	NSYMR64	NSYMB64	NSYMPP64	NSYDLA48PG	NSYDPLM250	NSYCS400PLM
747	536	300	NSYMM75	NSYMS75	NSYMF75	NSYMR75	NSYMB75	NSYMPP75	NSYDLA66G and NSYDLA88G	NSYDPLM300	NSYCS500PLM
847	636	300	NSYMM86	NSYMS86	NSYMF86	NSYMR86	NSYMB86	NSYMPP86	NSYDLA84G and NSYDLA112G	NSYDPLM300	NSYCS600PLM
1056	852	350	NSYMM108	-	NSYMF108	NSYMR108	NSYMB108	NSYMPP108	NSYDLA234G	NSYDPLM350	NSYCS800PLM

Main accessories



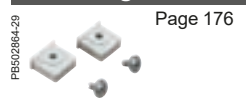
Dimensions (mm)			Fixing lugs	Post-fixing device	Floor-mounting pillar	Coupling frame	Cable-gland plate	Internal door	Blanking plates	Plinth ZM RAL 7032
Height	Width	Depth	Page 172			Page 177		Page 173	Page 172	Page 171
310	215	160	NSYPFPLM32G	-	-	-	-	-	NSYCEPLMAG	-
308	255	160	NSYPFPLMG	-	-	-	-	NSYPA3025PLMG	-	-
430	330	200	NSYPFPLMG	NSYSFP300	-	-	-	NSYPAP43G	NSYCEPLMBG	-
530	430	200	NSYPFPLMG	NSYSFP400	NSYSFSPLMG	-	-	NSYPAP54G	NSYCEPLMBG	-
647	436	250	NSYPFPLMG	NSYSFP400	NSYSFSPLMG	-	-	NSYPAP64G	NSYCEPLMCG	-
747	536	300	NSYPFPLMG	NSYSFP500	-	NSYBUPLMG	NSYTLA4420G	NSYPAP75G	NSYCEPLMCG	NSYZM253G
847	636	300	NSYPFPLMG	NSYSFP600	-	NSYBUPLMG	NSYTLA4420G	NSYPAP86G	NSYCEPLMCG	NSYZM263G
1056	852	350	NSYPFPLMG	-	-	NSYBU108PLMG	NSYTLA6420G	NSYPAP108G	-	NSYZM283G

Water drain plug



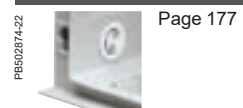
Page 177

Rail-fixing nuts



Page 176

Ventilation louvre



Page 177

Selection guide

Polyester floor-standing enclosures

PB50289F-22



PB50289B-23



PB50289B-21



Dimensions (mm)				Completely sealed enclosures, IP65		Enclosures with open bottom part, IP54
References of enclosures with door						
Height (A)	Width (B)	Depth (C)	N° of doors	Plain	Glazed ⁽¹⁾	Plain
500	500	320	1	NSYPLA553G	NSYPLA553TG	NSYPLAZ553G
		420	1	NSYPLA554G	NSYPLA554TG	NSYPLAZ554G
	750	320	1	NSYPLA573G	NSYPLA573TG	NSYPLAZ573G
		420	1	NSYPLA574G	NSYPLA574TG	NSYPLAZ574G
	1000	320	2	NSYPLA5103G	NSYPLA5103TG	NSYPLAZ5103G
		420	2	NSYPLA5104G	NSYPLA5104TG	NSYPLAZ5104G
	1250	320	2	NSYPLA5123G	NSYPLA5123TG	NSYPLAZ5123G
		420	2	NSYPLA5124G	NSYPLA5124TG	NSYPLAZ5124G
750	500	320	1	NSYPLA753G	NSYPLA753TG	NSYPLAZ753G
		420	1	NSYPLA754G	NSYPLA754TG	NSYPLAZ754G
	750	320	1	NSYPLA773G	NSYPLA773TG	NSYPLAZ773G
		420	1	NSYPLA774G	NSYPLA774TG	NSYPLAZ774G
	1000	620	1	NSYPLA776G	NSYPLA776TG	NSYPLAZ776G
		320	2	NSYPLA7103G	NSYPLA7103TG	NSYPLAZ7103G
	1250	420	2	NSYPLA7104G	NSYPLA7104TG	NSYPLAZ7104G
		320	2	NSYPLA7123G	NSYPLA7123TG	NSYPLAZ7123G
420	2	NSYPLA7124G	NSYPLA7124TG	NSYPLAZ7124G		
	1000	500	320	1	NSYPLA1053G	NSYPLA1053TG
420			1	NSYPLA1054G	NSYPLA1054TG	NSYPLAZ1054G
750		320	1	NSYPLA1073G	NSYPLA1073TG	NSYPLAZ1073G
		420	1	NSYPLA1074G	NSYPLA1074TG	NSYPLAZ1074G
1000		320	2	NSYPLA10103G	NSYPLA10103TG	NSYPLAZ10103G
		420	2	NSYPLA10104G	NSYPLA10104TG	NSYPLAZ10104G
1250		320	2	NSYPLA10123G	NSYPLA10123TG	NSYPLAZ10123G
		420	2	NSYPLA10124G	NSYPLA10124TG	NSYPLAZ10124G
1250	500	320	1	NSYPLA1253G	NSYPLA1253TG	NSYPLAZ1253G
		420	1	NSYPLA1254G	NSYPLA1254TG	NSYPLAZ1254G
	750	320	1	NSYPLA1273G	NSYPLA1273TG	NSYPLAZ1273G
		420	1	NSYPLA1274G	NSYPLA1274TG	NSYPLAZ1274G
	1000	620	1	NSYPLA1276G	NSYPLA1276TG	NSYPLAZ1276G
		320	2	NSYPLA12103G	NSYPLA12103TG	NSYPLAZ12103G
	1250	420	2	NSYPLA12104G	NSYPLA12104TG	NSYPLAZ12104G
		320	2	NSYPLA12123G	NSYPLA12123TG	NSYPLAZ12123G
420	2	NSYPLA12124G	NSYPLA12124TG	NSYPLAZ12124G		
620	2	NSYPLA12126G	NSYPLA12126TG	NSYPLAZ12126G		
	1500	500	320	1	NSYPLA1553G	NSYPLA1553TG
420			1	NSYPLA1554G	NSYPLA1554TG	NSYPLAZ1554G
750		320	1	NSYPLA1573G	NSYPLA1573TG	NSYPLAZ1573G
		420	1	NSYPLA1574G	NSYPLA1574TG	NSYPLAZ1574G
1000		620	1	NSYPLA1576G	NSYPLA1576TG	NSYPLAZ1576G
		320	2	NSYPLA15103G	NSYPLA15103TG	NSYPLAZ15103G
1250		420	2	NSYPLA15104G	NSYPLA15104TG	NSYPLAZ15104G
		320	2	NSYPLA15123G	NSYPLA15123TG	NSYPLAZ15123G
420	2	NSYPLA15124G	NSYPLA15124TG	NSYPLAZ15124G		
620	2	NSYPLA15126G	NSYPLA15126TG	NSYPLAZ15126G		
2000	750	420	2*	NSYPLA2074G	NSYPLA2074TG	NSYPLAZ2074G

* Two doors in vertical.

⁽¹⁾ Recommended to protect against the direct sun radiation.

Selection guide

Polyester floor-standing enclosures

PB502900-21



PB502901-19



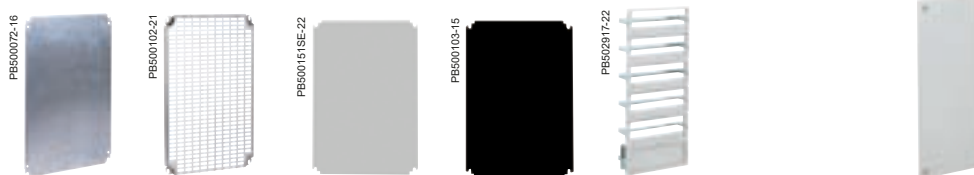
Dimensions (mm)				Enclosures with ventilated canopy, IP44	Enclosures with open bottom part and ventilated canopy, IP44	
References of enclosures with door						
Height (A)	Width (B)	Depth (C)	N° of doors	Plain	Plain	
500	500	320	1	NSYPLAT553G	NSYPLAZT553G	
		420	1	NSYPLAT554G	NSYPLAZT554G	
	750	320	1	NSYPLAT573G	NSYPLAZT573G	
		420	1	NSYPLAT574G	NSYPLAZT574G	
	1000	320	2	NSYPLAT5103G	NSYPLAZT5103G	
		420	2	NSYPLAT5104G	NSYPLAZT5104G	
	1250	320	2	NSYPLAT5123G	NSYPLAZT5123G	
		420	2	NSYPLAT5124G	NSYPLAZT5124G	
750	500	320	1	NSYPLAT753G	NSYPLAZT753G	
		420	1	NSYPLAT754G	NSYPLAZT754G	
	750	320	1	NSYPLAT773G	NSYPLAZT773G	
		420	1	NSYPLAT774G	NSYPLAZT774G	
		620	1	NSYPLAT776G	NSYPLAZT776G	
	1000	320	2	NSYPLAT7103G	NSYPLAZT7103G	
		420	2	NSYPLAT7104G	NSYPLAZT7104G	
	1250	320	2	NSYPLAT7123G	NSYPLAZT7123G	
		420	2	NSYPLAT7124G	NSYPLAZT7124G	
	1000	500	320	1	NSYPLAT1053G	NSYPLAZT1053G
			420	1	NSYPLAT1054G	NSYPLAZT1054G
		750	320	1	NSYPLAT1073G	NSYPLAZT1073G
420			1	NSYPLAT1074G	NSYPLAZT1074G	
1000		320	2	NSYPLAT10103G	NSYPLAZT10103G	
		420	2	NSYPLAT10104G	NSYPLAZT10104G	
1250		320	2	NSYPLAT10123G	NSYPLAZT10123G	
		420	2	NSYPLAT10124G	NSYPLAZT10124G	
1250		500	320	1	NSYPLAT1253G	NSYPLAZT1253G
			420	1	NSYPLAT1254G	NSYPLAZT1254G
	750	320	1	NSYPLAT1273G	NSYPLAZT1273G	
		420	1	NSYPLAT1274G	NSYPLAZT1274G	
		620	1	NSYPLAT1276G	NSYPLAZT1276G	
	1000	320	2	NSYPLAT12103G	NSYPLAZT12103G	
		420	2	NSYPLAT12104G	NSYPLAZT12104G	
	1250	320	2	NSYPLAT12123G	NSYPLAZT12123G	
		420	2	NSYPLAT12124G	NSYPLAZT12124G	
	620	2	NSYPLAT12126G	NSYPLAZT12126G		
	1500	500	320	1	NSYPLAT1553G	NSYPLAZT1553G
			420	1	NSYPLAT1554G	NSYPLAZT1554G
		750	320	1	NSYPLAT1573G	NSYPLAZT1573G
			420	1	NSYPLAT1574G	NSYPLAZT1574G
620			1	NSYPLAT1576G	NSYPLAZT1576G	
1000		320	2	NSYPLAT15103G	NSYPLAZT15103G	
		420	2	NSYPLAT15104G	NSYPLAZT15104G	
1250		320	2	NSYPLAT15123G	NSYPLAZT15123G	
		420	2	NSYPLAT15124G	NSYPLAZT15124G	
620		2	NSYPLAT15126G	NSYPLAZT15126G		
2000		750	420	2*	NSYPLAT2074G	NSYPLAZT2074G

* Two doors in vertical.

Selection guide

Polyester floor-standing enclosures

Mounting accessories



Dimensions (mm)			Metallic mounting plates		Insulating mounting plates		Modular distribution chassis		Internal door
Height	Width	N° of doors	Plain	Telequick	Polyester	Bakelite			
			Page 198		Page 198		Page 200		Page 196
500	500	1	NSYPMM55	NSYPMR55	NSYPMA55	NSYPMB55	-	-	NSYPAPLA55G
	750	1	NSYPMM75	NSYPMR57	NSYPMA75	NSYPMB75	-	-	NSYPAPLA57G
	1000	2	NSYPMM510	2 x NSYPMR55	NSYPMA510	NSYPMB510	-	-	2 x NSYPAPLA55G
	1250	2	NSYPMM55 + NSYPMM75	NSYPMR55 + NSYPMR57	NSYPMA55 + NSYPMA75	NSYPMB55 + NSYPMB75	-	-	NSYPAPLA55G + NSYPAPLA57G
750	500	1	NSYPMM75	NSYPMR75	NSYPMA75	NSYPMB75	NSYDLP76G	NSYDLP57G	NSYPAPLA75G
	750	1	NSYPMM77	NSYPMR77	NSYPMA77	NSYPMB77	NSYDLP132G	NSYDLP99G	NSYPAPLA77G
	1000	2	NSYPMM710	2 x NSYPMR75	NSYPMA710	NSYPMB710	2 x NSYDLP76G	2 x NSYDLP57G	2 x NSYPAPLA75G
	1250	2	NSYPMM712	NSYPMR75 + NSYPMR77	NSYPMA712	NSYPMB712	NSYDLP76G + NSYDLP132G	NSYDLP57G + NSYDLP99G	NSYPAPLA75G + NSYPAPLA77G
1000	500	1	NSYPMM105	NSYPMR105	NSYPMA105	NSYPMB105	NSYDLP114G	NSYDLP95G	NSYPAPLA105G
	750	1	NSYPMM107	NSYPMR107	NSYPMA107	NSYPMB107	NSYDLP198G	NSYDLP165G	NSYPAPLA107G
	1000	2	NSYPMM1010	2 x NSYPMR105	NSYPMA1010	NSYPMB1010	2 x NSYDLP114G	2 x NSYDLP95G	2 x NSYPAPLA105G
	1250	2	NSYPMM1012	NSYPMR105 + NSYPMR107	NSYPMA1012	NSYPMB1012	NSYDLP114G + NSYDLP198G	NSYDLP95G + NSYDLP165G	NSYPAPLA105G + NSYPAPLA107G
1250	500	1	NSYPMM125	NSYPMR125	NSYPMA125	NSYPMB125	NSYDLP133G	NSYDLP114PG	NSYPAPLA125G
	750	1	NSYPMM127	NSYPMR127	NSYPMA127	NSYPMB127	NSYDLP231G	NSYDLP198PG	NSYPAPLA127G
	1000	2	NSYPMM1210	2 x NSYPMR125	NSYPMA1210	NSYPMB1210	2 x NSYDLP133G	2 x NSYDLP114PG	2 x NSYPAPLA125G
	1250	2	NSYPMM1212	NSYPMR125 + NSYPMR127	NSYPMA1212	NSYPMB1212	NSYDLP133G + NSYDLP231G	NSYDLP114PG + NSYDLP198PG	NSYPAPLA125G + NSYPAPLA127G
1500	500	1	NSYPMM155	NSYPMR155	-	NSYPMB155	NSYDLP171G	NSYDLP152G	NSYPAPLA155G
	750	1	NSYPMM157	NSYPMR157	-	NSYPMB157	NSYDLP297G	NSYDLP264G	NSYPAPLA157G
	1000	2	NSYPMM1510	2 x NSYPMR155	-	NSYPMB1510	2 x NSYDLP171G	2 x NSYDLP152G	2 x NSYPAPLA155G
	1250	2	NSYPMM1512	NSYPMR155 + NSYPMR157	-	NSYPMB1512	NSYDLP171G + NSYDLP297G	NSYDLP152G + NSYDLP264G	NSYPAPLA155G + NSYPAPLA157G
2000	750	2	NSYPMM207	2 x NSYPMR107	2 x NSYPMA107	2 x NSYPMB107	-	-	-

Step slides

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Uprights and mounting rails

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Door retainer

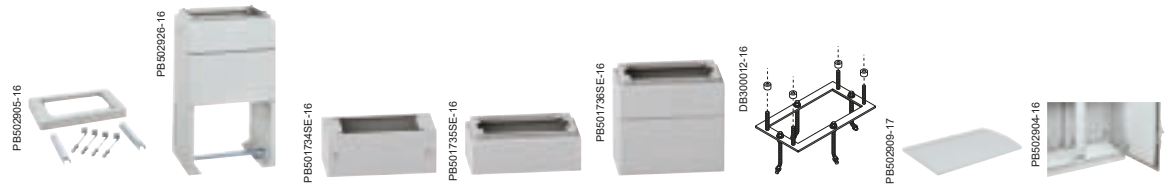
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Selection guide

Polyester floor-standing enclosures

Composition accessories



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 193	Page 195	Page 192	Page 194		Page 195	Page 191	Page 191
500	320	NSYZNPLA53G	NSYZHPLA53G	NSYZA253G	NSYZZ253G	NSYZZ553G	NSYMFPLAZ53	NSYTJPLA53G	NSYECPLAZ53G
	420	NSYZNPLA54G	NSYZHPLA54G	NSYZA254G	NSYZZ254G	NSYZZ554G	NSYMFPLAZ54	NSYTJPLA54G	NSYECPLAZ54G
750	320	NSYZNPLA73G	NSYZHPLA73G	NSYZA273G	NSYZZ273G	NSYZZ573G	NSYMFPLAZ73	NSYTJPLA73G	NSYECPLAZ73G
	420	NSYZNPLA74G	NSYZHPLA74G	NSYZA274G	NSYZZ274G	NSYZZ574G	NSYMFPLAZ74	NSYTJPLA74G	NSYECPLAZ74G
	620	-	-	NSYZA276G	NSYZZ276G	-	NSYMFPLAZ76	NSYTJPLA76G	NSYECPLAZ76G
1000	320	NSYZNPLA103G	NSYZHPLA103G	NSYZA2103G	NSYZZ2103G	NSYZZ5103G	NSYMFPLAZ103	NSYTJPLA103G	NSYECPLAZ103G
	420	NSYZNPLA104G	NSYZHPLA104G	NSYZA2104G	NSYZZ2104G	NSYZZ5104G	NSYMFPLAZ104	NSYTJPLA104G	NSYECPLAZ104G
1250	320	NSYZNPLA123G	NSYZHPLA123G	NSYZA2123G	NSYZZ2123G	NSYZZ5123G	NSYMFPLAZ123	NSYTJPLA123G	NSYECPLAZ123G
	420	NSYZNPLA124G	NSYZHPLA124G	NSYZA2124G	NSYZZ2124G	NSYZZ5124G	NSYMFPLAZ124	NSYTJPLA124G	NSYECPLAZ124G
	620	-	-	NSYZA2126G	NSYZZ2126G	-	NSYMFPLAZ126	NSYTJPLA126G	NSYECPLAZ126G

VDI accessories



Dimensions (mm)		19" fixed chassis		19" swing chassis	
Height	Width	References	Number of U	References	Number of U
		Page 205		Page 205	
500	750	NSYBRF8PLAG	8	NSYBRP7PLAG	7
750	750	NSYBRF12PLAG + NSYSPLA75	12	NSYBRP11PLAG + NSYSPLA75	11
1000	750	NSYBRF17PLAG + NSYSPLA100	17	NSYBRP16PLAG + NSYSPLA100	16
1250	750	NSYBRF21PLAG + NSYSPLA125	21	NSYBRP20PLAG + NSYSPLA125	20
1500	750	NSYBRF26PLAG + NSYSPLA150*	26	NSYBRP25PLAG + NSYSPLA150*	25
2000	750	2 x NSYBRF17PLAG + 2 x NSYSPLA100 + NSYPTZ4	2 x 17	2 x NSYBRP16PLAG + 2 x NSYSPLA100	2 x 16

* not compatible with NSYCAAPVHD.

Door switch
Page 196

Insert
Page 204

Document pocket
Page 280

VDI accessories and fixings
Page 247

Coupling Kit
Page 190

Anti-graffiti paint
Page 191

Handles and inserts
Page 197

Wall-fixing lug
Page 191

Steel industrial boxes

Steel industrial boxes

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PB500198-13



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PB503351-20



**Spacial SBM
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Fixing accessories 44

Metallic junction boxes

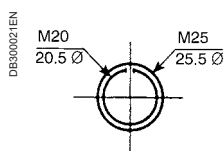
Characteristics



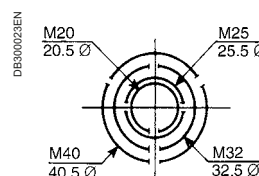
Characteristics	Metallic junction boxes
	<ul style="list-style-type: none"> ■ PVC sealing gasket on sizes up to 20/15 and a rubber gasket for > 25/20. ■ Back ready for threaded drill holes for fixing equipment. From size 15/10 and up, there are four M4 threaded holes fitted with removable plugs for direct fixing of the mounting plate. ■ With low cover. ■ The SDB series consists of 2 basic models: <ul style="list-style-type: none"> □ without knock-outs: NSYDB●●● □ with knock-outs: NSYDB●●●M with low cover.
Material	Sheet steel
Finish	Structured finish, epoxy-polyester powder
Colour	RAL 7035 grey
Ingress protection rating	IP55 according to IEC 60529
Mechanical protection rating	IK07 according to IEC 62262
Installation	Indoor installation: direct wall-mounting 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).

Dimensions

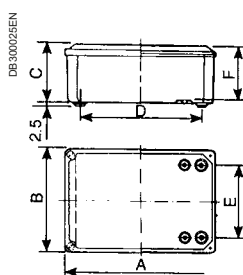
Models	External dimensions (mm)			Models without knock-outs	Models with knock-outs, no. of drill holes, knock-outs and group	Dimensions (mm)			Weight (kg)		
	Height (A)	Width (B)	Depth (C)			References	References	Height (A)		Width (B)	D
Low cover	85	85	49	NSYDBN88	NSYDB88M	1 n° 1	1 n° 1	58	58	-	0.18
	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° 1	124	74	56	0.38
	206	156	83	NSYDBN2015	NSYDB2015M	3 n° 2	2 n° 2	172	122	78	1
	256	206	93	NSYDBN2520	-	-	-	220	170	88	1.5
	307	257	116	NSYDBN3025	-	-	-	268	218	110	3.3



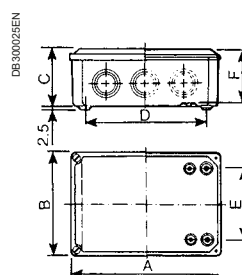
Group n° 1



Group n° 2



NSYDBN●●●








NSYDB●●●M

Metallic junction boxes

Characteristics

Conversions of standard lock into normalised solutions

Type and size		Operated with a key		References
 Square insert	□ 6 mm	LC-7	 DE300027-9	NSYTC6CRN
	□ 7 mm	LC-7		NSYTC7CRN
	□ 8 mm	LC-8		NSYTC8CRN
 Triangular insert	▲ 6 mm	LT-8	 DE300028-10	NSYTT6CRN
	▲ 7 mm	LT-8		NSYTT7CRN
	▲ 8 mm	LT-8		NSYTT8CRN
405 key-type lock			 DE300029-6	NSYCL405CRN

Plain mounting plate

Boxes SDB		Plain mounting plate		
Dimensions (mm)		References	Dimensions (mm)	
H	W		H	W
155	105	NSYPMD1510	136	88
206	156	NSYPMD2015	184	136
256	206	NSYPMD2520	234	184
307	257	NSYPMD3025	232	282

Steel industrial boxes

Introduction

> Simplicity, ergonomics and versatility, it's all in the box.

PB503350-61



PB503349-17



Selection

- 1 version: flat box (SBM).
- 80 mm and 120 mm depth.
- FL21 cable entries available according to the version.

PB503350-30



Modularity

- 28 sizes available.

PB303963-21



Ergonomics

- Cover opening and accessory mounting with just a screwdriver.

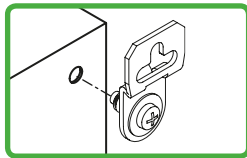
PB503351-20



Sturdy and good ingress protection

- Mechanical protection rating up to IK10.
- Ingress protection rating up to IP66.

DB300080



Easy installation

- Direct mounting through the rear.
- Mounting with versatile external lugs.

PB503351-20



Added value to your work

- Quality and aesthetics.

This range can be configured according to your needs

4 different services available:



Assemble to order



Mounting of standard accessories



Painting



Machining

See page 496 for details or consult our web site www.se.com

Steel industrial boxes

Characteristics



Characteristics	Spacial SBM Flat box
	<p>Box with plain faces.</p> <p>Box body Single-piece body (cross-shaped structure). Front design incorporating folded gutters. Flat rear. 2 (or 3*) drilled profiles for installing mounting plates and DIN rails, with mounting centres of 12.5 mm. 2 or more FL21 cable gland plates (1) for easy drilling and to maximum access area, delivered with the enclosure.</p> <p>Box cover Equipped with 2, 3, 4 or 6 half-turn thread screws, according to the version (2) to ensure maximum watertightness. Bus boxes equipped with cover hinges for a comfortable 180° door opening. Polyurethane sealing gasket.</p> <p>Protection of personnel Ground connection mandatory for all boxes: Spacial SBM steel boxes are equipped with a M6 x 16 ground stud welded in the cover, to be linked with the body for equipotential connection. Grounding strap to be ordered separately (Ø 6.4 mm terminal).</p>
Material	Sheet steel
Finish	Structured finish, epoxy-polyester powder
Colour	RAL 7035 grey
Ingress protection rating	<ul style="list-style-type: none"> ■ IP66 according to IEC 60529 ■ Type 4, 4X according to UL 50, 50E
Mechanical protection rating	IK10 according to IEC 62262
Standard	Compliance with enclosure standard IEC 62208 and the RoHS directive
Certifications (see page 582)	<ul style="list-style-type: none"> ■ UL, BV, DNV, LR, GL ■ Fire class: M0 (EN 13501-1)
Installation	<p>Indoor installation Direct wall-mounting (4 x Ø 10 mm holes) or with the help of mounting lugs installed from the outside (to be ordered separately, see the specific accessory pages).</p> <p>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 mandatory to place the box under shelter to avoid water accumulation on the upper part of the enclosure</p>
Maximum load	Loading capacity on the body: 50 kg/m ²
Other characteristics	<p>Vibration constraints Specific construction of the Spacial SBM - Single-piece body (rectangular structure). The rear is flat without added parts - this ensures compliance with certain vibration constraints.</p> <p>Seismic constraint The seismic behavior of the the industrial boxes Spacial SBM have been qualified according to MRI spectra "big material" specified in the standard IEC 60068-2-6 and IEC 60068-2-57 (see page 394 for more details). Tested enclosure configuration:</p> <ul style="list-style-type: none"> ■ Plain door, ■ Plain mounting plate with a load of 200 kg/m² uniformly distributed on the mounting plate, ■ Fixing to the wall with M8 screws (tightening torque: 12 Nm ± 1 Nm). <p>Level of the seismic behavior obtained:</p> <ul style="list-style-type: none"> ■ 1G for boxes with the following dimensions: <ul style="list-style-type: none"> □ height = 400 mm and width ≥ 500 mm □ height = 300 mm and width ≥ 600 mm □ height = 200 mm and width ≥ 800 mm ■ 3G for other dimension

* 3 profiles for width 800 mm.

(1) Only on Entry boxes and Bus boxes.

(2) 2 for Bus box (3 screws for width greater than 400 mm), 4 for Flat and Entry boxes (6 screws for width greater than 400 mm).

Steel industrial boxes

Technical characteristics

Box			SBM	Power dissipation*	Sheet thickness
Height (mm)	Width (mm)	Depth (mm)		(W)	(mm)
150	150	80	NSYSBM15158	13.5	10/10 ^e
		120	NSYSBM151512	17.2	10/10 ^e
	200	80	NSYSBM15208	16.6	10/10 ^e
		120	NSYSBM152012	20.8	10/10 ^e
	300	80	NSYSBM15308	22.8	10/10 ^e
		120	NSYSBM153012	28.1	10/10 ^e
	400	80	NSYSBM15408	29.0	10/10 ^e
		120	NSYSBM154012	35.3	10/10 ^e
200	200	80	NSYSBM20208	20.6	10/10 ^e
		120	NSYSBM202012	25.6	10/10 ^e
	300	80	NSYSBM20308	28.2	10/10 ^e
		120	NSYSBM203012	34.2	10/10 ^e
	400	80	NSYSBM20408	35.7	10/10 ^e
		120	NSYSBM204012	42.8	10/10 ^e
	500	80	NSYSBM20508	43.3	12/10 ^e
		120	NSYSBM205012	51.4	12/10 ^e
	600	80	NSYSBM20608	50.8	12/10 ^e
		120	NSYSBM206012	60.1	12/10 ^e
	800	120	NSYSBM208012	77.3	12/10 ^e
	300	300	120	NSYSBM303012	46.4
400		120	NSYSBM304012	57.8	10/10 ^e
500		120	NSYSBM305012	69.1	12/10 ^e
600		120	NSYSBM306012	80.4	12/10 ^e
800		120	NSYSBM308012	103.0	12/10 ^e
400	400	120	NSYSBM404012	72.7	10/10 ^e
	500	120	NSYSBM405012	86.7	12/10 ^e
	600	120	NSYSBM406012	100.7	12/10 ^e
	800	120	NSYSBM408012	128.7	12/10 ^e

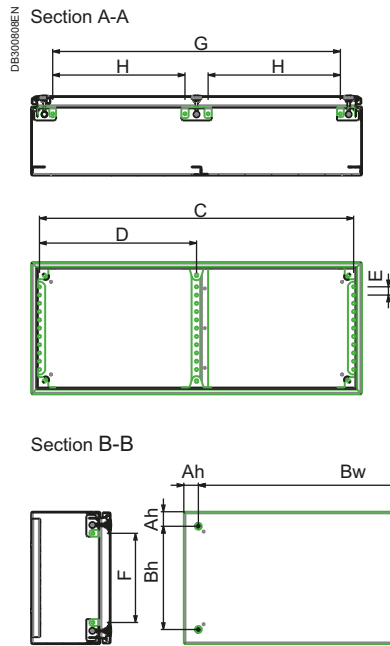
* Power dissipation calculated for a box mounted on a wall, at external temperature 25°C and maximum internal temperature 55°C.

Steel industrial boxes

Dimensions

External mounting of the box and mounting accessories

Box		Mounting								
Height (mm)	Width (mm)	Ah (mm)	Bh (mm)	Bw (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)
150	150	20.5	109	109	125	-	12.5	85	85	-
	200	20.5	109	159	175	-	12.5	85	135	-
	300	20.5	109	259	275	-	12.5	85	235	-
	400	20.5	109	359	375	-	12.5	85	335	-
200	200	20.5	159	159	175	-	12.5	135	135	-
	300	20.5	159	259	275	-	12.5	135	235	-
	400	20.5	159	359	375	-	12.5	135	335	-
	500	20.5	159	459	475	-	12.5	135	435	200
	600	20.5	159	559	575	-	12.5	135	535	250
	800	20.5	159	759	775	387.5	12.5	135	735	350
300	300	20.5	259	259	275	-	12.5	235	235	-
	400	20.5	259	359	375	-	12.5	235	335	-
	500	20.5	259	459	475	-	12.5	235	435	200
	600	20.5	259	559	575	-	12.5	235	535	250
400	400	20.5	359	359	375	-	12.5	335	335	-
	500	20.5	359	459	475	-	12.5	335	435	200
	600	20.5	359	559	575	-	12.5	335	535	250
	800	20.5	359	759	775	387.5	12.5	335	735	350



Steel industrial boxes

Specific accessories overview

Mounting accessories

Mounting plate



Page 43

DIN rail



Page 43

Post mounting



Page 43

Coupling kit



Page 43

Fixing accessories

Mounting lugs



Page 45

Self-tapping screws



Page 45

Hinges



Page 45

Double-bar shaped head screw



Page 45

Triangle shaped head screw



Page 45

Sealing kit



Page 45

Steel industrial boxes

Common accessories overview

Cable management

Cable entries



Page 250

Steel industrial boxes

Mounting accessories



Characteristics				Flat box
Material				
Colour				
Ingress protection rating				
Installation				
Maximum load				
Supply				1 unit
Dimensions (mm)			Cover screws (1)	References
Height	Width	Depth	Qty	SBM
150	150	80	4	NSYSBM15158
		120	4	NSYSBM151512
	200	80	4	NSYSBM15208
		120	4	NSYSBM152012
	300	80	4	NSYSBM15308
		120	4	NSYSBM153012
	400	80	4	NSYSBM15408
		120	4	NSYSBM154012
200	200	80	4	NSYSBM20208
		120	4	NSYSBM202012
	300	80	4	NSYSBM20308
		120	4	NSYSBM203012
	400	80	4	NSYSBM20408
		120	4	NSYSBM204012
	500	80	6	NSYSBM20508
		120	6	NSYSBM205012
	600	80	6	NSYSBM20608
		120	6	NSYSBM206012
	800	120	6	NSYSBM208012
300	300	120	4	NSYSBM303012
	400	120	4	NSYSBM304012
	500	120	6	NSYSBM305012
	600	120	6	NSYSBM306012
	800	120	6	NSYSBM308012
400	400	120	4	NSYSBM404012
	500	120	6	NSYSBM405012
	600	120	6	NSYSBM406012
	800	120	6	NSYSBM408012

(1) For Bus box, divide by 2.

Steel industrial boxes

Mounting accessories

PB502100-20



PB502101-20



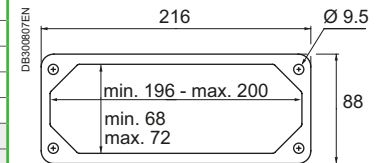
PB502099-16



PB502097-20



Mounting plate		DIN rail (2)	Post mounting	Coupling kit
-		Symmetrical DIN rails 35 x 7.5 mm.	Rail mounted externally to the rear of the box with 8 mm screws for installation on posts with diameters between 150 mm and 215 mm. For steel boxes with widths of 150, 200, 300, 400, 500, 600 and 800 mm.	Once FL21 cable openings as depicted below are made, SBM boxes can be coupled together in any combination.
Galvanised steel		Galvanised steel	Galvanised steel	-
-		-	-	-
-		-	-	IP55 according to IEC 60529
Mounting by means of 2* or 4 x Ø 5 mm self-tapping screws, Pozidriv head, ref. NSYAMFSB (3). Attachment points compatible with many other brands of accessories		Mounting by means of 2 x Ø 5 mm self-tapping screws, Pozidriv head, ref. NSYAMFSB (3)	-	For boxes bigger than 500 mm, order the same amount of units as the cable gland plate openings on the face of the box to be coupled, see table on page 38
-		-	100 kg	-
1 unit, supplied without screws		10 rails, supplied without screws	1 unit	1 gasket and necessary fixing hardware
Dimensions (mm)		References	References	References
H	W			
125	135	NSYMM11SB	NSYAMRD15357SB	NSYSFPSC15
125	135	NSYMM11SB	NSYAMRD15357SB	NSYSFPSC15
125	185	NSYMM12SB	NSYAMRD20357SB	NSYSFPSC20
125	185	NSYMM12SB	NSYAMRD20357SB	NSYSFPSC20
125	285	NSYMM13SB	NSYAMRD30357SB	NSYSFPSC30
125	285	NSYMM13SB	NSYAMRD30357SB	NSYSFPSC30
125	385	NSYMM14SB	NSYAMRD40357SB	NSYSFPSC40
125	385	NSYMM14SB	NSYAMRD40357SB	NSYSFPSC40
175	185	NSYMM22SB	NSYAMRD20357SB	NSYSFPSC20
175	185	NSYMM22SB	NSYAMRD20357SB	NSYSFPSC20
175	285	NSYMM23SB	NSYAMRD30357SB	NSYSFPSC30
175	285	NSYMM23SB	NSYAMRD30357SB	NSYSFPSC30
175	385	NSYMM24SB	NSYAMRD40357SB	NSYSFPSC40
175	385	NSYMM24SB	NSYAMRD40357SB	NSYSFPSC40
175	485	NSYMM25SB	NSYAMRD50357SB	NSYSFPSC50
175	485	NSYMM25SB	NSYAMRD50357SB	NSYSFPSC50
175	585	NSYMM26SB	NSYAMRD60357SB	NSYSFPSC60
175	585	NSYMM26SB	NSYAMRD60357SB	NSYSFPSC60
175	785	NSYMM28SB	NSYAMRD80357SB	NSYSFPSC80
275	285	NSYMM33SB	NSYAMRD30357SB	NSYSFPSC30
275	385	NSYMM34SB	NSYAMRD40357SB	NSYSFPSC40
275	485	NSYMM35SB	NSYAMRD50357SB	NSYSFPSC50
275	585	NSYMM36SB	NSYAMRD60357SB	NSYSFPSC60
275	785	NSYMM38SB	NSYAMRD80357SB	NSYSFPSC80
375	385	NSYMM44SB	NSYAMRD40357SB	NSYSFPSC40
375	485	NSYMM45SB	NSYAMRD50357SB	NSYSFPSC50
375	585	NSYMM46SB	NSYAMRD60357SB	NSYSFPSC60
375	785	NSYMM48SB	NSYAMRD80357SB	NSYSFPSC80



(2) Standard equipped in Bus box.

(3) All boxes are delivered with 5 x Ø 5 mm self-tapping screws.

* Only 2 screws for mounting plates with height 150 mm.

** Same reference for all dimensions. Only compatible with FL21 entry box and Bus box.

Steel industrial boxes

Fixing accessories



Characteristics				Flat box	
Colour					
Ingress protection rating					
Installation					
Maximum load					
Supply				1 unit	
Dimensions (mm)			Cover screws (1)	References	
Height	Width	Depth	Qty	SBM	
150	150	80	4	NSYSBM15158	
		120	4	NSYSBM151512	
	200	80	4	NSYSBM15208	
		120	4	NSYSBM152012	
	300	80	4	NSYSBM15308	
		120	4	NSYSBM153012	
	400	80	4	NSYSBM15408	
			4	NSYSBM154012	
120		4	NSYSBM20208		
		4	NSYSBM202012		
200	200	80	4	NSYSBM20308	
		120	4	NSYSBM203012	
	300	80	4	NSYSBM20408	
		120	4	NSYSBM204012	
	400	80	6	NSYSBM20508	
		120	6	NSYSBM205012	
	600	80	6	NSYSBM20608	
			6	NSYSBM206012	
		120	6	NSYSBM208012	
			6	NSYSBM303012	
	300	300	120	4	NSYSBM304012
		400	120	4	NSYSBM305012
500		120	6	NSYSBM306012	
600		120	6	NSYSBM308012	
800		120	6	NSYSBM404012	
400	400	120	4	NSYSBM405012	
	500	120	6	NSYSBM406012	
	600	120	6	NSYSBM408012	
	800	120	6	NSYSBM408012	

(1) For Bus box, divide by 2.

Steel wall-mounting enclosures

Steel wall-mounting enclosures

Contents

PB500196-22



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PB500086-54



Associated applicative offers

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Steel wall-mounting enclosures

Introduction

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



PB500199-48

PB500310-37



Useful life

Quality of the welding and the painting.

PB500199



Component security

- Water and dust tightness and impact resistance.
- EMC and ATEX offer.

PB500097-13



Increased choice

- Large range of universal dimensions.
- Application offer with special dimensions.

PB500199



Easy maintenance

- Removable hinges.
- 1 lock system from the height of 600 mm.
- 3-point lock from the height of 600 mm.

PB500304-32



Personnel safety

- Earthing studs welded to the body and door.

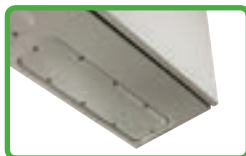
PB500306-32



Added value to your work

Quality and aesthetics.

PB500305-29



Easy equipping

- 4 10-mm shouldered welded studs.
- Broad range of mounting plates.
- Broad range of cable-gland plates.
- Wire guides welded to the door from the height of 400 mm.

DB300073-12



Easy handling

- Reusable, eco-friendly packaging.
- No sharp corners.

This range can be configured according to your needs

4 different services available:



Assemble to order



Mounting of standard accessories



Painting



Machining

See page 496 for details or consult our web site www.se.com

Steel wall-mounting enclosures

Characteristics



Characteristics	Spacial S3D
	<p>Three steel enclosure definitions are available:</p> <ul style="list-style-type: none"> ■ 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. <p>Personnel protection</p> <ul style="list-style-type: none"> ■ 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 286). ■ 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 64.
Material	Steel
Finish	Structured finish, epoxy-polyester powder
Colour	RAL 7035 grey
Ingress protection rating	<ul style="list-style-type: none"> ■ IP66 for the single-door enclosures and IP55 for the double-door enclosures, according to IEC 60529
Mechanical protection rating	IK10 for the plain-door enclosures and IK08 for the glazed-door enclosures according to IEC 62262
Standards	<p>Compliance with enclosure standards IEC 62208</p> <p>The Spacial S3D wall-mounting enclosures are compliant with the RoHS directive</p>
Certifications (see page 582)	<ul style="list-style-type: none"> ■ UL, CUL, BV, DNV, GL, ATEX (modified enclosure) ■ NEMA type 4, 4X for the single-door enclosures and NEMA type 12, 13 for the double-door enclosures according to NEMA 250 standard. Information on NEMA & UL classification on pages 587 and 588 <p>Nuclear decontamination: RAL 7035 and AFNOR A550 tests available on demand.</p> <p>More information on coating properties on pages 589 and 590</p> <ul style="list-style-type: none"> ■ Seismic behavior: 2,5G or 3G (details page 77)
Installation	<p>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)</p> <p>It is always advisable to install a canopy to avoid water stagnation on the upper part of the enclosure</p>
Fixing	4 (or 6**) M8 x 25 shouldered backstuds for installing mounting plates and step slides, leaving a space of 10 mm behind them.
Supply	<p>Body</p> <ul style="list-style-type: none"> ■ Single-piece body (cross-shaped structure). Gutter-shaped front profile with double fold. Flat rear ■ 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 68) ■ 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 58) <p>Door</p> <ul style="list-style-type: none"> ■ 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 66) ■ 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: <ul style="list-style-type: none"> <input type="checkbox"/> Operating key <input type="checkbox"/> 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: <ul style="list-style-type: none"> <input type="checkbox"/> 2 vertical rails from the height of 400 mm <input type="checkbox"/> 2 vertical rails and 2 horizontal rails from the width of 800 mm

* From the height of 800 mm.

** 6 studs for widths 1000 and 1200 (see pages 75 and 76).

Steel wall-mounting enclosures

Selection guide



Characteristics						Door			Mounting plate		
Dimensions (mm) (1)			No. of doors	IP	Weight (kg) (2)	Plain		Glazed	Plain	Silkscreened (3)	Microperforated
H	W	D				Without mounting plate	With mounting plate	Without mounting plate			
300	200	150	1	66	3.02	NSYS3D3215	NSYS3D3215P	-	NSYMM32	-	NSYMF32
	250	150	1	66	3.48	NSYS3D32515	NSYS3D32515P	NSYS3D32515T	NSYMM3025	-	-
	300	150	1	66	3.90	NSYS3D3315	NSYS3D3315P	NSYS3D3315T	NSYMM33	-	NSYMF33
		200	1	66	4.50	NSYS3D3320	NSYS3D3320P	NSYS3D3320T	NSYMM33	-	NSYMF33
400	150	1	66	4.82	NSYS3D3415	NSYS3D3415P	NSYS3D3415T	NSYMM43	NSYMS43	NSYMF43	
		200	1	66	5.60	NSYS3D3420	NSYS3D3420P	NSYS3D3420T	NSYMM43	NSYMS43	NSYMF43
	300	150	1	66	4.90	NSYS3D4315	NSYS3D4315P	NSYS3D4315T	NSYMM43	NSYMS43	NSYMF43
		200	1	66	5.00	NSYS3D4320	NSYS3D4320P	NSYS3D4320T	NSYMM43	NSYMS43	NSYMF43
400	200	1	66	6.50	NSYS3D4420	NSYS3D4420P	NSYS3D4420T	NSYMM44	NSYMS44	NSYMF44	
		200	1	66	10.50	NSYS3D4620	NSYS3D4620P	NSYS3D4620T	NSYMM64	NSYMS64	NSYMF64
	250	1	66	12.00	NSYS3D4625	NSYS3D4625P	NSYS3D4625T	NSYMM64	NSYMS64	NSYMF64	
		1	66	7.50	NSYS3D5320	NSYS3D5320P	NSYS3D5320T	NSYMM53	NSYMS53	NSYMF53	
500	300	200	1	66	9.30	NSYS3D5420	NSYS3D5420P	NSYS3D5420T	NSYMM54	NSYMS54	NSYMF54
		250	1	66	10.20	NSYS3D5425	NSYS3D5425P	NSYS3D5425T	NSYMM54	NSYMS54	NSYMF54
	500	200	1	66	11.18	NSYS3D5520	NSYS3D5520P	NSYS3D5520T	NSYMM55	NSYMS55	NSYMF55
		250	1	66	12.06	NSYS3D5525	NSYS3D5525P	NSYS3D5525T	NSYMM55	NSYMS55	NSYMF55
600	400	200	1	66	11.00	NSYS3D6420	NSYS3D6420P	NSYS3D6420T	NSYMM64	NSYMS64	NSYMF64
		250	1	66	12.00	NSYS3D6425	NSYS3D6425P	NSYS3D6425T	NSYMM64	NSYMS64	NSYMF64
	500	250	1	66	16.20	NSYS3D6525	NSYS3D6525P	NSYS3D6525T	NSYMM65	-	NSYMF65
		200	1	66	14.00	NSYS3D6620	NSYS3D6620P	NSYS3D6620T	NSYMM66	NSYMS66	NSYMF66
	600	250	1	66	15.00	NSYS3D6625	NSYS3D6625P	NSYS3D6625T	NSYMM66	NSYMS66	NSYMF66
		300	1	66	17.00	NSYS3D6630	NSYS3D6630P	NSYS3D6630T	NSYMM66	NSYMS66	NSYMF66
	400	1	66	19.00	NSYS3D6640	NSYS3D6640P	NSYS3D6640T	NSYMM66	NSYMS66	NSYMF66	
		300	1	66	25.50	NSYS3D6830	NSYS3D6830P	NSYS3D6830T	NSYMM86	NSYMS86	NSYMF86
700	500	250	1	66	15.00	NSYS3D7525	NSYS3D7525P	NSYS3D7525T	NSYMM75	NSYMS75	NSYMF75
800	600	200	1	66	21.00	NSYS3D8620	NSYS3D8620P	NSYS3D8620T	NSYMM86	NSYMS86	NSYMF86
		250	1	66	23.00	NSYS3D8625	NSYS3D8625P	NSYS3D8625T	NSYMM86	NSYMS86	NSYMF86
	300	1	66	25.00	NSYS3D8630	NSYS3D8630P	NSYS3D8630T	NSYMM86	NSYMS86	NSYMF86	
		400	1	66	29.00	NSYS3D8640	NSYS3D8640P	NSYS3D8640T	NSYMM86	NSYMS86	NSYMF86
	800	250	1	66	30.00	NSYS3D8825	NSYS3D8825P	NSYS3D8825T	NSYMM88	-	NSYMF88
		300	1	66	32.00	NSYS3D8830	NSYS3D8830P	NSYS3D8830T	NSYMM88	-	NSYMF88
	1000	300	1	66	38.00	NSYS3D81030	NSYS3D81030P	-	NSYMM108	-	NSYMF108
		300	2	55	43.50	NSYS3D81030DP	NSYS3D81030DP	-	NSYMM108	-	NSYMF108
1200	300	2	55	46.00	NSYS3D81230DP	NSYS3D81230DP	-	NSYMM128	-	NSYMF128	
1000	600	250	1	66	28.00	NSYS3D10625	NSYS3D10625P	NSYS3D10625T	NSYMM106	-	NSYMF106
		300	1	66	30.60	NSYS3D10630	NSYS3D10630P	NSYS3D10630T	NSYMM106	-	NSYMF106
		400	1	66	33.00	NSYS3D10640	NSYS3D10640P	NSYS3D10640T	NSYMM106	-	NSYMF106
	800	250	1	66	35.00	NSYS3D10825	NSYS3D10825P	NSYS3D10825T	NSYMM108	-	NSYMF108
		300	1	66	38.00	NSYS3D10830	NSYS3D10830P	NSYS3D10830T	NSYMM108	-	NSYMF108
		400	1	66	42.00	NSYS3D10840	NSYS3D10840P	NSYS3D10840T	NSYMM108	-	NSYMF108
	1000	300	1	66	46.00	NSYS3D101030	NSYS3D101030P	NSYS3D101030T	NSYMM1010	-	NSYMF1010
		300	2	55	46.00	NSYS3D101030DP	NSYS3D101030DP	NSYS3D101030DT	NSYMM1010	-	NSYMF1010
		300	2	55	53.00	NSYS3D101230DP	NSYS3D101230DP	-	NSYMM1210	-	NSYMF1210
	1200	400	2	55	60.00	NSYS3D101240DP	NSYS3D101240DP	-	NSYMM1210	-	NSYMF1210
			300	1	66	37.00	NSYS3D12630	NSYS3D12630P	NSYS3D12630T	NSYMM126	-
		600	400	1	66	42.00	NSYS3D12640	NSYS3D12640P	NSYS3D12640T	NSYMM126	-
300			1	66	45.00	NSYS3D12830	NSYS3D12830P	NSYS3D12830T	NSYMM128	-	NSYMF128
800		400	1	66	49.00	NSYS3D12840	NSYS3D12840P	NSYS3D12840T	NSYMM128	-	NSYMF128
		300	1	66	53.00	NSYS3D121030	NSYS3D121030P	NSYS3D121030T	NSYMM1210	-	NSYMF1210
1000	300	2	55	54.00	NSYS3D121030DP	NSYS3D121030DP	NSYS3D121030DT	NSYMM1210	-	NSYMF1210	
		400	2	55	61.00	NSYS3D121040DP	NSYS3D121040DP	-	NSYMM1210	-	NSYMF1210
	1200	300	2	55	64.00	NSYS3D121230DP	NSYS3D121230DP	-	NSYMM1212	-	2 x NSYMF126 +
		400	2	55	90.00	NSYS3D121240DP	NSYS3D121240DP	-	NSYMM1212	-	2 x NSYMF126 +
1400	1000	300	2	55	80.00	NSYS3D141030DP	NSYS3D141030DP	-	NSYMM1410	-	-

(1) For other dimensions, see our application offer, page 16.

(2) Enclosure without mounting plate.

(3) In inverted use, the marking is inverted.

Wall-fixing lugs



Steel: **NSYAEFPFSC**
 Stainless steel: **NSYAEFPFXSC**
 Page 58

Reinforcement for heavy loads



NSYAEFAHLBSC
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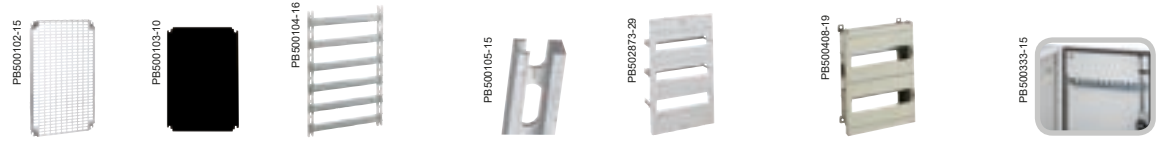
Locking accessories



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Steel wall-mounting enclosures

Selection guide



Characteristics			Mounting plate				Modular mounting plate				
Dimensions (mm)			Telequick	Bakelite	DIN rail chassis	Type	Aluminium vertical rails (4)	Modular chassis		No. of modules	Door cross-rails
H	W	D						DLA Insulated	DLM Steel		
300	200	150	NSYMR32	NSYMB32	-	-	NSYMDVR3	-	-	-	-
		250	NSYMR3025	NSYMB3025	-	-	NSYMDVR3	-	-	-	-
	300	150	NSYMR33	NSYMB33	NSYMD33	B	NSYMDVR3	-	-	-	-
		200	NSYMR33	NSYMB33	NSYMD33	B	NSYMDVR3	-	-	-	-
400	400	150	NSYMR34	NSYMB43	-	-	NSYMDVR3	-	-	-	-
		200	NSYMR34	NSYMB43	-	-	NSYMDVR3	-	-	-	-
	300	150	NSYMR43	NSYMB43	NSYMD43	B	NSYMDVR4	-	NSYDLM24	24	-
		200	NSYMR43	NSYMB43	NSYMD43	B	NSYMDVR4	NSYDLA24G	NSYDLM24	24	-
	400	200	NSYMR44	-	-	-	NSYMDVR4	-	-	-	NSYTFPCR4
		200	NSYMR46	NSYMB64	-	-	NSYMDVR4	-	-	-	NSYTFPCR6
500	300	200	NSYMR53	-	-	-	NSYMDVR5	-	-	-	-
		200	NSYMR54	NSYMB54	NSYMD54	B	NSYMDVR5	NSYDLA48G	NSYDLM48	48	NSYTFPCR4
	400	250	NSYMR54	NSYMB54	NSYMD54	B	NSYMDVR5	-	NSYDLM48	48	NSYTFPCR4
		200	NSYMR55	-	-	-	NSYMDVR5	-	-	-	NSYTFPCR5
	500	250	NSYMR55	-	-	-	NSYMDVR5	-	-	-	NSYTFPCR5
		200	NSYMR64	NSYMB64	NSYMD64	B	NSYMDVR6	NSYDLA48PG	NSYDLM48P	48	NSYTFPCR4
600	400	250	NSYMR64	NSYMB64	NSYMD64	B	NSYMDVR6	NSYDLA48PG	NSYDLM48P	48	NSYTFPCR4
		500	250	NSYMR65	NSYMB65	-	-	NSYMDVR6	-	-	-
	600	200	NSYMR66	-	NSYMD66	A	NSYMDVR6	-	NSYDLM84P	84	NSYTFPCR6
		250	NSYMR66	-	NSYMD66	A	NSYMDVR6	-	NSYDLM84P	84	NSYTFPCR6
	600	300	NSYMR66	-	NSYMD66	A	NSYMDVR6	-	NSYDLM84P	84	NSYTFPCR6
		400	NSYMR66	-	NSYMD66	A	NSYMDVR6	-	NSYDLM84P	84	NSYTFPCR6
800	300	NSYMR68	NSYMB86	NSYMD86	A	NSYMDVR6	-	-	-	NSYTFPCR8	
	500	250	NSYMR75	NSYMB75	NSYMD75	B	NSYMDVR7	NSYDLA66G	NSYDLM66	66	NSYTFPCR5
800	600	200	NSYMR86	NSYMB86	NSYMD86	A	NSYMDVR8	NSYDLA84G/NSYDLA112G	NSYDLM84	84*	NSYTFPCR6
		250	NSYMR86	NSYMB86	NSYMD86	A	NSYMDVR8	NSYDLA84G/NSYDLA112G	NSYDLM112	112*	NSYTFPCR6
		300	NSYMR86	NSYMB86	NSYMD86	A	NSYMDVR8	NSYDLA84G/NSYDLA112G	NSYDLM112	112*	NSYTFPCR6
		400	NSYMR86	NSYMB86	NSYMD86	A	NSYMDVR8	NSYDLA84G/NSYDLA112G	NSYDLM112	112*	NSYTFPCR6
	800	250	NSYMR88	-	-	-	NSYMDVR8	-	-	-	NSYTFPCR8
		300	NSYMR88	-	-	-	NSYMDVR8	-	-	-	NSYTFPCR8
1000	300	NSYMR810	NSYMB108	-	-	NSYMDVR8	-	-	-	NSYTFPCR10	
	300	NSYMR810	NSYMB108	-	-	NSYMDVR8	-	-	-	-	
	1200	300	2 x NSYMR86 +	2 x NSYMB86 +	2 x NSYMD86 +	A	NSYMDVR8	-	-	-	
1000	600	250	NSYMR106	NSYMB106	-	-	NSYMDVR10	-	NSYDLM168	168	NSYTFPCR6
		300	NSYMR106	NSYMB106	-	-	NSYMDVR10	-	NSYDLM168	168	NSYTFPCR6
		400	NSYMR106	NSYMB106	-	-	NSYMDVR10	-	NSYDLM168	168	NSYTFPCR6
	800	250	NSYMR108	NSYMB108	NSYMD108	A	NSYMDVR10	NSYDLA234G	NSYDLM240	234	NSYTFPCR8
		300	NSYMR108	NSYMB108	NSYMD108	A	NSYMDVR10	NSYDLA234G	NSYDLM240	234	NSYTFPCR8
		400	NSYMR108	NSYMB108	NSYMD108	A	NSYMDVR10	NSYDLA234G	NSYDLM240	234	NSYTFPCR8
1000	300	NSYMR1010 (5)	-	-	-	NSYMDVR10	-	-	-	NSYTFPCR10	
	300	NSYMR1010 (5)	-	-	-	NSYMDVR10	-	-	-	-	
1200	300	NSYMR1012 (5)	NSYMB1210	-	-	NSYMDVR10	-	-	-	-	
	400	NSYMR1012 (5)	NSYMB1210	-	-	NSYMDVR10	-	-	-	-	
1200	600	300	-	-	-	-	NSYMDVR12	-	-	-	-
		400	-	-	-	-	NSYMDVR12	-	-	-	-
	800	300	NSYMR128	-	NSYMD128	A	NSYMDVR12	-	-	-	NSYTFPCR8
		400	NSYMR128	-	NSYMD128	A	NSYMDVR12	-	-	-	NSYTFPCR8
	1000	300	NSYMR1210 (5)	NSYMB1210	-	-	NSYMDVR12	-	-	-	NSYTFPCR10
		300	NSYMR1210 (5)	NSYMB1210	-	-	NSYMDVR12	-	-	-	-
1200	400	NSYMR1210 (5)	NSYMB1210	-	-	NSYMDVR12	-	-	-	-	
	300	2 x NSYMR126 +	-	-	-	NSYMDVR12	-	-	-	-	
1400	1000	400	2 x NSYMR126 +	-	-	-	NSYMDVR12	-	-	-	-
		300	NSYMR1410 (5)	-	-	-	-	-	-	-	-

+ Order NSYCRNGSDR for double mounting of the mounting plates.

(4) Order nuts ref. NSYAMCSF. Steel siderail ref. NSYMDVR12.

(5) When width ≥ 1000 ref. NSYEMR is mandatory (see on page 75).

* Possible assembling to ref. NSYDLM84 or NSYDLM112.

Door accessories

Pages 280 to 284

Clip-on nuts

Page 248

Self-tapping screw

NSYS13M5HS

Page 249

Steel wall-mounting enclosures

Selection guide



Characteristics			Electronics and networks 19" racks				Cable-entry accessories Cable-gland plates				Composition accessories						
Dimensions (1) (mm)			Fixed	No. of U	Swing	No. of U	Entry type	Standard steel	Aluminium	Steel with cut-out for FL membrane (2)	FlexiCable	Internal door (3)	Step slides	Canopy	Fixing on post		
H	W	D															
300	200	150	-	-	-	-	A	NSYTLA	NSYTLAU	-	-	-	-	NSYTJ2015	-		
		250	150	-	-	-	A	NSYTLA	NSYTLAU	-	-	-	-	NSYTJ2515	-		
		300	150	-	-	-	B	NSYTLB	NSYTLBU	-	-	-	-	NSYTJ3015	NSYSFPSC30		
	400	200	-	-	-	-	C	NSYTLA	NSYTLAU	NSYTLBFL	-	-	-	NSYSDCR200	NSYTJ3020	NSYSFPSC30	
			150	-	-	-	B	NSYTLB	NSYTLBU	NSYTLBFL	-	-	-	-	NSYTJ4015	NSYSFPSC40	
		200	-	-	-	D	NSYTLA	NSYTLAU	NSYTLDFL	NSYTLDFME	-	NSYSDCR200	NSYTJ4020	NSYSFPSC40			
	400	300	150	-	-	-	B	NSYTLB	NSYTLBU	NSYTLBFL	-	NSYPIN43	-	NSYSDCR200	NSYTJ3015	NSYSFPSC30	
			200	-	-	-	C	NSYTLA	NSYTLAU	NSYTLDFL	NSYTLDFME	NSYPIN43	NSYSDCR200	NSYTJ3020	NSYSFPSC30		
		400	200	-	-	-	D	NSYTLA	NSYTLAU	NSYTLDFL	NSYTLDFME	-	NSYSDCR200	NSYTJ4020	NSYSFPSC40		
			600	200	NSYVDM8UF	8	NSYVDM7UP	7	F	NSYTLF	NSYTLFU	NSYTLFFL	NSYTLFME	-	NSYSDCR200	NSYTJ6020	NSYSFPSC60
		500	300	250	NSYVDM8UF	8	NSYVDM7UP	7	F	NSYTLF	NSYTLFU	NSYTLFFL	NSYTLFME	-	NSYSDCR250	NSYTJ6025	NSYSFPSC60
				200	-	-	-	C	NSYTLA	NSYTLAU	NSYTLDFL	NSYTLDFME	-	NSYSDCR200	NSYTJ3020	NSYSFPSC30	
600	400	200	-	-	-	D	NSYTLA	NSYTLAU	NSYTLDFL	NSYTLDFME	NSYPIN54	NSYSDCR200	NSYTJ4020	NSYSFPSC40			
		250	-	-	-	D	NSYTLA	NSYTLAU	NSYTLDFL	NSYTLDFME	NSYPIN54	NSYSDCR250	NSYTJ4025	NSYSFPSC40			
		500	200	-	-	-	E	NSYTLA	NSYTLAU	NSYTLDFL	NSYTLDFME	-	NSYSDCR200	NSYTJ5020	NSYSFPSC50		
	500	200	-	-	-	-	E	NSYTLA	NSYTLAU	NSYTLDFL	NSYTLDFME	-	NSYSDCR250	NSYTJ5025	NSYSFPSC50		
			250	-	-	-	E	NSYTLA	NSYTLAU	NSYTLDFL	NSYTLDFME	-	NSYSDCR250	NSYTJ5025	NSYSFPSC50		
		400	200	-	-	-	D	NSYTLA	NSYTLAU	NSYTLDFL	NSYTLDFME	NSYPIN64	NSYSDCR200	NSYTJ4020	NSYSFPSC40		
			250	-	-	-	D	NSYTLA	NSYTLAU	NSYTLDFL	NSYTLDFME	NSYPIN64	NSYSDCR250	NSYTJ4025	NSYSFPSC40		
		600	250	-	-	-	E	NSYTLA	NSYTLAU	NSYTLDFL	NSYTLDFME	-	NSYSDCR250	NSYTJ5025	NSYSFPSC50		
			800	200	NSYVDM12UF	12	NSYVDM11UP	11	F	NSYTLF	NSYTLFU	NSYTLFFL	NSYTLFME	-	NSYSDCR200	NSYTJ6020	NSYSFPSC60
	700	500	250	NSYVDM12UF	12	NSYVDM11UP	11	F	NSYTLF	NSYTLFU	NSYTLFFL	NSYTLFME	-	NSYSDCR250	NSYTJ6025	NSYSFPSC60	
			300	NSYVDM12UF	12	NSYVDM11UP	11	G	NSYTLG	NSYTLGU	NSYTLG2FL**	NSYTLGME	-	NSYSDCR300	NSYTJ6030	NSYSFPSC60	
			400	NSYVDM12UF	12	NSYVDM11UP	11	G	NSYTLG	NSYTLGU	NSYTLG2FL**	NSYTLGME	-	NSYSDCR400	NSYTJ6040	NSYSFPSC60	
800		300	-	-	-	-	D*	NSYTLA	NSYTLAU	NSYTLDFL	2 x NSYTLDFME	-	NSYSDCR300	NSYTJ8030	NSYSFPSC80		
		500	250	-	-	-	E	NSYTLA	NSYTLAU	NSYTLDFL	NSYTLDFME	NSYPIN75	NSYSDCR250	NSYTJ5025	NSYSFPSC50		
		600	200	NSYVDM17UF	17	NSYVDM16UP	16	F	NSYTLF	NSYTLFU	NSYTLFFL	NSYTLFME	NSYPIN86	NSYSDCR200	NSYTJ6020	NSYSFPSC60	
800		600	250	NSYVDM17UF	17	NSYVDM16UP	16	F	NSYTLF	NSYTLFU	NSYTLFFL	NSYTLFME	NSYPIN86	NSYSDCR250	NSYTJ6025	NSYSFPSC60	
			300	NSYVDM17UF	17	NSYVDM16UP	16	G	NSYTLG	NSYTLGU	NSYTLG2FL**	NSYTLGME	NSYPIN86	NSYSDCR300	NSYTJ6030	NSYSFPSC60	
			400	NSYVDM17UF	17	NSYVDM16UP	16	G	NSYTLG	NSYTLGU	NSYTLG2FL**	NSYTLGME	NSYPIN86	NSYSDCR400	NSYTJ6040	NSYSFPSC60	
		800	250	-	-	-	-	D*	NSYTLA	NSYTLAU	NSYTLDFL	2 x NSYTLDFME	-	NSYSDCR250	NSYTJ8025	NSYSFPSC80	
			300	-	-	-	-	D*	NSYTLA	NSYTLAU	NSYTLDFL	2 x NSYTLDFME	-	NSYSDCR300	NSYTJ8030	NSYSFPSC80	
			1000	300	-	-	-	E*	NSYTLA	NSYTLAU	NSYTLDFL	2 x NSYTLDFME	-	NSYSDCR300	NSYTJ10030	-	
	1200	300	-	-	-	-	E*	NSYTLA	NSYTLAU	NSYTLDFL	2 x NSYTLDFME	-	NSYSDCR300	NSYTJ10030	-		
		400	-	-	-	-	E*	NSYTLA	NSYTLAU	NSYTLDFL	2 x NSYTLDFME	-	NSYSDCR300	NSYTJ12030	-		
		600	250	NSYVDM21UF	21	NSYVDM20UP	20	F	NSYTLF	NSYTLFU	NSYTLFFL	NSYTLFME	NSYPIN106	NSYSDCR250	NSYTJ6025	-	
	1000	600	300	NSYVDM21UF	21	NSYVDM20UP	20	G	NSYTLG	NSYTLGU	NSYTLG2FL**	NSYTLGME	NSYPIN106	NSYSDCR300	NSYTJ6030	-	
			400	NSYVDM21UF	21	NSYVDM20UP	20	G	NSYTLG	NSYTLGU	NSYTLG2FL**	NSYTLGME	NSYPIN106	NSYSDCR400	NSYTJ6040	-	
			800	250	-	-	-	D*	NSYTLA	NSYTLAU	NSYTLDFL	2 x NSYTLDFME	NSYPIN108	NSYSDCR250	NSYTJ8025	-	
800		300	-	-	-	-	D*	NSYTLA	NSYTLAU	NSYTLDFL	2 x NSYTLDFME	NSYPIN108	NSYSDCR300	NSYTJ8030	-		
		400	-	-	-	-	D*	NSYTLA	NSYTLAU	NSYTLDFL	2 x NSYTLDFME	NSYPIN108	NSYSDCR400	NSYTJ8040	-		
		1000	300	-	-	-	E*	NSYTLA	NSYTLAU	NSYTLDFL	2 x NSYTLDFME	-	NSYSDCR300	NSYTJ10030	-		
1200		300	-	-	-	-	E*	NSYTLA	NSYTLAU	NSYTLDFL	2 x NSYTLDFME	-	NSYSDCR300	NSYTJ10030	-		
		400	-	-	-	-	E*	NSYTLA	NSYTLAU	NSYTLDFL	2 x NSYTLDFME	-	NSYSDCR300	NSYTJ12030	-		
		600	300	-	-	-	E*	NSYTLA	NSYTLAU	NSYTLDFL	2 x NSYTLDFME	-	NSYSDCR300	NSYTJ12030	-		
1200		600	400	-	-	-	E*	NSYTLA	NSYTLAU	NSYTLDFL	2 x NSYTLDFME	-	NSYSDCR300	NSYTJ12030	-		
			800	300	-	-	-	G	NSYTLG	NSYTLGU	NSYTLG2FL**	NSYTLGME	NSYPIN126	NSYSDCR300	NSYTJ6030	-	
			400	-	-	-	-	G	NSYTLG	NSYTLGU	NSYTLG2FL**	NSYTLGME	NSYPIN126	NSYSDCR400	NSYTJ6040	-	
	800	300	-	-	-	25	D*	NSYTLA	NSYTLAU	NSYTLDFL	2 x NSYTLDFME	NSYPIN128	NSYSDCR300	NSYTJ8030	-		
		400	-	-	-	25	D*	NSYTLA	NSYTLAU	NSYTLDFL	2 x NSYTLDFME	NSYPIN128	NSYSDCR400	NSYTJ8040	-		
		1000	300	-	-	-	E*	NSYTLA	NSYTLAU	NSYTLDFL	2 x NSYTLDFME	-	NSYSDCR300	NSYTJ10030	-		
	1200	300	-	-	-	-	E*	NSYTLA	NSYTLAU	NSYTLDFL	2 x NSYTLDFME	-	NSYSDCR300	NSYTJ10030	-		
		400	-	-	-	-	E*	NSYTLA	NSYTLAU	NSYTLDFL	2 x NSYTLDFME	-	NSYSDCR300	NSYTJ10030	-		
		600	300	-	-	-	E*	NSYTLA	NSYTLAU	NSYTLDFL	2 x NSYTLDFME	-	NSYSDCR300	NSYTJ12030	-		
	1400	1000	300	-	-	-	E*	NSYTLA	NSYTLAU	NSYTLDFL	2 x NSYTLDFME	-	NSYSDCR300	NSYTJ12030	-		
			400	-	-	-	E*	NSYTLA	NSYTLAU	NSYTLDFL	2 x NSYTLDFME	-	NSYSDCR300	NSYTJ12030	-		
			600	300	-	-	-	E*	NSYTLA	NSYTLAU	NSYTLDFL	2 x NSYTLDFME	-	NSYSDCR300	NSYTJ12030	-	

(1) For other dimensions, see our application offer, page 16.

(2) FL13 for entry type A and B FL21 for all other entries.

(3) To adjust the depth of the internal door, please order the step slides.

* 2 plates.

** Exists with 1 cut-out NSYTLGFL.

Steel wall-mounting enclosures

Selection guide



Characteristics			Composition accessories										
Dimensions (1) (mm)			Full width wall fixing lugs	Lateral plinth****		Plain front plinth (4)****		Support pillar adaptation plate	Support pillar	Floor stand kit for wall-mounting		Support bracket for enclosure with anti-tilt kit and reinforcement	
H	W	D		100 mm	200 mm	100 mm	200 mm			300 mm	400 mm	1400 mm (5)	
300	200	150	NSYAEFFFS3DW20	-	-	-	-	-	-	-	-	NSYCOENS1400	
		250	150	-	-	-	-	-	-	-	-	NSYCOENS1400	
	300	150	NSYAEFFFS3DW30	-	-	-	-	NSYAEFP315S3D	NSYCOEN80	-	-	NSYCOENS1400	
		200	NSYAEFFFS3DW30	-	-	-	-	NSYAEFP32S3D	NSYCOEN80	-	-	NSYCOENS1400	
	400	150	NSYAEFFFS3DW40	-	-	-	-	NSYAEFP315S3D	NSYCOEN80	-	-	NSYCOENS1400	
		200	NSYAEFFFS3DW40	-	-	-	-	NSYAEFP42S3D	NSYCOEN80	-	-	NSYCOENS1400	
400	300	150	NSYAEFFFS3DW30	-	-	-	-	NSYAEFP315S3D	NSYCOEN80	-	-	NSYCOENS1400	
		200	NSYAEFFFS3DW30	-	-	-	-	NSYAEFP32S3D	NSYCOEN80	-	-	NSYCOENS1400	
	400	200	NSYAEFFFS3DW40	-	-	-	-	NSYAEFP42S3D	NSYCOEN80	-	-	NSYCOENS1400	
		600	200	NSYAEFFFS3DW60	-	-	-	-	-	-	-	NSYCOENS1400	
	500	300	200	NSYAEFFFS3DW30	-	-	-	-	NSYAEFP32S3D	NSYCOEN80	-	-	NSYCOENS1400
		400	200	NSYAEFFFS3DW40	-	-	-	-	NSYAEFP42S3D	NSYCOEN80	-	-	NSYCOENS1400
600	400	200	NSYAEFFFS3DW40	-	-	-	-	NSYAEFP42S3D	NSYCOEN80	-	-	NSYCOENS1400	
		250	NSYAEFFFS3DW40	-	-	-	-	-	-	-	-	NSYCOENS1400	
	500	250	NSYAEFFFS3DW50	-	-	-	-	-	-	-	-	NSYCOENS1400	
		600	200	NSYAEFFFS3DW60	-	-	-	-	-	-	-	NSYCOENS1400	
	800	300	NSYAEFFFS3DW80	NSYSPS3100SD	NSYSPS3200SD	NSYSPF6100	NSYSPF6200	-	-	-	-	NSYCOENS1400	
		400	NSYAEFFFS3DW60	NSYSPS4100SD	NSYSPS4200SD	NSYSPF6100	NSYSPF6200	-	-	-	-	NSYCOENS1400	
700	500	250	NSYAEFFFS3DW50	-	-	-	-	-	-	-	-	NSYCOENS1400	
		600	200	NSYAEFFFS3DW60	-	-	-	-	-	-	-	NSYCOENS1400	
800	600	250	NSYAEFFFS3DW60	-	-	-	-	-	-	-	-	NSYCOENS1400	
		300	NSYAEFFFS3DW60	NSYSPS3100SD	NSYSPS3200SD	NSYSPF6100	NSYSPF6200	-	-	-	-	NSYCOENS1400	
	800	400	NSYAEFFFS3DW60	NSYSPS4100SD	NSYSPS4200SD	NSYSPF6100	NSYSPF6200	-	-	-	-	NSYCOENS1400	
		250	NSYAEFFFS3DW80	-	-	-	-	-	-	-	-	NSYCOENS1400	
	1000	300	NSYAEFFFS3DW80	NSYSPS3100SD	NSYSPS3200SD	NSYSPF8100	NSYSPF8200	-	-	NSYWMK33	NSYWMK34	NSYCOENS1400	
		300	NSYAEFFFS3DW100	NSYSPS3100SD	NSYSPS3200SD	NSYSPF10100	NSYSPF10200	-	-	NSYWMK33	NSYWMK34	NSYCOENS1400	
1000	600	300	NSYAEFFFS3DW100	NSYSPS3100SD	NSYSPS3200SD	NSYSPF10100	NSYSPF10200	-	-	-	-	NSYCOENS1400	
		1200	300	NSYAEFFFS3DW120	-	-	-	-	-	NSYWMK33	NSYWMK34	NSYCOENS1400	
	800	250	NSYAEFFFS3DW60	-	-	-	-	-	-	-	-	NSYCOENS1400	
		300	NSYAEFFFS3DW60	NSYSPS3100SD	NSYSPS3200SD	NSYSPF6100	NSYSPF6200	-	-	-	-	NSYCOENS1400	
	1000	400	NSYAEFFFS3DW60	NSYSPS4100SD	NSYSPS4200SD	NSYSPF6100	NSYSPF6200	-	-	-	-	NSYCOENS1400	
		250	NSYAEFFFS3DW80	-	-	-	-	-	-	-	-	NSYCOENS1400	
1200	600	300	NSYAEFFFS3DW60	NSYSPS3100SD	NSYSPS3200SD	NSYSPF8100	NSYSPF8200	-	-	NSYWMK33	NSYWMK34	NSYCOENS1400	
		400	NSYAEFFFS3DW60	NSYSPS4100SD	NSYSPS4200SD	NSYSPF8100	NSYSPF8200	-	-	NSYWMK43	NSYWMK44	-	
	800	300	NSYAEFFFS3DW100	NSYSPS3100SD	NSYSPS3200SD	NSYSPF10100	NSYSPF10200	-	-	NSYWMK33	NSYWMK34	NSYCOENS1400	
		300	NSYAEFFFS3DW100	NSYSPS3100SD	NSYSPS3200SD	NSYSPF10100	NSYSPF10200	-	-	NSYWMK33	NSYWMK34	NSYCOENS1400	
	1200	300	NSYAEFFFS3DW120	NSYSPS3100SD	NSYSPS3200SD	NSYSPF12100	NSYSPF12200	-	-	NSYWMK33	NSYWMK34	NSYCOENS1400	
		400	NSYAEFFFS3DW120	NSYSPS4100SD	NSYSPS4200SD	NSYSPF12100	NSYSPF12200	-	-	NSYWMK43	NSYWMK44	-	
1400	600	300	NSYAEFFFS3DW60	NSYSPS3100SD	NSYSPS3200SD	NSYSPF6100	NSYSPF6200	-	-	-	-	NSYCOENS1400	
		400	NSYAEFFFS3DW60	NSYSPS4100SD	NSYSPS4200SD	NSYSPF6100	NSYSPF6200	-	-	-	-	NSYCOENS1400	
	800	300	NSYAEFFFS3DW80	NSYSPS3100SD	NSYSPS3200SD	NSYSPF8100	NSYSPF8200	-	-	NSYWMK33	NSYWMK34	NSYCOENS1400	
		400	NSYAEFFFS3DW80	NSYSPS4100SD	NSYSPS4200SD	NSYSPF8100	NSYSPF8200	-	-	NSYWMK43	NSYWMK44	-	
	1000	300	NSYAEFFFS3DW100	NSYSPS3100SD	NSYSPS3200SD	NSYSPF10100	NSYSPF10200	-	-	NSYWMK33	NSYWMK34	NSYCOENS1400	
		300	NSYAEFFFS3DW100	NSYSPS3100SD	NSYSPS3200SD	NSYSPF10100	NSYSPF10200	-	-	NSYWMK33	NSYWMK34	NSYCOENS1400	
1200	300	NSYAEFFFS3DW120	NSYSPS3100SD	NSYSPS3200SD	NSYSPF12100	NSYSPF12200	-	-	NSYWMK33	NSYWMK34	NSYCOENS1400		
	400	NSYAEFFFS3DW120	NSYSPS4100SD	NSYSPS4200SD	NSYSPF12100	NSYSPF12200	-	-	NSYWMK43	NSYWMK44	-		
1400	1000	300	NSYAEFFFS3DW100	NSYSPS3100SD	NSYSPS3200SD	NSYSPF10100	NSYSPF10200	-	-	NSYWMK33	NSYWMK34	-	

(4) Also available in ventilated version with cable gland for widths of 600 and 800, see page 103.

(5) Available in version 1800 mm: ref. NSYCOENS1800.

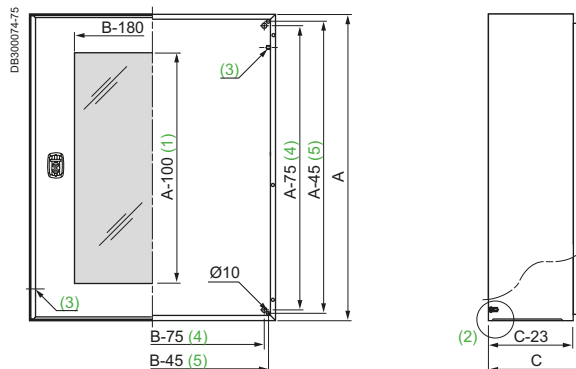
*** For the double mounting plates, order also ref. NSYSDRSDCR300 (D300) or NSYSDRSDCR400 (D400).

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

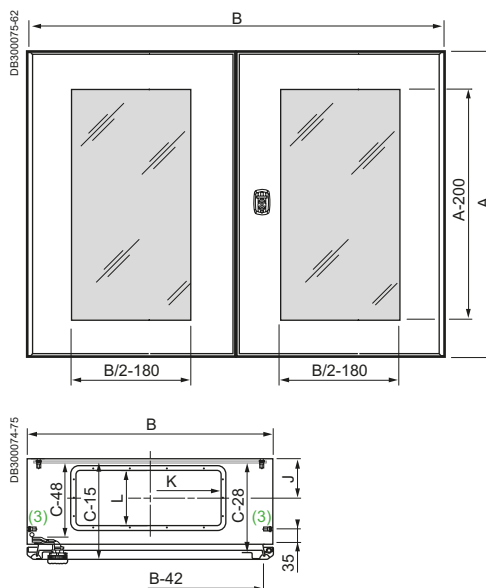
Steel wall-mounting enclosures

Dimensions

1-door enclosure



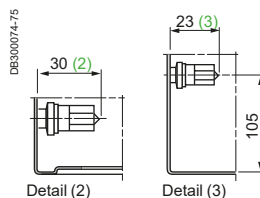
2-door enclosure



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

Enclosure (mm)		Cable-gland plate						
Width	Depth	Dim. (mm)	Type	No.	J	K	L	Références
200 - 250	150 - 250	140 x 80	A	1	57	115	55	NSYTLA
300 - 400	150	245 x 80	B	1	57	220	55	NSYTLB
300	200	245 x 130	C	1	80	220	105	NSYTLC
400	200 - 250	345 x 130	D	1	80	320	105	NSYTLD
500	200 - 250	445 x 130	E	1	80	420	105	NSYTLE
600	200 - 250	545 x 130	F	1	80	520	105	NSYTLF
600	300 - 400	495 x 220	G	1	126*	470	195	NSYTLG
800	250 - 300 - 400	345 x 130	D	2	95**	320	105	2 x NSYTLD
1000 - 1200	300 - 400	445 x 130	E	2	95	420	105	2 x NSYTLE

* Except enclosure 1000 x 600 x 400 mm, J = 140 mm.
 ** Except enclosure 600 x 800 x 300 mm, J = 80 mm.



- (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.

The DXF diagrams can be downloaded from our websites.

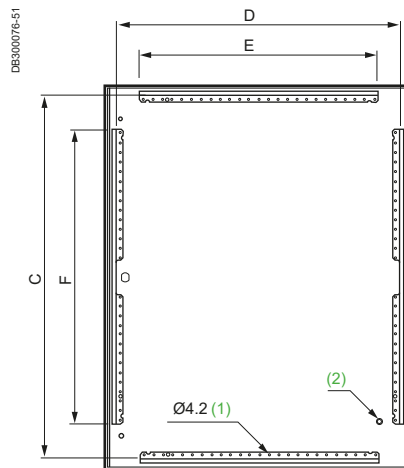
Steel wall-mounting enclosures

Dimensions

Perforated rails on plain door*

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	320	337	-	-	-	-	-	-	-	-	-	-
	600	320	537	-	-	-	-	-	-	-	-	-	-
500	300	370	237	-	-	-	-	-	-	-	-	-	-
	400	370	337	-	-	-	-	-	-	-	-	-	-
	500	370	437	-	-	-	-	-	-	-	-	-	-
600	400	370	337	-	-	-	-	-	-	-	-	-	-
	500	370	437	-	-	-	-	-	-	-	-	-	-
	600	370	537	-	-	-	-	-	-	-	-	-	-
	800	370	737	-	-	-	-	-	-	-	-	-	-
700	500	470	437	-	-	-	-	-	-	-	-	-	
800	600	570	537	-	-	-	-	-	-	-	-	-	-
	800	570	737	620	749	-	-	-	-	-	-	-	-
	1000	570	937	820	749	570	437	320	749	620	437	320	749
	1200	-	-	-	-	570	537	420	749	620	537	420	749
1000	600	770	537	420	949	-	-	-	-	-	-	-	-
	800	770	737	620	949	-	-	-	-	-	-	-	-
	1000	770	937	820	949	770	437	320	949	820	437	320	949
	1200	-	-	-	-	770	537	420	949	820	537	420	949
1200	600	970	537	420	1149	-	-	-	-	-	-	-	-
	800	970	737	620	1149	-	-	-	-	-	-	-	-
	1000	970	937	820	1149	970	437	320	1149	1020	437	320	1149
	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.



* The glazed doors are equipped with a vertical cable guide, on the hinge side.

- (1) Perforations in steps of 25 mm.
 (2) 1 M6 x 17.5 mm earthing stud.



Download

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

Steel wall-mounting enclosures

Specific accessories overview



Composition accessories

Fixing



Page 58

Floor



Page 61

Coupling



Page 62

Hoisting



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Protection



Page 63

Handles



Page 64

Locks



Page 65

Door accessories



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Cable-gland plates



Page 68

Mounting accessories



Page 75

Steel wall-mounting enclosures

Common accessories overview

Cable management

PB502439-65



Cable holding

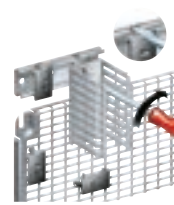
PB500986-40



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Cable ducting

PB500959-22



Page 271

Thermal management

Heaters

PB502050-29



Page 564

Ventilation

PB501044-26



Page 506

Cooling units

PB502614-15



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Others

Earthing

PB500217-29



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Installation accessories

PB500072-20

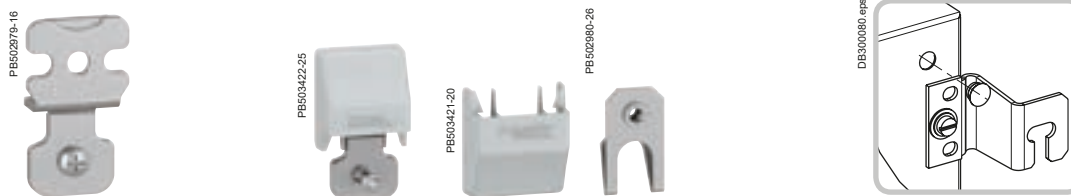


Page 214

Steel wall-mounting enclosures

Accessories

Fixing



Characteristics	Wall-fixing lugs			Kit for heavy loads	Wall-fixing lugs with wall-enclosure separation	
	Set of 4 wall-fixing lugs. Mounted directly on the rear of the enclosure, either in horizontal or vertical position. Wall-enclosure separation of 12 mm. Do not use for dynamic loads.			Covers.	Kit made up of 2 reinforcement pieces. To be mounted before installing the mounting plate in top position with the standard lugs (to be ordered separately). This kit is mandatory for wall-mounting enclosures bigger than 800 x 800 mm.	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.
Material	Passivated zinc-coated steel	304L stainless-steel	Passivated zinc-coated steel + PA	PA	Passivated zinc-coated steel	Passivated zinc-coated steel
Maximum load	250 kg			-	400 kg	100 kg
Supply	Supplied with fixing screws and pre-mounted sealing gaskets		4 fixing brackets + covers	Kit of 4 covers	-	-
References						
	For indoor enclosure	For outdoor enclosure				
	NSYAEFPFSC	NSYAEFPFXSC	NSYAEFPFSC2*	NSYCAEFPF	NSYAEFAHLBSC	NSYAEFPF40SC
	<p>Installation from the outside.</p> <p>Fixing centre-to-centre distance with lugs (M6/M8 screw)</p> <p>A: Enclosure height B: Enclosure width</p> <p>Vertical position. Horizontal position.</p>					

You will find the weights of the Spacial S3D enclosures without mounting plate in the selection guide on page 50.

Steel wall-mounting enclosures

Accessories

Fixing

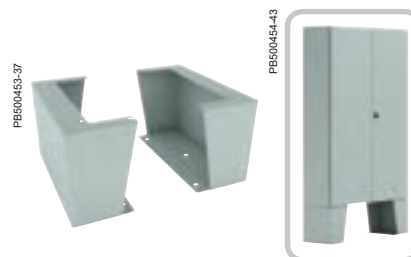
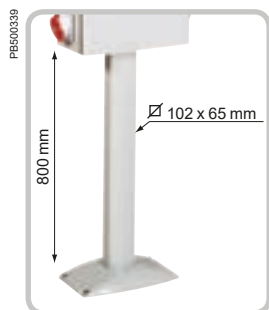


Characteristics	Full-width wall fixing lugs	Post-fixing device for Spacial steel enclosure
	Kit made of 2 parts (top and bottom). Screwed from the inside.	For indoor installations on posts with a maximum circumference of 675 mm (minimum diameter 150 mm and maximum diameter 215 mm). Rail fixed to the inserts in the rear of the enclosure with 8-mm screws. They allow the mounting of protection canopies.
Material	Passivated zinc-coated steel	Galvanised steel
Maximum load	350 kg	100 kg
Width (mm)	References	A (mm)
200	NSYAEFPFS3DW20	-
300	NSYAEFPFS3DW30	295
400	NSYAEFPFS3DW40	395
500	NSYAEFPFS3DW50	495
600	NSYAEFPFS3DW60	595
800	NSYAEFPFS3DW80	795
1000	NSYAEFPFS3DW100	-
1200	NSYAEFPFS3DW120	-
	<p>A: Width of enclosure</p>	

Steel wall-mounting enclosures

Accessories

Fixing



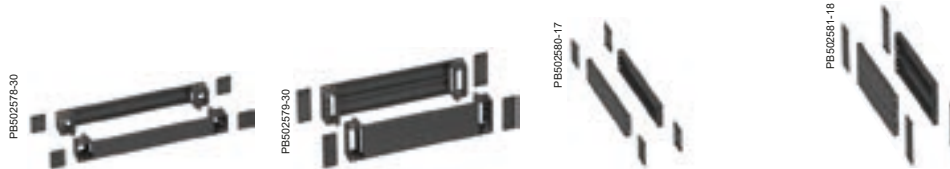
Characteristics	Support pillar	Support bracket for enclosure with anti-tilt kit and reinforcement	Floor Stand Kit for wall-mounting enclosure															
	The support pillar is fixed directly to the bottom face of the Spacial steel enclosure by means of an adapter plate. The latter, to be ordered in addition to the pillar, replaces the cable-gland plate. Overall height of the support foot: 800 mm. 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).	The support bracket is used when the enclosure cannot be hung from a wall or a post. Suitable for outdoor use. Maximum enclosure dimensions: 1000 x 800 x 300 mm. Floor attachment by standard M12 fastenings.	Set of 2 feet, elevating wall-mounting enclosures. Cut-outs needed on enclosure – drilling template provided with the kit.															
Material	Extruded aluminium	Steel	Steel															
Finish	Epoxy-polyester paint	Epoxy-polyester paint	Epoxy-polyester paint															
Colour	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey															
Thickness	-	-	■ Sides: 25/10° mm ■ Base: 30/10° mm															
Maximum load	-	120 kg	250 kg															
Supply	-	-	2 platform feet (right and left) and fixing elements															
Height (mm)	Reference	References	Enclosure depth Foot height References															
			mm Inches mm Inches															
800	NSYCOCN80	-	- - - - -															
1400	-	NSYCOCN1400	- - - - -															
1800	-	NSYCOCN1800	- - - - -															
-	-	-	300* 12 300 12 NSYWWMK33															
-	-	-	400** 16 300 12 NSYWWMK43															
-	-	-	300* 12 450 18 NSYWWMK34															
-	-	-	400** 16 450 18 NSYWWMK44															
			* 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. Compatible with Spacial S3D & S3DC enclosures.															
	Support pillar adaptation plate <p>Description: plate for fixing the support pillar on the enclosure. This plate replaces the cable-gland plate delivered with the enclosure. Material: steel Finish: polyester powder Colour: RAL 7035 grey</p>																	
	<table border="1"> <thead> <tr> <th colspan="2">For enclosure (mm)</th> <th>References</th> </tr> <tr> <th>Width</th> <th>Depth</th> <th></th> </tr> </thead> <tbody> <tr> <td>300-400</td> <td>150</td> <td>NSYAEFP315S3D</td> </tr> <tr> <td>300</td> <td>200</td> <td>NSYAEFP32S3D</td> </tr> <tr> <td>400</td> <td>200-250</td> <td>NSYAEFP42S3D</td> </tr> </tbody> </table>	For enclosure (mm)		References	Width	Depth		300-400	150	NSYAEFP315S3D	300	200	NSYAEFP32S3D	400	200-250	NSYAEFP42S3D		
For enclosure (mm)		References																
Width	Depth																	
300-400	150	NSYAEFP315S3D																
300	200	NSYAEFP32S3D																
400	200-250	NSYAEFP42S3D																

Steel wall-mounting enclosures

Accessories

Floor

For more information, see page 100.



Characteristics	Front and rear plinth	Plinth side panels			
	The front and rear of the plinth consists of 4 corners with 2 or 4 panels.	They are fixed to the corner of the plinth by 2 fixing screws.			
Material	Folded sheet steel, corner with a thickness of 25/10° mm	Folded sheet steel			
Finish	Epoxy-polyester paint	Epoxy-polyester paint			
Colour	RAL 7022 grey	RAL 7022 grey			
Ingress protection rating	IP30 according to IEC 60529	IP30 according to IEC 60529			
Mechanical protection rating	IK10 according to IEC 62262	IK10 according to IEC 62262			
Installation	It is necessary to order separately the plinth fixing kit (ref. NSYAPFWM) composed by fixing hardware and drilling jig				
Supply	<ul style="list-style-type: none"> ■ 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 	<ul style="list-style-type: none"> ■ 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 			
References					
Width (mm)	Depth (mm)	100 mm	200 mm	100 mm	200 mm
600	-	NSYSPF6100	NSYSPF6200	-	-
800	-	NSYSPF8100	NSYSPF8200	-	-
1000	-	NSYSPF10100	NSYSPF10200	-	-
1200	-	NSYSPF12100	NSYSPF12200	-	-
-	300	-	-	NSYSPS3100SD	NSYSPS3200SD
-	400	-	-	NSYSPS4100SD	NSYSPS4200SD

[!] Stainless-steel plinths (standard plinths page 127, ventilated plinths page 387) are compatible with steel wall-mounting S3D enclosures using an earthing cable reference NSYEL226D13 (description page 286) to be ordered separately.

Steel wall-mounting enclosures

Accessories

Coupling

PB500335-42



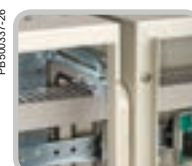
Installation example.

PB500336-34



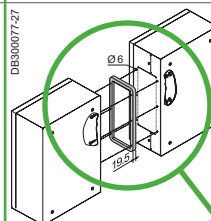
Version without cable entry.

PB500337-26



Version with cable entry.

Characteristics	Coupling of S3D steel enclosures
	Available in 2 versions: <ul style="list-style-type: none"> ■ 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. Allows lateral coupling of 2 enclosures. These frames allow the door to open to 120°.
Material	Polyester reinforced with fibreglass, self-extinguishing
Ingress protection rating	IP66 according to IEC 60529
Supply	<ul style="list-style-type: none"> ■ Kit made up of 4 spacers and their fixings (NSYAEUBUSC) ■ Mounting by screws, included
References	
Batch of 4 coupling spacers	NSYAEUBUSC
Coupling frame, 435 x 185 mm	NSYAEUBU41SC
Coupling frame, 635 x 185 mm	NSYAEUBU61SC

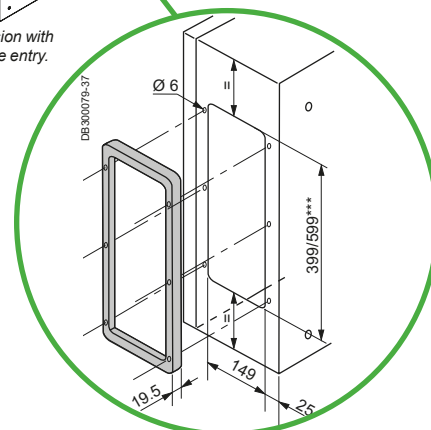


DB300077-27



Version without cable entry.

Version with cable entry.



DB-300078-37

Steel wall-mounting enclosures

Accessories

Hoisting

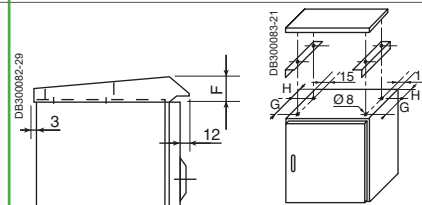


Characteristics	Eyebolts
	Set of two M8 eyebolts. They are fixed directly to the body of the floor-standing enclosure. Cannot be installed with the canopy in place or if it is planned to put one.
Material	Zinc-coated moulded steel
Maximum load	200 kg per enclosure when slinging at 60°
Supply	Reinforcing brackets attached to the rings (these brackets also act as a drilling template)
Reference	
Batch of 2 M8 eyebolts	NSYAELYTCR8

Protection



Characteristics	Protection canopy				
	Direct fixing to the body of the enclosure by 4 M6 screws. To be used for all outdoor installations.				
Material	Galvanised steel				
Finish	Epoxy-polyester paint				
Colour	RAL 7035 grey				
Supply	Delivered with the fixings required for installation				
Depth (mm)	Width (mm)	F (mm)	G (mm)	H (mm)	References
150	200	36	75	23	NSYTJ2015
	250	36	75	23	NSYTJ2515
	300	36	75	23	NSYTJ3015
	400	36	75	23	NSYTJ4015
	500	36	75	23	NSYTJ5015
200	500	36	130	23	NSYTJ5020
	600	36	130	23	NSYTJ6020
	250	36	130	23	NSYTJ2520
	300	36	130	23	NSYTJ3020
	400	36	130	23	NSYTJ4020
	800	36	130	23	NSYTJ8020
250	400	42	150	48	NSYTJ4025
	500	42	150	48	NSYTJ5025
	600	42	150	48	NSYTJ6025
	800	42	150	48	NSYTJ8025
300	600	42	200	48	NSYTJ6030
	800	42	200	48	NSYTJ8030
	1000	42	200	48	NSYTJ10030
	1200	42	200	48	NSYTJ12030
400	600	42	300	48	NSYTJ6040
	800	42	300	48	NSYTJ8040
	1000	42	300	48	NSYTJ10040
	1200	42	300	48	NSYTJ12040



Steel wall-mounting enclosures

Accessories

Handles

PB500343-19



PB500364-6

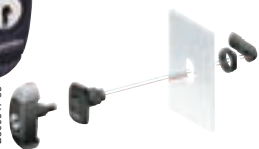


Characteristics	Standard handle	Handle lock operated using screwdriver insert
	<p>Operating handle delivered with the enclosure.</p> <ul style="list-style-type: none"> ■ It can be attached to the locking system by means of a fixing element. ■ It can also be used to loosen the caps protecting the studs when painting. 	-
References	NSYAEDLS3DKDB3	NSYTSMLS3D

PB500346-14



PB500347-35

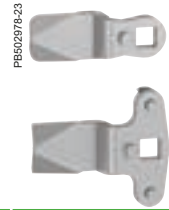
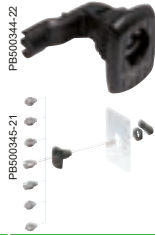


Characteristics	Standard handles with keys
	<p>Attractive and ergonomic bi-material handle.</p> <ul style="list-style-type: none"> ■ Large range of barrels covering all the most common needs. ■ The installation of the standard handle does not require the escutcheon to be removed. ■ Locks may only be operated using the supplied keys.
Composition	Delivered with 2 keys
References	
405	NSYAEDL405S3D
421	NSYAEDL421S3D
455	NSYAEDL455S3D
520	NSYAEDL520S3D
601	NSYAEDL601S3D
610E	NSYAEDL610S3D
705E	NSYAEDL705S3D
1242	NSYAEDL1242S3D
1332E	NSYAEDL1332S3D
1344E	NSYAEDL1344S3D
2124E	NSYAEDL2124S3D
2131A	NSYAEDL2131S3D
2132A	NSYAEDL2132S3D
2133A	NSYAEDL2133S3D
2241A	NSYAEDL2241S3D
2244E	NSYAEDL2244S3D
2314E	NSYAEDL2314S3D
2322A	NSYAEDL2322S3D
2331A	NSYAEDL2331S3D
2432E	NSYAEDL2432S3D
2433A	NSYAEDL2433S3D
3113A	NSYAEDL3113S3D
3123E	NSYAEDL3123S3D
3131A	NSYAEDL3131AS3D
3132A	NSYAEDL3132S3D
3432E	NSYAEDL3432S3D
3524E	NSYAEDL3524S3D
4322A	NSYAEDL4322S3D
4324E	NSYAEDL4324S3D
5124A	NSYAEDL5124S3D

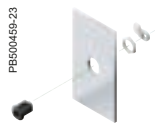
Steel wall-mounting enclosures

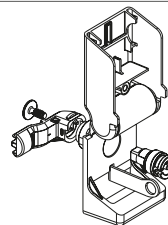
Accessories

Locks



Characteristics	Standard locks	Barrel DIN kit	Double bar 3 mm metal lock	Metal cam kit 1 point and 3 points
	Spacial S3D wall-mounting enclosures are supplied with a 3 mm double-bar lock as standard. <ul style="list-style-type: none"> ■ 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. 	<ul style="list-style-type: none"> ■ Mounting of half-cylinder according to DIN 18252 (EN1303). Cam can be turned every 45°. ■ Easy mounting instead of standard lock. ■ Compatible with PLM barrels offer. See page 174. (Example: NSYTL1242EME). 	Easy mounting instead of standard lock.	To adapt other locks.
Material	Zamack + polyamide	Polyamide GF	Zamak	Zinc-coated metal
Ingress protection rating	IP66 according to IEC 60529	IP66 according to IEC 60529	IP66 according to IEC 60529	-
Supply	Delivered with 1 plastic key	Delivered with metal cam 1 point and metal cam 3 points	Delivered with metal cam 1 point and metal cam 3 points	-
References				
-	-	NSYAEDDINS3D	NSYAEDLB3MS3D	NSYAEDLMETS3D
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			



Characteristics	Lock with screwdriver insert and metal latch	Padlock	Other locks with keys
	-	Easy mounting instead of the standard lock.	Easy mounting instead of the standard lock.
Material	Zamak	Zamak	Aluminium
Ingress protection rating	IP55 (IEC 60529)	IP66 (IEC 60529)	IP66 (IEC 60529)
Supply	Delivered with housing, insert, fixing nut and metal cam 3 points	Delivered with metal key	Delivered with metal cam 1 point and metal cam 3 points
References			
	NSYAEDLSDS3D	Padlockable (1) NSYAEDLPADS3D	EDF 900 NSYAEDLEDF9S3D EDF 1300 NSYAEDLEDF13S3D EDF 1400 NSYAEDLEDF14S3D
			

(1) Diameter 8 mm.

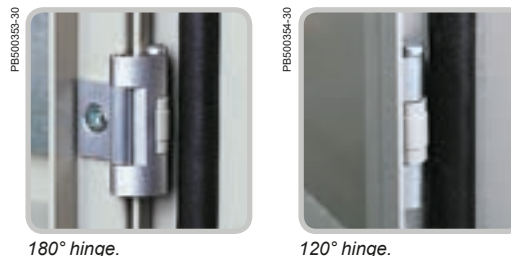


Characteristics	"Push-close" locking system
	The Spacial S3D enclosures can be transformed into push-close enclosures. <ul style="list-style-type: none"> ■ The push-close enclosure is used in various applications and fully meets the security demands of the market. ■ Locking system with a 6.5-mm push-close 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. ■ It is only installed on enclosures with 1 locking point (H < 600 mm). ■ Other dimensions: contact us.
Ingress protection rating	IP55 according to IEC 60529
References	
-	NSYAEDLPSS3D

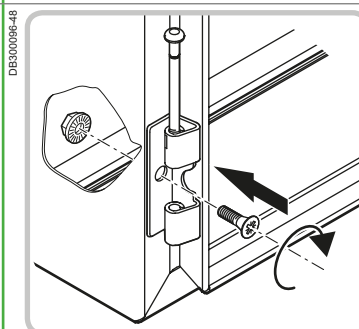
Steel wall-mounting enclosures

Accessories

Door accessories



Characteristics	Door hinges
	Captive pin, indexed by a spring.
Material	Zamak body for ref. NSYAEDH180S3D , treated sheet-steel body for ref. NSYAEDH120S3D , aluminium pin
Maximum load	<ul style="list-style-type: none"> ■ 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
Supply	Batch of 1 hinge, delivered with fixings
Models	References
180° hinge for S3D enclosure	NSYAEDH180S3D
Standard 120° hinge for S3D	NSYAEDH120S3D



	Door switch	Door retainer	
		Steel	Polyamide
See page	280	282	282
Supply	1	1	1
References	NSYINLCRN	NSYAEDRSCST	NSYAEDRS3DPA6

Steel wall-mounting enclosures

Accessories

Door accessories



Characteristics	Internal door
	<ul style="list-style-type: none"> ■ Locking with 3-mm double-bar lock. ■ 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.
Material	Steel
Colour	RAL 7035 grey
Maximum load	30 kg/m ²
Dimensions (mm)	References
H 400 x W 300	NSYPIN43
H 500 x W 400	NSYPIN54
H 600 x W 400	NSYPIN64
H 700 x W 500	NSYPIN75
H 800 x W 600	NSYPIN86*
H 1000 x W 600	NSYPIN106*
H 1000 x W 800	NSYPIN108*
H 1200 x W 600	NSYPIN126*
H 1200 x W 800	NSYPIN128*
	<p>Installation on the front of the enclosure (A) or installation on step slides (B).</p>

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

(1) Dimension resulting from installation on step slides: B-83 mm.

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

Steel wall-mounting enclosures

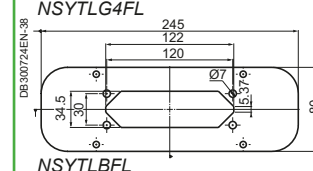
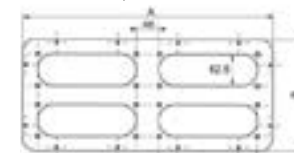
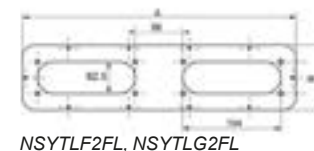
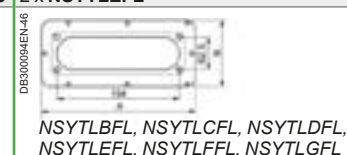
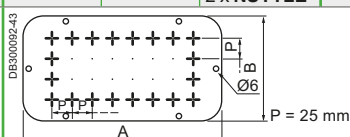
Accessories

Cable-gland plates



Characteristics	Standard cable-gland plate	Aluminium cable-gland plate	Cable-gland plates with FL type cut-out for cable-gland membranes
	Plate delivered as standard with the Spacial S3D universal enclosure. Surface with markings in steps of 25 mm, to facilitate drilling.	Suitable for non-magnetic applications.	Mounting instead of the Spacial S3D plate. Cut-outs for installation of membranes type FL 21 (1), page 265.
Material	Steel, structured finish RAL 7035	Brushed-finish aluminium	Steel, structured finish RAL 7035
Thickness	15/10° mm	30/10° mm	15/10° mm
Ingress protection rating	IP66 according to IEC 60529	IP66 according to IEC 60529	-
Fixing	Fixing by 4, 6, 8, 10 or 12 screws, according to the model	Fixing by 4, 6, 8, 10 or 12 screws, according to the model	Fixing by 4, 6, 8, 10 or 12 screws, according to the model
Other characteristics	-	-	-
Supply	Delivered with sealing gasket and fixing hardware	Delivered with sealing gasket and fixing hardware	Delivered with sealing gasket and fixing hardware

For wall-mounting enclosures (mm)		Type	Plate dimensions (mm)		References					
Width	Depth		Width (A)	Depth (B)	No. of Ø 6 holes	No. of markings		No. of Ø 6 holes		
200-250	150	A	140	80	4	4	NSYTLA	4	NSYTLAU	NSYTALFL (4)
300-400	150	B	245	80	4	7	NSYTLB	4	NSYTLBU	NSYTLBFL (3)
300	200	C	245	130	6	21	NSYTL C	6	NSYTL CU	NSYTL CFL
400	200-250	D	345	130	8	33	NSYTL D	8	NSYTL DU	NSYTL DFL
500	200-250	E	445	130	8	45	NSYTL E	9	NSYTL EU	NSYTL EFL
600	200-250	F	545	130	10	57	NSYTL F	10	NSYTL FU	NSYTL FFL
										NSYTL F2FL (2)
	300-400	G	495	220	12	102	NSYTL G	12	NSYTL GU	NSYTL GFL
										NSYTL G2FL
										NSYTL G4FL (2)
800	250-300-400	D*	345	130	-	-	2 x NSYTL D	-	2 x NSYTL DU	2 x NSYTL DFL
1000-1200	300-400	E*	445	130	-	-	2 x NSYTL E	-	2 x NSYTL EU	2 x NSYTL EFL



* 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) NSYTALFL cannot be mounted on enclosure width 200 and depth 150.

Steel wall-mounting enclosures

Accessories

Cable-gland plates

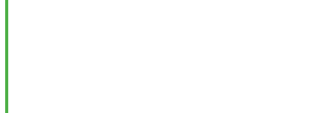


FlexiCable cable entries	
<p>FlexiCable is an innovative cable-gland plate for simple and fast cable entrance. There is no need to drill holes: the creation of the cable entrances takes a few seconds.</p> <ul style="list-style-type: none"> ■ Installation possibilities: replaces cable-gland plate (S3D) or directly on enclosure. ■ Cable diameter: up to 26 mm. 	
-	
-	
IP55 according to IEC 60529	
Fixing by 4, 6, 8, 10 or 12 screws, according to the model	
<ul style="list-style-type: none"> ■ Exists in 5 sizes matching 46 sizes (132 models) of Spacial S3D steel wall-mounting enclosures ■ Fire resistant 650°C following IEC 60695-2-11 ■ Tested on short-circuit effect 250 A, 25 kA following IEC 61439-1 ■ 1 metallic frame with pre-mounted membrane ■ 1 gasket ■ Fixing hardware 	

Effective cable entrance dimensions (mm)	
-	-
178 x 63	NSYTLME
278 x 63	NSYTLME
378 x 63	NSYTLME
478 x 63	NSYTLME
428 x 153	NSYTLGME
-	2 x NSYTLME
-	2 x NSYTLME

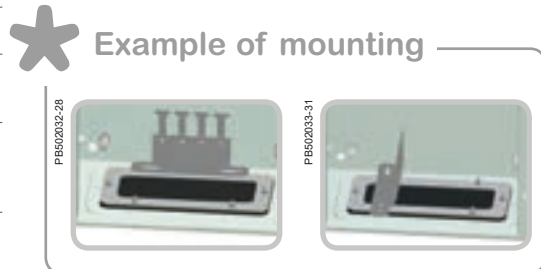


FlexiCable repair kit	
To fill-in unused holes. Tube of 90 ml.	
Reference NSYTLREP	



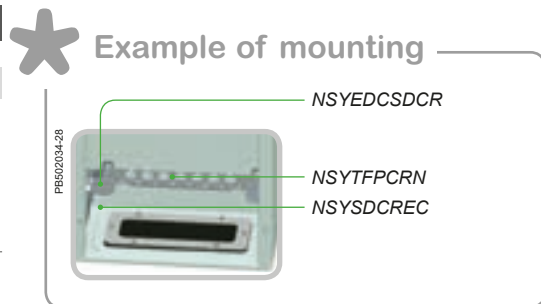
Cable management solutions for Flexicable plate

Cable-guide to be mounted directly on Flexicable plate		
Description	Supply	Reference
Cable-guide for Flexicable plate	1	NSYEDCME



Cable-guide to be mounted on adjustable step slides

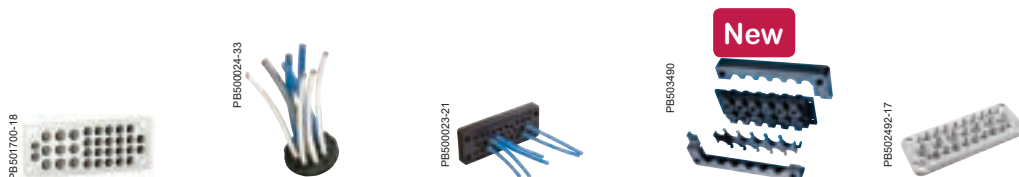
Cable-guide to be mounted on adjustable step slides		
<ul style="list-style-type: none"> ■ To be mounted on adjustable step slides NSYSDCREC●● or NSYSDCR●●. ■ Direct mounting of cable guides NSYTFPCRN●● on bracket. 		
Description	Supply	References
Bracket for adjustable step slide	2	NSYEDCSDCR
Adjustable step slide, depth 200 mm depth 250 mm depth 300 mm depth 400 mm	2	NSYSDCREC200
	2	NSYSDCREC250
	2	NSYSDCREC300
	2	NSYSDCREC400
Cable-guide for wall-mounting enclosure, door width 400 mm 500 mm 600 mm 800 mm 1000 mm	2	NSYTFPCRN4
	2	NSYTFPCRN5
	2	NSYTFPCRN6
	2	NSYTFPCRN8
	2	NSYTFPCRN10



Steel wall-mounting enclosures

Accessories

Cable entries overview



Characteristics	Multi-A	Multi-C	Multi-R	Multi-CS	Multi-T
	FL13 & FL21 type membranes.	Circular connector-free entries.	Rectangular connector-free entries.	Modular entry allowing the passing of up to 48 pre-assembled cables.	FL21-type membranes.
Material	TPE, SBS, SEBS and PP co-polymer - halogen free	Polyamide	Polyamide	Reinforced polypropylene and TPE. Halogen free	TPE
Colour	RAL 7035	-	-	Black	RAL 7035
Cable entry material	Combined	Soft membrane			
Cable glands to be fitted	Optional: specific cable clamp ref. NSYAECPLACA●● to be used	No	No	No	No
Installation possibilities	On cable gland plate adapter or directly on enclosure	On modified cable gland plate or directly on enclosure	On cable gland plate with special cut-out or directly on enclosure	On cable gland plate adapter or directly on enclosure	
Flexibility of the installation	Medium	Medium	Medium	Full	Medium
Reversibility	Medium	Full	Full	Full	Medium
Ingress protection rating	IP55 according to IEC 60529	IP55 according to IEC 60529	IP55 according to IEC 60529	IP55 according to IEC 60529	IP66 according to IEC 60529***
Cable retention	High with cable clamp, (up to 18 daN)	Medium	Medium	Medium	Low
Cable diameter (mm)	From 13 to 30	From 3 to 15.9	From 4.3 to 15.9	Up to 22	From 5 to 60
Cable Installation time	Moyenne	Fast	Fast	Fast	Fast
Quantity of cables to be fitted for a given surface	++	++	++	+++	++
Cable entries for cables with connectors	No	No	No	Yes	No
Cut-out dimensions (mm)	134 x 52 (FL13) 214 x 90 (FL21)	Ø 50.5 Ø 63.5	112 x 36	112 x 36	214 x 90 (FL21)
External dimensions (mm)	216 x 84	Ø 58 Ø 71	146 x 14 x 58	148 x 58 x 15 148 x 58 x 18	214 x 88
Certificates	Cable anchorage pull test: EN 50262. Long term UV-resistance: ASTM G 154-06	■ UL 94 V-0	■ UL 94 V-0	■ UL 94 V-0 ■ Fire resistance: V0	UL 94 V-0
Flame resistance	750°C	650°C	650°C	-	650°C
Temperature range	-40°C to +85°C	-	-	-30°C to +100°C	-40°C to +100°C
References*	NSYAECPLA7 NSYAECPLA10 NSYAECPLA25 NSYAECPLA33	NSYTSAM504SE NSYTSAM508SE NSYTSAM638SE NSYTSAM6313SE	NSY TSA2414SE NSY TSA2417SE NSY TSA2422SE NSY TSA2423SE NSY TSA2429SE	NSYDCD2412 NSYDCD244 NSYDCD248 NSYDCD249	NSYAECPLBP** NSYAECPLT7 NSYAECPLT25 NSYAECPLT35
See page	258	259	259	262	260

* For details, type the reference in the search engine of www.schneider-electric.com.

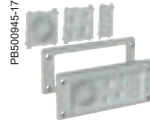
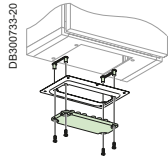
** Metallic plate.

*** IP65 for NSYAECPLBP.

Steel wall-mounting enclosures

Accessories

Cable entries overview



Characteristics	Prisma	Multi-F	Multi-CF	Multi-CR	Multi-H
	FL21 or rectangular.	FL13 & FL21 pre-configured flanges.	Cable entry for protected cables.	Cable entries with dies for cables equipped with connectors.	FL21 insulated flange for cables equipped with ISO knockouts.
Material	Insulating material	Fibreglass-reinforced polypropylene and TPE - Halogen Free	Reinforced polypropylene and TPE. Halogen free	Polyamide	Polycarbonate glass-fiber reinforced
Colour	RAL 9001	RAL 7035	Black	-	RAL 7035
Cable entry material	Soft membrane			Hard plastic	
Cable glands to be fitted	No	No	No	Yes	Yes
Installation possibilities	On cable gland plate adapter or directly on enclosure				
Flexibility of the installation	Medium	Medium	Full	Low	Low
Reversibility	Medium	Medium	Full	Medium	Medium
Ingress protection rating	IP55 according to IEC 60529	IP65 according to IEC 60529	IP65 according to IEC 60529	IP54 according to IEC 60529	IP65 according to IEC 60529
Cable retention	Low	Low	Medium	High (with fastener)	High (with cable clamp)
Cable diameter (mm)	From 28 to 60 (FL21) From 7 to 72 (rectangular)	From 16 to 50	From 9 to 30	From 3 to 31	From 12 to 25
Cable Installation time	Fast	Fast	Fast	Slow	Slow
Quantity of cables to be fitted for a given surface	++	++	+++	++	++
Cable entries for cables with connectors	No	No	Yes	Yes	No
Cut-out dimensions (mm)	214 x 90 (FL21)	134 x 52 (FL13) 214 x 90 (FL21)	112 x 36	36 x 91 (NSYDCE168) 36 x 112 (NSYDCE24*)	214 x 90 (FL21)
External dimensions (mm)	216 x 84	From 134 x 52 to 214 x 90	148 x 60 x 10	146 x 58	215 x 85
Certificates	-	<ul style="list-style-type: none"> ■ UL 94-HB ■ Test standard EN 60529:1991 + A1 EN 60670-1:2005, EN 50262:1998 EMKO-TUI (03-SEC) F1001/84. Semko report 816003 ■ UL-approved materials 	<ul style="list-style-type: none"> ■ UL 94-HB ■ Fire resistance: V0 	-	UL 94 V-1
Flame resistance	-	-	-	650 °C	750 °C
Temperature range	-	-20°C to +125°C (1)	-30°C to +70°C	-40°C to +80°C	<ul style="list-style-type: none"> ■ For normal operation: -40°C to +80°C ■ For a short time: -40°C to +120°C
References*					
	08881 08892 08895 08897 08898 08899	NSYAECPKFL11 NSYAECPKFL7A NSYAECPKFL10	NSYTLK2414 NSYTLK2422 NSYTLK2428 NSYTLK2446 NSYTLK244M	NSYDCE168 NSYDCE240 NSYDCE244 NSYDCE2410	NSYTSKFL
See page	264	261	263	261	260

* For details, type the reference in the search engine of www.schneider-electric.com.

(1) "Pop-out" membranes only.

Steel wall-mounting enclosures

Accessories

Cable entries overview

PB500264-52



PB500775-16



PB500267-10



PB500976-11



Characteristics	Simple-1	Simple-2	Simple-3	Simple-4
	Mixed membrane entries for enclosure thickness 20/10° - 32/10° mm.	PVC adjustable cone-shaped entries for enclosure thickness 30/10° - 32/10° mm.	Quick cable entries for enclosure thickness 10/10° - 40/10° mm (5/10° - 20/10° mm for ref. IMT36179).	PVC adjustable cone-shaped entries for PG tubes or for enclosure thickness 12/10° - 15/10° mm.
Material	SBS	PVC	EPDM plastic	PVC
Colour	RAL 7035 light grey or RAL 9010 white	-	<ul style="list-style-type: none"> ■ Grey cable entries: NCS 5500 ■ Black cable entries: NCS 9000 	Black
Cable entry material	Soft membrane		Combined	
Cable glands to be fitted	Not applicable			
Installation possibilities	On cable gland plate or directly on enclosure			
Flexibility of the installation	Low			
Reversibility	Medium			
Ingress protection rating	IP55 according to IEC 60529	IP55 according to IEC 60529	IP67 according to IEC 60529	IP55 according to IEC 60529
Cable retention	Low	Low	Medium	Low
Cable diameter (mm)	From 20 to 40	From 5 to 87	From 12 to 50	From 16 to 44
Cable Installation time	Fast	Fast	Fast	Fast
Quantity of cables to be fitted for a given surface	+	+	+	+
Cable entries for cables with connectors	No	No	No	No
Cut-out dimensions (mm)	Various circular hole diameters according to cable diameter			
External dimensions (mm)	From Ø 23 to 44	From Ø 25 to 98	From Ø 12.5 to 50.7	From Ø 25 to 52
Certificates	-	-	-	-
Standard	-	-	-	-
Flame resistance	750°C	-	750°C	-
References*	ISM71071 ISM71072 ISM71073 ISM71074 IMT36172 IMT36173	NSYECPC3 NSYECPC5 NSYECPC6 NSYECPC9 NSYECPC15	IMT36179 IMT36180 IMT36181 IMT36182 IMT36183 IMT36184 IMT36185	NSYEC1 NSYEC3 NSYEC4 NSYEC5 NSYEC7
See page	266	266	267	267

* For details, type the reference in the search engine of www.schneider-electric.com.

Steel wall-mounting enclosures

Accessories

Cable entries overview



PB500095-9



PB500349-4

New



PB500349-3

New

Caractéristiques	Simple-5	Synthetic snap in cable gland	Stainless steel cable gland with lamellar insert
	Presse-étoupe ISO.	Without thread. Easy assembly and disassembly. Suitable for walls from 0.5 to 4 mm thick.	Lamellar technology provides excellent resistance to traction as well as excellent torsional protection. For outdoor use, or for aggressive environments.
Material	PA6 Polyamide, neoprene gasket	PA6 Polyamide, neoprene gasket	Stainless steel AISI 304L or AISI 316L, neoprene gasket
Colour	RAL 7035 grey	RAL 7035, RAL 7001, RAL 9005. Other colours on demand	-
Cable entry material	Combined	Non armoured	Non armoured
Installation possibilities	On cable gland plate or directly on enclosure		
Flexibility of the installation	Low		
Reversibility	Medium		
Ingress protection rating	IP68	IP66	IP68
Cable retention	High	High	High
Cable diameter (mm)	From 12 to 40	From 16 to 40	From 12 to 40
Cable Installation time	Slow	Slow	Slow
Quantity of cables to be fitted for a given surface	+	+	+
Cable entries for cables with connectors	No	No	No
Thread type	-	Metric EN 60423 Other types are available on demand	Metric EN 60423
Cut-out dimensions (mm)	Various circular hole diameters according to cable diameter		
External dimensions (mm)	From Ø 15 to 46	From Ø 22 to 46	From Ø 14 to 43
Certificates	Glow wire resistance: 960°C	UL 94 V-2 (except for the size M40)	UL 94 V-2
Standard	Compliance with VDE, UL and CSA	DIN EN 62444, UL 514B, UL 514B§8.26.7	DIN EN 62444, UL 514
Flame resistance	750 °C	-	-
Temperature range	-	-20°C to + 100°C	-20°C to + 100°C
References*			AISI 304L AISI 316L
	ISM71501	NSYCGSP16	NSYCGX12 NSYCGX12H
	ISM71502	NSYCGSP20	NSYCGX16 NSYCGX16H
	ISM71503	NSYCGSP25	NSYCGX20 NSYCGX20H
	ISM71504	NSYCGSP32	NSYCGX25 NSYCGX25H
	ISM71505	NSYCGSP40	NSYCGX32 NSYCGX32H
	ISM71506		NSYCGX40 NSYCGX40H
	IMT36150		
See page	266	267	267

* For details, type the reference in the search engine of www.schneider-electric.com.

Steel wall-mounting enclosures

Accessories

Mounting rail



PB503347-30

Ease of installation



PB503348-30

Door switch mounting possibility



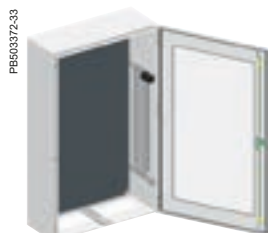
PB503370-38

With DIN rail



PB503371-40

With light cross rails and cage nut



PB503372-33

With quick-fixing cross rail



PB503345-40

Characteristics	Mounting rail
	<ul style="list-style-type: none"> ■ Accessory designed to optimize the available space in the cubicle. ■ It is intended for the installation of switchgear complementing the chassis. ■ Mounting possible after installing the mounting plate. ■ It is mounted horizontally, with a single screw, on the side panels. ■ Door switch mounting possibility. ■ It is possible to vertically fasten NSYSLCR●● light cross rails (description on page 233) and NSYSQCR●● quick-fixing cross rails (description on page 231).
Material	Galvanised steel
Maximum load	<ul style="list-style-type: none"> ■ Static load: 6 kg (sides) and 1,5 kg (top) ■ Dynamic load (transport horizontally): 2 kg according to ASTM D-4169-16
Installation	In order to ensure the electrical continuity in all cases we recommend using an earthing cable NSYEL●●D6 or NSYEL●●D8, see page 286
Supply	Set of 2 cross rails
Cubicle depth (mm)	References
200	NSYSUCR200WM
250	NSYSUCR250WM
300	NSYSUCR300WM
400	NSYSUCR400WM



PB503346-51

Steel wall-mounting enclosures

Additional information

PB500386-34

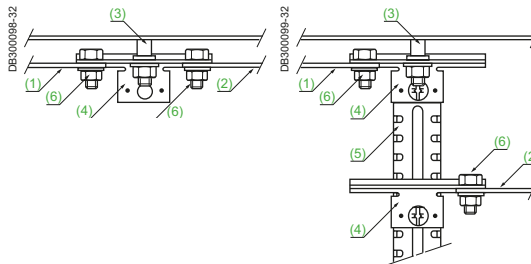


- (1) Left mounting plate.
- (2) Right mounting plate.
- (3) Central backstud.
- (4) Bracket ref. NSYCRNGSDR with 2 M8 x 20 mm screws.
- (5) Step slide ref. NSYDRSDCR300 (depth 300), NSYDRSDCR400 (depth 400).
- (6) M8 x 20 mm screw.

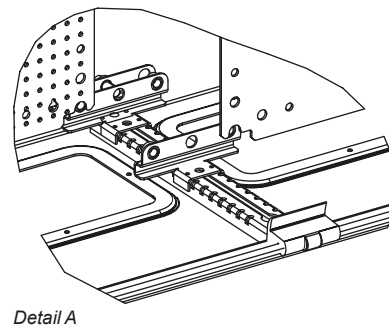
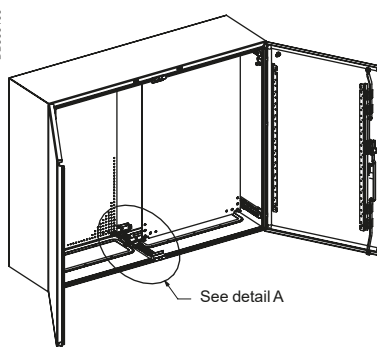
Installation of 2 mounting plates in the enclosures with width of 1000 or 1200 mm and depth of 300 or 400 mm

Step slides, page 218.

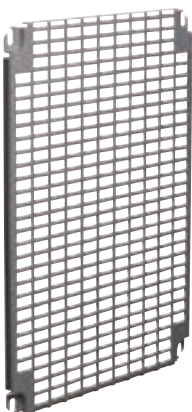
- 1 - On the 6 backstuds
- 2 - Two offset mounting plates with depthwise adjustment



DB300100



PB500387-34



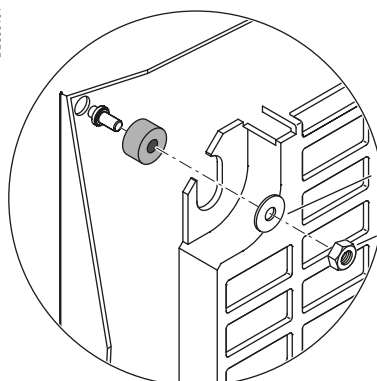
Installation of Telequick mounting plates

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

Reference

NSYEMR

DB300101



Steel wall-mounting enclosures

Additional information

PB500388-54

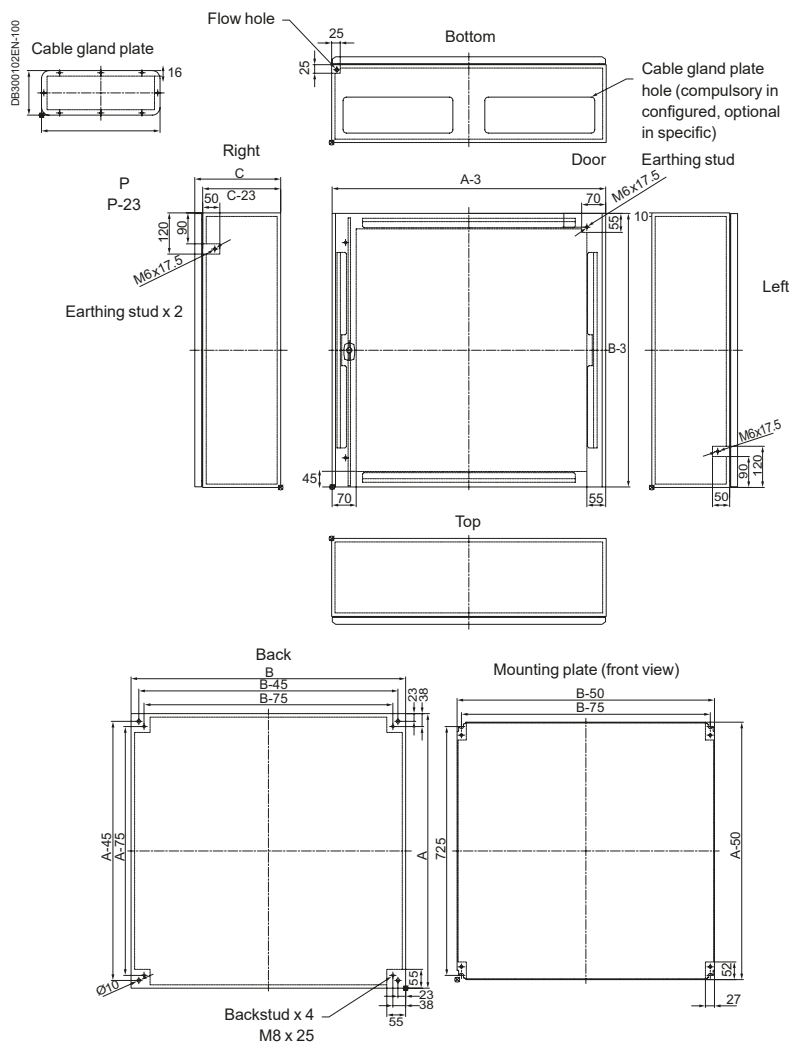


Acceptable loads on the mounting plates, bases and doors

Spacial 3D wall-mounting enclosures					References
Acceptable loads (kg)					
On plain mounting plates	On base	On door (1)	On vertical lug	On horizontal lug	
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 previous page.

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

Download our DXF diagrams from our websites.

Steel wall-mounting enclosures

Protection of the installation



PE500311-51

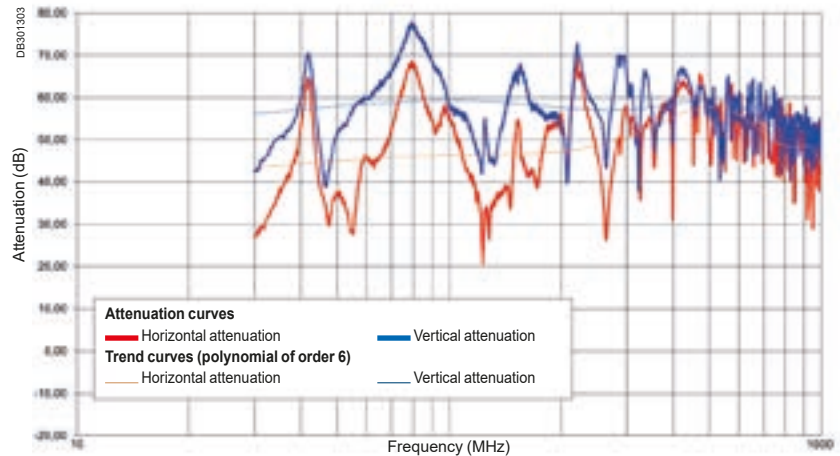
EMC protection

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 286.

Another solution and information on electromagnetic compatibility: Spacial S3HF enclosure, page 444.

Attenuation curve of the Spacial S3D compared with the Spacial S3HF



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



PE501005-16

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.

Seismic constraint

The seismic behavior of the the wall-mounting enclosure Spacial S3D have been qualified according to MRI spectra "big material" specified in the standard IEC 60068-2-6 and IEC 60068-2-57 (see page 394 for more details).

Tested enclosure configuration:

- Plain door,
- Plain mounting plate with a load of 250 kg/m² uniformly distributed on the mounting plate,
- Fixing to the wall with M8 screws (tightening torque: 12 Nm ± 1 Nm).

Level of the seismic behavior obtained:

- 2.5G for enclosure with the following dimensions:
 - height ≥ 700 mm,
 - height = 600 mm and width ≥ 600 mm
- 3G for other dimensions.

ATEX compliance

The Spacial S3D enclosure (with adaptation) is certified ATEX by the LCIE. Spacial S3DEX enclosure, page 453 consult us.

Environnemental consideration

Compliance with RoHS standard.

Steel floor-standing enclosures

Steel floor-standing enclosures

Contents

PB500067-39



Spacial SM-SF Steel floor-standing enclosures **80**

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Associated applicative offers

SFP Prisma application	327
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SF 6G, SFP 5G Seismic and nuclear enclosures	394
19" electronic enclosure	424
SFHF Electromagnetic compatibility	445
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Electrical Distribution Solution: SF IEC 61439, SFP (Prisma application)	325
Automobile application	494

Steel floor-standing enclosures

Introduction

SM

> Multi-purpose **IP55 compact steel enclosure** for fast and simple solutions.

PB502401-35



PB502402-28



Robust

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

PB502403-38



PB502404-30



Practical

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

PB500469-32



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.

PB502405-8



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.

This range can be configured according to your needs

4 different services available:



Assemble to order



Mounting of standard accessories



Painting



Machining

See page 496 for details or consult our web site www.se.com

Steel floor-standing enclosures

Introduction

➤ Multi-purpose IP55 modular steel enclosure.

SF

Adapts to all your needs.
Assembled delivery for a ready-to-use solution.



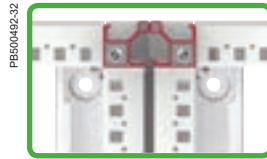
SF kit

Adapts to customer needs.
Delivered as kit, with up to 600 different possible configurations.



Robust

- Structure formed from a single 15/10°-mm galvanised-steel section, with a high rigidity.
- Vertical uprights screwed together with connections of full steel. 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.
- Capable of withstanding 1000 kg distributed in its volume.



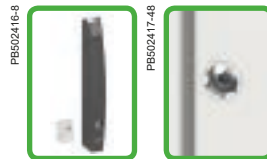
Reliable

- 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.



Aesthetics

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



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.



Practical

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



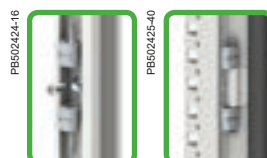
Simple

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



Accessible

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.



Fast

- 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.
- Door installation inserting the captive pins of the hinge in their housing in the door.

Steel floor-standing enclosures

Characteristics

SM

PB502401-32



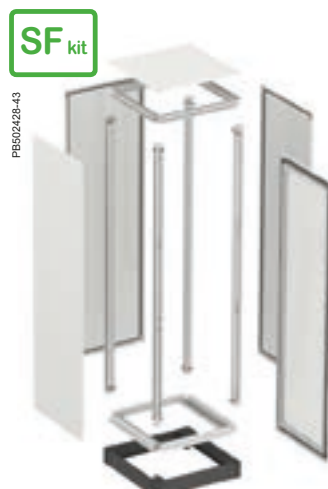
Characteristics	Compact enclosures Spacial SM
	<p>Compact body with a front rigid frame with welded corners and rear panel 4 supports installed in depth to adjust and fix the equipment with a pitch of 25 mm</p> <p>Basic composition</p> <ul style="list-style-type: none"> ■ Front door with a reinforcement frame (horizontal rails height-adjustable) ■ The double doors are overlapping, with system for fixing the left door ■ Door reversible, 120° opening ■ Welded rear panel ■ 4 locking points system with handle 5 mm double-bar insert ■ Cable-gland plate 1 entry ■ Mounting plate support brackets <p>Versions / Configurations</p> <ul style="list-style-type: none"> ■ Compact enclosure with plain door and mounting plate ■ Compact enclosure with plain door and without mounting plate ■ Compact enclosure with transparent Securit® glass door and without mounting plate <p>Protection of personnel Earthing accessories needed to ensure the grounding continuity, see page 285</p>
Material	Steel
Finish	Structured finish, epoxy-polyester powder
Colour	RAL 7035 grey
Ingress protection rating	IP55 according to IEC 60529
Mechanical protection rating	IK10 for plain door and IK08 for transparent door according to IEC 62262
Standards	Compliance with enclosure standard IEC 62208 and the RoHS and REACH directive
Certifications (see page 582)	BV, DNV, UL * and cUL *1 door: 1, 2, 3R, 4, 5 and 13 * 2 doors: 1, 12
Installation	Indoor / Outdoor* installation * Compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to UV radiation) and §9.13 (resistance to corrosion) Outdoor installation: canopy needed to avoid water stagnation on the upper part of the enclosure, see page 110
Maximum load	500 kg
Options	<ul style="list-style-type: none"> ■ Plinths, heights 100 mm and 200 mm, see page 104 ■ Lifting eyebolts, reference NSYSMEB ■ Internal door, see page 113 ■ Door accessories, see page 115 ■ Other locking options, see page 118 ■ Mounting plates and Telequick system, see page 220

Steel floor-standing enclosures

Characteristics



PB502412-34



PB502428-43

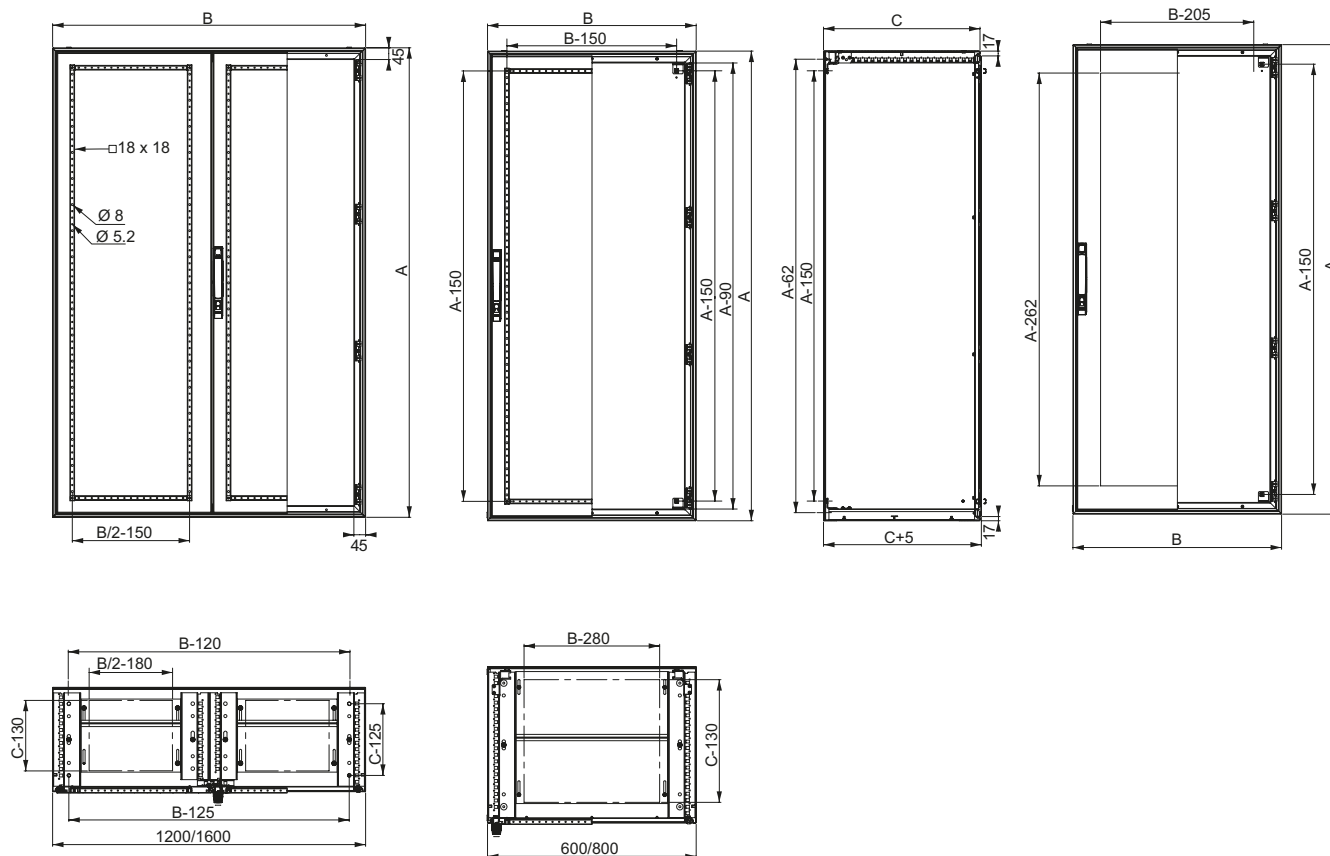
Suitable enclosures Spacial SF - Assembled supply	Suitable enclosures Spacial SF - Supplied as a kit
Structure made up of vertical uprights joined with top and bottom frames Panels and doors built into the structure Formed from a single section and perforated structure with a pitch of 25 mm	Structure made up of vertical uprights joined with top and bottom frames Panels and doors built into the structure Formed from a single section and perforated structure with a pitch of 25 mm
Basic composition <ul style="list-style-type: none"> ■ Front door with a reinforcement frame (horizontal rails height-adjustable) and a trim plate ■ The double doors are overlapping, with system for fixing the left door ■ Door reversible, 120° opening ■ Rear panel screwed on with captive screws ■ Removable roof ■ 4 locking points system with handle 5 mm double-bar insert ■ Mounting plate support brackets ■ Mounting plate sliding rails ■ 2 quick fixing cross rails 	Basic composition <ul style="list-style-type: none"> ■ Front door with a reinforcement frame (horizontal rails height-adjustable) ■ The double doors are overlapping, with system for fixing the left door ■ Door reversible, 120° opening ■ Rear panel to be screwed on with captive screws ■ Removable roof delivered with top frame ■ 4 locking points system with handle 5 mm double-bar insert ■ Mounting plate support brackets delivered with top & bottom frames kit ■ Mounting plate sliding rails delivered with top & bottom frames kit ■ 2 quick fixing cross rails delivered with top & bottom frames kit
Versions / Configurations <ul style="list-style-type: none"> ■ Modular enclosure with plain door and mounting plate ■ Modular enclosure with plain door and without mounting plate ■ Modular enclosure with transparent Securit® glass door and without mounting plate 	Versions / Configurations <ul style="list-style-type: none"> ■ Uprights kit ■ Top and bottom frames kit ■ Rear panel kit ■ Door kit (plain or transparent)
Protection of personnel Earthing accessories needed to ensure the grounding continuity, see page 285	Protection of personnel Earthing accessories needed to ensure the grounding continuity, see page 285
Steel	
Structured finish, epoxy-polyester powder	
RAL 7035 grey	
IP55 according to IEC 60529	IP55 according to IEC 60529
IK10 for plain door and IK08 for transparent door according to IEC 62262	IK10 for plain door and IK08 for transparent door according to IEC 62262
Compliance with enclosure standard IEC 62208 and the RoHS and REACH directive	
BV, DNV, UL and cUL* *1 door: 1, 3R, 12 *2 doors: 1, 3R, 12	BV, DNV, UL and cUL* *1 door: 1, 3R, 12 *2 doors: 1, 3R, 12
Indoor / Outdoor* installation * Compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to UV radiation) and §9.13 (resistance to corrosion) Outdoor installation: canopy needed to avoid water stagnation on the upper part of the enclosure, see page 110	Indoor / Outdoor* installation * Compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to UV radiation) and §9.13 (resistance to corrosion) Outdoor installation: canopy needed to avoid water stagnation on the upper part of the enclosure, see page 110
1000 kg	1000 kg
<ul style="list-style-type: none"> ■ Side panels options, see page 97 ■ Enclosure suites options, see page 98 ■ Plinths, heights 100 mm and 200 mm, see page 100 ■ Cable-gland plates, see page 106 ■ Lifting systems, see page 108 ■ Roof options, see page 110 ■ Door accessories, see page 115 ■ Other locking options, see page 118 ■ Mounting plates and Telequick system, see page 220 	<ul style="list-style-type: none"> ■ Door trim plates, see page 116 ■ Side panels options, see page 97 ■ Enclosure suites options, see page 98 ■ Plinths, heights 100 mm and 200 mm, see page 104 ■ Cable-gland plates, see page 106 ■ Lifting systems, see page 108 ■ Roof options, see page 110 ■ Other locking options, see page 118 ■ Mounting plates and Telequick system, see page 220

Steel floor-standing enclosures

Dimensions

SM

DB300190EN-176



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

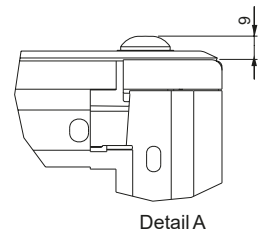
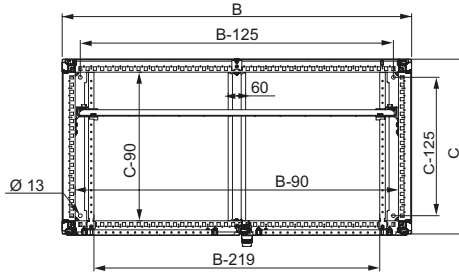
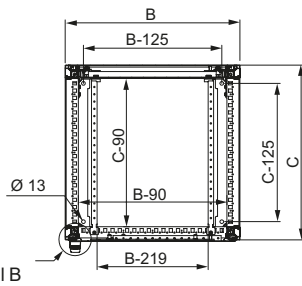
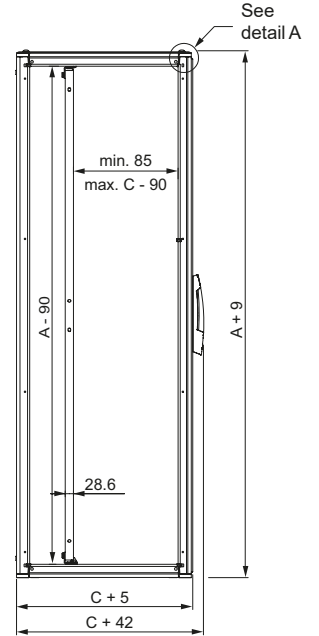
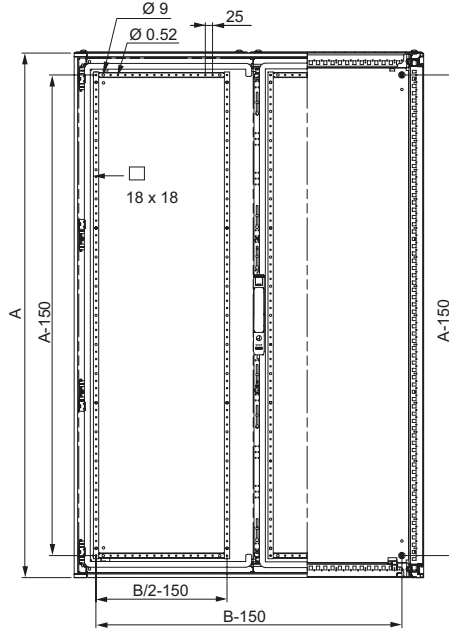
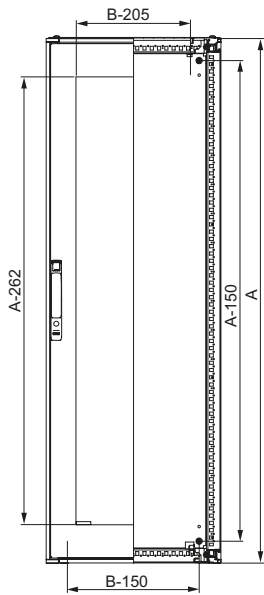
Steel floor-standing enclosures

Dimensions

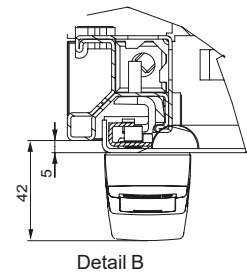
SF

SF kit

DB630085ZEN



See detail B



Steel floor-standing enclosures

Selection guide

SM

PE500480-12



PE500119-14



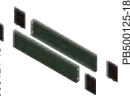
PE500481-12



PB500123-18



PB500124-18



PB500125-18



PB500126-13



Characteristics			Door			Plinth					
Dimensions (mm)			No. of doors	Plain		Transparent	Height 100 mm		Height 200 mm		
H (A)	W (B)	D (C)		Without mounting plate	With mounting plate	Without mounting plate	Front kit (corners + front panels)	Side panels, 2 u.	Front kit (corners + front panels)	Side panels, 4 u.	
1200	800	300	1	NSYSM12830	NSYSM12830P	-	NSYSPF8100	NSYSPS3100	NSYSPF8200	NSYSPS3200	
	1000	300	2	NSYSM1210302D	NSYSM1210302DP	-	NSYSPF10100	NSYSPS3100	NSYSPF10200	NSYSPS3200	
	1200	400	2	NSYSM1212402D	NSYSM1212402DP	-	NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200	
1400	600	300	1	NSYSM14630	NSYSM14630P	-	NSYSPF6100	NSYSPS3100	NSYSPF6200	NSYSPS3200	
		400	1	NSYSM14640	NSYSM14640P	-	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200	
	800	300	1	NSYSM14830	NSYSM14830P	-	NSYSPF8100	NSYSPS3100	NSYSPF8200	NSYSPS3200	
		400	1	NSYSM14840	NSYSM14840P	NSYSM14840T	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200	
		1000	400	2	NSYSM1410402D	NSYSM1410402DP	-	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200
		1200	400	2	NSYSM1412402D	NSYSM1412402DP	-	NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200
1600	600	300	1	NSYSM16630	NSYSM16630P	-	NSYSPF6100	NSYSPS3100	NSYSPF6200	NSYSPS3200	
		400	1	NSYSM16640	NSYSM16640P	NSYSM16640T	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200	
	800	300	1	NSYSM16830	NSYSM16830P	NSYSM16830T	NSYSPF8100	NSYSPS3100	NSYSPF8200	NSYSPS3200	
		400	1	NSYSM16840	NSYSM16840P	NSYSM16840T	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200	
	1000	300	2	NSYSM1610302D	NSYSM1610302DP	-	NSYSPF10100	NSYSPS3100	NSYSPF10200	NSYSPS3200	
		400	2	NSYSM1610402D	NSYSM1610402DP	-	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200	
	1200	300	2	NSYSM1612302D	NSYSM1612302DP	-	NSYSPF12100	NSYSPS3100	NSYSPF12200	NSYSPS3200	
		400	2	NSYSM1612402D	NSYSM1612402DP	-	NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200	
	1800	600	300	1	NSYSM18630	NSYSM18630P	-	NSYSPF6100	NSYSPS3100	NSYSPF6200	NSYSPS3200
			400	1	NSYSM18640	NSYSM18640P	NSYSM18640T	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200
			500	1	NSYSM18650	NSYSM18650P	-	NSYSPF6100	NSYSPS5100	NSYSPF6200	NSYSPS5200
		800	300	1	NSYSM18830	NSYSM18830P	NSYSM18830T	NSYSPF8100	NSYSPS3100	NSYSPF8200	NSYSPS3200
400			1	NSYSM18840	NSYSM18840P	NSYSM18840T	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200	
500			1	NSYSM18850	NSYSM18850P	NSYSM18850T	NSYSPF8100	NSYSPS5100	NSYSPF8200	NSYSPS5200	
600		600	1	NSYSM18860	NSYSM18860P	-	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200	
		1000	400	1	NSYSM181040	NSYSM181040P	-	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200
			400	2	NSYSM1810402D	NSYSM1810402DP	-	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200
500			2	NSYSM1810502D	NSYSM1810502DP	-	NSYSPF10100	NSYSPS5100	NSYSPF10200	NSYSPS5200	
1200		400	2	NSYSM1812402D	NSYSM1812402DP	-	NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200	
		500	2	NSYSM1812502D	NSYSM1812502DP	-	NSYSPF12100	NSYSPS5100	NSYSPF12200	NSYSPS5200	
		1600	400	2	NSYSM1816402D	NSYSM1816402DP	-	NSYSPF16100	NSYSPS4100	NSYSPF16200	NSYSPS4200
500		2	NSYSM1816502D	NSYSM1816502DP	-	NSYSPF16100	NSYSPS5100	NSYSPF16200	NSYSPS5200		
2000		600	300	1	NSYSM20630	NSYSM20630P	-	NSYSPF6100	NSYSPS3100	NSYSPF6200	NSYSPS3200
			400	1	NSYSM20640	NSYSM20640P	NSYSM20640T	NSYSPF6100	NSYSPS4100	NSYSPF6200	NSYSPS4200
			500	1	NSYSM20650	NSYSM20650P	-	NSYSPF6100	NSYSPS5100	NSYSPF6200	NSYSPS5200
		800	300	1	NSYSM20830	NSYSM20830P	NSYSM20830T	NSYSPF8100	NSYSPS3100	NSYSPF8200	NSYSPS3200
	400		1	NSYSM20840	NSYSM20840P	NSYSM20840T	NSYSPF8100	NSYSPS4100	NSYSPF8200	NSYSPS4200	
	500		1	NSYSM20850	NSYSM20850P	NSYSM20850T	NSYSPF8100	NSYSPS5100	NSYSPF8200	NSYSPS5200	
	600	1	NSYSM20860	NSYSM20860P	NSYSM20860T	NSYSPF8100	NSYSPS6100	NSYSPF8200	NSYSPS6200		
	1000	400	2	NSYSM2010402D	NSYSM2010402DP	-	NSYSPF10100	NSYSPS4100	NSYSPF10200	NSYSPS4200	
		500	2	NSYSM2010502D	NSYSM2010502DP	-	NSYSPF10100	NSYSPS5100	NSYSPF10200	NSYSPS5200	
	1200	400	2	NSYSM2012402D	NSYSM2012402DP	-	NSYSPF12100	NSYSPS4100	NSYSPF12200	NSYSPS4200	
		500	2	NSYSM2012502D	NSYSM2012502DP	-	NSYSPF12100	NSYSPS5100	NSYSPF12200	NSYSPS5200	
		600	2	NSYSM2012602D	NSYSM2012602DP	-	NSYSPF12100	NSYSPS6100	NSYSPF12200	NSYSPS6200	
	1600	400	2	NSYSM2016402D	NSYSM2016402DP	-	NSYSPF16100	NSYSPS4100	NSYSPF16200	NSYSPS4200	
		500	2	NSYSM2016502D	NSYSM2016502DP	-	NSYSPF16100	NSYSPS5100	NSYSPF16200	NSYSPS5200	
		600	2	NSYSM2016602D	NSYSM2016602DP	-	NSYSPF16100	NSYSPS6100	NSYSPF16200	NSYSPS6200	

Steel floor-standing enclosures

Selection guide

SM

PB500475-12



PB500477-7



PB500482-10



PB500483-13



PB500473-12

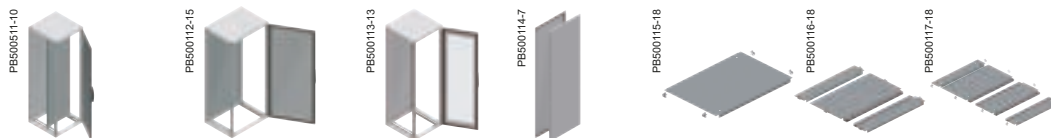


Characteristics			Inner door	Mounting plate	Vertical uprights		Off-centre 19" swing rack	Centred 19" swing rack		
Dimensions (mm)					No. of doors	Standard			Technical	
H (A)	W (B)	D (C)								
1200	800	300	1	-	NSYMP128	-	NSYTVR12	-	-	
	1000	300	2	-	NSYMP1210	-	NSYTVR12	-	-	
	1200	400	2	-	NSYMP1212	-	NSYTVR12	-	-	
1400	600	300	1	-	NSYMP146	-	NSYTVR14	-	-	
		400	1	-	NSYMP146	-	NSYTVR14	-	-	
	800	300	1	-	NSYMP148	-	NSYTVR14	NSYRSW27	NSYRSWC27	
		400	1	-	NSYMP148	-	NSYTVR14	NSYRSW27	NSYRSWC27	
	1000	400	2	-	NSYMP1410	-	NSYTVR14	-	-	
	1200	400	2	-	NSYMP1412	-	NSYTVR14	-	-	
1600	600	300	1	NSYID166	NSYMP166	-	NSYTVR16	-	-	
		400	1	NSYID166	NSYMP166	-	NSYTVR16	-	-	
	800	300	1	NSYID168	NSYMP168	-	NSYTVR16	NSYRSW31	NSYRSWC31	
		400	1	NSYID168	NSYMP168	-	NSYTVR16	NSYRSW31	NSYRSWC31	
	1000	300	2	-	NSYMP1610	-	NSYTVR16	-	-	
		400	2	-	NSYMP1610	-	NSYTVR16	-	-	
	1200	300	2	-	NSYMP1612	-	NSYTVR16	-	-	
		400	2	-	NSYMP1612	-	NSYTVR16	-	-	
	1800	600	300	1	NSYID186	NSYMP186	NSYVR18	NSYTVR18	-	-
			400	1	NSYID186	NSYMP186	NSYVR18	NSYTVR18	-	-
500			1	NSYID186	NSYMP186	NSYVR18	NSYTVR18	-	-	
800		300	1	NSYID188	NSYMP188	NSYVR18	NSYTVR18	NSYRSW36	NSYRSWC36	
		400	1	NSYID188	NSYMP188	NSYVR18	NSYTVR18	NSYRSW36	NSYRSWC36	
		500	1	NSYID188	NSYMP188	NSYVR18	NSYTVR18	NSYRSW36	NSYRSWC36	
		600	1	NSYID188	NSYMP188	NSYVR18	NSYTVR18	NSYRSW36	NSYRSWC36	
1000		400	1	NSYID1810	NSYMP1810	NSYVR18	NSYTVR18	-	-	
		400	2	NSYID1810	NSYMP1810	NSYVR18	NSYTVR18	-	-	
		500	2	NSYID1810	NSYMP1810	NSYVR18	NSYTVR18	-	-	
1200		400	2	-	NSYMP1812	NSYVR18	NSYTVR18	-	-	
		500	2	-	NSYMP1812	NSYVR18	NSYTVR18	-	-	
1600		400	2	-	NSYMP1816	NSYVR18	NSYTVR18	-	-	
		500	2	-	NSYMP1816	NSYVR18	NSYTVR18	-	-	
2000		600	300	1	NSYID206	NSYMP206	NSYVR20	NSYTVR20	-	-
			400	1	NSYID206	NSYMP206	NSYVR20	NSYTVR20	-	-
	500		1	NSYID206	NSYMP206	NSYVR20	NSYTVR20	-	-	
	800	300	1	NSYID208	NSYMP208	NSYVR20	NSYTVR20	NSYRSW40	NSYRSWC40	
		400	1	NSYID208	NSYMP208	NSYVR20	NSYTVR20	NSYRSW40	NSYRSWC40	
		500	1	NSYID208	NSYMP208	NSYVR20	NSYTVR20	NSYRSW40	NSYRSWC40	
		600	1	NSYID208	NSYMP208	NSYVR20	NSYTVR20	NSYRSW40	NSYRSWC40	
	1000	400	2	NSYID2010	NSYMP2010	NSYVR20	NSYTVR20	-	-	
		500	2	NSYID2010	NSYMP2010	NSYVR20	NSYTVR20	-	-	
	1200	400	2	-	NSYMP2012	NSYVR20	NSYTVR20	-	-	
		500	2	-	NSYMP2012	NSYVR20	NSYTVR20	-	-	
		600	2	-	NSYMP2012	NSYVR20	NSYTVR20	-	-	
	1600	400	2	-	NSYMP2016	NSYVR20	NSYTVR20	-	-	
		500	2	-	NSYMP2016	NSYVR20	NSYTVR20	-	-	
		600	2	-	NSYMP2016	NSYVR20	NSYTVR20	-	-	

Steel floor-standing enclosures

Selection guide

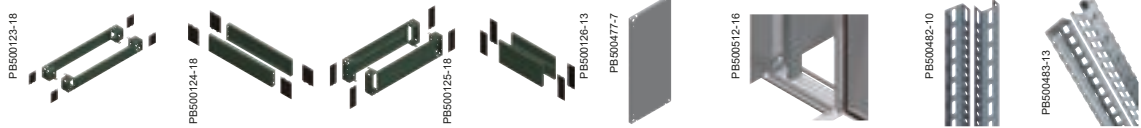
SF



Nominal dimensions (mm)			No. of doors	Door			Side panels	Cable-entry plate			
Height (A)	Width (B)	Depth (C)		Without mounting plate	With mounting plate	Transparent Without mounting plate		Plain	1 entry	2 entries	
1200	600	400	1	NSYSF12640	NSYSF12640P	-	NSY2SP124	NSYEC64	NSYEC641	-	
		600	1	NSYSF12660	NSYSF12660P	-	NSY2SP126	NSYEC66	NSYEC661	NSYEC662	
	800	400	1	NSYSF12840	NSYSF12840P	-	NSY2SP124	NSYEC84	NSYEC841	-	
1400	600	600	1	NSYSF12860	NSYSF12860P	-	NSY2SP126	NSYEC86	NSYEC861	NSYEC862	
		400	1	NSYSF14640	NSYSF14640P	-	NSY2SP144	NSYEC64	NSYEC641	-	
	800	400	1	NSYSF14840	NSYSF14840P	-	NSY2SP144	NSYEC84	NSYEC841	-	
1600	600	600	1	NSYSF16660	NSYSF16660P	-	NSY2SP166	NSYEC66	NSYEC661	NSYEC662	
		800	1	NSYSF16680	NSYSF16680P	-	NSY2SP168	NSYEC68	NSYEC681	NSYEC682	
	800	600	1	NSYSF16860	NSYSF16860P	-	NSY2SP166	NSYEC86	NSYEC861	NSYEC862	
1800	400	400	1	NSYSF16880	NSYSF16880P	-	NSY2SP168	NSYEC88	NSYEC881	NSYEC882	
		500	1	NSYSF18440	-	-	NSY2SP184	NSYEC44	NSYEC441	-	
	600	600	1	NSYSF18450	-	-	NSY2SP185	NSYEC45	NSYEC451	-	
		600	1	NSYSF18460	-	-	NSY2SP186	-	NSYEC461	-	
	800	400	1	NSYSF18640	NSYSF18640P	NSYSF18640T	NSY2SP184	NSYEC64	NSYEC641	-	
		500	1	NSYSF18650	NSYSF18650P	NSYSF18650T	NSY2SP185	NSYEC65	NSYEC651	-	
		600	1	NSYSF18660	NSYSF18660P	-	NSY2SP186	NSYEC66	NSYEC661	NSYEC662	
		800	1	-	-	NSYSF18680T	NSY2SP188	NSYEC68	NSYEC681	NSYEC682	
	1000	400	400	1	NSYSF18840	NSYSF18840P	NSYSF18840T	NSY2SP184	NSYEC84	NSYEC841	-
			500	1	NSYSF18850	NSYSF18850P	NSYSF18850T	NSY2SP185	NSYEC85	NSYEC851	-
		600	600	1	NSYSF18860	NSYSF18860P	NSYSF18860T	NSY2SP186	NSYEC86	NSYEC861	NSYEC862
			600	2	NSYSF188602D	NSYSF188602DP	-	NSY2SP186	NSYEC86	NSYEC861	NSYEC862
800		400	1	NSYSF181040	NSYSF181040P	-	NSY2SP184	NSYEC104	NSYEC1041	-	
		400	2	NSYSF1810402D	NSYSF1810402DP	-	NSY2SP184	NSYEC104	NSYEC1041	-	
1200	400	500	1	NSYSF181050	NSYSF181050P	-	NSY2SP185	NSYEC105	NSYEC1051	-	
		600	1	NSYSF181060	NSYSF181060P	-	NSY2SP186	NSYEC106	NSYEC1061	NSYEC1062	
	600	600	2	NSYSF1810602D	NSYSF1810602DP	-	NSY2SP186	NSYEC106	NSYEC1061	NSYEC1062	
		400	2	NSYSF1812402D	NSYSF1812402DP	-	NSY2SP184	NSYEC124	NSYEC1241	-	
	500	2	NSYSF1812502D	NSYSF1812502DP	-	NSY2SP185	NSYEC125	NSYEC1251	-		
		600	2	NSYSF1812602D	NSYSF1812602DP	-	NSY2SP186	NSYEC126	NSYEC1261	NSYEC1262	
2000	300	500	1	NSYSF20350	-	-	NSY2SP205	NSYEC35	NSYEC351	-	
		600	1	NSYSF20360	-	-	NSY2SP206	NSYEC36	NSYEC361	-	
		800	1	NSYSF20380	-	-	NSY2SP208	-	NSYEC381	-	
	400	400	1	NSYSF20440	-	-	NSY2SP204	NSYEC44	NSYEC441	-	
		500	1	NSYSF20450	-	-	NSY2SP205	NSYEC45	NSYEC451	-	
		600	1	NSYSF20460	-	-	NSY2SP206	NSYEC64	NSYEC461	-	
	600	400	800	1	NSYSF20480	-	-	NSY2SP208	NSYEC84	NSYEC481	-
			400	1	NSYSF20640	NSYSF20640P	NSYSF20640T	NSY2SP204	NSYEC64	NSYEC641	-
		500	1	NSYSF20650	NSYSF20650P	NSYSF20650T	NSY2SP205	NSYEC65	NSYEC651	-	
	800	600	600	1	NSYSF20660	NSYSF20660P	-	NSY2SP206	NSYEC66	NSYEC661	NSYEC662
			800	1	NSYSF20680	NSYSF20680P	-	NSY2SP208	NSYEC68	NSYEC681	NSYEC682
		400	1	NSYSF20840	NSYSF20840P	NSYSF20840T	NSY2SP204	NSYEC84	NSYEC841	-	
	1000	500	500	1	NSYSF20850	NSYSF20850P	NSYSF20850T	NSY2SP205	NSYEC85	NSYEC851	-
			600	1	NSYSF20860	NSYSF20860P	NSYSF20860T	NSY2SP206	NSYEC86	NSYEC861	NSYEC862
		600	600	2	NSYSF208602D	NSYSF208602DP	-	NSY2SP206	NSYEC86	NSYEC861	NSYEC862
			800	1	NSYSF20880	NSYSF20880P	NSYSF20880T	NSY2SP208	NSYEC88	NSYEC881	NSYEC882
		400	400	1	NSYSF201040	NSYSF201040P	NSYSF201040T	NSY2SP204	NSYEC104	NSYEC1041	-
			400	2	NSYSF2010402D	NSYSF2010402DP	-	NSY2SP204	NSYEC104	NSYEC1041	-
1200	500	500	1	NSYSF201050	NSYSF201050P	NSYSF201050T	NSY2SP205	NSYEC105	NSYEC1051	-	
		500	2	NSYSF2010502D	NSYSF2010502DP	-	NSY2SP205	NSYEC105	NSYEC1051	-	
	600	600	1	NSYSF201060	NSYSF201060P	NSYSF201060T	NSY2SP206	NSYEC106	NSYEC1061	NSYEC1062	
		600	2	NSYSF2010602D	NSYSF2010602DP	-	NSY2SP206	NSYEC106	NSYEC1061	NSYEC1062	
	800	800	1	NSYSF201080	NSYSF201080P	-	NSY2SP208	NSYEC108	NSYEC1081	NSYEC1082	
		400	2	NSYSF2012402D	NSYSF2012402DP	-	NSY2SP204	NSYEC124	NSYEC1241	-	
1600	500	500	2	NSYSF2012502D	NSYSF2012502DP	-	NSY2SP205	NSYEC125	NSYEC1251	-	
		600	2	NSYSF2012602D	NSYSF2012602DP	-	NSY2SP206	NSYEC126	NSYEC1261	NSYEC1262	
	800	800	2	NSYSF2012802D	NSYSF2012802DP	-	NSY2SP208	NSYEC128	NSYEC1281	NSYEC1282	
		400	2	NSYSF2016402D	NSYSF2016402DP	-	NSY2SP204	NSYEC164	NSYEC1641	-	
	500	500	2	NSYSF2016502D	NSYSF2016502DP	-	NSY2SP205	NSYEC165	NSYEC1651	-	
		600	2	NSYSF2016602D	NSYSF2016602DP	-	NSY2SP206	NSYEC166	NSYEC1661	NSYEC1662	
2200	400	600	1	NSYSF22460	-	-	NSY2SP226	-	NSYEC461	-	
		600	1	NSYSF22660	NSYSF22660P	-	NSY2SP226	NSYEC66	NSYEC661	NSYEC662	
	600	800	1	NSYSF22680	NSYSF22680P	-	NSY2SP228	NSYEC68	NSYEC681	NSYEC682	
		800	1	NSYSF22860	NSYSF22860P	-	NSY2SP226	NSYEC86	NSYEC861	NSYEC862	
	800	800	1	NSYSF22880	NSYSF22880P	NSYSF22880T	NSY2SP228	NSYEC88	NSYEC881	NSYEC882	
		600	1	NSYSF221060	NSYSF221060P	-	NSY2SP226	NSYEC106	NSYEC1061	NSYEC1062	
	1200	600	2	NSYSF2212602D	NSYSF2212602DP	-	NSY2SP226	NSYEC126	NSYEC1261	NSYEC1262	
		800	2	NSYSF2212802D	NSYSF2212802DP	-	NSY2SP228	NSYEC128	NSYEC1281	NSYEC1282	

Steel floor-standing enclosures

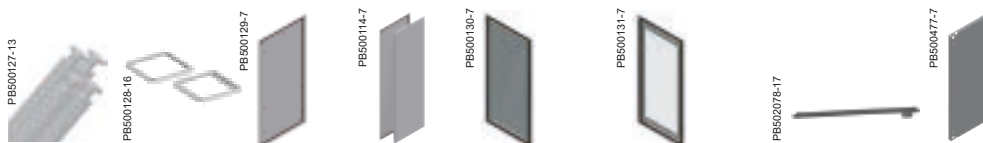
Selection guide



Nominal dimensions (mm)			Plinth				Mounting plate	Intermediate mounting plate	Vertical uprights		
Height (A)	Width (B)	Depth (C)	Height 100 mm		Height 200 mm				Standard	Technical	
			Front kit (corners + front panels)	Side panels, 2 u.	Front kit (corners + front panels)	Side panels, 4 u.					
1200	600	400	NSYSPPF6100	NSYSPPS4100	NSYSPPF6200	NSYSPPS4200	NSYMP126	NSYSIMP12	-	NSYTVR12	
		600	NSYSPPF6100	NSYSPPS6100	NSYSPPF6200	NSYSPPS6200	NSYMP126	NSYSIMP12	-	NSYTVR12	
		800	NSYSPPF8100	NSYSPPS4100	NSYSPPF8200	NSYSPPS4200	NSYMP128	NSYSIMP12	-	NSYTVR12	
	800	400	NSYSPPF8100	NSYSPPS6100	NSYSPPF8200	NSYSPPS6200	NSYMP128	NSYSIMP12	-	NSYTVR12	
		600	NSYSPPF8100	NSYSPPS4100	NSYSPPF8200	NSYSPPS4200	NSYMP146	NSYSIMP14	-	NSYTVR14	
		800	NSYSPPF8100	NSYSPPS4100	NSYSPPF8200	NSYSPPS4200	NSYMP148	NSYSIMP14	-	NSYTVR14	
1400	600	400	NSYSPPF6100	NSYSPPS4100	NSYSPPF6200	NSYSPPS4200	NSYMP146	NSYSIMP14	-	NSYTVR14	
		600	NSYSPPF6100	NSYSPPS6100	NSYSPPF6200	NSYSPPS6200	NSYMP166	NSYSIMP16	-	NSYTVR16	
		800	NSYSPPF6100	NSYSPPS4100	NSYSPPF6200	NSYSPPS4200	NSYMP166	NSYSIMP16	-	NSYTVR16	
	800	400	NSYSPPF8100	NSYSPPS6100	NSYSPPF8200	NSYSPPS6200	NSYMP168	NSYSIMP16	-	NSYTVR16	
		600	NSYSPPF8100	NSYSPPS8100	NSYSPPF8200	NSYSPPS8200	NSYMP168	NSYSIMP16	-	NSYTVR16	
		800	NSYSPPF8100	NSYSPPS4100	NSYSPPF8200	NSYSPPS4200	NSYMP168	NSYSIMP16	-	NSYTVR16	
1800	400	400	NSYSPPF4100	NSYSPPS4100	NSYSPPF4200	NSYSPPS4200	-	-	NSYVVR18	NSYTVR18	
		500	NSYSPPF4100	NSYSPPS5100	NSYSPPF4200	NSYSPPS5200	-	-	NSYVVR18	NSYTVR18	
		600	NSYSPPF4100	NSYSPPS6100	NSYSPPF4200	NSYSPPS6200	-	-	NSYVVR18	NSYTVR18	
		400	NSYSPPF6100	NSYSPPS4100	NSYSPPF6200	NSYSPPS4200	NSYMP186	NSYSIMP18	NSYVVR18	NSYTVR18	
		500	NSYSPPF6100	NSYSPPS5100	NSYSPPF6200	NSYSPPS5200	NSYMP186	NSYSIMP18	NSYVVR18	NSYTVR18	
		600	NSYSPPF6100	NSYSPPS6100	NSYSPPF6200	NSYSPPS6200	NSYMP186	NSYSIMP18	NSYVVR18	NSYTVR18	
	800	400	NSYSPPF8100	NSYSPPS8100	NSYSPPF8200	NSYSPPS8200	NSYMP186	NSYSIMP18	NSYVVR18	NSYTVR18	
		400	NSYSPPF8100	NSYSPPS4100	NSYSPPF8200	NSYSPPS4200	NSYMP188	NSYSIMP18	NSYVVR18	NSYTVR18	
		500	NSYSPPF8100	NSYSPPS5100	NSYSPPF8200	NSYSPPS5200	NSYMP188	NSYSIMP18	NSYVVR18	NSYTVR18	
		600	NSYSPPF8100	NSYSPPS6100	NSYSPPF8200	NSYSPPS6200	NSYMP188	NSYSIMP18	NSYVVR18	NSYTVR18	
		400	NSYSPPF10100	NSYSPPS4100	NSYSPPF10200	NSYSPPS4200	NSYMP1810	NSYSIMP18	NSYVVR18	NSYTVR18	
		400	NSYSPPF10100	NSYSPPS4100	NSYSPPF10200	NSYSPPS4200	NSYMP1810	NSYSIMP18	NSYVVR18	NSYTVR18	
1000	400	NSYSPPF10100	NSYSPPS5100	NSYSPPF10200	NSYSPPS5200	NSYMP1810	NSYSIMP18	NSYVVR18	NSYTVR18		
	500	NSYSPPF10100	NSYSPPS6100	NSYSPPF10200	NSYSPPS6200	NSYMP1810	NSYSIMP18	NSYVVR18	NSYTVR18		
	600	NSYSPPF10100	NSYSPPS6100	NSYSPPF10200	NSYSPPS6200	NSYMP1810	NSYSIMP18	NSYVVR18	NSYTVR18		
	600	NSYSPPF10100	NSYSPPS6100	NSYSPPF10200	NSYSPPS6200	NSYMP1810	NSYSIMP18	NSYVVR18	NSYTVR18		
	400	NSYSPPF12100	NSYSPPS4100	NSYSPPF12200	NSYSPPS4200	NSYMP1812	NSYSIMP18	NSYVVR18	NSYTVR18		
	500	NSYSPPF12100	NSYSPPS5100	NSYSPPF12200	NSYSPPS5200	NSYMP1812	NSYSIMP18	NSYVVR18	NSYTVR18		
2000	300	600	NSYSPPF12100	NSYSPPS6100	NSYSPPF12200	NSYSPPS6200	NSYMP1812	NSYSIMP18	NSYVVR18	NSYTVR18	
		500	NSYSPPF3100	NSYSPPS5100	NSYSPPF3200	NSYSPPS5200	-	-	NSYVVR20	NSYTVR20	
		600	NSYSPPF3100	NSYSPPS6100	NSYSPPF3200	NSYSPPS6200	-	-	NSYVVR20	NSYTVR20	
		800	NSYSPPF3100	NSYSPPS8100	NSYSPPF3200	NSYSPPS8200	-	-	NSYVVR20	NSYTVR20	
		400	NSYSPPF4100	NSYSPPS4100	NSYSPPF4200	NSYSPPS4200	-	-	NSYVVR20	NSYTVR20	
		500	NSYSPPF4100	NSYSPPS5100	NSYSPPF4200	NSYSPPS5200	-	-	NSYVVR20	NSYTVR20	
	400	600	NSYSPPF4100	NSYSPPS6100	NSYSPPF4200	NSYSPPS6200	-	-	NSYVVR20	NSYTVR20	
		800	NSYSPPF4100	NSYSPPS8100	NSYSPPF4200	NSYSPPS8200	-	-	NSYVVR20	NSYTVR20	
		400	NSYSPPF6100	NSYSPPS4100	NSYSPPF6200	NSYSPPS4200	NSYMP206	NSYSIMP20	NSYVVR20	NSYTVR20	
		500	NSYSPPF6100	NSYSPPS5100	NSYSPPF6200	NSYSPPS5200	NSYMP206	NSYSIMP20	NSYVVR20	NSYTVR20	
		600	NSYSPPF6100	NSYSPPS6100	NSYSPPF6200	NSYSPPS6200	NSYMP206	NSYSIMP20	NSYVVR20	NSYTVR20	
		800	NSYSPPF6100	NSYSPPS8100	NSYSPPF6200	NSYSPPS8200	NSYMP206	NSYSIMP20	NSYVVR20	NSYTVR20	
800	400	NSYSPPF8100	NSYSPPS4100	NSYSPPF8200	NSYSPPS4200	NSYMP208	NSYSIMP20	NSYVVR20	NSYTVR20		
	500	NSYSPPF8100	NSYSPPS5100	NSYSPPF8200	NSYSPPS5200	NSYMP208	NSYSIMP20	NSYVVR20	NSYTVR20		
	600	NSYSPPF8100	NSYSPPS6100	NSYSPPF8200	NSYSPPS6200	NSYMP208	NSYSIMP20	NSYVVR20	NSYTVR20		
	800	NSYSPPF8100	NSYSPPS8100	NSYSPPF8200	NSYSPPS8200	NSYMP208	NSYSIMP20	NSYVVR20	NSYTVR20		
	400	NSYSPPF10100	NSYSPPS4100	NSYSPPF10200	NSYSPPS4200	NSYMP2010	NSYSIMP20	NSYVVR20	NSYTVR20		
	400	NSYSPPF10100	NSYSPPS4100	NSYSPPF10200	NSYSPPS4200	NSYMP2010	NSYSIMP20	NSYVVR20	NSYTVR20		
1000	500	NSYSPPF10100	NSYSPPS5100	NSYSPPF10200	NSYSPPS5200	NSYMP2010	NSYSIMP20	NSYVVR20	NSYTVR20		
	500	NSYSPPF10100	NSYSPPS5100	NSYSPPF10200	NSYSPPS5200	NSYMP2010	NSYSIMP20	NSYVVR20	NSYTVR20		
	600	NSYSPPF10100	NSYSPPS6100	NSYSPPF10200	NSYSPPS6200	NSYMP2010	NSYSIMP20	NSYVVR20	NSYTVR20		
	600	NSYSPPF10100	NSYSPPS6100	NSYSPPF10200	NSYSPPS6200	NSYMP2010	NSYSIMP20	NSYVVR20	NSYTVR20		
	800	NSYSPPF10100	NSYSPPS8100	NSYSPPF10200	NSYSPPS8200	NSYMP2010	NSYSIMP20	NSYVVR20	NSYTVR20		
	800	NSYSPPF10100	NSYSPPS8100	NSYSPPF10200	NSYSPPS8200	NSYMP2010	NSYSIMP20	NSYVVR20	NSYTVR20		
1200	400	NSYSPPF12100	NSYSPPS4100	NSYSPPF12200	NSYSPPS4200	NSYMP2012	NSYSIMP20	NSYVVR20	NSYTVR20		
	500	NSYSPPF12100	NSYSPPS5100	NSYSPPF12200	NSYSPPS5200	NSYMP2012	NSYSIMP20	NSYVVR20	NSYTVR20		
	600	NSYSPPF12100	NSYSPPS6100	NSYSPPF12200	NSYSPPS6200	NSYMP2012	NSYSIMP20	NSYVVR20	NSYTVR20		
	800	NSYSPPF12100	NSYSPPS8100	NSYSPPF12200	NSYSPPS8200	NSYMP2012	NSYSIMP20	NSYVVR20	NSYTVR20		
	400	NSYSPPF16100	NSYSPPS4100	NSYSPPF16200	NSYSPPS4200	NSYMP2016	NSYSIMP20	NSYVVR20	NSYTVR20		
	500	NSYSPPF16100	NSYSPPS5100	NSYSPPF16200	NSYSPPS5200	NSYMP2016	NSYSIMP20	NSYVVR20	NSYTVR20		
2200	400	600	NSYSPPF16100	NSYSPPS6100	NSYSPPF16200	NSYSPPS6200	NSYMP2016	NSYSIMP20	NSYVVR20	NSYTVR20	
		600	NSYSPPF4100	NSYSPPS6100	NSYSPPF4200	NSYSPPS6200	-	-	NSYVVR22	NSYTVR22	
		600	NSYSPPF6100	NSYSPPS6100	NSYSPPF6200	NSYSPPS6200	NSYMP226	NSYSIMP22	NSYVVR22	NSYTVR22	
		800	NSYSPPF6100	NSYSPPS8100	NSYSPPF6200	NSYSPPS8200	NSYMP226	NSYSIMP22	NSYVVR22	NSYTVR22	
		800	NSYSPPF8100	NSYSPPS6100	NSYSPPF8200	NSYSPPS6200	NSYMP228	NSYSIMP22	NSYVVR22	NSYTVR22	
		800	NSYSPPF8100	NSYSPPS8100	NSYSPPF8200	NSYSPPS8200	NSYMP228	NSYSIMP22	NSYVVR22	NSYTVR22	
	1000	600	NSYSPPF10100	NSYSPPS6100	NSYSPPF10200	NSYSPPS6200	NSYMP2210	NSYSIMP22	NSYVVR22	NSYTVR22	
		1200	600	NSYSPPF12100	NSYSPPS6100	NSYSPPF12200	NSYSPPS6200	NSYMP2212	NSYSIMP22	NSYVVR22	NSYTVR22
		800	NSYSPPF12100	NSYSPPS8100	NSYSPPF12200	NSYSPPS8200	NSYMP2212	NSYSIMP22	NSYVVR22	NSYTVR22	

Steel floor-standing enclosures

Selection guide

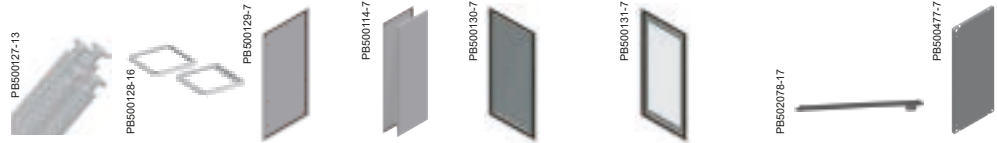


Nominal dimensions (mm)			No. of doors	Vertical uprights	Bottom frame and top frame with roof	Rear panel	Side panels	Plain door (1)	Transparent door (Securit® glass) (1)	Door Trim plate	Mounting plate	
Height (A)	Width (B)	Depth (C)										
1200	600	400	1	NSYSFV12	NSYSFC64	NSYBP126	NSY2SP124	NSYSFD126	NSYSFD126T	NSYTRIM6SF	NSYMP126	
		500	1	NSYSFV12	NSYSFC65	NSYBP126	NSY2SP125	NSYSFD126	NSYSFD126T	NSYTRIM6SF	NSYMP126	
		600	1	NSYSFV12	NSYSFC66	NSYBP126	NSY2SP126	NSYSFD126	NSYSFD126T	NSYTRIM6SF	NSYMP126	
		800	1	NSYSFV12	NSYSFC68	NSYBP126	NSY2SP128	NSYSFD126	NSYSFD126T	NSYTRIM6SF	NSYMP126	
	800	400	1	NSYSFV12	NSYSFC84	NSYBP128	NSY2SP124	NSYSFD128	NSYSFD128T	NSYTRIM8SF	NSYMP128	
		500	1	NSYSFV12	NSYSFC85	NSYBP128	NSY2SP125	NSYSFD128	NSYSFD128T	NSYTRIM8SF	NSYMP128	
		600	1	NSYSFV12	NSYSFC86	NSYBP128	NSY2SP126	NSYSFD128	NSYSFD128T	NSYTRIM8SF	NSYMP128	
		800	1	NSYSFV12	NSYSFC88	NSYBP128	NSY2SP128	NSYSFD128	NSYSFD128T	NSYTRIM8SF	NSYMP128	
	1400	600	400	1	NSYSFV14	NSYSFC64	NSYBP146	NSY2SP144	NSYSFD146	NSYSFD146T	NSYTRIM6SF	NSYMP146
			500	1	NSYSFV14	NSYSFC65	NSYBP146	NSY2SP145	NSYSFD146	NSYSFD146T	NSYTRIM6SF	NSYMP146
			600	1	NSYSFV14	NSYSFC66	NSYBP146	NSY2SP146	NSYSFD146	NSYSFD146T	NSYTRIM6SF	NSYMP146
			800	1	NSYSFV14	NSYSFC68	NSYBP146	NSY2SP148	NSYSFD146	NSYSFD146T	NSYTRIM6SF	NSYMP146
800		400	1	NSYSFV14	NSYSFC84	NSYBP148	NSY2SP144	NSYSFD148	NSYSFD148T	NSYTRIM8SF	NSYMP148	
		500	1	NSYSFV14	NSYSFC85	NSYBP148	NSY2SP145	NSYSFD148	NSYSFD148T	NSYTRIM8SF	NSYMP148	
		600	1	NSYSFV14	NSYSFC86	NSYBP148	NSY2SP146	NSYSFD148	NSYSFD148T	NSYTRIM8SF	NSYMP148	
		800	1	NSYSFV14	NSYSFC88	NSYBP148	NSY2SP148	NSYSFD148	NSYSFD148T	NSYTRIM8SF	NSYMP148	
1600	600	400	1	NSYSFV16	NSYSFC64	NSYBP166	NSY2SP164	NSYSFD166	NSYSFD166T	NSYTRIM6SF	NSYMP166	
		500	1	NSYSFV16	NSYSFC65	NSYBP166	NSY2SP165	NSYSFD166	NSYSFD166T	NSYTRIM6SF	NSYMP166	
		600	1	NSYSFV16	NSYSFC66	NSYBP166	NSY2SP166	NSYSFD166	NSYSFD166T	NSYTRIM6SF	NSYMP166	
		800	1	NSYSFV16	NSYSFC68	NSYBP166	NSY2SP168	NSYSFD166	NSYSFD166T	NSYTRIM6SF	NSYMP166	
	800	400	1	NSYSFV16	NSYSFC84	NSYBP168	NSY2SP164	NSYSFD168	NSYSFD168T	NSYTRIM8SF	NSYMP168	
		500	1	NSYSFV16	NSYSFC85	NSYBP168	NSY2SP165	NSYSFD168	NSYSFD168T	NSYTRIM8SF	NSYMP168	
		600	1	NSYSFV16	NSYSFC86	NSYBP168	NSY2SP166	NSYSFD168	NSYSFD168T	NSYTRIM8SF	NSYMP168	
		800	1	NSYSFV16	NSYSFC88	NSYBP168	NSY2SP168	NSYSFD168	NSYSFD168T	NSYTRIM8SF	NSYMP168	
	1800	400	400	1	NSYSFV18	NSYSFC44	NSYBP184	NSY2SP184	NSYSFD184	-	NSYTRIM4SF	-
			500	1	NSYSFV18	NSYSFC45	NSYBP184	NSY2SP185	NSYSFD184	-	NSYTRIM4SF	-
			600	1	NSYSFV18	NSYSFC46	NSYBP184	NSY2SP186	NSYSFD184	-	NSYTRIM4SF	-
			800	1	NSYSFV18	NSYSFC48	NSYBP184	NSY2SP188	NSYSFD184	-	NSYTRIM4SF	-
600		400	1	NSYSFV18	NSYSFC64	NSYBP186	NSY2SP184	NSYSFD186	NSYSFD186T	NSYTRIM6SF	NSYMP186	
		500	1	NSYSFV18	NSYSFC65	NSYBP186	NSY2SP185	NSYSFD186	NSYSFD186T	NSYTRIM6SF	NSYMP186	
		600	1	NSYSFV18	NSYSFC66	NSYBP186	NSY2SP186	NSYSFD186	NSYSFD186T	NSYTRIM6SF	NSYMP186	
		800	1	NSYSFV18	NSYSFC68	NSYBP186	NSY2SP188	NSYSFD186	NSYSFD186T	NSYTRIM6SF	NSYMP186	
800		400	1	NSYSFV18	NSYSFC84	NSYBP188	NSY2SP184	NSYSFD188	NSYSFD188T	NSYTRIM8SF	NSYMP188	
		500	1	NSYSFV18	NSYSFC85	NSYBP188	NSY2SP185	NSYSFD188	NSYSFD188T	NSYTRIM8SF	NSYMP188	
		600	1	NSYSFV18	NSYSFC86	NSYBP188	NSY2SP186	NSYSFD188	NSYSFD188T	NSYTRIM8SF	NSYMP188	
		800	2	NSYSFV18	NSYSFC86	NSYBP188	NSY2SP186	NSYSFD1882D	-	NSYTRIM8SF2D	NSYMP188	
1000		400	400	1	NSYSFV18	NSYSFC88	NSYBP188	NSY2SP188	NSYSFD188	NSYSFD188T	NSYTRIM8SF	NSYMP188
			800	2	NSYSFV18	NSYSFC88	NSYBP188	NSY2SP188	NSYSFD1882D	-	NSYTRIM8SF2D	NSYMP188
		400	400	1	NSYSFV18	NSYSFC104	NSYBP1810	NSY2SP184	NSYSFD1810	NSYSFD1810T	NSYTRIM10SF	NSYMP1810
			400	2	NSYSFV18	NSYSFC104	NSYBP1810	NSY2SP184	NSYSFD18102D	-	NSYTRIM10SF2D	NSYMP1810
1200	500	1	NSYSFV18	NSYSFC105	NSYBP1810	NSY2SP185	NSYSFD1810	NSYSFD1810T	NSYTRIM10SF	NSYMP1810		
		1	NSYSFV18	NSYSFC106	NSYBP1810	NSY2SP186	NSYSFD1810	NSYSFD1810T	NSYTRIM10SF	NSYMP1810		
	600	2	NSYSFV18	NSYSFC106	NSYBP1810	NSY2SP186	NSYSFD18102D	-	NSYTRIM10SF2D	NSYMP1810		
		1	NSYSFV18	NSYSFC108	NSYBP1810	NSY2SP188	NSYSFD1810	NSYSFD1810T	NSYTRIM10SF	NSYMP1810		
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		600	2	NSYSFV18	NSYSFC126	NSYBP1812	NSY2SP186	NSYSFD18122D	NSYSFD18122DT	NSYTRIM12SF2D	NSYMP1812	
800	2	NSYSFV18	NSYSFC128	NSYBP1812	NSY2SP188	NSYSFD18122D	NSYSFD18122DT	NSYTRIM12SF2D	NSYMP1812			

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

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)	Door Trim plate	Mounting plate	
Height (A)	Width (B)	Depth (C)										
2000	300	500	1	NSYSFV20	NSYSFC35	NSYBP203	NSY2SP205	NSYSFD203	-	NSYTRIM3SF	-	
		600	1	NSYSFV20	NSYSFC36	NSYBP203	NSY2SP206	NSYSFD203	-	NSYTRIM3SF	-	
		800	1	NSYSFV20	NSYSFC38	NSYBP203	NSY2SP208	NSYSFD203	-	NSYTRIM3SF	-	
	400	400	1	NSYSFV20	NSYSFC44	NSYBP204	NSY2SP204	NSYSFD204	-	NSYTRIM4SF	-	
		500	1	NSYSFV20	NSYSFC45	NSYBP204	NSY2SP205	NSYSFD204	-	NSYTRIM4SF	-	
		600	1	NSYSFV20	NSYSFC46	NSYBP204	NSY2SP206	NSYSFD204	-	NSYTRIM4SF	-	
		800	1	NSYSFV20	NSYSFC48	NSYBP204	NSY2SP208	NSYSFD204	-	NSYTRIM4SF	-	
	600	400	1	NSYSFV20	NSYSFC64	NSYBP206	NSY2SP204	NSYSFD206	NSYSFD206T	NSYTRIM6SF	NSYMP206	
		500	1	NSYSFV20	NSYSFC65	NSYBP206	NSY2SP205	NSYSFD206	NSYSFD206T	NSYTRIM6SF	NSYMP206	
		600	1	NSYSFV20	NSYSFC66	NSYBP206	NSY2SP206	NSYSFD206	NSYSFD206T	NSYTRIM6SF	NSYMP206	
		800	1	NSYSFV20	NSYSFC68	NSYBP206	NSY2SP208	NSYSFD206	NSYSFD206T	NSYTRIM6SF	NSYMP206	
	800	400	1	NSYSFV20	NSYSFC84	NSYBP208	NSY2SP204	NSYSFD208	NSYSFD208T	NSYTRIM8SF	NSYMP208	
		500	1	NSYSFV20	NSYSFC85	NSYBP208	NSY2SP205	NSYSFD208	NSYSFD208T	NSYTRIM8SF	NSYMP208	
		600	1	NSYSFV20	NSYSFC86	NSYBP208	NSY2SP206	NSYSFD208	NSYSFD208T	NSYTRIM8SF	NSYMP208	
		600	2	NSYSFV20	NSYSFC86	NSYBP208	NSY2SP206	NSYSFD2082D	-	NSYTRIM8SF2D	NSYMP208	
	800	800	1	NSYSFV20	NSYSFC88	NSYBP208	NSY2SP208	NSYSFD208	NSYSFD208T	NSYTRIM8SF	NSYMP208	
		800	2	NSYSFV20	NSYSFC88	NSYBP208	NSY2SP208	NSYSFD2082D	-	NSYTRIM8SF2D	NSYMP208	
		1000	400	1	NSYSFV20	NSYSFC104	NSYBP2010	NSY2SP204	NSYSFD2010	NSYSFD2010T	NSYTRIM10SF	NSYMP2010
			400	2	NSYSFV20	NSYSFC104	NSYBP2010	NSY2SP204	NSYSFD20102D	-	NSYTRIM10SF2D	NSYMP2010
	500		1	NSYSFV20	NSYSFC105	NSYBP2010	NSY2SP205	NSYSFD2010	NSYSFD2010T	NSYTRIM10SF	NSYMP2010	
	500		2	NSYSFV20	NSYSFC105	NSYBP2010	NSY2SP205	NSYSFD20102D	-	NSYTRIM10SF2D	NSYMP2010	
	1000	600	1	NSYSFV20	NSYSFC106	NSYBP2010	NSY2SP206	NSYSFD2010	NSYSFD2010T	NSYTRIM10SF	NSYMP2010	
		600	2	NSYSFV20	NSYSFC106	NSYBP2010	NSY2SP206	NSYSFD20102D	-	NSYTRIM10SF2D	NSYMP2010	
		800	1	NSYSFV20	NSYSFC108	NSYBP2010	NSY2SP208	NSYSFD2010	NSYSFD2010T	NSYTRIM10SF	NSYMP2010	
800		2	NSYSFV20	NSYSFC108	NSYBP2010	NSY2SP208	NSYSFD20102D	-	NSYTRIM10SF2D	NSYMP2010		
1200	400	2	NSYSFV20	NSYSFC124	NSYBP2012	NSY2SP204	NSYSFD20122D	NSYSFD20122DT	NSYTRIM12SF2D	NSYMP2012		
	500	2	NSYSFV20	NSYSFC125	NSYBP2012	NSY2SP205	NSYSFD20122D	NSYSFD20122DT	NSYTRIM12SF2D	NSYMP2012		
	600	2	NSYSFV20	NSYSFC126	NSYBP2012	NSY2SP206	NSYSFD20122D	NSYSFD20122DT	NSYTRIM12SF2D	NSYMP2012		
	800	2	NSYSFV20	NSYSFC128	NSYBP2012	NSY2SP208	NSYSFD20122D	NSYSFD20122DT	NSYTRIM12SF2D	NSYMP2012		
1600	400	2	NSYSFV20	NSYSFC164	NSYBP2016	NSY2SP204	NSYSFD20162D	-	NSYTRIM16SF2D	NSYMP2016		
	500	2	NSYSFV20	NSYSFC165	NSYBP2016	NSY2SP205	NSYSFD20162D	-	NSYTRIM16SF2D	NSYMP2016		
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2200	400	400	1	NSYSFV22	NSYSFC44	NSYBP224	NSY2SP224	NSYSFD224	-	NSYTRIM4SF	-	
		500	1	NSYSFV22	NSYSFC45	NSYBP224	NSY2SP225	NSYSFD224	-	NSYTRIM4SF	-	
		600	1	NSYSFV22	NSYSFC46	NSYBP224	NSY2SP226	NSYSFD224	-	NSYTRIM4SF	-	
		800	1	NSYSFV22	NSYSFC48	NSYBP224	NSY2SP228	NSYSFD224	-	NSYTRIM4SF	-	
	600	400	1	NSYSFV22	NSYSFC64	NSYBP226	NSY2SP224	NSYSFD226	NSYSFD226T	NSYTRIM6SF	NSYMP226	
		500	1	NSYSFV22	NSYSFC65	NSYBP226	NSY2SP225	NSYSFD226	NSYSFD226T	NSYTRIM6SF	NSYMP226	
		600	1	NSYSFV22	NSYSFC66	NSYBP226	NSY2SP226	NSYSFD226	NSYSFD226T	NSYTRIM6SF	NSYMP226	
		800	1	NSYSFV22	NSYSFC68	NSYBP226	NSY2SP228	NSYSFD226	NSYSFD226T	NSYTRIM6SF	NSYMP226	
	800	400	1	NSYSFV22	NSYSFC84	NSYBP228	NSY2SP224	NSYSFD228	NSYSFD228T	NSYTRIM8SF	NSYMP228	
		500	1	NSYSFV22	NSYSFC85	NSYBP228	NSY2SP225	NSYSFD228	NSYSFD228T	NSYTRIM8SF	NSYMP228	
		600	1	NSYSFV22	NSYSFC86	NSYBP228	NSY2SP226	NSYSFD228	NSYSFD228T	NSYTRIM8SF	NSYMP228	
		800	1	NSYSFV22	NSYSFC88	NSYBP228	NSY2SP228	NSYSFD228	NSYSFD228T	NSYTRIM8SF	NSYMP228	
	1000	400	1	NSYSFV22	NSYSFC104	NSYBP2210	NSY2SP224	NSYSFD2210	NSYSFD2210T	NSYTRIM10SF	NSYMP2210	
		500	1	NSYSFV22	NSYSFC105	NSYBP2210	NSY2SP225	NSYSFD2210	NSYSFD2210T	NSYTRIM10SF	NSYMP2210	
		600	1	NSYSFV22	NSYSFC106	NSYBP2210	NSY2SP226	NSYSFD2210	NSYSFD2210T	NSYTRIM10SF	NSYMP2210	
		800	1	NSYSFV22	NSYSFC108	NSYBP2210	NSY2SP228	NSYSFD2210	NSYSFD2210T	NSYTRIM10SF	NSYMP2210	
	1200	400	2	NSYSFV22	NSYSFC124	NSYBP2212	NSY2SP224	NSYSFD22122D	NSYSFD22122DT	NSYTRIM12SF2D	NSYMP2212	
		500	2	NSYSFV22	NSYSFC125	NSYBP2212	NSY2SP225	NSYSFD22122D	NSYSFD22122DT	NSYTRIM12SF2D	NSYMP2212	
		600	2	NSYSFV22	NSYSFC126	NSYBP2212	NSY2SP226	NSYSFD22122D	NSYSFD22122DT	NSYTRIM12SF2D	NSYMP2212	
		800	2	NSYSFV22	NSYSFC128	NSYBP2212	NSY2SP228	NSYSFD22122D	NSYSFD22122DT	NSYTRIM12SF2D	NSYMP2212	

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

Steel floor-standing enclosures

Specific accessories overview

PB502427-57



Composition accessories

Panels



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Coupling accessories



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Roofs



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Wall-mounting



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Floor



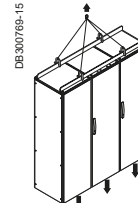
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Cable entry



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Lifting systems



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Doors



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Locking systems



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Steel floor-standing enclosures

Specific accessories overview

Installation accessories

PB502434-30



Mounting acc.

PB502435-31



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Telequick system

PB502436-27



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Power distribution

DB404943-35



Busbar supports

DB404943-40



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Steel floor-standing enclosures

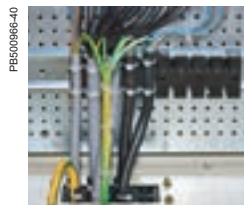
Common accessories overview

PB502439-55



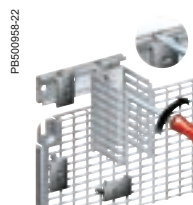
Cable management

Cable holding



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Cable ducting



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Thermal management

Heaters



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Ventilation



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Cooling units



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Others

Door accessories



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Lighting



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Earthing



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Steel floor-standing enclosures

Accessories

Panels

SF



SF



SF



Characteristics	Side door	External fixing	Internal fixing	
	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.	Set of 2 side panels fixed from the outside of the enclosure.	Set of 2 side panels fixed from the enclosure, preventing access by unauthorized persons. Very useful in public spaces.	
Material	Steel	Steel	Steel	
Finish	Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder	
Colour	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey	
Ingress protection rating	IP55 according to IEC 60529	IP55 according to IEC 60529	IP55 according to IEC 60529	
Supply	One side door, four hinges, four catches and handle lock	2 side panels, with sealing gasket and bag of accessories	2 side panels, with sealing gasket and bag of accessories	
Height (mm)	Depth (mm)	References		
1200	400	-	NSY2SP124	-
	500	-	NSY2SP125	-
	600	NSYSFD126	NSY2SP126	NSY2SPI126
	800	NSYSFD128	NSY2SP128	-
1400	400	-	NSY2SP144	-
	500	-	NSY2SP145	-
	600	NSYSFD146	NSY2SP146	-
	800	NSYSFD148	NSY2SP148	-
1600	400	-	NSY2SP164	-
	500	-	NSY2SP165	-
	600	NSYSFD166	NSY2SP166	-
	800	NSYSFD168	NSY2SP168	-
1800	400	NSYSFD184	NSY2SP184	-
	500	NSYSFD185	NSY2SP185	NSY2SPI185
	600	NSYSFD186	NSY2SP186	NSY2SPI186
	800	NSYSFD188	NSY2SP188	NSY2SPI188
2000	1000	-	-	-
	400	NSYSFD204	NSY2SP204	NSY2SPI204
	500	NSYSFD205	NSY2SP205	NSY2SPI205
	600	NSYSFD206	NSY2SP206	NSY2SPI206
	800	NSYSFD208	NSY2SP208	NSY2SPI208
	1200	-	-	-
2200	400	NSYSFD224	NSY2SP224	-
	500	NSYSFD225	NSY2SP225	-
	600	NSYSFD226	NSY2SP226	NSY2SPI226
	800	NSYSFD228	NSY2SP228	NSY2SPI228
	1000	-	-	-

Steel floor-standing enclosures

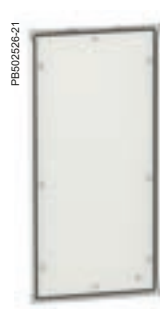
Accessories

Panels

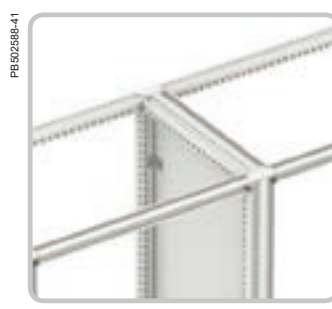
SF



SF



SF



SF



Quick-fixing side panels	Internal fixing rear panel	Partition panel
Set of 2 side panels fixed to the outside of the enclosure by clipping locks. No sealing gasket.	Rear panel fixed from the inside of the enclosure, preventing unauthorized personnel from accessing and removing it. Normally used in public spaces.	Partition panel for direct fixing to the structure, guarantees a water/dustproof protection of IP10 between enclosure suites.
Steel	Steel	Galvanised steel
Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder	-
RAL 7035 grey	RAL 7035 grey	-
IP40 according to IEC 60529	IP55 according to IEC 60529	IP10 according to IEC 60529
2 side panels and fixing elements	1 rear panel and fixing elements	1 partition panel, sealing gasket and fixing elements
-	-	-
-	-	-
NSY2SPQ126	-	-
NSY2SPQ128	-	-
-	-	-
-	-	-
NSY2SPQ146	-	-
NSY2SPQ148	-	-
-	-	-
-	-	-
NSY2SPQ166	-	NSYPPS166
NSY2SPQ168	NSYBPI168	NSYPPS168
-	-	NSYPPS184
-	-	NSYPPS185
NSY2SPQ186	-	NSYPPS186
NSY2SPQ188	-	-
-	NSYBPI1810	-
-	NSYBPI204	NSYPPS204
-	-	NSYPPS205
NSY2SPQ206	NSYBPI206	NSYPPS206
NSY2SPQ208	NSYBPI208	NSYPPS208
-	NSYBPI2010	-
-	NSYBPI2012	-
-	-	-
-	-	-
NSY2SPQ226	NSYBPI226	NSYPPS226
NSY2SPQ228	NSYBPI228	NSYPPS228
-	NSYBPI2210	-

Trim cap

Trim cap for external fixing panels, both sides and rear.

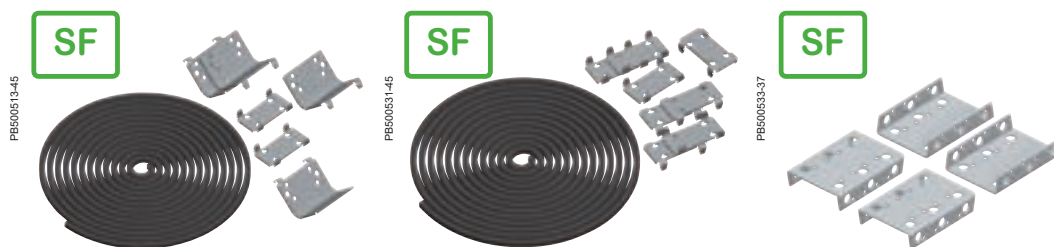
Polyamide 6
-
RAL 7035 grey
50 units

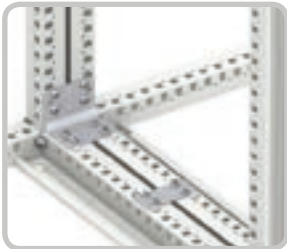
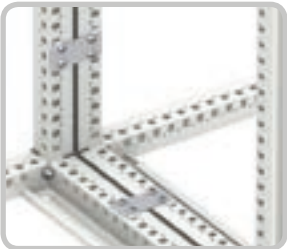
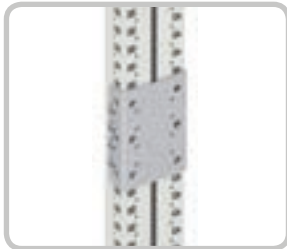
Reference
NSYCSP

Steel floor-standing enclosures

Accessories

Coupling accessories

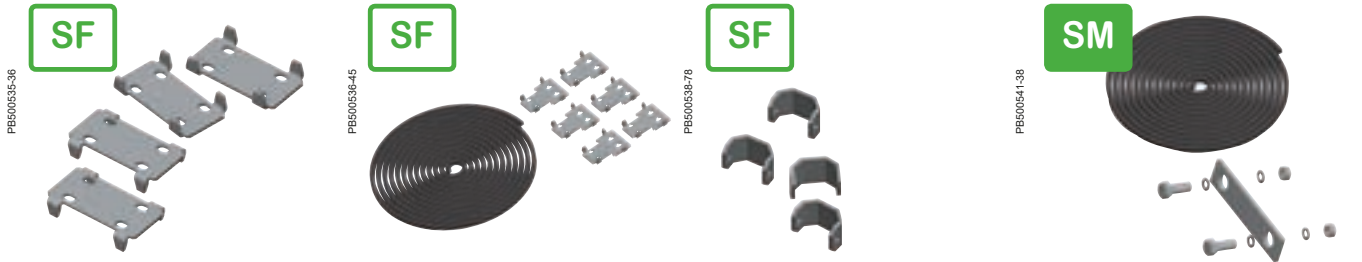


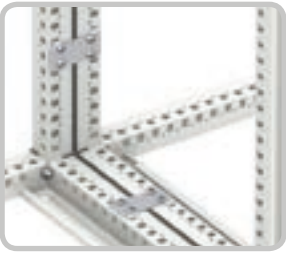

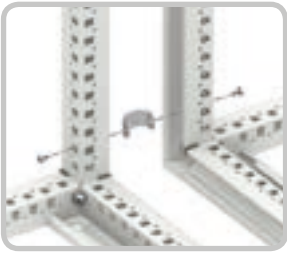

Characteristics	Standard coupling Kit	Swing 19" rack coupling Kit	Reinforced coupling
	 <p>Used for joining enclosures side-to-side or depthwise. Fixing from the inside of the enclosure.</p>	 <p>Used for joining enclosures equipped with swing 19" rack, side-to-side or depthwise. Fixing from the inside of the enclosures.</p>	 <p>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.</p>
Material	<ul style="list-style-type: none"> ■ Flat connectors and brackets: zinc-coated steel ■ Sealing gasket: EPDM 	<ul style="list-style-type: none"> ■ Flat connectors: zinc-coated steel ■ Sealing gasket: EPDM 	Zinc-coated steel
Supply	4 brackets, 2 flat connectors, sealing gasket and fixing elements and 16 caps	8 flat connectors, sealing gasket and fixing elements and 16 caps	4 reinforced connectors and fixing elements
References	NSYSFBK	NSYSFBK19	NSYSFBKR

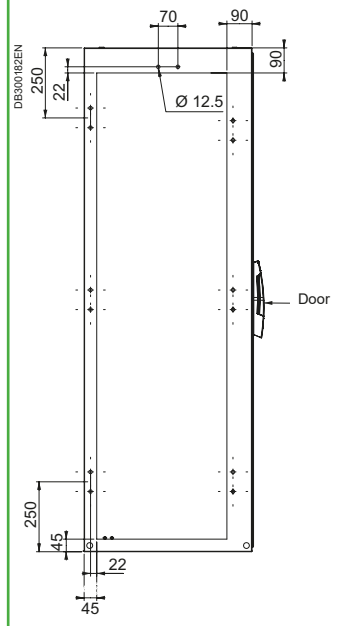
Steel floor-standing enclosures

Accessories

Coupling accessories



Quick coupling	Kit for coupling the previous version with Spacial SF	External coupling	Enclosure coupling kit for Spacial SM
			
<p>Used for quickly joining 2 enclosures. Fixing from the inside of the enclosures.</p>	<p>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.</p>	<ul style="list-style-type: none"> ■ 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. 	<ul style="list-style-type: none"> ■ Used for joining enclosures side-to-side. ■ Enclosures fixed from the inside.
<p>Zinc-coated steel</p>	<ul style="list-style-type: none"> ■ Flat connectors and spacers: zinc-coated steel ■ Sealing gasket: EPDM 	<ul style="list-style-type: none"> ■ External connectors: zinc-coated steel 	<p>3 x 10 sealing gasket: EPDM</p>
<p>4 flat links and fixing elements</p>	<p>6 flat connectors, sealing gasket and fixing elements</p>	<p>4 external connectors and fixing elements</p>	<p>1 sealing gasket and fixing elements</p>
<p>NSYSFBKF</p>	<p>NSYSFBKSH</p>	<p>NSYSFBKE</p>	<p>NSYSMBK</p>



Steel floor-standing enclosures

Accessories

Floor

Plinth in kit form

Front and rear kit

Side panels

Complete plinth

PB502546-50



PB502547-40



PB502548-47



Plinth height 100 mm

PB502549-50



PB502550-31



PB502551-47



Plinth height 200 mm

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.

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

Steel floor-standing enclosures

Accessories

Floor



Examples of solutions

PB502564-72

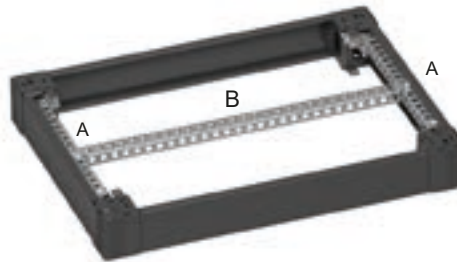
PB502565-51



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 231.

PB502566-63



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

PB502567-104



Steel floor-standing enclosures

Accessories

Floor

Possibility of joining plinths



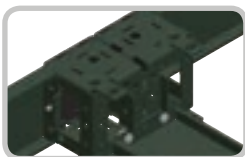
PB500545-35

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

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



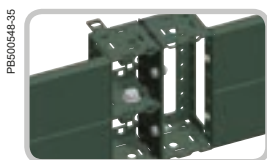
PB500546-35



PB500547-35

- 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.**

- + Improves rigidity in the depthwise direction during transport.



PB500548-35

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

- + The two heights of corners can be combined.

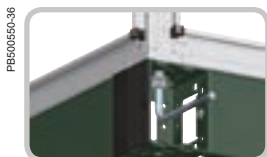
Possibility of fixing the enclosure to the plinth



PB500549-38

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

- + Fixing convenience and speed.



PB500550-36

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

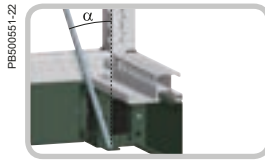
- + Maximum rigidity of the enclosure-plinth assembly.

Steel floor-standing enclosures

Accessories

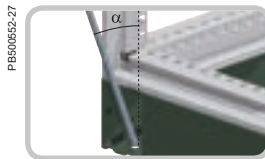
Floor

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 $\alpha = 9^\circ$.



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.

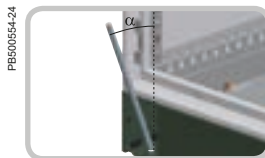
The corners of the ends can be rotated in the event of needing to remove the side panels of the plinth and/or to obtain access to the fixing outside the floor, when the set is installed against the wall.



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.

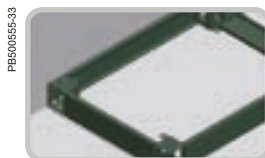
⊕ Fixing convenience and speed.



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 $\alpha = 11^\circ$.



Enclosure against a wall

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 back corners),
- 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.



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.

Steel floor-standing enclosures

Accessories

SM

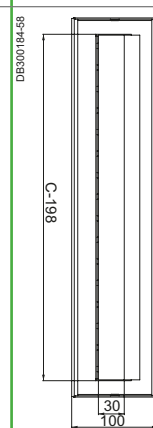
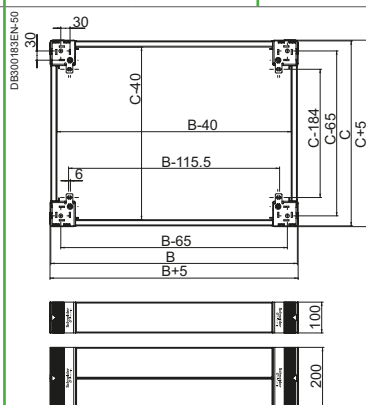
SF

Floor



Characteristics	Front plinth	Plinth side panels	Ventilated front plinth	Ventilated side panels	Panels with brush
	The front and rear of the plinth consists of 4 corners with 2 or 4 panels.	They are fixed to the corner of the plinth by 2 fixing screws.	The front and rear of the ventilated plinth is made up of 4 corners with 2 front panels.	They are fixed to the corner of the plinth by fixing screws.	They allow the entry and fixing of cables inside the enclosure, through the plinth.
Material	Folded sheet steel, corner with a thickness of 25/10° mm	Folded sheet steel	Folded sheet steel, corner with a thickness of 25/10° mm	Folded sheet steel	Folded sheet steel
Finish	Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder
Colour	RAL 7022 grey	RAL 7022 grey	RAL 7022 grey	RAL 7022 grey	RAL 7022 grey
Ingress protection rating	IP30 according to IEC 60529	IP30 according to IEC 60529	IP20 according to IEC 60529	IP20 according to IEC 60529	IP20 according to IEC 60529
Mechanical protection rating	IK10 according to IEC 62262	IK10 according to IEC 62262	IK10 according to IEC 62262	IK10 according to IEC 62262	IK10 according to IEC 62262
Supply	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Height 100 mm: 4 corners, 2 ventilated panels (front and rear), 4 corner covers and fixing elements 	<ul style="list-style-type: none"> Height 100 mm: 2 ventilated side panels, 4 corner covers and fixing elements 	<ul style="list-style-type: none"> Height 100 mm: 2 panels with brushes, 4 corner covers and fixing elements

References						
Width (mm) (B)	100 mm		200 mm		100 mm	
300	NSYSPF3100	NSYSPF3200	-	-	-	-
400	NSYSPF4100	NSYSPF4200	-	-	-	-
600	NSYSPF6100	NSYSPF6200	-	-	NSYSPFV6100	-
800	NSYSPF8100	NSYSPF8200	-	-	NSYSPFV8100	-
1000	NSYSPF10100	NSYSPF10200	-	-	-	-
1200	NSYSPF12100	NSYSPF12200	-	-	-	-
1600	NSYSPF16100	NSYSPF16200	-	-	-	-
1800	-	-	-	-	-	-
2400	-	-	-	-	-	-
Depth (mm) (C)			100 mm	200 mm	100 mm	100 mm
300	-	-	NSYSPS3100	NSYSPS3200	-	-
400	-	-	NSYSPS4100	NSYSPS4200	-	-
500	-	-	NSYSPS5100	NSYSPS5200	-	-
600	-	-	NSYSPS6100	NSYSPS6200	NSYSPV6100	NSYSPB6100
800	-	-	NSYSPS8100	NSYSPS8200	NSYSPV8100	NSYSPB8100
1000	-	-	-	-	-	-

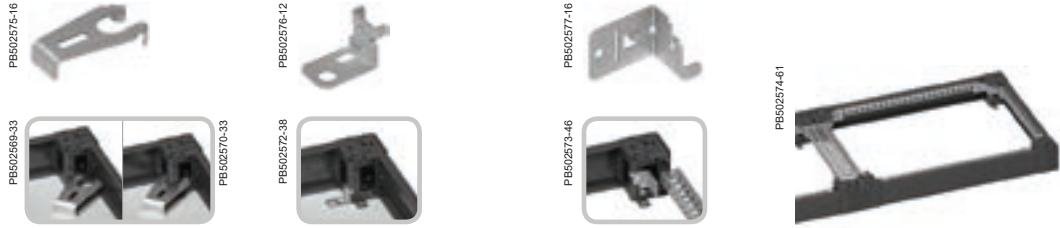


[!] Stainless-steel plinths (standard plinths pages 136 and 137, ventilated plinths page 387) are compatible with steel floor-standing enclosure SM and SF using an earthing cable reference NSYEL226D13 (description page 286) to be ordered separately.

Steel floor-standing enclosures

Accessories

Floor



Characteristics	Fixing to the floor	Fixing to the floor by fixing points of previous version (OLN/CMO or Spacial 6000 and 18500)	Plinth cross-rail support	Plinth cross rails	
	Piece for fixing the plinth to the floor in the event of not being able to use the drillholes made in the plinth.	Pieces that reproduce the floor-fixing points of the previous plinth.	Support for fixing a cross rail inside the plinth.	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.	
Material	Steel	Steel	Steel	Steel	
Finish	Zinc-coated	Zinc-coated	Zinc-coated	Zinc-coated	
Supply	4 pieces, fixing elements not supplied	4 pieces, fixing elements not supplied	12 pieces and fixing elements	2 cross rails and fixing elements	
References					
Width (mm) (B)			Reference by unit Order by multiples of 12 (12, 24, 36...)	Cross rails	
300	NSYSGF	NSYOL6GF	NSYSPCR	1 row (40)	3 rows (90)
400				NSYSUCR4030	NSYSUCR9030
600				NSYSUCR4050	NSYSUCR9050
800				NSYSUCR4070	NSYSUCR9070
1000				NSYSUCR4090	NSYSUCR9090
1200				NSYSUCR40110	NSYSUCR90110
1600				NSYSUCR40150	NSYSUCR90150
1800				-	-
2400	-	-	-	-	
Depth (mm) (C)				1 row (40)	3 rows (90)
500	-	-	-	NSYSUCR4040	NSYSUCR9040

Floor



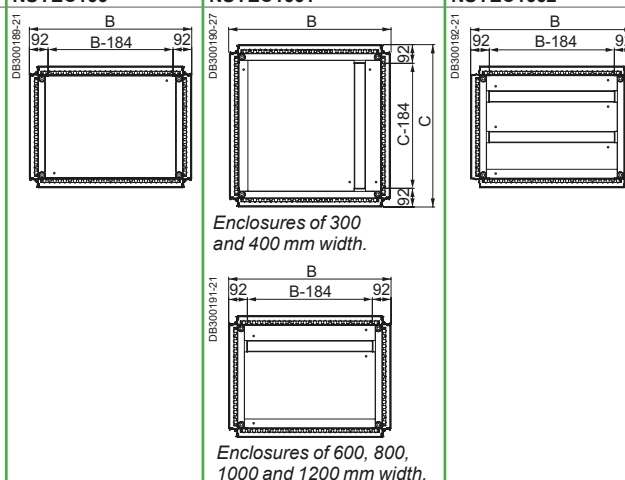
Fixing options			
Characteristics	Screw M6 Torx T30 M6 x 10 screws.	Caged nuts M6 caged nuts.	Levelling the plinth The plinth allows levelling by means of an M12 screw.
Supply	50	100	-
References			
	NSYS6M6	NSYCN9M625	NSYSPLK

Steel floor-standing enclosures Accessories

Cable entries



Characteristics		Plain cable-gland plate	Plain cable-gland plate	With 1 entry	With 2 entries	Cable-gland plate for connectors	
		The design of the compact cable gland plate, coupled with the use of the sealing gasket NSYCEK enable the maximum dust/water tightness.		Facilitates the entry of cables thanks to a longitudinal opening.	Cable entry for very deep enclosures (600 and 800 mm). Two longitudinal openings allowing a large number of cables through.	Adapter plate to install cable entry plates for connectors, see page 265. To be used together with cable-gland plates, 1 or 2 entries, adding or replacing one of the parts.	
Material		Steel painted with epoxy-polyester resin, RAL 7035	Galvanised steel			Galvanised steel	
Thicknesses		10/10° mm	15/10° mm			15/10° mm	
Supply		Plain plate and fixing elements	Plain plate and fixing elements	Plate with 1 entry; self-extinguishing polyurethane adhesive gasket with cross-section of 15 x 25 mm (guarantees good sealing) and fixing elements	1 plate with 2 entries; polyurethane adhesive gasket with cross-section of 15 x 25 mm (guarantee good sealing) and fixing elements	Plate and fixing elements	
Width (B)	Depth (C)	References				No. of cuts	References
300	500	-	NSYEC35	NSYEC351	-	-	-
	600	-	NSYEC36	NSYEC361	-	-	-
400	400	-	NSYEC44	NSYEC441	-	-	-
	500	-	NSYEC45	NSYEC451	-	-	-
	600	-	NSYEC64	NSYEC641	-	-	-
	800	-	NSYEC84	NSYEC841	-	-	-
600	300	NSYSMEC63	-	-	-	2	NSYDCE6
	400	NSYSMEC64	NSYEC64	NSYEC641	-	-	
	500	NSYSMEC65	NSYEC65	NSYEC651	-	-	
	600	NSYSMEC66	NSYEC66	NSYEC661	NSYEC662	-	
	800	-	NSYEC68	NSYEC681	NSYEC682	-	
800	300	NSYSMEC83	-	-	-	3	NSYDCE8
	400	NSYSMEC84	NSYEC84	NSYEC841	-	-	
	500	NSYSMEC85	NSYEC85	NSYEC851	-	-	
	600	NSYSMEC86	NSYEC86	NSYEC861	NSYEC862	-	
	800	-	NSYEC88	NSYEC881	NSYEC882	-	
1000	300	NSYSMEC103	-	-	-	4	NSYDCE10
	400	NSYSMEC104	NSYEC104	NSYEC1041	-	-	
	500	NSYSMEC105	NSYEC105	NSYEC1051	-	-	
	600	-	NSYEC106	NSYEC1061	NSYEC1062	-	
1200	300	-	NSYEC108	NSYEC1081	NSYEC1082	-	NSYDCE12
	400	2 x NSYSMEC63	-	-	-	4	
	500	2 x NSYSMEC64	NSYEC124	NSYEC1241	-	-	
	600	2 x NSYSMEC65	NSYEC125	NSYEC1251	-	-	
	800	2 x NSYSMEC66	NSYEC126	NSYEC1261	NSYEC1262	-	
1600	400	-	NSYEC128	NSYEC1281	NSYEC1282	-	-
	500	2 x NSYSMEC84	NSYEC164	NSYEC1641	-	-	
	600	2 x NSYSMEC85	NSYEC165	NSYEC1651	-	-	
	600	2 x NSYSMEC86	NSYEC166	NSYEC1661	NSYEC1662	-	

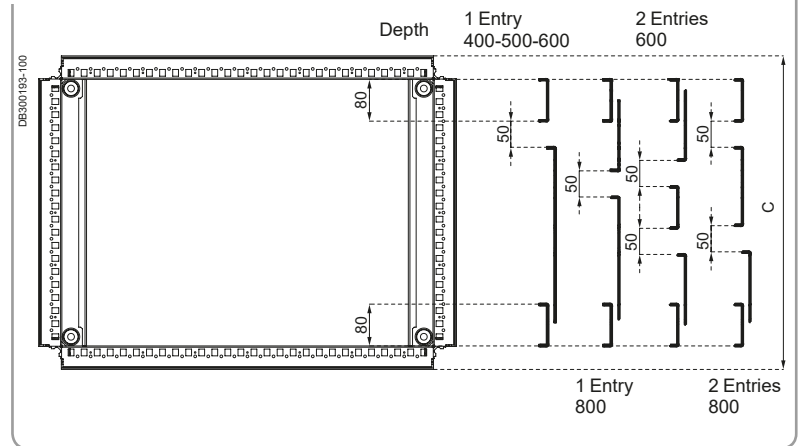


Steel floor-standing enclosures

Accessories



Possibilities of cable gland-plate adjustment



Gaskets



Dimensions (mm)	Brush-type cable-entry gasket	Foam cable-entry gasket	Sealing gasket
	For plates with 1 or 2 cable entries. The cables can have different diameters.	Brush-type gasket for installation on the cable-gland plates. The cables can have different diameters.	Spare gasket, made from self-extinguishing expanded polyurethane with a cross-section of 15 x 25 mm, for fixing on cable-gland plates.
			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.
Width (mm)	References	References	Reference
400	NSYBCE4	-	NSYCEJ
600	NSYBCE6	NSYSMBCE6	NSYCEK
800	NSYBCE8	NSYSMBCE8	
1000	NSYBCE10	NSYSMBCE10	
1200	NSYBCE12	2 x NSYSMBCE6	
1600	NSYBCE16	2 x NSYSMBCE8	

Steel floor-standing enclosures

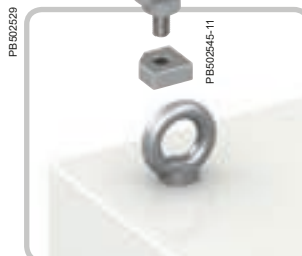
Accessories

Lifting systems

SF



SM



SF



Characteristics	Eyebolts	Lifting brackets
Maximum amount of assembled enclosures to be lifted	1	2
	Set of M12 lifting eyebolts, which screw directly into the structure of the enclosure, in the axis of the uprights.	Set of lifting and transport brackets, fixed to the structure between two coupled enclosures, in the axis of the uprights.
Material	Galvanised cast steel	Zinc-coated steel
Maximum load	340 kg	500 kg
Supply	4 eyebolts	4 brackets and fixing elements (M12 screws)
References	NSYSFEB	NSYSMEB

Steel floor-standing enclosures

Accessories

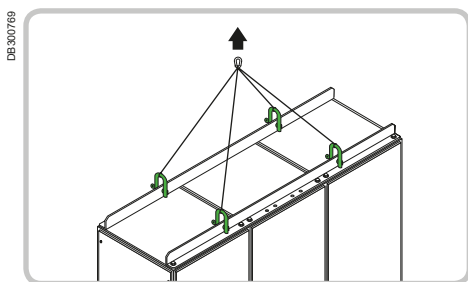
Lifting systems

SF



Lifting bar			
2	3	4	5
Set of bars for lifting and transporting enclosures suites. They are fixed to the structure of the enclosure, in the axis of the uprights.			
Steel			
2000 kg (length 1600 mm)	3000 kg (length 1800 mm)	3000 kg (length 2400 mm)	4000 kg (length 3200 mm)
2 lifting bars and fixing elements (M12 screws)			
NSYSFTB16	NSYSFTB18	NSYSFTB24	NSYSFTB32

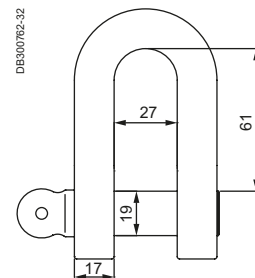
Recommended lifting points



Shackles

- Lifting bar shackles.
- Maximum load: 1600 kg.
- Supply: 4 shackles.

Reference
NSYSFTBS

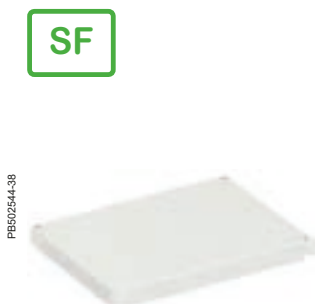


Steel floor-standing enclosures Accessories

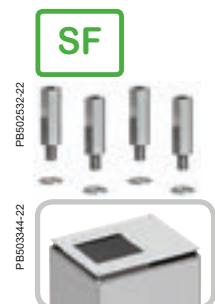
Roof



SM SF

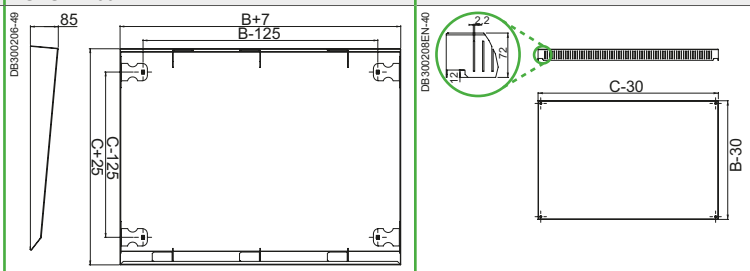
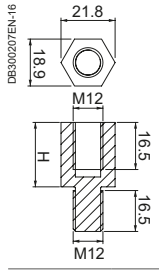


SF



Characteristics	Canopy	Ventilated roof
	Provides excellent protection against splashes from rainwater. Canopy mandatory for outdoor use, not compatible with the simultaneous use of lifting elements. Spacial SF: it is possible to use a single canopy with combinations of modular enclosures (example of a 1600 mm canopy with two coupled 800-mm enclosures).	Roof providing natural ventilation for the enclosure, with IP30 protection. Height: an extra 63 mm in relation to the structure.
Material	Galvanised steel	Steel
Finish	Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder
Colour	RAL 7035 grey	RAL 7035 grey
Fixing	<ul style="list-style-type: none"> 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 	They are screwed onto the structure, at the roof fixing point
Supply	One canopy, drilling template and fixing elements	One ventilated roof and four elevators
Width (B) (mm)	Depth (C) (mm)	References
600	300	NSYSC630
	400	NSYSC640
	500	NSYSC650
	600	NSYSC660
	800	-
800	300	NSYSC830
	400	NSYSC840
	500	NSYSC850
	600	NSYSC860
	800	-
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

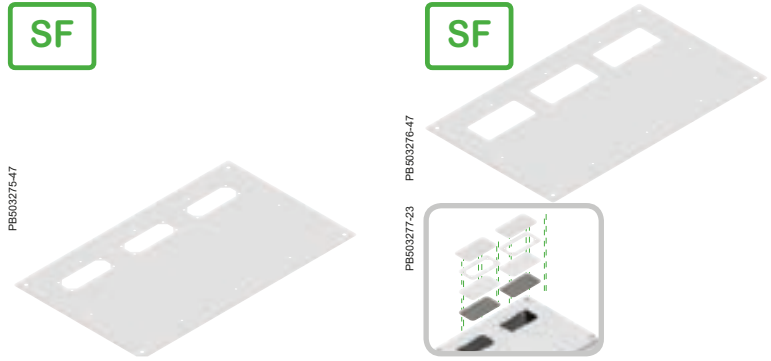
Ventilation elevators for roof	
	Allows the roof to be raised, providing natural ventilation. They are screwed onto the structure, at the roof fixing point.
Material	Zinc-coated steel
Supply	4 elevators
Height (H) (mm)	IP
23	10
60	00
	References
	NSYRE26
	NSYRE60



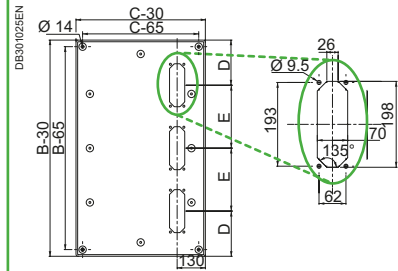
Steel floor-standing enclosures

Accessories

Roof



Characteristics				FL21 cable-entry roof	Cable-entry roof
Material				Steel	Steel
Finish				Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder
Colour				RAL 7035 grey	RAL 7035 grey
Supply				One cut-out roof for the FL21 cable-entry plates	One cut-out roof for the cable-entry plates
Dimensions (mm)		Centre-to-centre distance (mm)		No. of entries	References
Width (B)	Depth (C)	D	E		
600	500	248	-	1	NSYSFLR65
	600	-	-		NSYSFLR66
800	500	208	-	2	NSYSFLR85
	600	-	-		NSYSFLR86
	500	220	-		-
1000	600	-	-	3	-
	500	208	290		NSYSFLR105
	600	-	-		NSYSFLR106
	500	220	285		-
600	-	-	-	-	NSYSRCE650
					NSYSRCE660
					-
					NSYSRCE850
					NSYSRCE860
					-
					NSYSRCE1050
					NSYSRCE1060



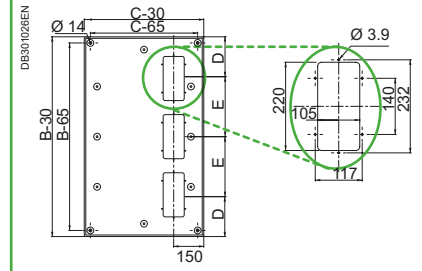
FL21 cable-entry membranes (1)

Membrane plate for watertight cable entries made from insulating material (fireresistance level UL 94 V-0).
 Direct installation in the FL21 cable-entry plate adapter.
 4 models: plain plate and membrane plates from 7 to 35 cable entries.

- Material: grey plastic.
- Ingress protection rating: IP66 according to IEC 60529.
- Supply: membrane plate and fixing elements.

No. of cable entries	References
Plain	NSYAACPFLBP (2)
7	NSYAACPFLT7
25	NSYAACPFLT25
35	NSYAACPFLT35

(1) For more information, see page 265.
 (2) Metallic plate.



Standard cable-entry plate (1)

Thickness	Reference
15/10° mm	NSYTLCL

FlexiCable

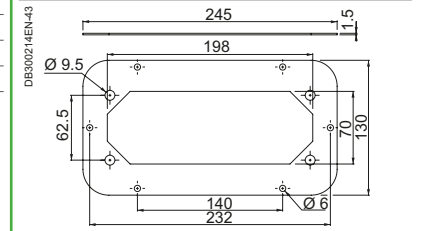
Reference
NSYTLCLME

Aluminium cable-entry plate

Thickness	Reference
30/10° mm	NSYTLCLU

Adapter for FL21 cable-entry plate

Thickness	Reference
15/10° mm	NSYTLCLFL



Steel floor-standing enclosures

Accessories

Wall fixing

SF



SM



Characteristics	Wall fixing support	
	<p>Supports for fixing 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.</p>	<p>Supports for fixing 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.</p>
Material	Zinc-coated steel	Zinc-coated steel
Supply	2 supports	2 supports
References		
	<p>NSYSFWFIX</p> <p>DB301027EN</p>	<p>NSYSMWFIX</p> <p>DB300219EN</p>

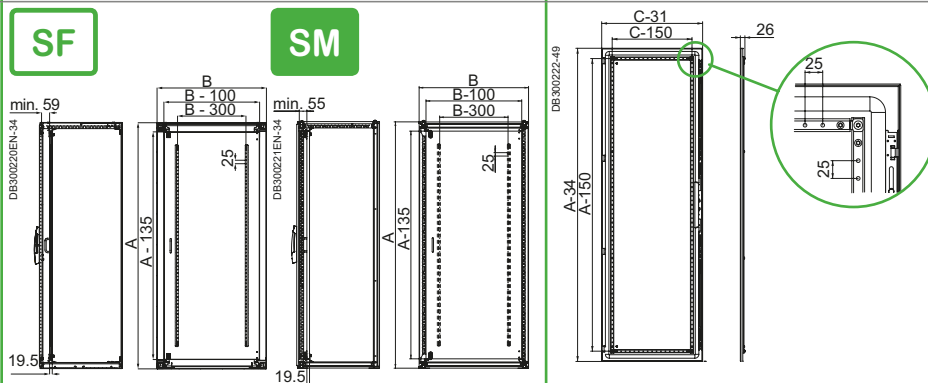
Steel floor-standing enclosures

Accessories

Doors






Characteristics		Inner door	Door
		<ul style="list-style-type: none"> ■ 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. ■ Maximum acceptable load: 15 kg. ■ Inner doors can be mounted in our stainless steel floor-standing enclosures (SFX and SMX). 	<ul style="list-style-type: none"> ■ Door for all sides 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	Steel
Finish		Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder
Colour		RAL 7035 grey	RAL 7035 grey
Supply		One inner door and fixing elements	One side door, four hinges, four catches and handle lock
H (mm)	W/D (mm)	References	
1200	600	-	NSYSFD126
	800	-	NSYSFD128
1400	600	-	NSYSFD146
	800	-	NSYSFD148
1600	600	NSYID166	NSYSFD166
	800	NSYID168	NSYSFD168
1800	400	-	NSYSFD184
	500	-	NSYSFD185
	600	NSYID186	NSYSFD186
	800	NSYID188	NSYSFD188
2000	1000	NSYID1810	-
	300	-	NSYSFD203
	400	-	NSYSFD204
	500	-	NSYSFD205
	600	NSYID206	NSYSFD206
	700	-	NSYSFD207
2200	800	NSYID208	NSYSFD208
	1000	NSYID2010	-
	400	-	NSYSFD224
	500	-	NSYSFD225
	600	NSYID226	NSYSFD226
	800	NSYID228	NSYSFD228






Steel floor-standing enclosures

Accessories

Doors

Partials doors						
	Front Fix panel for modularity		Frontal partial doors		Frontal Transparent partial doors	
						
	Width: 600 mm	Width: 800 mm	Width: 600 mm	Width: 800 mm	Width: 600 mm	Width: 800 mm
Characteristics	<ul style="list-style-type: none"> ■ Top & bottom fix panel to obtain modularity required to install partial doors. It is needed to purchase NSYMIC6 & NSYMIC8. ■ H100 mm fixed panels are delivered as standard for the compartmentalised enclosure, Spacial SFM. ■ Possibility to order it separately for Spacial SF framework in kit supply. ■ Available in 2 heights (mm). 		<ul style="list-style-type: none"> ■ Plain partial door with lock 5 mm double-bar insert. ■ They are fixed to the uprights of the framework by means of hinges. ■ Drilling template for uprights ref. NSYMDT (Only 1 drilling template by order is needed). ■ Opening to right or left. ■ 1, 2 or 4 locking points according different heights. ■ Possibility to replace locking insert (see page 118). ■ Available in following heights (mm). 		<ul style="list-style-type: none"> ■ Glazed (Securit glass) partial door with lock 5 mm double-bar insert. ■ They are fixed to the uprights of the framework by means of hinges. ■ Opening to right or left. ■ 1 or 2 locking points according different heights. ■ Available in following heights (mm). 	
Ingress protection rating	IP54 according to IEC 60529		IP54 according to IEC 60529		IP54 according to IEC 60529	
Height (mm)	References					
100	NSYMF2M6	NSYMF2M8	-	-	-	-
150	-	-	NSYMPD3M6	NSYMPD3M8	-	-
200	-	-	NSYMPD4M6	NSYMPD4M8	NSYMPD26T	NSYMPD28T
250	NSYMF5M6	NSYMF5M8	NSYMPD5M6	NSYMPD5M8	-	-
300	-	-	NSYMPD6M6	NSYMPD6M8	-	-
400	-	-	NSYMPD8M6	NSYMPD8M8	NSYMPD46T	NSYMPD48T
450	-	-	NSYMPD9M6	NSYMPD9M8	-	-
600	-	-	NSYMPD12M6	NSYMPD12M8	NSYMPD66T	NSYMPD68T
800	-	-	NSYMPD16M6	NSYMPD16M8	NSYMPD86T	NSYMPD88T
900	-	-	NSYMPD18M6	NSYMPD18M8	-	-
1000	-	-	NSYMPD20M6	NSYMPD20M8	NSYMPD106T	NSYMPD108T
1200	-	-	NSYMPD24M6	NSYMPD24M8	-	-

Other external claddings for multi-purpose applications			
	Intermediate Crossbar	Folding panel	Control desk
			
Characteristics	<ul style="list-style-type: none"> ■ Mounted between partial doors or between doors and control desk, guaranteeing IP54 according to IEC 60529. ■ Crossbar with direct fixing to the structure. ■ Available in 2 widths (mm). 	<ul style="list-style-type: none"> ■ H300 mm 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. ■ 2 locking points, 5 mm double-bar insert. ■ Available in 2 widths (mm). 	<ul style="list-style-type: none"> ■ Support for human-machine dialogue. ■ H400 mm Control desk is installed together with partial doors to create the modularity of the enclosure. ■ 2 locking points, 5 mm double-bar insert. ■ Available in 2 widths (mm).
Supply	2 crossbars with fixing elements	-	-
Width (mm)	References		
600	NSYMIC6	NSYCDP36	NSYMCOD264
800	NSYMIC8	NSYCDP38	NSYMCOD284

To make separation (form 2b to form 4b), please refer to Spacial SFM product.

Steel floor-standing enclosures

Accessories



Door accessories



Characteristics				Metal document pocket	Plastic document pocket	Folding support tray
				Direct mounting on the reinforcement frame of the door. Adjustable depth with a pitch of 25 mm.	Attachment by adhesive tape.	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 281. 4 positions: 45°, 60°, 75° and 90°.
Material				Steel	Polystyrene (PS)	Steel
Finish				Structured finish, epoxy-polyester powder	-	Structured finish, epoxy-polyester powder
Colour				RAL 7035 grey	RAL 7035 grey (NSYDPA4: RAL9001)	RAL 7035 grey
Maximum load				-	-	30 kg
Supply				1 metal document pocket and fixing elements	1 plastic document pocket	1 folding support tray and fixing elements
Dimensions (mm)				References		
Doc. format	A	B	C			
A5	174	188	22	-	NSYDPA5	-
A4	230	247	23	-	NSYDPA4	-
A4	234	278	40	-	NSYDPA44(1)	-
A3	285	476	35	-	NSYDPA3	-
Width (D)						
500				-	-	NSYSDT5
600				NSYSDP6M	-	NSYSDT6
800				NSYSDP8M	-	NSYSDT8

* Not compatible with 19" chassis or modular distribution.

Steel floor-standing enclosures

Accessories

SF

SM

Door accessories



Characteristics		180° hinge	Door-centring caster	Trim plate	Customisable label holder
		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.	Allows the door to be raised when closing. Direct mounting on the reinforcement frame.	Trim plate for Spacial SF and SM plain and transparent doors. The Schneider Electric logo can be placed on the left or on the right.	Label holder to be placed on trim plate to customise the enclosure. Delivered with a printable blank label.
Material		Aluminium and zamak	-	Plastic	Polycarbonate (PC)
Finish		Painted RAL 9005 black	-	-	-
Maximum load		60 kg on the door	90 kg	-	-
Supply		4 hinges, template for making the drill holes and fixing elements	One centring roller and fixing elements	1 trim plate for single doors, 2 trim plates for double doors	5 label holders
References					
		NSYSH180 / NSYSH180NC	NSYSDRC	-	NSYCBLSF
Width (mm)	No. of doors	References			
300	1	-	-	NSYTRIM3SF	-
400	1	-	-	NSYTRIM4SF	-
500	1	-	-	NSYTRIM5SF	-
600	1	-	-	NSYTRIM6SF	-
700	1	-	-	NSYTRIM7SFP	-
800	1	-	-	NSYTRIM8SF	-
	2	-	-	NSYTRIM8SF2D	-
1000	1	-	-	NSYTRIM10SF	-
	2	-	-	NSYTRIM10SF2D	-
1200	2	-	-	NSYTRIM12SF2D	-
1600	2	-	-	NSYTRIM16SF2D	-



	Door switch	
	For Spacial SF & SFX	For Spacial SM
See page	280	280
Supply	1	1
References	NSYDCM20	NSYMDCM20

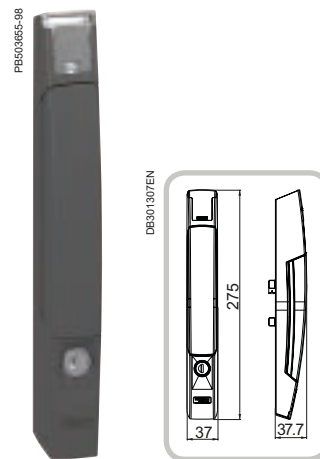
Steel floor-standing enclosures

Accessories

Locking system



Characteristics	Padlock locking	CNOMO kit
	Padlock locking system, for installation in all the handles of the Spacial SF and Spacial SM enclosures. Bolt with 7.5-mm drill hole.	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 cut-out handle, bolt for padlock and bolt fixing screw	One mechanism and fixing elements
References	NSYBLKH123	NSYCNOH123



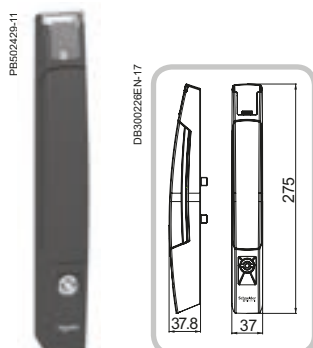
New

Characteristics	Push button handle with 3524E key
	<ul style="list-style-type: none"> ■ Push button handle with 3524E key for Spacial SF and Spacial SM enclosures. ■ Locking and unlocking by key and opening by pushing the insert.
Material	Handle: polyamide 6 with 30% fibreglass
Color	RAL 9005
Fire resistant	650°C
Supply	Push button handle, two 3524E keys and fixing elements (insert included)
Reference	NSYSFHPB

Steel floor-standing enclosures

Accessories

Locking system



Characteristics

Handle for shape inserts and cylindrical barrels

Easy to change the opening direction of the door, right/left.
Space reserved for enclosure identification, 21 x 27 mm, protected by a label frame.

Material	Handle: polyamide 6 with 30 % fibreglass, RAL 9005 colour
Mechanical protection rating	IK10 according to IEC 62262
Fire resistance	650°C
Supply	Standard handle and fixing elements (insert not included)

References

NSYSFHS1

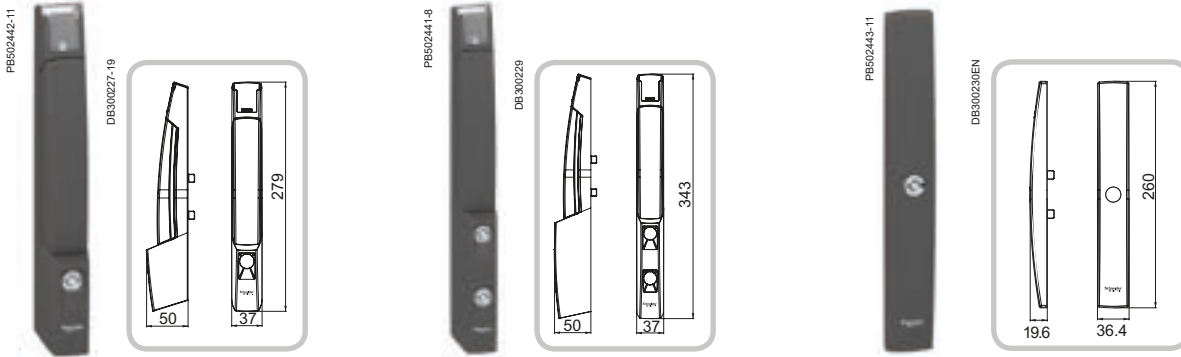
Accessories

	Shape inserts	References	Cylindrical barrels	References
PB500614-19 Shape inserts	6-mm square insert	NSYINS61	405E key lock	NSYIN405E1
	Female 6-mm square insert	NSYINS6G1	421E key lock	NSYIN421E1
	7-mm square insert	NSYINS71	455 key lock	NSYIN4551
	8-mm square insert	NSYINS81	1242E key lock	NSYIN1242E1
	Female 8-mm square insert	NSYINS8G1	1332E key lock	NSYIN1332E1
	8-mm square insert with slot	NSYINS8H1	2124E key lock	NSYIN2124E1
	6.5-mm triangular insert	NSYINT61	2131A key lock	NSYIN2131A1
	7-mm triangular insert	NSYINT71	2132A key lock	NSYIN2132A1
	8-mm triangular insert	NSYINT81	2331A key lock	NSYIN2331A1
	9-mm triangular insert	NSYINT91	2433A key lock	NSYIN2433A1
PB500615-12 Push button	10-mm triangular insert	NSYINT101	2452E key lock	NSYIN2452E1
	10-mm keyless hexagonal insert	NSYINH31	3113A key lock	NSYIN3113A1
	3-mm double-bar insert	NSYINDB31	3122E key lock	NSYIN3122E1
	5-mm double-bar insert	NSYINDB51	3123A key lock	NSYIN3123A1
	Daimler Benz insert	NSYINBENZ1	3131A1 key lock	NSYIN3131A1
	Fiat insert	NSYINFIAT1	3133A key lock	NSYIN3133A1
	Keyless USA slot insert	NSYINUSA1	3422E key lock	NSYIN3422E1
	Keyless 2 x 4 slot insert	NSYIN241	3432E key lock	NSYIN3432E1
	Crown insert	NSYINCW1	6101 key lock	NSYIN6101
	PB500616-18 Cylindrical barrels	Push button	Reference	EDF 1300 key lock
Push button		NSYINPULS1	EDF 1400 key lock	NSYINF1401
			Michelin 8079 keyless lock	NSYINICHEL8791
			Michelin 8133 keyless lock	NSYINICHEL8131
			Michelin 8376 keyless lock	NSYINICHEL8371
			E1 keyless lock	NSYINE11

Steel floor-standing enclosures

Accessories

Locking system



Handles for insert types DIN, KABA, ASSA

Insert handle

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. Easy to change the opening direction of the door, right/left. Space reserved for enclosure identification, 21 x 27 mm, protected by a label frame.

Double-insert handle

The double insert handle can perform the "AND" and "OR" 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.
 Easy to change the opening direction of the door, right/left. Space reserved for enclosure identification, 21 x 27 mm, protected by a label frame. To install shape inserts or cylindrical barrels, it is necessary to add adapter ref. NSYLADP.

Flat escutcheon lock

Optional flat escutcheon lock. Replaces the handle lock. Easy to change the opening direction of the door, right/left. Possibility of changing the turning direction of the insert.

Handle: polyamide 6 with 30 % fibreglass, RAL 9005 colour

IK10 according to IEC 62262

650°C

One handle for DIN, KABA and ASSA inserts and fixing elements (insert not included)

Polyamide 6 with 30 % fibreglass, RAL 9005 black

IK10 according to IEC 62262

650°C

Flat lock, shape insert, key and fixing elements

NSYSFHD2

NSYSFHD3

-

Lock system: DIN, KABA and ASSA

PB500617-9



Adapter for DIN cylinder

References

NSYINDIN2

PB500618-16



Adapter for KABA cylinder (1)

NSYINKBA2

Adapter for ASSA cylinder

NSYINASSA2

1242E key lock

NSYIN1242E2

Reinforced key lock

NSYINKR2

JIS key lock

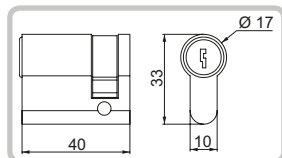
NSYINKJIS2

FAC key lock

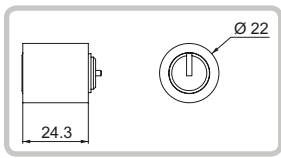
NSYINKFAC2

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

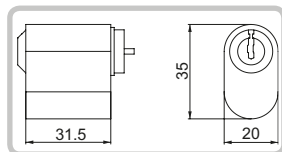
DB300228EN-35



Insert dimensions for DIN adapters.



Insert dimensions for KABA adapters.



Insert dimensions for ASSA adapters.

PB500620-9



Adapter for shape inserts and cylindrical barrels

Plastic adapter for installing shape inserts and cylindrical barrels in handle lock types DIN, KABA, ASSA. See shape inserts and cylindrical barrels. See insert types DIN, KABA, ASSA. Supply: 1 unit.

References

NSYLADP

Models



Flat lock + screwdriver slot, 2-mm groove

References

NSYSFLOCK24



Flat lock + 8-mm triangular insert

NSYSFLOCKT8



Flat lock + 7-mm triangular insert

NSYSFLOCKT7



Flat lock + 6.5-mm triangular insert

NSYSFLOCKT6



Flat lock + 8-mm female square insert

NSYSFLOCKSG8



Flat lock + 8-mm square insert

NSYSFLOCKS8



Flat lock + 7-mm square insert

NSYSFLOCKS7



Flat lock + 6-mm square insert

NSYSFLOCKS6



Flat lock + 5-mm double-bar insert

NSYSFLOCKDB5

Stainless-steel wall-mounting enclosures

Stainless-steel wall-mounting enclosures

Contents

PB60075-42



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Stainless-steel wall-mounting enclosures

Introduction

PE501229.eps



What is stainless steel?

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

PE501230



Choosing a stainless steel grade

AISI 304L 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.

PE501231



AISI 316L 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.

Stainless-steel wall-mounting enclosures

Introduction

The finish

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, $Ra \leq 0.8 \mu\text{m}$.



> 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 ($Ra \approx 0.8 \mu\text{m}$).
- 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.



> 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.



Stainless-steel wall-mounting enclosures

Introduction

➤ 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.

PB500075-75



PB501225-31



Finishes

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

PB501238



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.

PB501240-60



Sealing

- Protection rating against dust and water IP66 (1 door) or IP55 (2 doors) according to IEC 60529.
- Polyurethane gasket.
- Gutter-shaped front profile.
- Three closure points for the double door.

PB501241



Robustness and durability

- Resistance to external mechanical impacts:
 - IK10: plain door,
 - IK08: glazed door.
- Door reinforcement frame or profile.
- Stainless-steel hinges.

PB502379-16



Convenience and time saving

- 304L 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.

This range can be configured according to your needs

4 different services available:



Assemble to order



Mounting of standard accessories



Painting

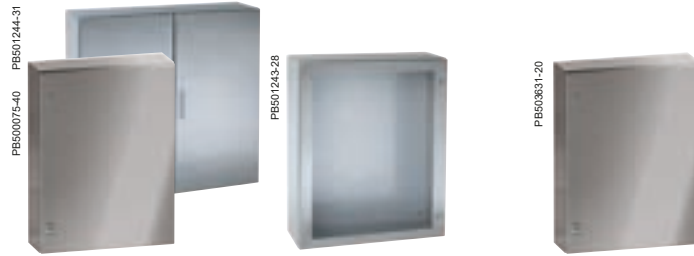


Machining

See page 496 for details or consult our web site www.se.com

Stainless-steel wall-mounting enclosures

Characteristics



Characteristics	304L stainless-steel		316L stainless-steel				
	Enclosure with plain door.	Enclosure with glazed door, Securit® glass, 4 mm thick.	Enclosure with plain door.				
Material	AISI 304L		AISI 316L				
Finish	Scotch-Brite® brushed						
Thickness	10/10° - 15/10° mm						
Ingress protection rating	IP66 (1 door) or IP55 (2 doors) according to IEC 60529						
Mechanical protection rating	IK10 according to IEC 62262	IK08 according to IEC 62262	IK10 according to IEC 62262				
Standards & certifications	See technical guides page 582						
Installation	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						
Other characteristics	<ul style="list-style-type: none"> ■ 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° ■ Maximum load on the door: 50 kg/m² ■ 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 						
External dimensions (mm)							
Height	Width	Depth	No. of locks	No. of doors	References		
					Plain door	Glazed door**	Plain door
300	200	150	1	1	NSYS3X3215	-	NSYS3X3215H
		250	1	1	NSYS3X302515	-	NSYS3X302515H
	300	1	1	NSYS3X3315	-	NSYS3X3315H	
400	300	150	1	1	NSYS3X4315	-	NSYS3X4315H
		200	1	1	NSYS3X4320	NSYS3X4320T	NSYS3X4320H
	400	1	1	NSYS3X4420	-	NSYS3X4420H	
	600	1	1	NSYS3X4620	-	NSYS3X4620H	
500	400	200	2	1	NSYS3X5420	NSYS3X5420T	NSYS3X5420H
600	400	200	2	1	NSYS3X6420	NSYS3X6420T	NSYS3X6420H
		600	2	1	NSYS3X6625	-	NSYS3X6625H
	1000	300	*	2	NSYS3X601030	-	-
	1200	300	*	2	NSYS3X601230	-	-
700	500	250	2	1	NSYS3X7525	NSYS3X7525T	NSYS3X7525H
800	600	250	2	1	NSYS3X8625	NSYS3X8625T	NSYS3X8625H
		800	2	1	NSYS3X8830	-	NSYS3X8830H
	1000	300	*	2	NSYS3X801030	-	-
	1200	300	*	2	NSYS3X801230	-	-
1000	800	300	2	1	NSYS3X10830	NSYS3X10830T	NSYS3X10830H
		1000	300	*	2	NSYS3X101030	-
1200	800	300	2	1	NSYS3X12830	-	NSYS3X12830H
		1000	300	*	2	NSYS3X121030	-

* Three-point closure system.

** The glazed door has no reinforcement.

Stainless-steel wall-mounting enclosures

Dimensions

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

* Without door reinforcement.

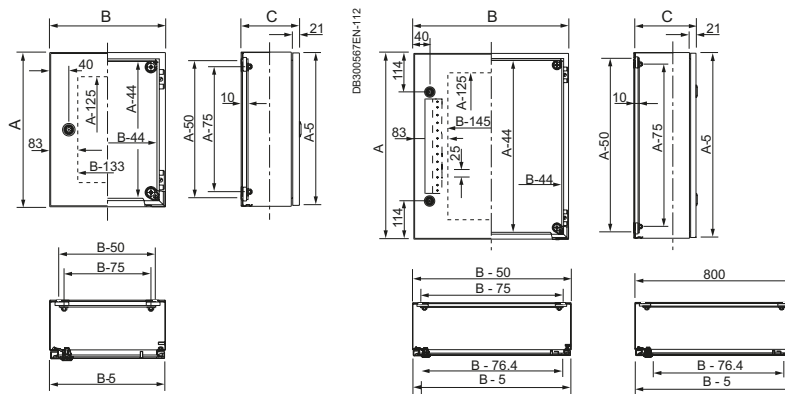


Fig. 1

Fig. 2

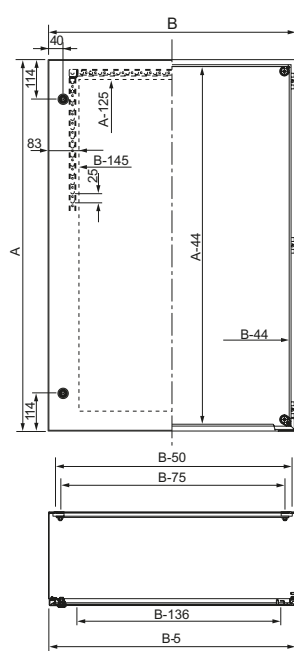


Fig. 3

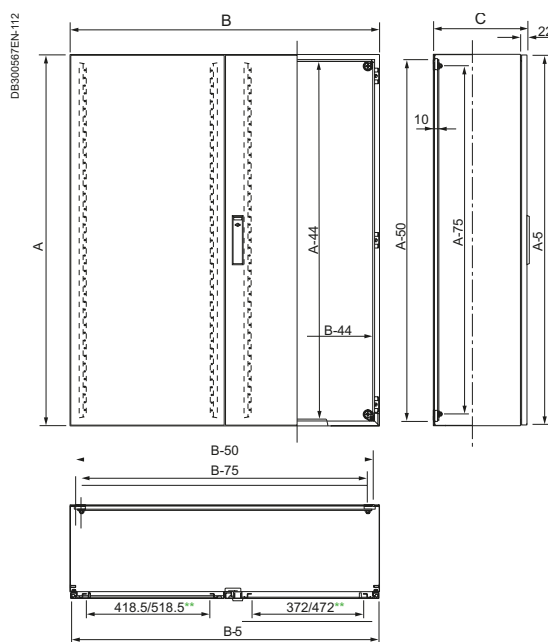
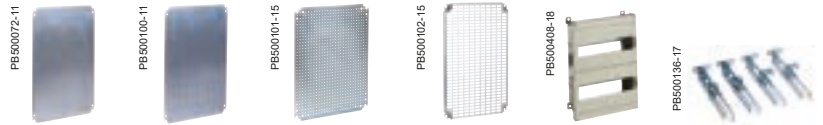


Fig. 4

** For glazed door.

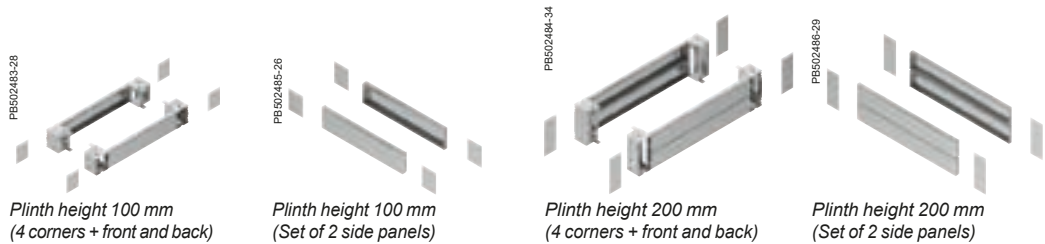
Stainless-steel wall-mounting enclosures

Accessories



External dimensions (mm)			No. of modules	References					
Height	Width	Depth		Mounting plate					Step slides
				Plain	Silkscreened	Microperforated	Telequick	Modular	
300	200	150	-	NSYMM32	-	NSYMF32	NSYMR32	-	-
	250	150	-	NSYMM3025	-	-	NSYMR3025	-	-
	300	150	-	NSYMM33	-	NSYMF33	NSYMR33	-	-
400	300	150	24	NSYMM43	NSYMS43	NSYMF43	NSYMR43	NSYDLM24	-
		200	24	NSYMM43	NSYMS43	NSYMF43	NSYMR43	NSYDLM24	NSYSDCR200
	400	200	-	NSYMM44	NSYMS44	NSYMF44	NSYMR44	-	NSYSDCR200
500	400	200	-	NSYMM64	NSYMS64	NSYMF64	NSYMR46	-	NSYSDCR200
		200	48	NSYMM54	NSYMS54	NSYMF54	NSYMR54	NSYDLM48	NSYSDCR200
	600	200	-	NSYMM64	NSYMS64	NSYMF64	NSYMR64	NSYDLM48P	NSYSDCR200
600	400	200	48	NSYMM64	NSYMS64	NSYMF64	NSYMR64	NSYDLM84P	NSYSDCR200
		600	84	NSYMM66	NSYMS66	NSYMF66	NSYMR66	NSYDLM84P	NSYSDCR250
	1000	300*	-	NSYMM106	-	NSYMF106	NSYMR106	-	NSYSDCR300
700	500	250	66	NSYMM75	NSYMS75	NSYMF75	NSYMR75	NSYDLM66	NSYSDCR250
		250	88	-	-	-	-	NSYDLM88	-
	800	250	84	NSYMM86	NSYMS86	NSYMF86	NSYMR86	NSYDLM84	NSYSDCR250
800	600	250	112	-	-	-	-	NSYDLM112	-
		300	-	NSYMM88	-	NSYMF88	NSYMR88	-	NSYSDCR300
	1000	300*	-	NSYMM108	-	NSYMF108	NSYMR108	-	NSYSDCR300
	1200	300*	-	NSYMM128	-	NSYMF128	NSYMR128	-	NSYSDCR300
1000	800	300	234	NSYMM108	-	NSYMF108	NSYMR108	NSYDLM240	NSYSDCR300
	1000	300	-	NSYMM1010	-	NSYMF1010	NSYMR1010	-	NSYSDCR300
1200	800	300	-	NSYMM128	-	NSYMF128	NSYMR128	-	NSYSDCR300
		300	-	NSYMM1210	-	NSYMF1210	NSYMR1210	-	NSYSDCR300

* Three-point closure system.



Characteristics		Plinths								
Material		Stainless-steel, AISI 304L				Stainless-steel, AISI 316L				
Finish		Scotch-Brite® brushing, to guarantee the durability in application where the contact with the floor increase the risk of corrosion								
Installation		It is necessary to order separately the plinth fixing kit (ref. NSYAPFXWM) composed by fixing elements and drilling jig								
External dimensions (mm)			Plinth height 100 mm		Plinth height 200 mm		Plinth height 100 mm		Plinth height 200 mm	
Height (A)	Width (B)	Depth (C)	Kit (4 corners + front and back)	Set of 2 side panels	Kit (4 corners + front and back)	Set of 2 side panels (x2)	Kit (4 corners + front and back)	Set of 2 side panels	Kit (4 corners + front and back)	Set of 2 side panels (x2)
800	800	300	NSYSFPX8100	NSYSPSX3100	NSYSFPX8200	NSYSPSX3200	NSYSFPX8100H	NSYSPSX3100H	NSYSFPX8200H	NSYSPSX3200H
1000	800	300	NSYSFPX8100	NSYSPSX3100	NSYSFPX8200	NSYSPSX3200	NSYSFPX8100H	NSYSPSX3100H	NSYSFPX8200H	NSYSPSX3200H
	1000	300	NSYSFPX10100	NSYSPSX3100	NSYSFPX10200	NSYSPSX3200	NSYSFPX10100H	NSYSPSX3100H	NSYSFPX10200H	NSYSPSX3200H
1200	800	300	NSYSFPX8100	NSYSPSX3100	NSYSFPX8200	NSYSPSX3200	NSYSFPX8100H	NSYSPSX3100H	NSYSFPX8200H	NSYSPSX3200H
	1000	300	NSYSFPX10100	NSYSPSX3100	NSYSFPX10200	NSYSPSX3200	NSYSFPX10100H	NSYSPSX3100H	NSYSFPX10200H	NSYSPSX3200H



	Cable entries	Stainless steel cable gland with lamellar insert	Adhesive plastic document pocket	Door switch	Lighting	Clip-on nuts	Plain mounting plate screw		
							Self-tapping screw		
							M6 x 16	M5 x 13	M5 x 16
See page	250	252	280	280	276	248	-	-	-
Supply	10	5, 4 or 2	1	1	1	100	100	100	100
References			NSYDPA44	NSYINLCRN	NSYLAMLD5	AF1EA6	NSYS16M6HS	NSYS13M5HS	NSYS16M5HS

Stainless-steel wall-mounting enclosures

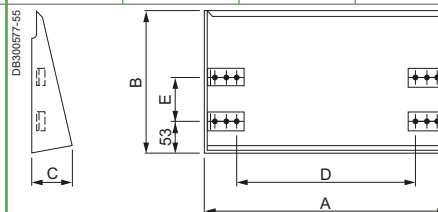
Accessories

PB501238_1



Canopy

Material		304L stainless-steel sheet								
Finish		Scotch-Brite® brushed								
Thickness		15/10* mm								
Installation		Direct fixing to the body of the enclosure								
Supply		Delivered with the fixings required for installation								
No. of locks	No. of doors	For wall-mounting enclosures (mm)			Dimensions (mm)					References
		Height	Width	Depth	A	B	C	D	E	
1	1	300	200	150	205	183	51	120	-	NSYTX2015
			250	150	205	183	51	120	-	NSYTX2515
			300	150	305	183	51	220	-	NSYTX3015
		400	300	150	305	183	51	220	-	NSYTX3015
			300	200	305	233	51	220	70	NSYTX3020
			400	200	405	233	70	320	70	NSYTX4020
2	1	500	400	200	405	233	70	320	70	NSYTX4020
			400	200	405	233	70	320	70	NSYTX4020
			600	250	605	283	70	520	120	NSYTX6025
*	2	600	1000	300	1005	333	70	920	170	NSYTX10030
			1200	300	1205	333	70	1120	120	NSYTX12030
2	1	700	500	250	505	283	70	420	120	NSYTX5025
			800	250	605	283	70	520	120	NSYTX6025
			800	300	805	333	70	720	170	NSYTX8030
*	2	800	1000	300	1005	333	70	920	170	NSYTX10030
			1200	300	1205	333	70	1120	120	NSYTX12030
2	1	1000	800	300	805	333	70	720	170	NSYTX8030
*	2	1000	1000	300	1005	333	70	920	170	NSYTX10030
2	1	1200	800	300	805	333	70	720	170	NSYTX8030
*	2	1200	1000	300	1005	333	70	920	170	NSYTX10030



* Three-point locking system.

PB501821-18



Support bracket for enclosure with anti-tilt kit and reinforcement

The support bracket is used when the S3HF enclosure cannot be hung from a wall or a post.
Suitable for outdoor use.
Maxi. enclosure dimensions: 1000 x 800 x 300 mm.
Floor attachment by standard M12 fastenings.

Material: acier
Finish: peint
Colour: RAL 7035 grey
Maximum load: 120 kg

Height (mm)	References
1400	NSYOCNS1400
1800	NSYOCNS1800

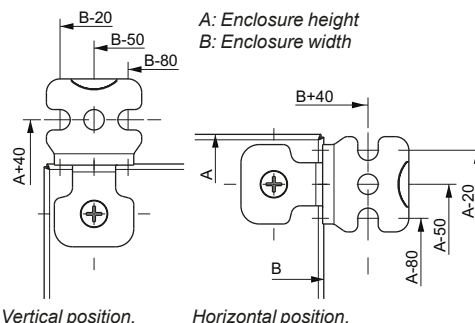
PB502979-16



Wall-fixing lugs

Material	304L stainless-steel	316L stainless-steel
Installation	<ul style="list-style-type: none"> ■ Mounting of the wall-fixing lugs in horizontal or vertical position ■ Fixing from the outside ■ Wall-enclosure separation of 12 mm 	
Maximum load	250 kg	
Supply	Set of four wall-fixing lugs	
References	NSYPFCX	NSYPFC2X

DB300873



Stainless-steel wall-mounting enclosures

Accessories



New



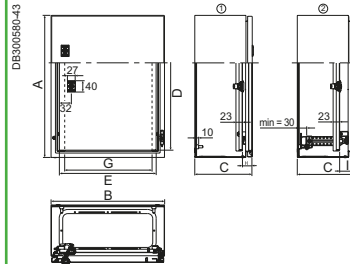
Eyebolts*

Material	Stainless-steel 304
Maximum load	210 kg per enclosure when slinging at 60°
Supply	Reinforcing brackets attached to the rings (these brackets also act as a drilling template)
Reference	
Batch of 2 M8 eyebolts	NSYAELYTCRXG8

* Consult us for availability.

Inner door

Installation	<ul style="list-style-type: none"> 3-mm double-bar lock. Not compatible with door retainer and door switch. Consult us. 																																																																
Maximum load	30 kg/m ²																																																																
Supply	1 inner door																																																																
For wall-mounting enclosures (mm)	<table border="1"> <thead> <tr> <th>Height (A)</th> <th>Width (B)</th> <th>D</th> <th>E</th> <th>G</th> <th>H</th> <th>I (min.)</th> <th>References</th> </tr> </thead> <tbody> <tr> <td>400</td> <td>300</td> <td>349</td> <td>241</td> <td>208</td> <td>32</td> <td>51</td> <td>NSYPIN43</td> </tr> <tr> <td>500</td> <td>400</td> <td>449</td> <td>341</td> <td>308</td> <td>32</td> <td>51</td> <td>NSYPIN54</td> </tr> <tr> <td>600</td> <td>400</td> <td>549</td> <td>341</td> <td>308</td> <td>32</td> <td>51</td> <td>NSYPIN64</td> </tr> <tr> <td>700</td> <td>500</td> <td>649</td> <td>441</td> <td>408</td> <td>32</td> <td>51</td> <td>NSYPIN75</td> </tr> <tr> <td>800</td> <td>600</td> <td>749</td> <td>541</td> <td>508</td> <td>32</td> <td>51</td> <td>NSYPIN86*</td> </tr> <tr> <td>1000</td> <td>800</td> <td>949</td> <td>741</td> <td>708</td> <td>32</td> <td>51</td> <td>NSYPIN108*</td> </tr> <tr> <td>1200</td> <td>800</td> <td>1149</td> <td>741</td> <td>708</td> <td>32</td> <td>52</td> <td>NSYPIN128*</td> </tr> </tbody> </table>	Height (A)	Width (B)	D	E	G	H	I (min.)	References	400	300	349	241	208	32	51	NSYPIN43	500	400	449	341	308	32	51	NSYPIN54	600	400	549	341	308	32	51	NSYPIN64	700	500	649	441	408	32	51	NSYPIN75	800	600	749	541	508	32	51	NSYPIN86*	1000	800	949	741	708	32	51	NSYPIN108*	1200	800	1149	741	708	32	52	NSYPIN128*
Height (A)	Width (B)	D	E	G	H	I (min.)	References																																																										
400	300	349	241	208	32	51	NSYPIN43																																																										
500	400	449	341	308	32	51	NSYPIN54																																																										
600	400	549	341	308	32	51	NSYPIN64																																																										
700	500	649	441	408	32	51	NSYPIN75																																																										
800	600	749	541	508	32	51	NSYPIN86*																																																										
1000	800	949	741	708	32	51	NSYPIN108*																																																										
1200	800	1149	741	708	32	52	NSYPIN128*																																																										



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

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



3 points lock options		
Type	Handle lock	Screw driver insert
Material	100% stainless-steel	Zamak
Protection rating	IP66 according to IEC 60529	
References		
	NSYTSML	NSYTSMLS3D

1 point lock options

Type	Double-bar lock			Insert			Round lock			Handle lock			
	Escutcheon with insert	Triangular	Square	Triangular	Square	Round	Round	Round	Padlock	1242E	405	610	
	3 mm	8 mm	7 mm	6 mm	3 mm (spare)	3 mm	3 mm						
Material	Chrome-plated zamak	304L stainless-steel			Chrome-plated zamak	304L stainless-steel	316 stainless-steel	316 stainless-steel	316 stainless-steel	Chrome-plated zamak	Polyamide		
Protection rating	IP66 according to IEC 60529												
References													
	NSYSTDNCSX	NSYTT8CSX	NSYTC7CSX	NSYTC6CSX	NSYSTDCSX	NSYSTDCXH	NSYSTDCX2H*	NSYCBXHCRN*	NSYCL1242ECSX	NSYCL405CSX	NSYCL610CSX		

* Consult us for availability.

Stainless-steel floor-standing enclosures

Stainless-steel floor-standing enclosures

Contents

PBS00138-26



PBS02731-22



Spacial SMX - SFX Stainless-steel floor-standing enclosures **132**

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Stainless-steel floor-standing enclosures

Introduction

➤ 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.

SMX

PB500138-83



SFX

PB502730-80



PB501232-36



Material and finishes

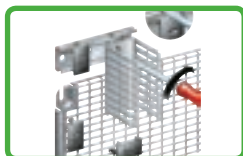
Stainless-steel grade:

- AISI 304L as standard in Spacial SMX and SFX.
- AISI 316L as standard in Spacial SMX and on request in Spacial SFX.

Finishes:

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

PB500058-20



Convenience and time saving

- Complete range of accessories for installation, cable management, etc.
- 316L stainless-steel plinth: easy cable entry.
- 304L or 316L stainless-steel plinth: easy cable entry (Spacial SFX and SMX).
- 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.

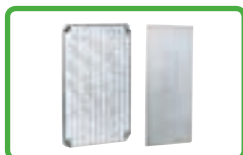
PB500141-90



Sealing

- Protection rating against dust and water IP66 or IP55 depending model according to IEC 60529.
- 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.

PB501255-20



Compatible with the other ranges

- The mounting plates and other accessories of the Spacial SM and SF standards metal offers.

PB501228-85



Hygiene

- The high quality of the standard finish enables very easy maintenance while avoiding contamination.
- The hygienic feet made from 316L stainless-steel, adjustable between 140 mm and 200 mm height, make it easier to clean under the enclosures.

PB501241-40



Robustness and durability

- Resistance to external mechanical impacts: IK10 according to IEC 62262.
- 3 hinges made entirely from stainless-steel.
- Door reinforcement frame.

PB501232-36



Resistance to corrosion

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

This range can be configured according to your needs

4 different services available:



Assemble to order



Mounting of standard accessories



Painting

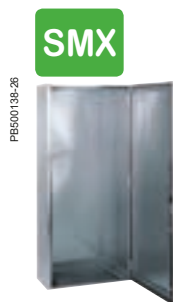


Machining

See page 496 for details or consult our web site www.se.com

Stainless-steel floor-standing enclosures

Characteristics



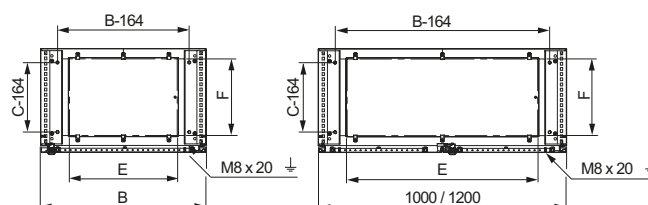
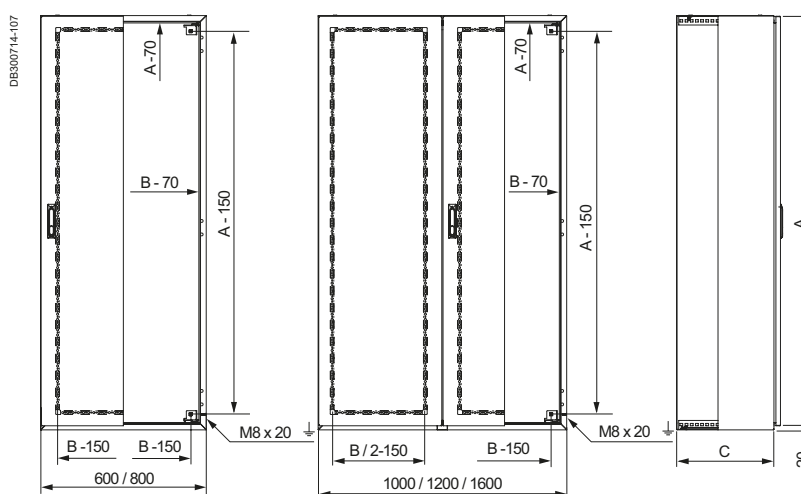
Characteristics				Spacial SMX		Spacial SFX	
				<ul style="list-style-type: none"> Stainless-steel sheet floor-standing enclosure, folded and welded. Single and double front door, with reinforcement frame. 		<ul style="list-style-type: none"> Enclosure made up of a structure, consisting of top and bottom, rear panel and vertical profiles. Single and double front door, with reinforcement frame. 	
Material				<ul style="list-style-type: none"> 304L stainless-steel 316L stainless-steel 		<ul style="list-style-type: none"> 304L stainless-steel 316L version (on request) 	
Finish				<ul style="list-style-type: none"> Scotch-Brite® brushed finish Micro-beaded and painted finishes (on request) 			
Thickness				15/10° mm		Consult us	
Ingress protection rating				IP55 according to IEC 60529		IP66 (1 door) and IP55 (2 doors) according to IEC 60529	
Mechanical protection rating				IK10 according to IEC 62262			
Standards & certifications				See technical guides page 582			
Installation				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). <i>Note: For SMX & SFX is not mandatory the installation of a canopy for outdoor use</i>			
Other characteristics				<ul style="list-style-type: none"> Plain front door. Opening to left or right to 120° with reinforcement frame installed: <ul style="list-style-type: none"> 3 stainless-steel hinges 3-point closure with handle made from painted zamak, 5-mm double bar acceptable load of 50 kg 			
Supply				<ul style="list-style-type: none"> Welded compact body Single-piece cable-gland plate with sealing gasket Welded mounting plate support brackets 		<ul style="list-style-type: none"> Welded rear panel 4 mounting plate-supporting brackets Single-piece cable-gland plate with sealing gasket 	
External dimensions (mm)			Number of front doors	Stainless-steel enclosure		Stainless-steel suitable enclosure	
Height (A)	Width (B)	Depth (C)		304L	316L	304L	
1400	1000	300	2	NSYSMX141030	-	-	
1600	800	400	1	NSYSMX16840	-	-	
1800	600	400	1	NSYSMX18640	-	NSYSFX18640	
	800	400	1	NSYSMX18840	NSYSMX18840H	NSYSFX18840	
	1200	400	2	NSYSMX181240	NSYSMX181240H	NSYSFX181240	
	1600	400	2	NSYSMX181640	NSYSMX181640H	-	
2000	600	500	1	-	-	NSYSFX20650	
	800	400	1	-	-	NSYSFX20840	
	800	500	1	NSYSMX20850	-	-	
	800	600	1	-	-	NSYSFX20860	
	1000	400	2	NSYSMX201040	NSYSMX201040H	-	
	1000	600	2	-	-	NSYSFX201060	
	1200	500	2	NSYSMX201250	NSYSMX201250H	-	
	1200	600	2	-	-	NSYSFX201260	
1600	600	2	NSYSMX201660	NSYSMX201660H	-		

Stainless-steel floor-standing enclosures

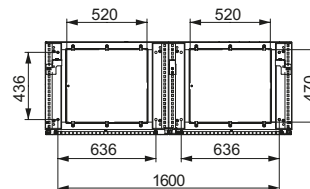
Dimensions

SMX

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



Enclosure width of 1000 and 1200 mm.



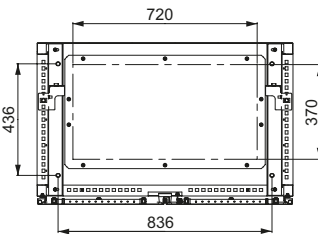
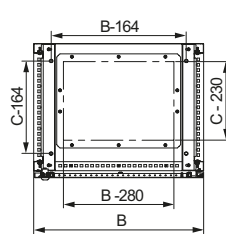
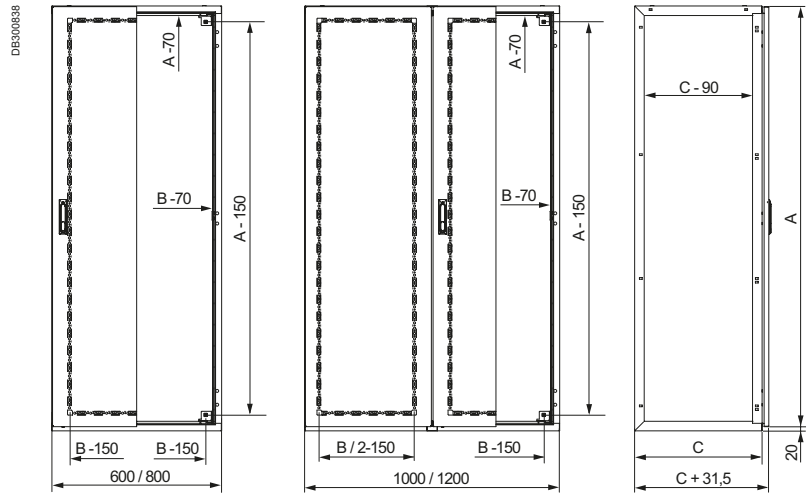
Enclosure width of 1600 mm.

Stainless-steel floor-standing enclosures

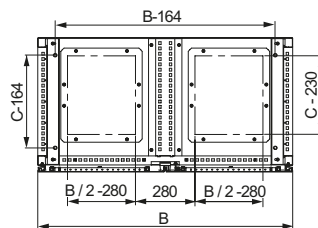
Dimensions



External dimensions (mm)			No. of front doors	No. of cable gland plates
Height (A)	Width (B)	Depth (C)		
1800	600	400	1	1
	800	400	1	1
	1200	400	2	2
2000	600	500	1	1
	800	400	1	1
	800	600	1	1
	1000	600	2	1
	1200	600	2	2



Enclosure width 1000.



Enclosure width 1200 mm.

Stainless-steel floor-standing enclosures

Specific accessories

SMX

PB602483-28



Plinth height 100 mm
(4 corners + front and back)

PB602485-26



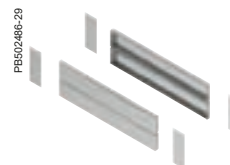
Plinth height 100 mm
(Set of 2 side panels)

PB602484-34



Plinth height 200 mm
(4 corners + front and back)

PB602486-29



Plinth height 200 mm
(Set of 2 side panels)

Characteristics		Stainless-steel plinths								
Material		Stainless-steel, AISI 304L				Stainless-steel, AISI 316L				
Finish		Scotch-Brite® brushing, to guarantee the durability in application where the contact with the floor increase the risk of corrosion								
Installation		Mounting in the holes for fixing the enclosures to the floor								
External dimensions (mm)		Plinth height 100 mm		Plinth height 200 mm		Plinth height 100 mm		Plinth height 200 mm		
Height (A)	Width (B)	Depth (C)	Kit (4 corners + front and back)	Set of 2 side panels	Kit (4 corners + front and back)	Set of 2 side panels (x2)	Kit (4 corners + front and back)	Set of 2 side panels	Kit (4 corners + front and back)	Set of 2 side panels (x2)
1400	1000	300	NSYSPFX10100	NSYSPSX3100	NSYSPFX10200	NSYSPSX3200	NSYSPFX10100H	NSYSPSX3100H	NSYSPFX10200H	NSYSPSX3200H
1600	800	400	NSYSPFX8100	NSYSPSX4100	NSYSPFX8200	NSYSPSX4200	NSYSPFX8100H	NSYSPSX4100H	NSYSPFX8200H	NSYSPSX4200H
1800	600	400	NSYSPFX6100	NSYSPSX4100	NSYSPFX6200	NSYSPSX4200	-	NSYSPSX4100H	-	NSYSPSX4200H
	800	400	NSYSPFX8100	NSYSPSX4100	NSYSPFX8200	NSYSPSX4200	NSYSPFX8100H	NSYSPSX4100H	NSYSPFX8200H	NSYSPSX4200H
	1200	400	NSYSPFX12100	NSYSPSX4100	NSYSPFX12200	NSYSPSX4200	NSYSPFX12100H	NSYSPSX4100H	NSYSPFX12200H	NSYSPSX4200H
2000	1600	400	NSYSPFX16100	NSYSPSX4100	NSYSPFX16200	NSYSPSX4200	NSYSPFX16100H	NSYSPSX4100H	NSYSPFX16200H	NSYSPSX4200H
	600	500	NSYSPFX6100	NSYSPSX5100	NSYSPFX6200	NSYSPSX5200	-	NSYSPSX5100H	-	NSYSPSX5200H
	800	400	NSYSPFX8100	NSYSPSX4100	NSYSPFX8200	NSYSPSX4200	NSYSPFX8100H	NSYSPSX4100H	NSYSPFX8200H	NSYSPSX4200H
	800	500	NSYSPFX8100	NSYSPSX5100	NSYSPFX8200	NSYSPSX5200	NSYSPFX8100H	NSYSPSX5100H	NSYSPFX8200H	NSYSPSX5200H
	800	600	NSYSPFX8100	NSYSPSX6100	NSYSPFX8200	NSYSPSX6200	NSYSPFX8100H	NSYSPSX6100H	NSYSPFX8200H	NSYSPSX6200H
	1000	400	NSYSPFX10100	NSYSPSX4100	NSYSPFX10200	NSYSPSX4200	NSYSPFX10100H	NSYSPSX4100H	NSYSPFX10200H	NSYSPSX4200H
	1000	600	NSYSPFX10100	NSYSPSX6100	NSYSPFX10200	NSYSPSX6200	NSYSPFX10100H	NSYSPSX6100H	NSYSPFX10200H	NSYSPSX6200H
1200	500	NSYSPFX12100	NSYSPSX5100	NSYSPFX12200	NSYSPSX5200	NSYSPFX12100H	NSYSPSX5100H	NSYSPFX12200H	NSYSPSX5200H	
1200	600	NSYSPFX12100	NSYSPSX6100	NSYSPFX12200	NSYSPSX6200	NSYSPFX12100H	NSYSPSX6100H	NSYSPFX12200H	NSYSPSX6200H	
1600	600	NSYSPFX16100	NSYSPSX6100	NSYSPFX16200	NSYSPSX6200	NSYSPFX16100H	NSYSPSX6100H	NSYSPFX16200H	NSYSPSX6200H	

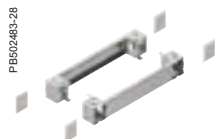


The H200mm stainless-steel ventilated plinths of Outdoor Heavy Duty enclosures (page 387) are compatible with Spacial SMX stainless-steel compact enclosures.

Stainless-steel floor-standing enclosures

Specific accessories

SFX



Plinth height 100 mm
(4 corners + front and back)



Plinth height 100 mm
(Set of 2 side panels)

Characteristics		Stainless-steel plinths				
Material		Stainless-steel, AISI 304L				
Finish		Scotch-Brite® brushing, to guarantee the durability in application where the contact with the floor increase the risk of corrosion				
Installation		Mounting in the holes for fixing the enclosures to the floor Suitable for steel floor-standing enclosures (SF and SM)				
External dimensions (mm)		Plinth height 100 mm		Plinth height 200 mm		
Height (A)	Width (B)	Depth (C)	Kit (4 corners + front and back)	Set of 2 side panels	Kit (4 corners + front and back)	Set of 2 side panels (x2)
1400	1000	300	NSYSPFX10100	-	NSYSPFX10200	-
1600	800	400	NSYSPFX8100	NSYSPSX4100SF	NSYSPFX8200	NSYSPSX4200SF
1800	600	400	NSYSPFX6100	NSYSPSX4100SF	NSYSPFX6200	NSYSPSX4200SF
	800	400	NSYSPFX8100	NSYSPSX4100SF	NSYSPFX8200	NSYSPSX4200SF
	1200	400	NSYSPFX12100	NSYSPSX4100SF	NSYSPFX12200	NSYSPSX4200SF
2000	1600	400	-	NSYSPSX4100SF	-	NSYSPSX4200SF
	600	500	NSYSPFX6100	NSYSPSX5100SF	NSYSPFX6200	NSYSPSX5200SF
	800	400	NSYSPFX8100	NSYSPSX4100SF	NSYSPFX8200	NSYSPSX4200SF
	800	500	NSYSPFX8100	NSYSPSX5100SF	NSYSPFX8200	NSYSPSX5200SF
	800	600	NSYSPFX8100	NSYSPSX6100SF	NSYSPFX8200	NSYSPSX6200SF
	1000	400	NSYSPFX10100	NSYSPSX4100SF	NSYSPFX10200	NSYSPSX4200SF
	1000	600	NSYSPFX10100	NSYSPSX6100SF	NSYSPFX10200	NSYSPSX6200SF
	1200	500	NSYSPFX12100	NSYSPSX5100SF	NSYSPFX12200	NSYSPSX5200SF
	1200	600	NSYSPFX12100	NSYSPSX6100SF	NSYSPFX12200	NSYSPSX6200SF
1600	600	-	NSYSPSX6100SF	-	NSYSPSX6200SF	



The H200mm stainless-steel ventilated plinths of Outdoor Heavy Duty enclosures (page 387) are compatible with Spacial SFX stainless-steel suitable enclosures.

Stainless-steel floor-standing enclosures

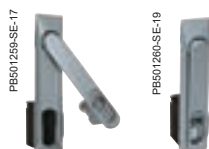
Specific accessories

SMX
PE50123B-30

New
SFX
PE50123B-24

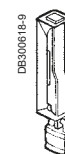

Characteristics			Canopy*	
			Guarantees very high protection of the enclosure when used outdoors.	
Material			<ul style="list-style-type: none"> ■ 304L stainless-steel sheet ■ Other types of stainless-steel, contact us 	
Finish			<ul style="list-style-type: none"> ■ Scotch-Brite® brushed ■ Other finishes, contact us 	
Thickness			15/10* mm	
Installation			It is fixed in the same holes as the eyebolt. Delivered with fixings. Other dimensions and canopy for sets, contact us	
External dimensions (mm)			Top-mounting	
Height (A)	Width (B)	Depth (C)		
1400	1000	300	NSYSCTX10030	-
1600	800	400	NSYSCTX8040	-
1800	600	400	NSYSCTX6040	NSYSCTX6040
	800	400	NSYSCTX8040	NSYSCTX8040
	1200	400	NSYSCTX12040	NSYSCTX12040
	1600	400	NSYSCTX16040	-
2000	600	500	-	NSYSCTX6050
	800	400	-	NSYSCTX8040
	800	500	NSYSCTX8050	-
	800	600	-	NSYSCTX8060
	1000	400	NSYSCTX10040	-
	1000	600	-	NSYSCTX10060
	1200	500	NSYSCTX12050	-
	1200	600	-	NSYSCTX12060
	1600	600	NSYSCTX16060	-

* New canopy for Spacial SMX available in 2019. Till then, use the same canopy than SFX.



The enclosures Spacial SMX & SFX are delivered as standard with retractable handle made from painted zamak with 5mm double bar insert, spare ref. **NSYMCSX**

Transformation of the standard insert by other shape inserts or barrels according the following table:



Characteristics		Locking options						
Type	Shape insert	Padlocking system				Padlocking device.		
	5 mm double-bar insert.	Square insert.		Triangular insert.				
		6 mm	7 mm	8 mm	6.5 mm	8 mm		
Supply	Insert with key	Insert with key			1 pack		1 pack	
References		NSYDDB5ME	NSYTC6ME	NSYTC7ME	NSYTC8ME	NSYTT6ME	NSYTT8ME	NSYBCME

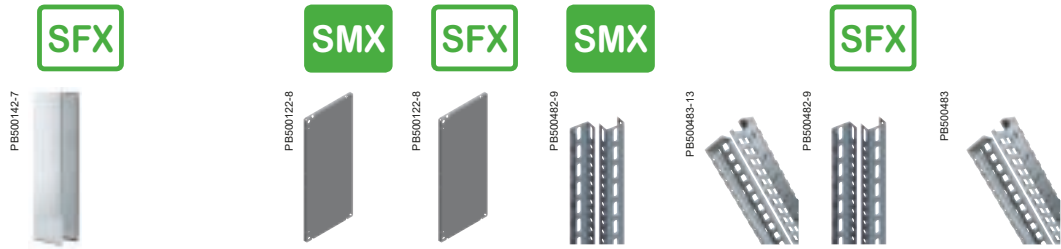
Characteristics		Locking options					
Type	Barrels						
	Reinforced key and barrel.	JIS key and barrel.	Manual.	Barrel and key 405E.	Barrel and key 610E.	Barrel and key 1242E.	
Supply	1 pack	1 pack	1 pack	Barrels with 1 key	Barrels with 1 key	Barrels with 1 key	
References		NSYTLRME	NSYTLJISME	NSYTMME	NSYTCL405ME	NSYTCL610ME	NSYTL1242EME



Door switch	
For Spacial SFX	
See page	280
Supply	1
Reference	NSYDCM20

Stainless-steel floor-standing enclosures

Specific accessories



Characteristics			Side panels	Plain mounting plate		Uprights vertical			
			<ul style="list-style-type: none"> Side panels including a polyurethane sealing gasket. Their special design guarantees the protection of the door gasket. 304L stainless-steel sheet 	-	-	-	-	-	-
Material			-	-	-	-	-	-	-
External dimensions (mm)						Standard	Technical	Standard	Technical
Height (A)	Width (B)	Depth (C)							
1400	1000	300	-	NSYMP1410	-	-	NSYTVR14	-	-
1600	800	400	-	NSYMP168	-	-	NSYTVR16	-	-
1800	600	400	NSY2SPX184	NSYMP186	NSYMP186	NSYVR18	NSYTVR18	NSYVR18	NSYTVR18
	800	400	NSY2SPX184	NSYMP188	NSYMP188	NSYVR18	NSYTVR18	NSYVR18	NSYTVR18
	1200	400	NSY2SPX184	NSYMP1812	NSYMP1812	NSYVR18	NSYTVR18	NSYVR18	NSYTVR18
2000	1600	400	-	NSYMP1816	-	NSYVR18	NSYTVR18	-	-
	600	500	NSY2SPX205	-	NSYMP206	-	-	NSYVR20	NSYTVR20
	800	400	NSY2SPX204	-	NSYMP208	-	-	NSYVR20	NSYTVR20
	800	500	NSY2SPX205	NSYMP208	-	NSYVR20	NSYTVR20	-	-
	800	600	NSY2SPX206	-	NSYMP208	-	-	NSYVR20	NSYTVR20
	1000	400	-	NSYMP2010	-	NSYVR20	NSYTVR20	-	-
	1000	600	NSY2SPX206	-	NSYMP2010	-	-	NSYVR20	NSYTVR20
	1200	500	-	NSYMP2012	-	NSYVR20	NSYTVR20	-	-
1200	600	NSY2SPX206	-	NSYMP2012	-	-	NSYVR20	NSYTVR20	
1600	600	-	NSYMP2016	-	NSYVR20	NSYTVR20	-	-	



Characteristics	Eyebolts*	Lifting bracket	Wall-fixing lugs	Hygienic feet	Coupling kit
	-	For SFX.	For SMX.	Recommended for applications that require special hygiene conditions.	For SFX. Used for joining enclosures side by side.
Material	Stainless-steel 304	Treated steel	304L stainless-steel	316L stainless-steel	<ul style="list-style-type: none"> Flat connectors and brackets: zinc-coated steel (NSYSFBK19) Sealing gasket: EPDM (NSYSFXJG)
Ingress protection rating	-	-	-	-	IP55
Installation	It is fixed using fixing nuts supplied	They are fixed instead of the eyebolts on two suitable enclosures side-by-side, guaranteeing the rigidity of the enclosure when lifted	<ul style="list-style-type: none"> Mounting of the wall-fixing lugs in horizontal or vertical position Fixing from the outside 	Adjustable between 140 mm and 200 mm height	Fixing from the inside of the enclosures
Maximum load	340 kg when slinging at 60°	1300 kg when slinging at 60°	<ul style="list-style-type: none"> Horizontal: 180 kg Vertical: 350 kg 	Per foot: 100 kg	-
Supply	Set of four M12 eyebolts	Set of four lifting brackets	Set of four wall-fixing lugs	Set of 4 adjustable feet	-
References	NSYSMXEB	NSYPUNX	NSYFCMX	NSYPHX200	NSYSFBK19 + NSYSFXJG

* Consult us for availability.

Insulating boxes

Insulating boxes

Contents



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Thalassa PLS Insulating modular boxes **156**



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Insulating industrial boxes

Introduction

> Insulating industrial boxes:

- ABS for conventional applications (IK07) with the usual constraints,
- polycarbonate for enhanced impact resistance (IK08) and for outdoor applications or applications directly exposed to UV,
- polycarbonate certified UL,
- IP66 rating for all ranges,
- Protection against electrical impacts Class II.

PB500271-32



Easy to install

3 methods of fixing the box to its support.

PB500273-72



Easy to use

Only one tool is required: a flat screwdriver.

PB500091



Smart

Fixing studs on the cover.

PB500248E-55



This range can be configured according to your needs

4 different services available:



Assemble
to order



Mounting
of standard
accessories



Painting



Machining

See page 496 for details or consult our web site www.se.com

Insulating industrial boxes

Characteristics



Class II

PB500090-16



PB500091-24



PB500250-15



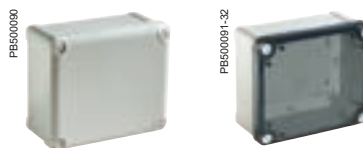
PB500252-22



Characteristics	Universal boxes with IP66	Equipped button boxes, in ABS with IP54	ABS boxes for buttons, to be equipped
	<ul style="list-style-type: none"> ■ Boxes that can be coupled (exactly the same dimensions) with kit ref. 13934. ■ Locks from box size of 116 x 116 x 62 mm: <ul style="list-style-type: none"> <input type="checkbox"/> cover locking by 4 plastic captive screws with coarse thread outside the sealed area, <input type="checkbox"/> plumbable lock. ■ Locks from box size of 138 x 93 x 72 mm: <ul style="list-style-type: none"> <input type="checkbox"/> the standard screws (flat screwdriver) can be replaced with other standardised screws (page 150). ■ 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 152). 		
Material	<ul style="list-style-type: none"> ■ ABS boxes: <ul style="list-style-type: none"> <input type="checkbox"/> glow wire resistance: 650°C according to IEC 60695-2-11 <input type="checkbox"/> usage temperature: -25°C...+60°C <input type="checkbox"/> installation temperature: -15°C...+40°C ■ Polycarbonate boxes: <ul style="list-style-type: none"> <input type="checkbox"/> glow wire resistance: 960°C <input type="checkbox"/> usage temperature: -25°C...+80°C <input type="checkbox"/> installation temperature: -15°C...+60°C 	<ul style="list-style-type: none"> ■ ABS boxes: <ul style="list-style-type: none"> <input type="checkbox"/> glow wire resistance: 650°C according to IEC 60695-2-11 <input type="checkbox"/> usage temperature: -25°C...+60°C <input type="checkbox"/> installation temperature: -15°C...+40°C 	
Colour	<ul style="list-style-type: none"> ■ Body: RAL 7035 grey ■ Cover: RAL 7035 grey or transparent 		
Ingress protection rating	IP66 according to IEC 60529	IP54 according to IEC 60529	-
Mechanical protection rating	<ul style="list-style-type: none"> ■ ABS: IK07 according to IEC 62262 ■ Polycarbonate: IK08 according to IEC 62262 	<ul style="list-style-type: none"> ■ ABS: IK07 according to IEC 62262 	
Standards	IEC 62208		
Certifications (see page 582)	<ul style="list-style-type: none"> ■ IEC 62208 certified by TÜV ■ SEMKO, DEMKO ■ UL 508A: polycarbonate range ■ Product Environmental Profile ■ Class II according to IEC 61140 ■ Polycarbonate range: <ul style="list-style-type: none"> <input type="checkbox"/> NEMA 4.4X according to NEMA 250 <input type="checkbox"/> self-extinguishing: UL 94 V-0 	<ul style="list-style-type: none"> ■ IEC 62208 certified by TÜV ■ SEMKO, DEMKO ■ Product Environmental Profile ■ Class II according to IEC 61140 	
Installation	<p>Fixing the box</p> <ul style="list-style-type: none"> ■ 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) <p>Outdoor installation, only for polycarbonate range: compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). For external use, a canopy should be installed on the upper of the boxes or the boxes should be installed under a shelter to protect them against the different weather conditions and to avoid water stagnation between body and lid.</p> <p>Equipment installation</p> <ul style="list-style-type: none"> ■ 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 153) or other types of supports (card, etc.) ■ Spacers and stand-offs to be installed on the studs, for adjusting the height of the equipment 		
Other characteristics	<ul style="list-style-type: none"> ■ Anti-condensation valves available as an accessory, prevent the build-up of moisture inside the box 		

Insulating industrial boxes

Selection guide



Overall external dimensions			Overall internal dimensions			Body	Cover	Minor pack.	Cover screw	Universal boxes with IP66			
(mm)			(mm)			(mm)	(mm)			ABS IP66 IK07		PC-UL IP66 IK08	
Height	Width	Depth	Height	Width	Depth					Opaque cover	Transparent cover	Opaque cover	Transparent cover
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	-
		94	105	65	85	45	40	3	Metal	NSYTBS1179H	-	-	-
	116	62	105	105	55	45	10	5	Plastic	NSYTBS11116	-	NSYTBP11116	-
		133	105	105	125	45	80	2	Plastic	NSYTBS111113H	-	-	-
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
		105	175	105	100	60	40	2	Plastic	NSYTBS191210H	NSYTBS191210HT	NSYTBP191210H	NSYTBP191210HT
	164	87	175	150	80	60	20	1	Plastic	NSYTBS19168	NSYTBS19168T	NSYTBP19168	NSYTBP19168T
		105	175	150	100	60	40	1	Plastic	NSYTBS191610H	NSYTBS191610HT	NSYTBP191610H	NSYTBP191610HT
241	194	87	225	175	80	60	20	1	Plastic	NSYTBS24198	NSYTBS24198T	NSYTBP24198	NSYTBP24198T
		107	225	175	100	80	20	1	Plastic	NSYTBS241910	NSYTBS241910T	NSYTBP241910	NSYTBP241910T
		107	225	175	100	60	40	1	Plastic	NSYTBS241910H	NSYTBS241910HT	NSYTBP241910H	NSYTBP241910HT
		127	225	175	120	80	40	1	Plastic	NSYTBS241912H	NSYTBS241912HT	NSYTBP241912H	NSYTBP241912HT
291	241	88	275	225	80	60	20	1	Plastic	NSYTBS29248	NSYTBS29248T	NSYTBP29248	NSYTBP29248T
		128	275	225	120	100	20	1	Plastic	NSYTBS292412	NSYTBS292412T	NSYTBP292412	NSYTBP292412T
		128	275	225	120	60	60	1	Plastic	NSYTBS292412H	NSYTBS292412HT	NSYTBP292412H	NSYTBP292412HT
		168	275	225	160	100	60	1	Plastic	NSYTBS292416H	NSYTBS292416HT	NSYTBP292416H	NSYTBP292416HT
341	291	128	325	275	120	100	20	1	Plastic	NSYTBS342912	NSYTBS342912T	NSYTBP342912	NSYTBP342912T
		168	325	275	160	100	60	1	Plastic	NSYTBS342916H	NSYTBS342916HT	NSYTBP342916H	NSYTBP342916HT

Mounting plates



Characteristics					Mounting plates	
					Mounting plates made to adapt to all usage scenarios.	
Material					Galvanised-steel	Insulating polyester plate reinforced with fibreglass, halogen-free: glow wire resistance 750°C according to IEC 60695-2-11.
Thickness					15/10° mm	25/10° mm
Installation					<ul style="list-style-type: none"> ■ Fixing by means of Ø 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 Plates supplied without screws	
Supply					References	
Box (mm)		Dimensions (mm)		Minor pack.		
Height	Width	A	B			
192	164	168.5	140	1	NSYAMP1916TB	NSYAMPA1916TB
241	194	215	168.5	1	NSYAMP2419TB	NSYAMPA2419TB
291	241	265	215	1	NSYAMP2924TB	NSYAMPA2924TB
341	291	315	265	1	NSYAMP3429TB	NSYAMPA3429TB

Insulating industrial boxes

Selection guide



Overall external dimensions (mm)			Overall internal dimensions (mm)			Body (mm)	Cover (mm)	Minor pack.	Boxes equipped with IP54 ABS buttons	ABS button boxes, to be equipped				
Height	Width	Depth	Height	Width	Depth				Function	References	No. of holes	Cover	References	
74	74	83	-	-	-	-	-	1	Emergency switching off	XALEK1702 (1)	-	-	-	
116	74	62	105	65	55	45	10	5	-	-	2	Grey	XALE2	
		62	105	65	55	45	10	5	-	-	3	Grey	XALE3	
		75	-	-	-	-	-	-	1	Start / stop	XALE2141	-	-	-
		75	-	-	-	-	-	-	1	Up / down / stop	XALE3255	-	-	-

(1) Ref. **XALEK1702** houses an emergency switching off palm button with mechanical locking according to standards IEC 60364-5-53 and 60947-5-5.

Button description

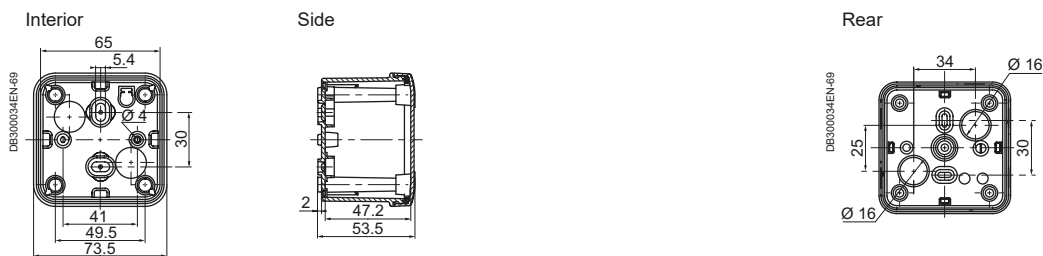
- Emergency switching off function with a red, Ø 40 mm, "turn to unlock" palm button.
- Start / Stop function with 2 push buttons.
- Up / Down / Stop function with 3 push buttons.
- Technical features of the switches:
 - "NC" switch with positive opening manoeuvre according to IEC 60947-5-1 appendix 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
	DE3000033	DE3000033	DE3000033	

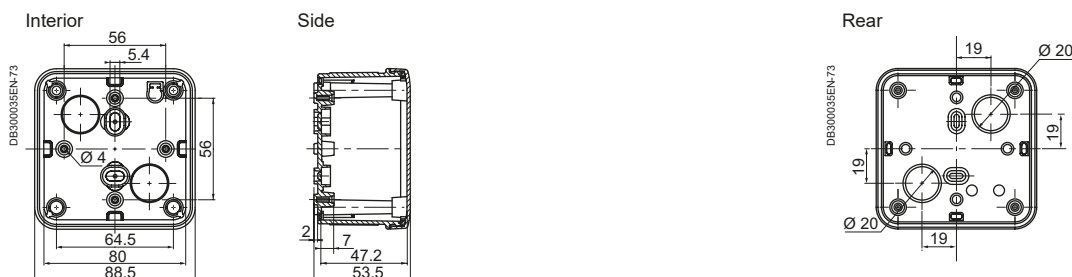
Insulating industrial boxes

Dimensions

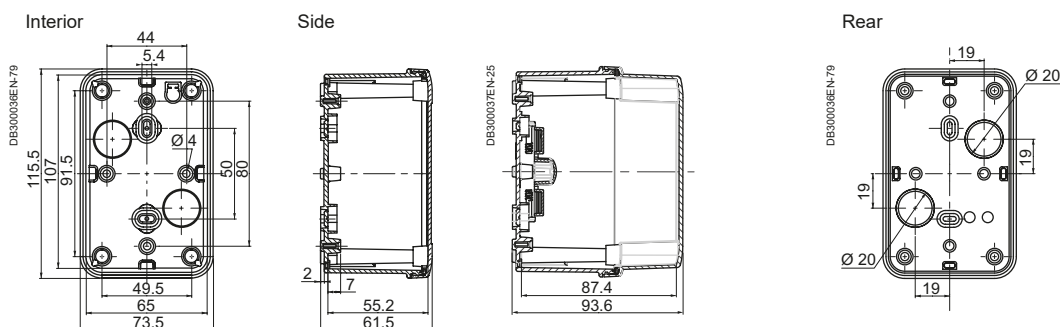
Box of 74 x 74 x 54 mm (external dimensions) NSYTB...775



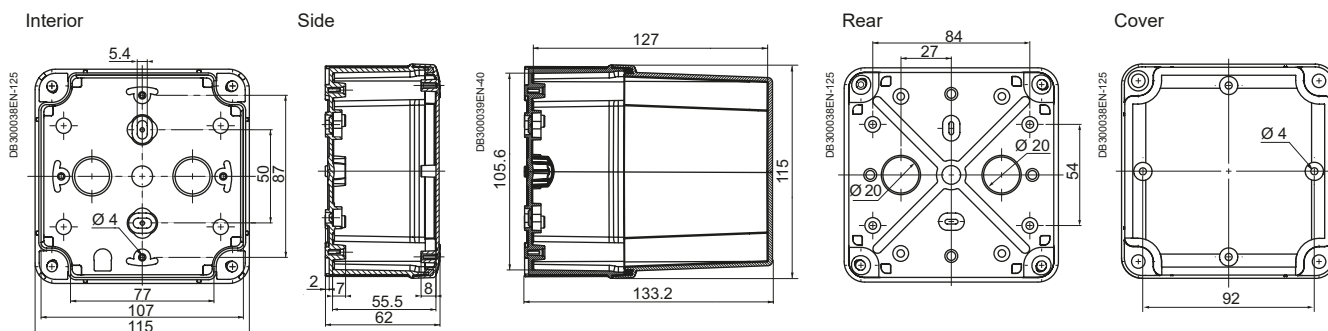
Box of 89 x 89 x 54 mm (external dimensions) NSYTB...885



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



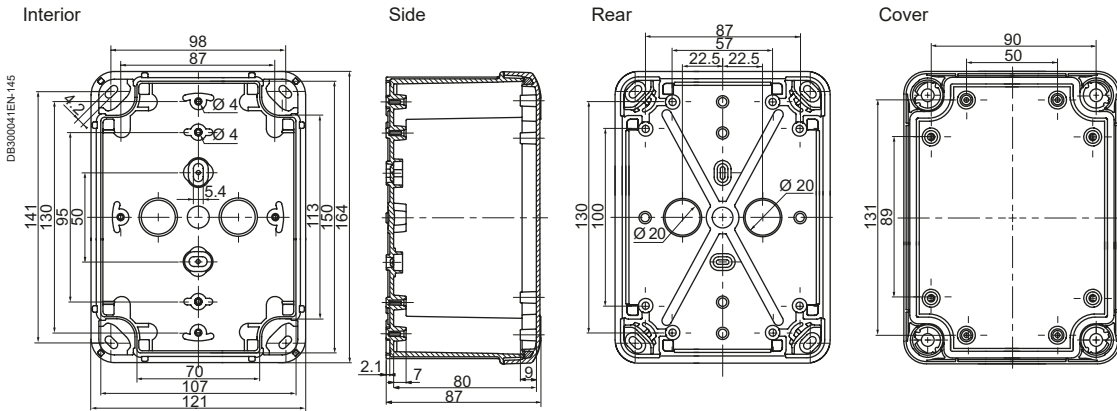
Box of 138 x 93 x 72 mm (external dimensions) NSYTB...1397



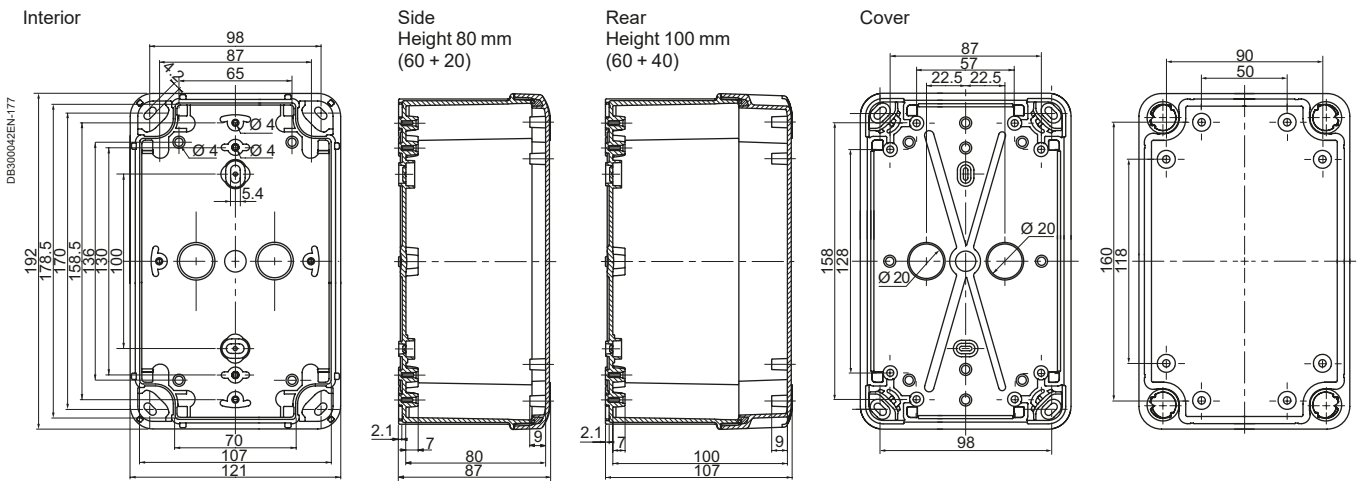
Insulating industrial boxes

Dimensions

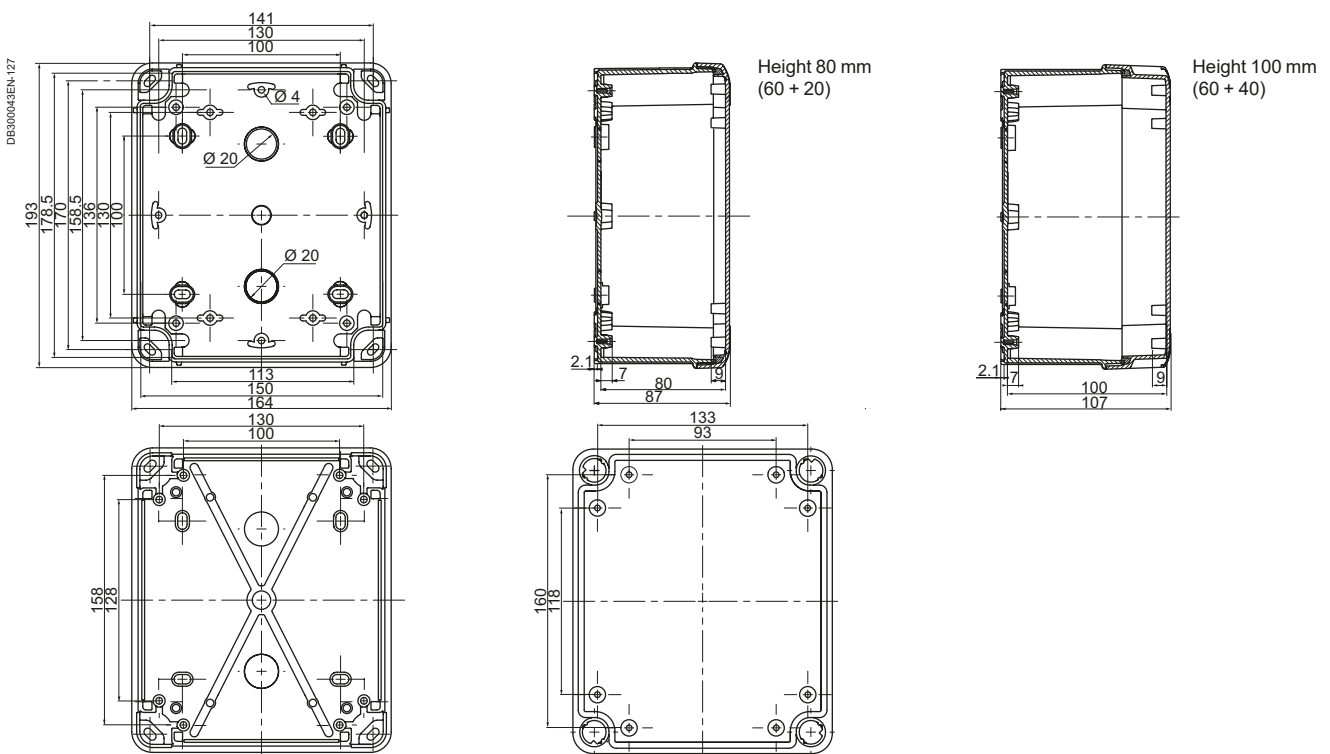
Box of 164 x 121 x 87 mm (external dimensions) NSYTB...16128



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



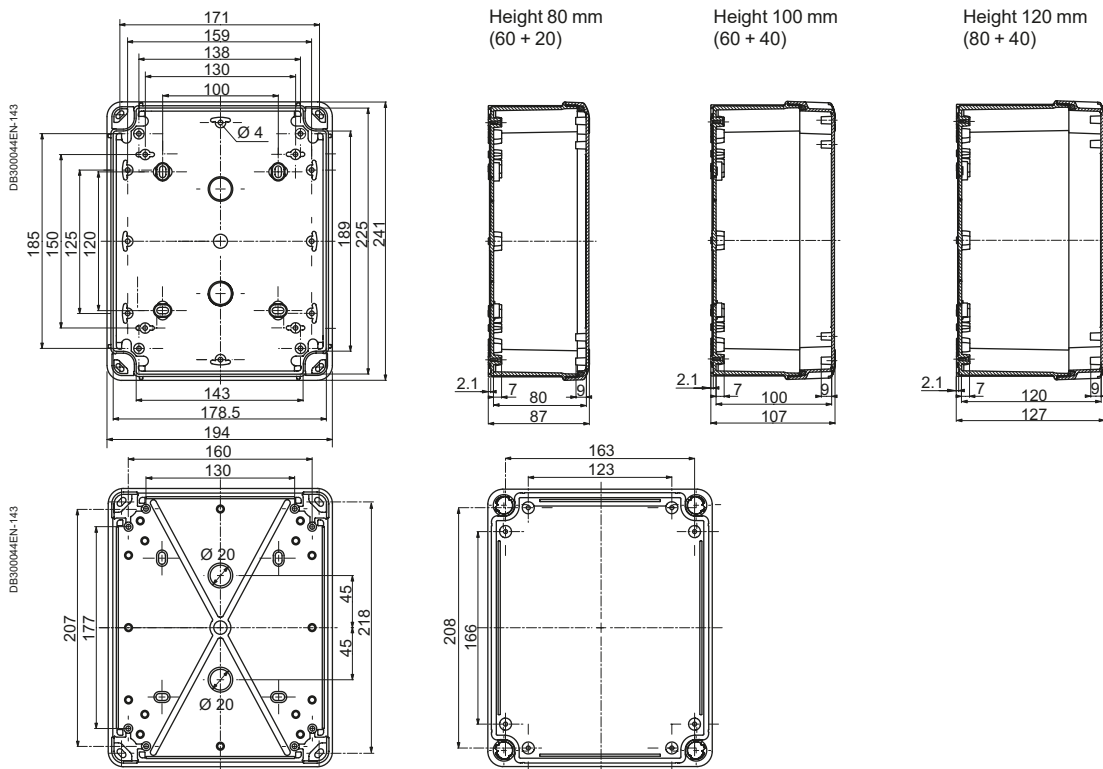
Box of 192 x 164 x 87 or 105 mm (external dimensions) NSYTB...19168 or NSYTB...191610



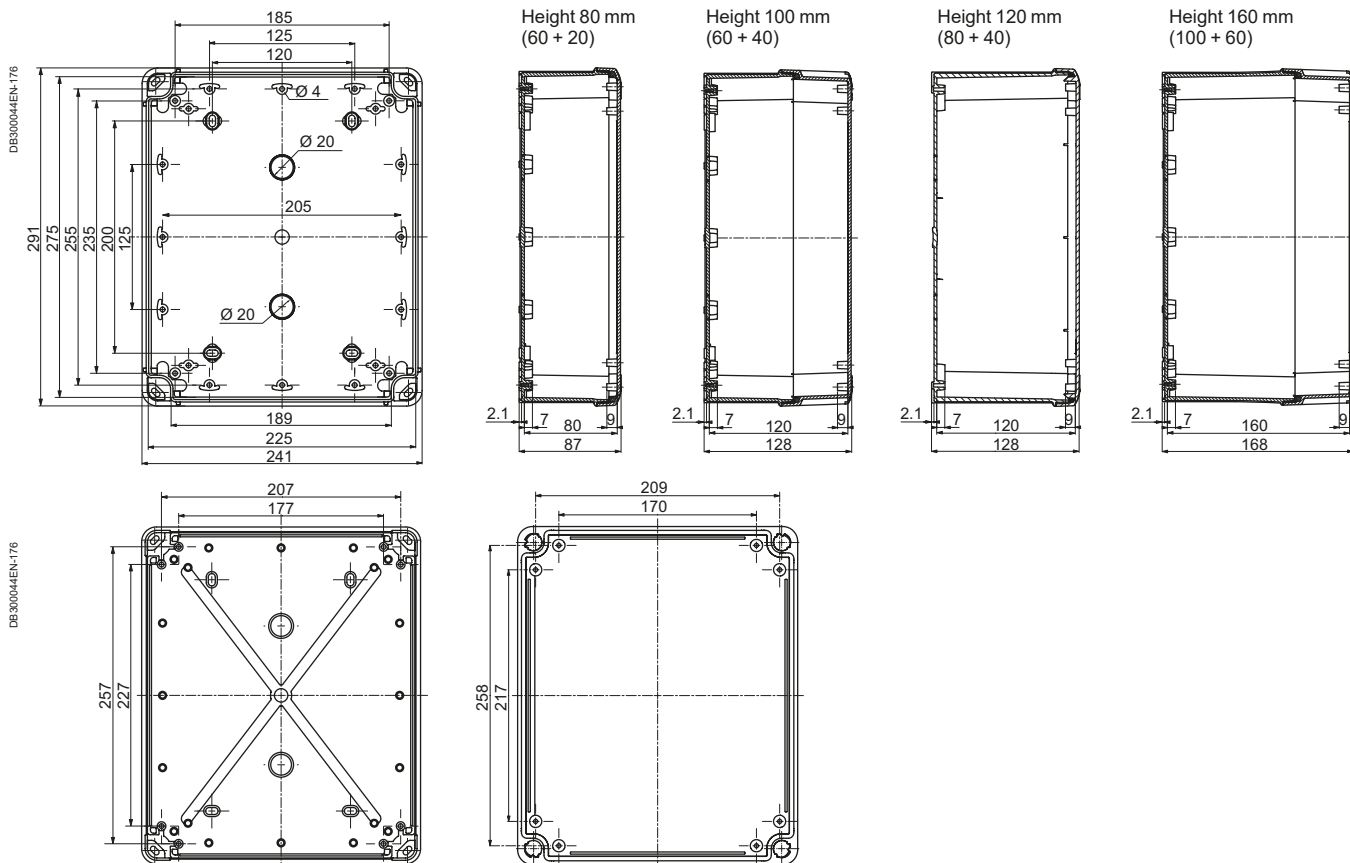
Insulating industrial boxes

Dimensions

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



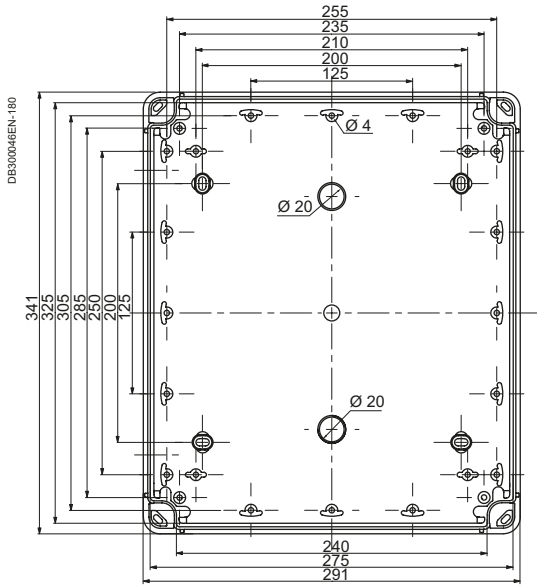
Box of 291 x 241 x 88, 128 or 168 mm (external dimensions) NSYTB...29248, NSYTB...292412 or NSYTB...292416



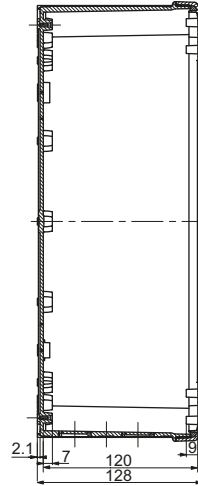
Insulating industrial boxes

Dimensions

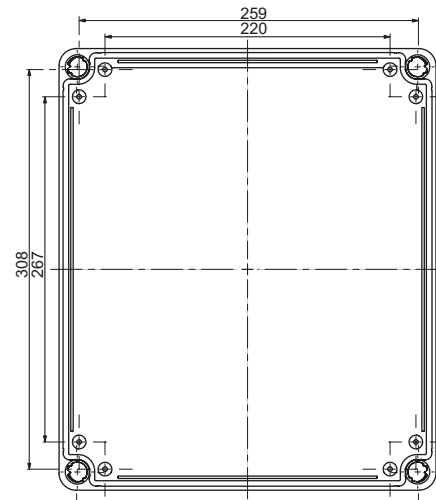
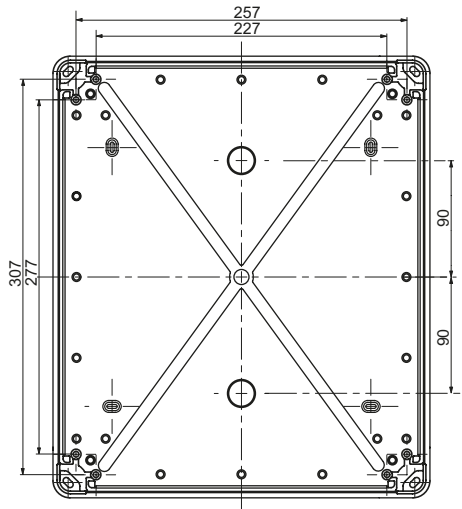
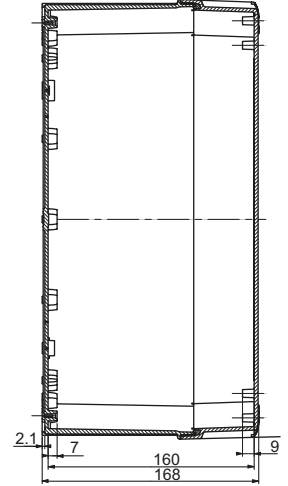
Box of 341 x 291 x 128 or 168 mm (external dimensions) NSYTB...342912 or NSYTB...342916



Height 120 mm
(80 + 40)

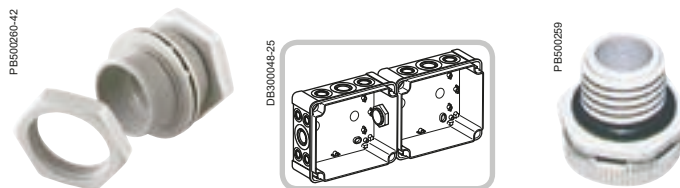


Height 160 mm
(100 + 60)



Insulating industrial boxes

Specific accessories



Characteristics		Coupling kit	Sealed anti-condensation valve		
		The coupling kit allows you to join several boxes with dimensions from 138 x 93 mm.	Controls the pressure to avoid condensation following an internal temperature increase. Applications Protection of equipment for luminaires, industrial control, transportation, pumps, etc.		
Material		Polystyrene, glow wire resistance: 650°C according to IEC 60695-2-11	PA6- UL 94 V2		
Ingress protection rating		IP66 according to IEC 60529	IP68 according to IEC 60529		
Installation		The kit is installed by drilling a hole with Ø 32 mm in the boxes to be coupled	The valve is installed by drilling a hole with Ø 12 mm in the box		
Usage temperature		-	-40...+105°C		
Supply		The kit consists of 2 linking parts, nuts and seals	10 valves, nuts and seals		
Drill Ø	Minor pack.	Reference	Permeability (1)	Pressure difference (2)	References
32 mm	1	13934	-	-	-
M12	10	-	16 litres/h	$\Delta P < 1$ bar	NSYCAG12LPH1
M12	10	-	120 litres/h	$\Delta P < 0.1$ bar	NSYCAG12LPH2

(1) Air flow under $\Delta P = 0.7$ bar.
(2) Condition for IP68.

Cover accessories



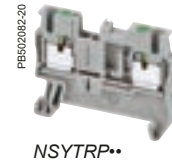
Characteristics		Set of 4 shape screws	Pack of 4 handles		
		<ul style="list-style-type: none"> The Thalassa boxes are delivered as standard with slotted-head screws for flat screwdrivers from 4 to 5.5 mm. With box sizes from 138 x 93 x 72 mm, these screws can be replaced for screws with different standardised 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 152). A single key for opening the boxes as well as the other enclosures of your installation. 	<ul style="list-style-type: none"> 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. 		
Type	Minor pack.	Height of the lid (mm)			
		20	40	60	
Triangle	6.5 mm	1	1	1	1
	8 mm	1	1	1	1
Double bar	3 mm	1	1	1	1
	5 mm	1	1	1	1
Spare standard plastic screw	1	NSYAEDS20TB	NSYAEDS40TB	NSYAEDS60TB	-
Pack of 4 handles	1	-	-	-	NSYAEDKTB

(1) CNOMO.

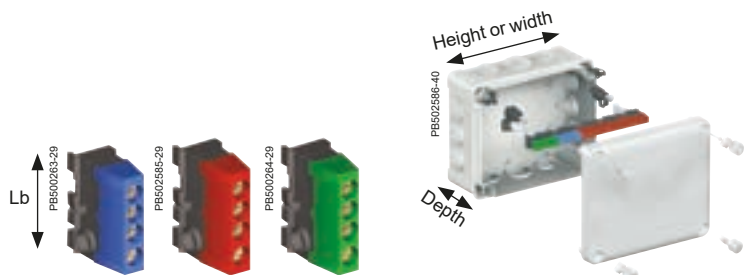
Insulating industrial boxes

Specific accessories

Terminal blocks



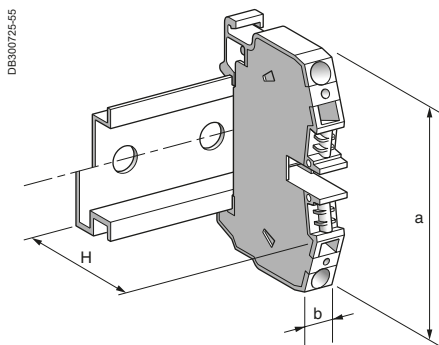
Characteristics		DIN rail terminal blocks								
		<ul style="list-style-type: none"> The new Linergy TR terminal blocks have 3 types of connections: screw, spring or "push-in" and they can be mounted on a DIN rail. Available in grey, blue, orange, red, green, black or white color. 								
Minor pack.	50									
Type	Screw connection				Spring connection				"Push-in" connection	
	H (mm)	W (mm)	D (mm)	References	H (mm)	W (mm)	D (mm)	References	References	
Passthrough, 2.5 mm ² , grey	47.7	5.2	47.5	NSYTRV22	36.5	5.2	48.5	NSYTRR22	NSYTRP22	
Passthrough, 2.5 mm ² , blue	47.7	5.2	47.5	NSYTRV22BL	36.5	5.2	48.5	NSYTRR22BL	NSYTRP22BL	
Protective earth, 2.5 mm ²	47.7	5.2	47.5	NSYTRV22PE	36.5	5.2	48.5	NSYTRR22PE	NSYTRP22PE	
Passthrough, 4 mm ² , grey	47.7	6.2	47.5	NSYTRV44	36.5	6.2	56	NSYTRR42	NSYTRP42	
Passthrough, 4 mm ² , blue	47.7	6.2	47.5	NSYTRV44BL	36.5	6.2	56	NSYTRR42BL	NSYTRP42BL	
Protective earth, 4 mm ²	47.7	6.2	47.5	NSYTRV44PE	36.5	6.2	56	NSYTRR42PE	NSYTRP42PE	



Characteristics		4-hole terminal blocks		
		<ul style="list-style-type: none"> 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. 		
Minor pack.	10		5	
Type	Red (live)	Blue (neutral)	Green (earth)	
4-hole terminal blocks* 2 x 10 ² + 2 x 16 ²	IMT34003	IMT34005	IMT34007	
Earth terminal block** 2 x 25 ²	IMT34009	-	-	

* Terminal block length (Lb): 30 mm.

** The earth terminal snap fits into boxes with dimensions of less than 116 x 116 mm.



Terminal-block support bar				No. of Terminal blocks 2 x 10 ² + 2 x 16 ² 4 holes	Support length Ls (mm)
Height or width	Min. depth	Minor pack.	References		
192	87	1	IMT34000	4	140
241	87	1	IMT34001	6	185
291	128	1	IMT34002	8	235

Discover our complete terminal blocks range in LVYED213001EN.

Insulating industrial boxes

Specific accessories

Hinges

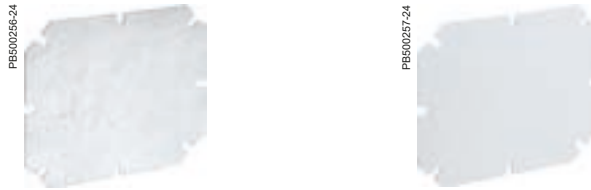


Characteristics	Set of 2 hinges	Set of 4 fixing lugs								
Ingress protection rating	IP66 according to IEC 60529	-								
Installation	<ul style="list-style-type: none"> The hinge does not require any machining and is installed easily even with the box already equipped 	Installation by a single screw at the last moment, with the box closed and equipped								
Maximum load	Hinged cover: 10 kg/m ²	<ul style="list-style-type: none"> Body: 30 kg/m² Cover: 10 kg/m² 								
Minor pack.	1	1								
Supply	The hinges (2 per set) are delivered with the fixings	4 lugs + screws								
	<table border="1"> <thead> <tr> <th>Height of the lid (mm)</th> <th>References</th> </tr> </thead> <tbody> <tr> <td>20</td> <td>NSYAEDH20TB</td> </tr> <tr> <td>40</td> <td>NSYAEDH40TB</td> </tr> </tbody> </table>	Height of the lid (mm)	References	20	NSYAEDH20TB	40	NSYAEDH40TB	<table border="1"> <thead> <tr> <th>Reference</th> </tr> </thead> <tbody> <tr> <td>NSYAEFTB</td> </tr> </tbody> </table>	Reference	NSYAEFTB
Height of the lid (mm)	References									
20	NSYAEDH20TB									
40	NSYAEDH40TB									
Reference										
NSYAEFTB										

Insulating industrial boxes

Specific accessories

Installation accessories

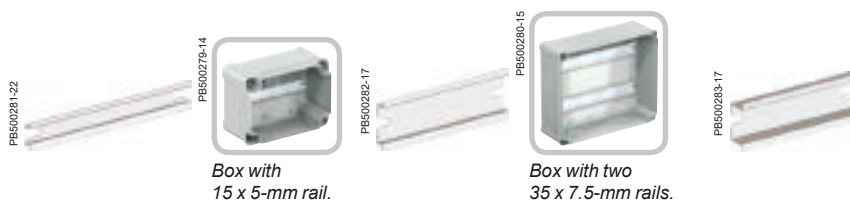


Characteristics					Mounting plates	
					Mounting plates made to adapt to all usage scenarios.	
Material					Galvanised-steel	Insulating polyester plate reinforced with fibreglass, halogen-free: glow wire resistance 750°C according to IEC 60695-2-11.
Thickness					15/10° mm	25/10° mm
Installation					<ul style="list-style-type: none"> ■ Fixing by means of Ø 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 	
Supply					Plates supplied without screws	
Box (mm)		Dimensions (mm)		Minor pack.	References	
Height	Width	A	B			
192	164	168.5	140	1	NSYAMP1916TB	NSYAMPA1916TB
241	194	215	168.5	1	NSYAMP2419TB	NSYAMPA2419TB
291	241	265	215	1	NSYAMP2924TB	NSYAMPA2924TB
341	291	315	265	1	NSYAMP3429TB	NSYAMPA3429TB
Accessories					Pack of 100 screws	
Ø 4 x 10 mm					1	NSYAMFSTB
						NSYAMFSTB

Insulating industrial boxes

Specific accessories

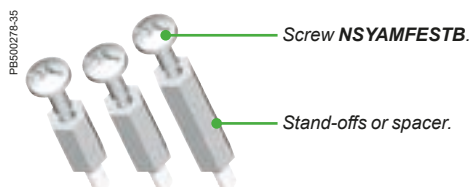
Installation accessories



Box with
15 x 5-mm rail.

Box with two
35 x 7.5-mm rails.

Characteristics	Rails					
	Symmetric DIN rails. ■ 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 .					
Installation	Fixing of the rails with \varnothing 4-mm self-tapping screws, (not included), Pozidrive and slotted head, ref. NSYAMFSTB					
Supply	Supplied without screws (except for the 15 x 5 mm rails)					
For boxes with height or width (mm)	15 x 5 mm		35 x 7.5 mm		35 x 15 mm	
	Minor pack.	References	Minor pack.	References	Minor pack.	References
105	10	NSYAMRD11155TB	10	NSYAMRD11357TB	-	-
150	10	NSYAMRD16155TB	10	NSYAMRD16357TB	-	-
175	10	NSYAMRD19155TB	10	NSYAMRD19357TB	-	-
225	10	NSYAMRD24155TB	10	NSYAMRD24357TB	10	NSYAMRD243515TB
275	10	NSYAMRD29155TB	10	NSYAMRD29357TB	10	NSYAMRD293515TB
325	10	NSYAMRD34155TB	10	NSYAMRD34357TB	10	NSYAMRD343515TB
Accessories	Pack of 100 screws					
\varnothing 4 x 10 mm	NSYAMFSTB					



Characteristics	Stand-offs	Spacers
	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.	Spacer for installation on the stand-offs. M4 thread and tapping.
Material	Steel	Steel
Supply	Set of four M4 self-tapping stand-offs	Set of four M4 spacers
Height (mm)	Minor pack.	References
15	1	NSYAMFET154TB
20	1	NSYAMFET204TB
30	1	NSYAMFET304TB
Accessories	Screw for stand-offs and spacers	
	M4 x 10 mm screw for fixing cards on the spacers and stand-offs. ■ The plate always at the right level. ■ A single \varnothing 4-mm screw for fixing any element.	
Supply	Batch of 50 screws	
	Minor pack.	References
	1	NSYAMFESTB

Insulating industrial boxes

Common accessories

Simple cable entries



Characteristics	Simple-1	Simple-2	Simple-3	Simple-4
	Mixed membrane entries for enclosure thickness 20/10° - 32/10° mm.	PVC adjustable cone-shaped entries for enclosure thickness 30/10° - 32/10° mm.	Quick cable entries for enclosure thickness 10/10° - 40/10° mm (5/10° - 20/10° mm for ref. IMT36179).	PVC adjustable cone-shaped entries for PG tubes or for enclosure thickness 12/10° - 15/10° mm.
Material	SBS	PVC	EPDM plastic	PVC
Colour	RAL 7035 light grey or RAL 9010 white	-	<ul style="list-style-type: none"> ■ Grey cable entries: NCS 5500 ■ Black cable entries: NCS 9000 	-
Cable entry material	Soft membrane		Combined	
Cable glands to be fitted	Not applicable			
Installation possibilities	On cable gland plate or directly on enclosure			
Flexibility of the installation	Low			
Reversibility	Medium			
Ingress protection rating	IP55 according to IEC 60529	IP55 according to IEC 60529	IP67 according to IEC 60529	IP55 according to IEC 60529
Cable retention	Low	Low	Medium	Low
Cable diameter (mm)	From 20 to 40	From 5 to 87	From 12 to 50	From 16 to 44
Cable Installation time	Fast	Fast	Fast	Fast
Quantity of cables to be fitted for a given surface	+	+	+	+
Cable entries for cables with connectors	No	No	No	No
Cut-out dimensions (mm)	Various circular hole diameters according to cable diameter			
External dimensions (mm)	-	From Ø 25 to 98	-	From Ø 25 to 52
Certificates	-	-	-	-
Standard	-	-	-	-
Flame resistance	750°C	-	750°C	-
References*				
See page	266	266	267	267



Characteristics	Simple-5	Synthetic snap in cable gland	Stainless steel cable gland with lamellar insert
	ISO cable gland.	Without thread. Easy assembly and disassembly. Suitable for walls from 0.5 to 4mm thick.	Lamellar technology provides excellent resistance to traction as well as excellent torsional protection. For outdoor use, or for aggressive environments.
Material	PA6 Polyamide, neoprene gasket	PA6 Polyamide, neoprene gasket	Stainless steel AISI 304L or AISI 316L, neoprene gasket
Colour	RAL 7035 grey	RAL 7035, RAL 7001, RAL 9005. Other colours on demand	-
Cable entry material	Combined	Non armoured	Non armoured
Installation possibilities	On cable gland plate or directly on enclosure		
Flexibility of the installation	Low		
Reversibility	Medium		
Ingress protection rating	IP68 according to IEC 60529	IP66	IP68
Cable retention	High	High	High
Cable diameter (mm)	From 12 to 40	From 16 to 40	From 12 tp 40
Cable Installation time	Slow	Slow	Slow
Quantity of cables to be fitted for a given surface	+	+	+
Cable entries for cables with connectors	No	No	No
Thread type	-	Metric EN 60423. Other types are available on demand.	Metric EN 60423
Cut-out dimensions (mm)	Various circular hole diameters according to cable diameter		
External dimensions (mm)	From Ø 15 to 46	From Ø 22 to 46	From Ø 14 to 43
Certificates	Glow wire resistance: 960°C	UL 94 V-2 (except for the size M40)	UL 94 V-2
Standard	Compliance with VDE, UL and CSA	DIN EN 62444, UL 514B, UL 514B§8.26.7	DIN EN 62444, UL 514
Flame resistance	750 °C	-	-
Temperature range	-	-20°C to + 100°C	-20°C to + 100°C
References*			
See page	266	267	267

Spare Parts



Accessories bag

Reference
NSYTBPASBS

* For details, type the reference in the search engine of www.schneider-electric.com.

Insulating modular boxes

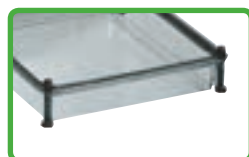
Introduction

➤ **PLS boxes:** polyester body with 5 options of covers (in polycarbonate or polyester).



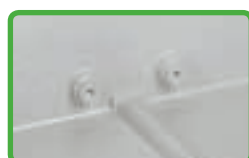
Modular

The dimensions of the sides, multiples of 9 cm, allow the creation of assemblies.



Protection

- IP65*
- Gasket between body and cover.
- IK09.
- Insulation Class II.



Easy

Bosses with inserts, at the rear of the body, for fixing plates or various supports.



* Depending on the model.



Prolonged exposure to UV radiation, wind and rain can cause aesthetics changes in the external surface of the enclosure. Without affecting the technical properties according to IEC 62208. For long exposure applications, it is recommended to use coloured enclosures available through the P&S offer.

This range can be configured according to your needs

4 different services available:



Assemble to order



Mounting of standard accessories



Painting



Machining

See page 496 for details or consult our web site www.se.com

The customized solutions Configured or Specific types use existing ranges from Universal Enclosures standard offer as a base for its development. Depending on the modifications made on the enclosures or accessories, they could affect the certification or declarations of conformity existing in the standard ranges. The certifications and declarations of conformity needed for the solution must be defined early in the process as part of the offer specifications.

Insulating modular boxes

Characteristics



Class II



Characteristics	Complete box	Insulating modular boxes with modular distribution chassis	Modular distribution chassis
	<ul style="list-style-type: none"> ■ Insulating boxes that can be coupled by all their side surfaces, allowing the creation of the greatest variety of modular assemblies. ■ The product references show the two lateral dimensions in cm. ■ 14 sizes of insulating boxes; the sides are multiples of 9 cm. ■ Body made from polyester reinforced with fibreglass, moulded by hot compression, 9 sizes. ■ 3 types of cover available according to the sizes: <ul style="list-style-type: none"> □ 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 body, cover, locking screws and sealing device. ■ The bodies (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. ■ 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: -40 to +80°C. ■ Bosses with M6 inserts for fixing the mounting plate. ■ Halogen-free and compliant with the RoHS directive. 	<p>PLS boxes, polyester body and PC transparent cover with hinges and wing screws for manual opening.</p> <p>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.</p> <ul style="list-style-type: none"> ■ Opening for cable entry, delivered with lock plate, ref. NSYTL27270G. ■ Double-insulating installation. ■ Plastic external hinges, allowing opening to 180°. ■ Removable 36-mm blanking covers (2 modules): 1 per row in the standard offer. 	<p>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.</p>
Colour	RAL 7035 grey (opaque bodies and cover)	-	-
Ingress protection rating	IP65	IP43	IP43
Mechanical protection rating	IK09	IK09	IK09
Certifications (see page 582)	<ul style="list-style-type: none"> ■ 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 ■ UL508A* CAN/CSA-C22.2 - Types 1, 2, 3, 3R, 3S, 4, 4X, 12 and 13 	-	-
Installation	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 and protect against the sun radiation.	Indoor	Indoor
Options	-	The boxes can be equipped with a double-bar lock and handle ref. NSYCL27M , or a lock with key ref. NSYCL27L405 , by specific demand	-
Supply	-	The modular chassis can be ordered separately	-

* **NSYPLS**, **NSYPLSP** and **NSYPLSC** followed by suffixes.

Insulating modular boxes

Selection guide



Dimensions (mm)			Complete box		
Height	Width	Depth	Transparent cover	Opaque cover	Polyester cover
180	270	180	NSYPLS1827G	NSYPLSC1827G	NSYPLSP1827G
270	270	180	NSYPLS2727G	NSYPLSC2727G	NSYPLSP2727G
		230	NSYPLS2727AG	NSYPLSC2727AG	-
	360	180	NSYPLS2736G	NSYPLSC2736G	NSYPLSP2736G
		230	NSYPLS2736AG	NSYPLSC2736AG	-
	540	180	NSYPLS2754G	NSYPLSC2754G	NSYPLSP2754G
		230	NSYPLS2754AG	NSYPLSC2754AG	-
360	270	180	-	-	-
		360	NSYPLS3636G	NSYPLSC3636G	NSYPLSP3636G
	540	180	NSYPLS3654G	NSYPLSC3654G	NSYPLSP3654G
		230	NSYPLS3654AG	NSYPLSC3654AG	-
	720	230	NSYPLS3672AG	NSYPLSC3672AG	-
		-	-	-	-
540	270	180	-	-	-
		540	NSYPLS5454G	NSYPLSC5454G	NSYPLSP5454G
	720	230	NSYPLS5454AG	NSYPLSC5454AG	-
		230	NSYPLS5472AG	NSYPLSC5472AG	-

*Approximate weight.



Dimensions (mm)			Bodies	Low covers: 45 mm		
Height	Width	Depth (body + cover)	135 mm	Transparent	Opaque	Polyester
180	270	180	NSYFPLS1827G	NSYTPLS1827	NSYTPLSC1827G	NSYTPLSP1827G
270	270	180	NSYFPLS2727G	NSYTPLS2727	NSYTPLSC2727G	NSYTPLSP2727G
		230	NSYFPLS2727G	-	-	-
	360	180	NSYFPLS2736G	NSYTPLS2736	NSYTPLSC2736G	NSYTPLSP2736G
		230	NSYFPLS2736G	-	-	-
	540	180	NSYFPLS2754G	NSYTPLS2754	NSYTPLSC2754G	NSYTPLSP2754G
		230	NSYFPLS2754G	-	-	-
360	360	180	NSYFPLS3636G	NSYTPLS3636	NSYTPLSC3636G	NSYTPLSP3636G
		540	NSYFPLS3654G	NSYTPLS3654	NSYTPLSC3654G	NSYTPLSP3654G
	720	230	NSYFPLS3654G	-	-	-
		230	NSYFPLS3672G	-	-	-
540	540	180	NSYFPLS5454G	NSYTPLS5454	NSYTPLSC5454G	NSYTPLSP5454G
		230	NSYFPLS5454G	-	-	-
	720	230	NSYFPLS5472G	-	-	-

Insulating modular boxes

Selection guide



Insulating modular boxes with modular distribution chassis					Modular distribution chassis
No. of 18 mm modules	No. of rows	Weight* (kg)	References	References	
12	1	1.7	NSYPLS1827DLS12G	NSYDLS12	
24	2	2.5	NSYPLS2727DLS24G	NSYDLS24	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
24	2	2.7	NSYPLS3627DLS24G	NSYDLS242	
36	3	2.8	NSYPLS3627DLS36G	NSYDLS36	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
48	4	3.8	NSYPLS5427DLS48G	NSYDLS48	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	



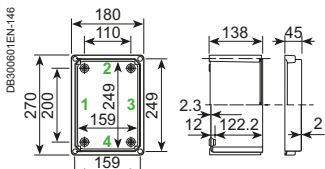
High covers: 95 mm		Metallic mounting plates		Insulating mounting plates	
Transparent	Opaque	Plain	Telequick	Polyester	Bakelite
-	-	NSYPMM1827	NSYPMR1827	NSYPMA1827G	NSYPMB1827
-	-	NSYPMM2727	NSYPMR2727	NSYPMA2727G	NSYPMB2727
NSYTPLS2727A	NSYTPLSC2727AG	-	-	-	-
-	-	NSYPMM2736	NSYPMR2736	NSYPMA2736G	NSYPMB2736
NSYTPLS2736A	NSYTPLSC2736AG	-	-	-	-
-	-	NSYPMM2754	NSYPMR2754	NSYPMA2754G	NSYPMB2754
NSYTPLS2754A	NSYTPLSC2754AG	-	-	-	-
-	-	NSYPMM3636	-	NSYPMA3636G	NSYPMB3636
-	-	NSYPMM3654	NSYPMR3654	NSYPMA3654G	NSYPMB3654
NSYTPLS3654A	NSYTPLSC3654AG	-	-	-	-
NSYTPLS3672A	NSYTPLSC3672AG	NSYPMM3672	NSYPMR3672	NSYPMA3672G	NSYPMB3672
-	-	NSYPMM5454	NSYPMR5454	NSYPMA5454G	NSYPMB5454
NSYTPLS5454A	NSYTPLSC5454AG	-	-	-	-
NSYTPLS5472A	NSYTPLSC5472AG	NSYPMM5472	NSYPMR5472	NSYPMA5472G	NSYPMB5472

Insulating modular boxes

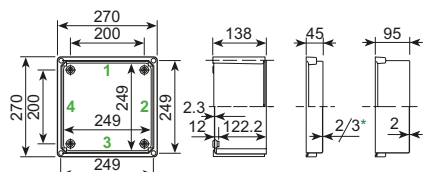
Dimensions

The surfaces are numbered to enable identification of the surfaces to be drilled in the customised offer.

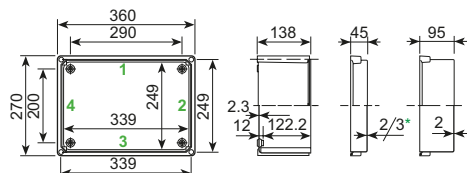
NSYPLS...1827G



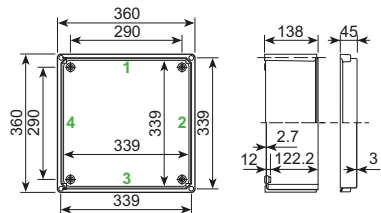
NSYPLS...2727G



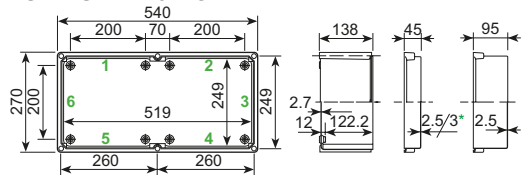
NSYPLS...2736G



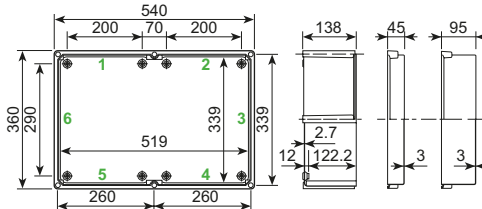
NSYPLS...3636G



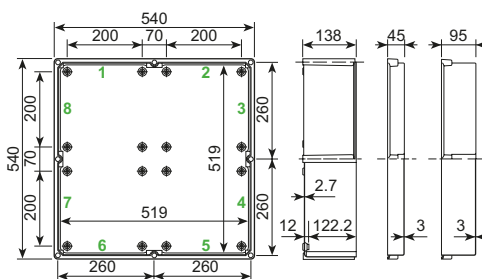
NSYPLS...2754G



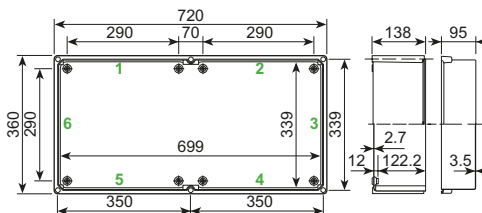
NSYPLS...3654G



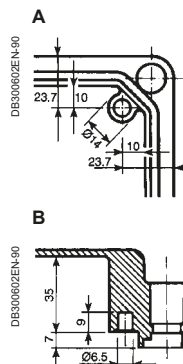
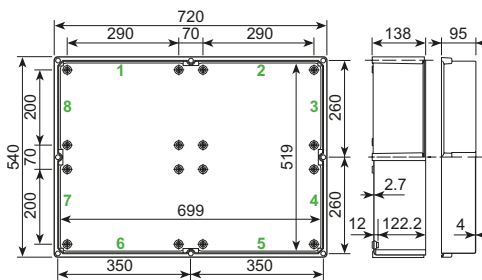
NSYPLS...5454G



NSYPLS...3672G



NSYPLS...5472G

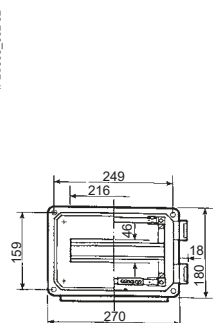


A - B: Internal view of the corners of the polyester covers with bosses for inserts ref. NSYTEX5 for M5 screws.

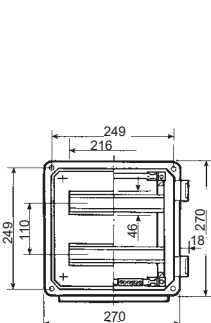
* Thickness of 30/10° mm for the polyester cover.

Insulating modular boxes with modular distribution chassis

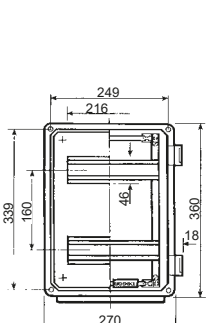
NSYPLS1827DLS12G



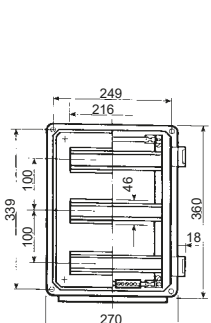
NSYPLS2727DLS24G



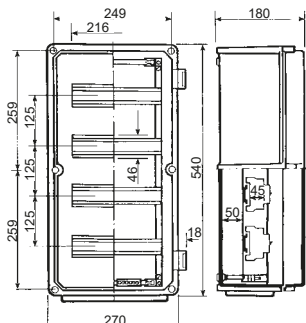
NSYPLS3627DLS24G



NSYPLS3627DLS36G



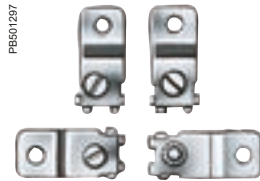
NSYPLS5427DLS48G



Insulating modular boxes

Accessories

Fixing



Characteristics	Wall-fixing lugs		Post-fixing device		Plastic carrying handle
Material	Passivated zinc-coated steel	Stainless-steel	-		Plastic
Ingress protection rating	-		-		IP43
Supply	Set of 4 lugs and fixings		Contains all the elements required for mounting on a post		-
	References		For installation on a surface with dimensions (mm)	References	Reference
	NSYPF27N	NSYPF27X	270 360 540	NSYFSP27270 NSYFSP27360 NSYFSP27540	NSYATM27

Coupling



Characteristics	Coupling frames (3)			Side plates (3)		Box coupling unit piece	
	Use the boxes dimensional drawings to identify what coupling frame you need. Consider the sides and surfaces you will join.			-		For coupling 2, 3 or 4 boxes, with optional wall-mounting.	
Ingress protection rating	<ul style="list-style-type: none"> ■ Frame with full opening: IP65 between enclosures ■ Frame with partial opening: IP44 between enclosures 			IP65		-	
Supply	-			-		To be ordered in multiples of 25	
	References					For coupling (2)	
	For surfaces (mm)	Opening (mm)	Full-opening frame	Partial-opening frame	Side plates (mm)	2 boxes	3 or 4 boxes
	180	110	NSYUM27180	-	-	-	-
	270	200	NSYUM27270	NSYUCC270 (1)	200	NSYTL27270G	-
	360	290	NSYUM27360	NSYUCC360 (1)	290	NSYTL27360G	-
	-	-	-	-	-	NSYPS2C27	NSYPS4C27

(1) References by unit. Order by multiples of 10 units (10, 20, 30, etc.).

(2) M6 x 8 screw with cylindrical head.

(3) Not UL certified

Insulating modular boxes

Accessories

Locking



With slotted head.



With wings.



With plumbable triangular head.



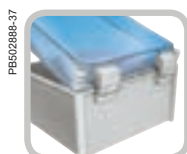
Characteristics		Closing for PLS boxes	Closing locks	Sealing and opening
Options		-	Option of installing a side lock, on the opposite side to where the hinges are installed	-
Ingress protection rating		-	IP43	-
Supply		Set of 4, 6 or 8 screws. The references also include 4 M6 screws for fixing mounting plates and 2 steel sealing accessories	-	-
Name	Tool	References		
Set of 4 slotted screws (1)	Flat-blade screwdriver	NSYTC274	-	-
Set of 6 slotted screws (1)	Flat-blade screwdriver	NSYTC276	-	-
Set of 8 slotted screws (1)	Flat-blade screwdriver	NSYTC278	-	-
Set of 4 wing screws (2)	Manual	NSYTCM274	-	-
Set of 6 wing screws (2)	Manual	NSYTCM276	-	-
Set of 8 wing screws (2)	Manual	NSYTCM278	-	-
Set of 4 triangular screws	◦ NSYLT27	NSYTC274	-	-
Set of 6 triangular screws		NSYTC276	-	-
Set of 8 triangular screws		NSYTC278	-	-
Double-bar side lock and handle	NSYDBP	-	NSYCL27M	-
Side lock with key 405		-	NSYCL27L405	-
Plastic-coated sealing triangle (3)	-	-	-	NSYPPS27
Triangular key for PLS	-	-	-	NSYLT27

(1) Included in the standard references of boxes **NSYPLS●●●**.

(2) Included in the standard references of modular distribution boxes **NSYPLS●●●DLS●●●**.

(3) References by unit. Order by multiples of 10 units (10, 20, 30, etc.).

Other

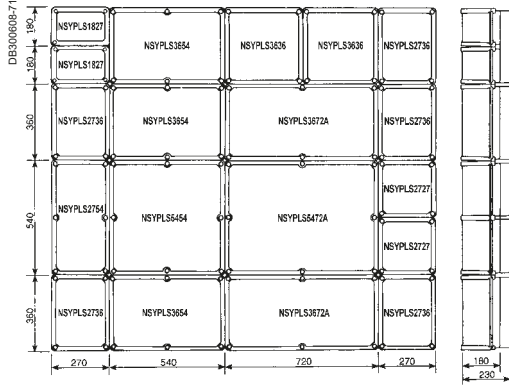


Characteristics	Hinges (1)		Insulators for busbar	
	<ul style="list-style-type: none"> ■ External hinges. ■ To open the door to 180°. 	<ul style="list-style-type: none"> ■ Internal hinges. ■ To open the door to 180°. 	<ul style="list-style-type: none"> ■ For 4 bars of 15 or 20 mm. ■ Utilisation on the 270 mm side. 	<ul style="list-style-type: none"> ■ For 1 bar of 15, 20 or 30 mm.
Material	Plastic	Brass	-	-
Supply	Set of 2 hinges	Set of 2 hinges	-	References by unit. Order by multiples of 5 units (5, 10, 15, etc.)
References	NSYBE27G (1)	NSYBL27	NSYAE25	NSYAS25

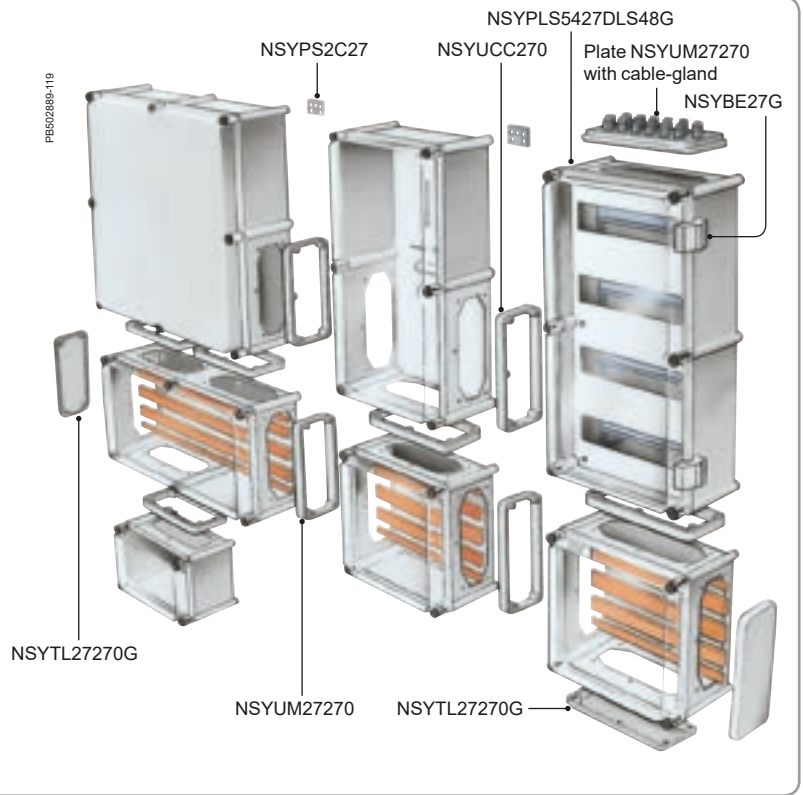
(1) IP degree not guaranteed as it depends on customer process.



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 wall-mounting enclosures

Insulating wall-mounting enclosures

Contents



Thalassa PLM Insulating wall-mounting enclosures



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Specific accessories overview	169
Common accessories overview	170
Specific accessories	171



Associated applicative offers

PHD Polyester Heavy Duty enclosures



380

Insulating wall-mounting enclosures

Introduction

> Monobloc wall-mounting enclosure

- made from polyester reinforced with fibreglass, moulded by hot compression.
- Degree of protection IP66,
- Impact resistance IK10 for the plain doors and surfaces and IK08 for the glazed doors of the polyester versions,
- UL certification and NEMA classification 4x and 13 for the polyester wall-mounting enclosures,
- Total insulation to produce class II units,
- Complies with RoHS and REACH Directives

P1237102-32



Service life

High resistance to corrosion in harsh environments, maintaining its mechanical properties and insulation.

PB501327SE-40



Easy

- Door easily reversible by turning it over.
- Opening to 120° or 180°.
- Easy machining with no corrosion.
- Lightness.
- Polyamide hinge pin, easily removable and captive.

PB001325SE-05



Smart

- Notches for easy fixing of DIN rails.
- Grid pattern on the rear of the door for marking the machining operations.

PB001325SE



Prolonged exposure to UV radiation, wind and rain can cause aesthetics changes in the external surface of the enclosure. Without affecting the technical properties according to IEC 62208. For long exposure applications, it is recommended to use coloured enclosures available through the P&S offer.

This range can be configured according to your needs

4 different services available:



Assemble to order



Mounting of standard accessories



Painting



Machining

See page 496 for details or consult our web site www.se.com

The customized solutions Configured or Specific types use existing ranges from Universal Enclosures standard offer as a base for its development. Depending on the modifications made on the enclosures or accessories, they could affect the certification or declarations of conformity existing in the standard ranges. The certifications and declarations of conformity needed for the solution must be defined early in the process as part of the offer specifications.

Insulating wall-mounting enclosures

Characteristics



PB500144SE-19



PB500146SE-23



PB500148SE-14



PB500147SE-14



PB500285E-14



PB500285E-14

Characteristics	ABS/PC wall-mounting enclosures	Polyester wall-mounting enclosures									
	<ul style="list-style-type: none"> ■ Monobloc wall-mounting enclosure. ■ Version with transparent polycarbonate door. ■ Closes with a 3-mm double-bar lock. ■ Door opening: 180°. 	<ul style="list-style-type: none"> ■ Monobloc wall-mounting enclosure. ■ Version with transparent tempered-glass door. ■ Closes with two 3-mm double-bar locks. ■ Door opening angle: 120°. ■ Grid pattern with a pitch of 50 mm on the back of the door. 	<ul style="list-style-type: none"> ■ Monobloc wall-mounting enclosure. ■ Version with transparent tempered-glass door. ■ Locking device outside the sealed area, guaranteeing the tightness of IP66 over time. ■ Locking system: <ul style="list-style-type: none"> □ 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. ■ Grid pattern with a pitch of 25 mm on the back of the door. 								
Material	ABS/PC	Polyester reinforced with fibreglass, moulded by hot compression									
Temperature range - Gasket	-40°C to +80°C										
Colour	RAL 7035 grey										
Ingress protection rating	IP66 according to IEC 60529										
Mechanical protection rating	<ul style="list-style-type: none"> ■ IK10 plain door ■ IK08 glazed door 										
Certifications (see page 582)	<ul style="list-style-type: none"> ■ IEC 62208 ■ Bureau Veritas Marine 	<ul style="list-style-type: none"> ■ IEC 62208 ■ Marine ■ UL 508A - Nema type: 1, 2, 3, 3R, 3S, 4, 4X, 5, 12 and 13 	<ul style="list-style-type: none"> ■ IEC 62208 ■ Marine 								
Installation	<ul style="list-style-type: none"> ■ Direct fixing of symmetrical rails ref. NSYCS200PLM with plastic nuts ref. NSYTCSPLM, 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 	Fixing of rear accessories on 4 M8 x 18 studs	<ul style="list-style-type: none"> ■ 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 								
External dimensions (mm)	References of wall-mounting enclosures with door										
Height	Width	Depth	Plain (3)	Transparent (4)	Plain (3)	Transparent (4)	Plain (3)	Transparent (4)	Plain (1)	Transparent (1) (4)	
308	255	160	-	-	NSYPLM3025G	NSYPLM3025TG	-	-	-	-	
310	215	160	NSYPLM32G	NSYPLM32TG	-	-	-	-	-	-	
430	330	200	-	-	-	-	NSYPLM43G	NSYPLM43TG	NSYPLM43VG	NSYPLM43TVG	
530	430	200	-	-	-	-	NSYPLM54G	NSYPLM54TG	NSYPLM54VG	NSYPLM54TVG	
647	436	250	-	-	-	-	NSYPLM64G	NSYPLM64TG	NSYPLM64VG	NSYPLM64TVG	
747	536	300	-	-	-	-	NSYPLM75G	NSYPLM75TG	NSYPLM75VG	NSYPLM75TVG	
847	636	300	-	-	-	-	NSYPLM86G	NSYPLM86TG	NSYPLM86VG	NSYPLM86TVG	
1056	852	350	-	-	-	-	NSYPLM108G (2)	NSYPLM108TG (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.

(4) Must be protected against sun radiation.

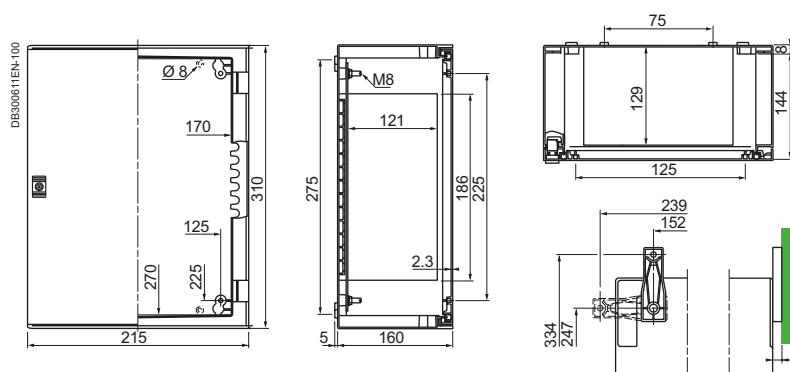
External dimensions (mm)			Wall-mounting enclosures with plain door and mounting plate (6)							
Height	Width	Depth	Plain	Bakelite	Plain	Bakelite	Plain	Bakelite	Plain	Bakelite
308	255	160	-	-	NSYPLM3025PG	NSYPLM3025BG	-	-	-	-
310	215	160	NSYPLM32PG	NSYPLM32BG	-	-	-	-	-	-
430	330	200	-	-	-	-	NSYPLM43PG	NSYPLM43BG	NSYPLM43BG	NSYPLM43BG
530	430	200	-	-	-	-	NSYPLM54PG	NSYPLM54BG	NSYPLM54BG	NSYPLM54BG
647	436	250	-	-	-	-	NSYPLM64PG	NSYPLM64BG	NSYPLM64BG	NSYPLM64BG
747	536	300	-	-	-	-	NSYPLM75PG	NSYPLM75BG	NSYPLM75BG	NSYPLM75BG
847	636	300	-	-	-	-	NSYPLM86PG	NSYPLM86BG	NSYPLM86BG	NSYPLM86BG
1056	852	350	-	-	-	-	-	-	NSYPLM108BG	NSYPLM108BG

(6) Not mounted.

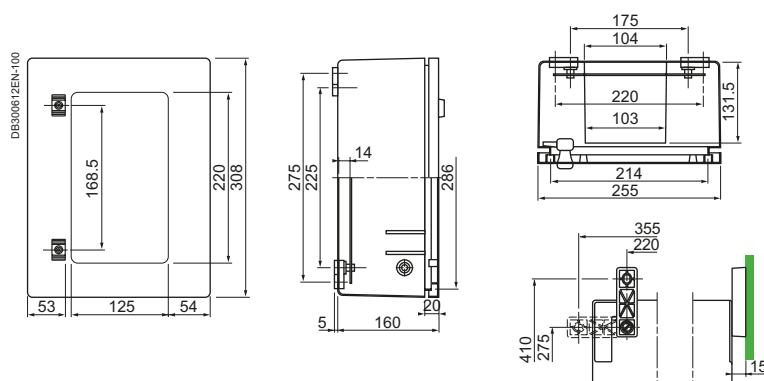
Insulating wall-mounting enclosures

Dimensions

ABS/PC wall-mounting enclosures

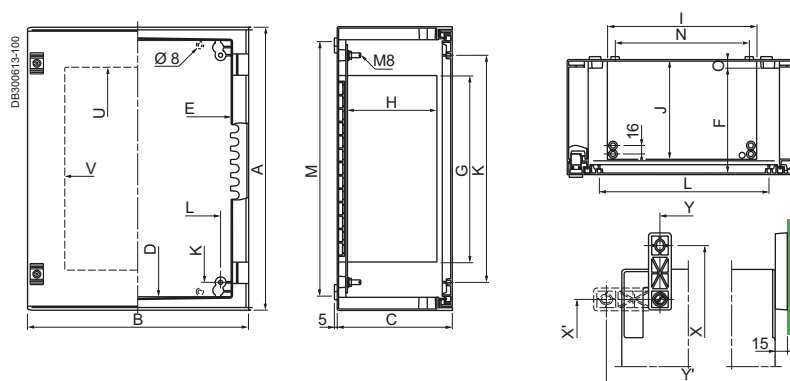


Polyester wall-mounting enclosures 308 x 255 mm



Glazed door opening (mm)		References
U	V	
273	194	NSYPLM43TG
	151	NSYPLM43TVG
373	294	NSYPLM54TG
	251	NSYPLM54TVG
463	294	NSYPLM64TG
	252	NSYPLM64TVG
563	394	NSYPLM75TG
	352	NSYPLM75TVG
663	494	NSYPLM86TG
	452	NSYPLM86TVG
854	661	NSYPLM108TG

Other polyester wall-mounting enclosures



External fixing with lugs (mm)				References
Vertical		Horizontal		
X	Y	X'	Y'	
490	225	355	360	NSYPLM43G
590	325	455	460	NSYPLM54G
690	330	555	465	NSYPLM64G
790	430	655	565	NSYPLM75G
890	530	755	665	NSYPLM86G
1090	750	955	885	NSYPLM108G

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	NSYPLM43G
530	430	200	480	360	181	347	150	279	168	425	325	475	250	13	NSYPLM54G
647	436	250	580	360	228	388	192	279	212	525	325	575	250	13	NSYPLM64G
747	536	300	680	460	278	487	241	379	261	625	425	675	350	15	NSYPLM75G
847	636	300	780	560	278	587	241	479	261	725	525	775	450	15	NSYPLM86G
1056	852	350	980	760	327	775	280	680	300	925	725	975	650	15	NSYPLM108G

Insulating wall-mounting enclosures

Specific accessories overview

PB502860-88



Composition accessories

Base accessories



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Fixing



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Fixing



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Cable entry



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Door



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Locking systems



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Mounting



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Coupling



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Diverse



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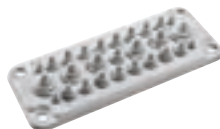
Insulating wall-mounting enclosures

Common accessories overview

Cable management

Cable management

PB502492-29



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Cable holding

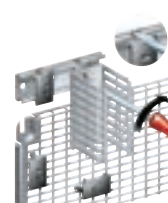
PB500986-40



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Cable ducting

PB500959-22



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Thermal management

Heaters

PB502650-29



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Ventilation

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Thermal control

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Installation accessories

Mounting acc.

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Others

Document pocket

PB502859-18

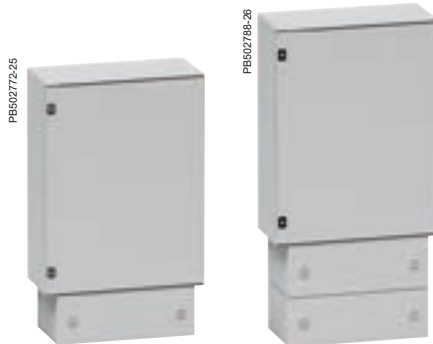


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Insulating wall-mounting enclosures

Specific accessories

Base accessories



Characteristics				ZM plinth for PLM enclosure						
				Designed to support and raise enclosures NSYPLM75G , NSYPLM86G and NSYPLM108G . <ul style="list-style-type: none"> ■ 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.						
Material				Polyester reinforced with fibreglass, moulded by hot compression						
Ingress protection rating				IP44						
Mechanical protection rating				IK10						
For enclosure				Cabling area		Plinth				
Height (mm)	Width (mm)	Depth (mm)	References	Width (mm)	Depth (mm)	Height (mm)	Width (mm)	Depth (mm)	References	
747	536	300	NSYPLM75G	256	252	200	456	302	NSYZM253G	
847	636	300	NSYPLM86G	356	252	200	556	302	NSYZM263G	
1056	852	350	NSYPLM108G	572	302	200	772	352	NSYZM283G	



Accessories	Cable supporting cross-rail	Kit for IP54	Feet for partially buried installation								
	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.	Makes it possible to obtain IP54 for the plinth and the plinth-enclosure coupling.	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.								
	<table border="1"> <thead> <tr> <th>For plinth</th> <th>Cross-rail references</th> </tr> </thead> <tbody> <tr> <td>NSYZM253G</td> <td>NSYAC280</td> </tr> <tr> <td>NSYZM263G</td> <td>NSYAC360</td> </tr> <tr> <td>NSYZM283G</td> <td>NSYAC600</td> </tr> </tbody> </table>	For plinth	Cross-rail references	NSYZM253G	NSYAC280	NSYZM263G	NSYAC360	NSYZM283G	NSYAC600	Reference	Reference
For plinth	Cross-rail references										
NSYZM253G	NSYAC280										
NSYZM263G	NSYAC360										
NSYZM283G	NSYAC600										
		NSYAEZM	NSYAEBFZ								

Insulating wall-mounting enclosures

Specific accessories

Fixing



NSYPLM32G NSYPLM NSYPLM

Characteristics	Floor-mounting pillar	Wall-fixing lugs	Post-fixing device	Blanking plates
	To protect cables entering the enclosure in outdoor installations. Cable entry section: 165 x 100 mm. For enclosures ref. NSYPLM54G, NSYPLM54TG, NSYPLM64G and NSYPLM64TG.	Set of 4 wall-fixing lugs. Mounted directly on the enclosure, either in horizontal position or in vertical position.	For outdoor installations on a post with a maximum circumference of 675 mm, Ø 215 mm.	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. NSYPLM108G.
Material	Polyester reinforced with fibreglass	Polyamide loaded with fibreglass	Stainless-steel	Galvanised steel
Colour	RAL 7035 grey	RAL 7035	-	RAL 7035
Maximum load	-	<ul style="list-style-type: none"> ■ On PLM32 □ vertical or horizontal: 10 kg ■ Other PLM models □ vertical position: 200 kg □ horizontal position: 100 kg 	100 kg	-
Supply	Delivered with steel frame for secure fixing to the floor	Delivered with fixings	Supply of the rail, the strips and the fixings	-
	Reference	References	For wall-mounting enclosure	References
	NSYSFPLMG	NSYPLM32G NSYPLM32G (1)	NSYPLM43G NSYPLM54G & NSYPLM64G NSYPLM75G NSYPLM86G	NSYSFP300 NSYSFP400 NSYSFP500 NSYSFP600
		NSYPLM32G NSYCEPLMAG NSYCEPLMBG NSYCEPLMCG		

(1) Exclusive for enclosures ref. **NSYPLM32G** and **NSYPLM32TG.**

Insulating wall-mounting enclosures

Specific accessories

Fixing

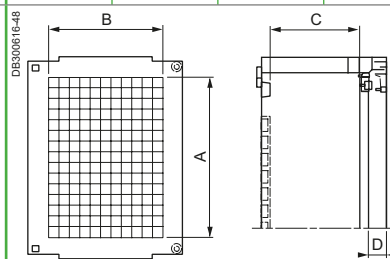


Characteristics	Support bracket for enclosure with anti-tilt kit and reinforcement
	The support bracket is used when the enclosure cannot be hung from a wall or a post. Suitable for outdoor use. Maximum enclosure dimensions: 1000 x 800 x 300 mm. Floor attachment by standard M12 fastenings.
Material	Steel
Finish	Painted
Colour	RAL 7035 grey
Maximum load	120 kg
Height (mm)	References
1400	NSYCOCNS1400
1800	NSYCOCNS1800

Door



Characteristics		Internal door						
		<ul style="list-style-type: none"> ■ Reversible door. ■ Grid pattern with a pitch of 25 mm for easier marking out before drilling. ■ Closes with 2 double-bar locks. ■ Door handle. ■ Steel internal door, without grid pattern and locking by a screw, for enclosures ref. NSYPLM3025G. ■ Incompatible with the modular distribution chassis. 						
Material		Polyester reinforced with fibreglass, self-extinguishing						
Colour		RAL 7035 grey						
Supply		Delivered with fixings and brass inserts						
For wall-mounting enclosure (mm)		Dimensions (mm)					References	
Height	Width	A	B	C	D			
					Plain door	Transp. door		
308	255	248	165	62	76	71	NSYPA3025PLMG	
430	330	315	205	152	26	21	NSYPAP43G	
530	430	415	305	152	26	21	NSYPAP54G	
645	435	515	305	194	32	27	NSYPAP64G	
745	535	615	405	244	32	27	NSYPAP75G	
845	635	715	505	244	32	27	NSYPAP86G	
1055	850	850	650	269	37	32	NSYPAP108G	



Insulating wall-mounting enclosures

Specific accessories

Locking system



Characteristics

Locks and inserts for enclosures NSYPLM32G to NSYPLM86G

- 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●●VG**).
- 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.

Options

PBE01337-44

NSYTC6CRN
NSYTC7CRN
NSYTC8CRN

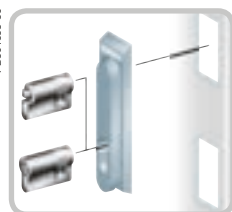
NSYTT6CRN
NSYTT8CRN

NSYTL405PLM
NSYTL220PLM



NSYTHL1242EPLM
NSYTHL405PLM
NSYTHL421PLM
NSYTHL455PLM
NSYTHL610PLM
NSYTHL2331APLM
NSYTHL2433APLM
NSYTHL3113APLM
NSYTHL3131APLM
NSYTHPLM

PBE01338-30



Options to transform the locks with double-bar inserts NSYPLM32G to NSYPLM86G

Changing the shape inserts for locks with keys according to the following table.

Replacement for locking handle with cylindrical barrel, delivered with all the parts required to change the lock.

Name	References	Type of barrel	References
6 mm male square	NSYTC6CRN	Key 1242 E	NSYTHL1242EPLM
7 mm male square	NSYTC7CRN	Key 405	NSYTHL405PLM
8 mm male square	NSYTC8CRN	Key 421	NSYTHL421PLM
6.5 mm male triangle	NSYTT6CRN	Key 455	NSYTHL455PLM
-	-	Key 610	NSYTHL610PLM
8 mm male triangle	NSYTT8CRN	Key 2331 A	NSYTHL2331APLM
Lock and key 405	NSYTL405PLM	Key 2433 A	NSYTHL2433APLM
Lock and key 220	NSYTL220PLM	Key 3113 A	NSYTHL3113APLM
Lock TJIS	NSYTJIS	Key 3131A	NSYTHL3131APLM
-	-	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

Insulating wall-mounting enclosures

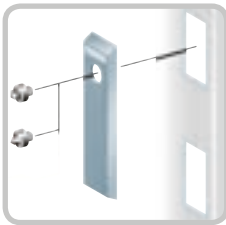
Specific accessories

Locking system

Locks and inserts for enclosures NSYPLM108/T

- Enclosures delivered as standard with 5 mm double-bar insert.
- Double-bar insert ref. **NSYTDB5PL**, placed in a long rectangular escutcheon, activates a 4-point closure system.

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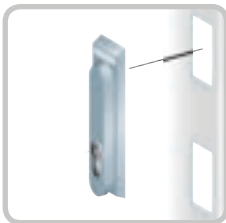


Options to transform the insert

The standard insert can be replaced with other shape inserts, according to the following table.

Name	References
Double-bar insert	NSYTDB5PL
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

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Options to transform for a retractable handle

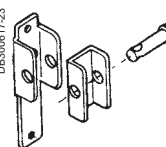
The escutcheon and rosette assembly can be replaced with a lock with retractable handle equipped with inserts or barrels, according to the following table.

Name	References
5 mm double bar	NSYTEDB5PL
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

PB502869-23



DB300817-23



DB300818-11



Padlocking accessories

Padlocking system 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.

Padlocking system positioned around the long rectangular escutcheon of the enclosures ref. **NSYPLM108G/TG**, to block access to the lock; for $\varnothing 9$ mm padlock.

Padlocking system to block access to the retractable handle, for the versions **NSYPLM●●V** or optionally for enclosures ref. **NSYPLM108G/TG**, for a $\varnothing 9$ mm padlock.

References

NSYKPLM	NSYBCPL	NSYBCME
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Insulating wall-mounting enclosures

Specific accessories

Mounting accessories



Characteristics		Step slides			Plastic nuts for rail fixing		35 mm symmetrical DIN rails	
		Kit allowing depth adjustment with a pitch of 12.5 mm, and the fixings required for the installation. Incompatible with the modular distribution chassis.			They slide directly into the notches, with a pitch of 25 mm, which are located on the rear of the enclosures, except enclosure ref. NSYPLM3025G/TG . 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.		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. NSYTCSPML or NSYTCM6PLM .	
Material		Galvanised steel			-		Galvanised steel	
Supply		4 step slides with brackets			References by unit. Order by multiples of 20 units (20, 40, 60, etc.)		References by unit. Order by multiples of 2 units (2, 4, 6, etc.)	
For wall-mounting enclosure (mm)		Depth adjustment (mm)		References	Name	References	Rail length (mm)	References
Width	Depth	A	B					
-	-	-	-	-	Plastic nut with self-tapping screw	NSYTCSPML	-	-
-	-	-	-	-	Plastic nut containing an M6 metal nut	NSYTCM6PLM	-	-
215	-	-	-	-	-	-	180	NSYCS200PLM
330	-	-	-	-	-	-	280	NSYCS300PLM
430 / 436	-	-	-	-	-	-	380	NSYCS400PLM
536	-	-	-	-	-	-	480	NSYCS500PLM
636	-	-	-	-	-	-	580	NSYCS600PLM
852	-	-	-	-	-	-	795	NSYCS800PLM
-	200	156	94	NSYDPLM200	-	-	-	-
-	250	200	100	NSYDPLM250	-	-	-	-
-	300	250	100	NSYDPLM300	-	-	-	-
-	350	306	106	NSYDPLM350	-	-	-	-

Insulating wall-mounting enclosures

Specific accessories

Coupling and cable-entry



Characteristics			Coupling frame	Cable-gland plates
			Allows the lateral coupling of 2 enclosures.	Dimensions: 435 x 185 mm and 635 x 185 mm.
Material			Polyester frame	Polyester
Colour			RAL 7035 grey	RAL 7035 grey
Ingress protection rating			A built-in sealing gasket guarantees a protection rating of IP66	-
Supply			Delivered with fixings	Delivered with fixings
External dimensions (mm)	Entry	For wall-mounting enclosure	References	
435 x 185 x 15	398 x 148	NSYPLM75G and NSYPLM86G	NSYBUPLMG	NSYTLA4420G
635 x 185 x 15	598 x 148	NSYPLM108G	NSYBU108PLMG	NSYTLA6420G

Diverse



Characteristics	Fixing inserts			Ventilation louvres*	Water drain plug	Renovation and anti-graffiti paint		
	Expanding inserts for addition to the M6 bosses of the enclosure (the M5 for the door, the M6 for inside the body and the M8 for the external rear part of the enclosure).			They can be positioned inside the wall-mounting enclosures with heights from 430 to 846 mm, allowing ventilation through the channels of the enclosure.	For drainage of condensation water.*** It is placed in the Ø 8.5 mm** housing at the bottom of the enclosure.	Paint kit with 2 components (base 80 % + hardener 20 %), specially designed for polyester enclosures, for their renovation and/or as prevention to allow removal of graffiti.		Solvent for diluting the paint and cleaning the utensils.
Colour	-			-	-	RAL 7035 grey		-
Ingress protection rating	-			-	IP53	-		-
Supply	References by unit. Order by multiples of 8 units (8, 16, 24, etc.). M5 and M6 inserts to be ordered in multiples of 20			References by unit. Order by multiples of 2 units (2, 4, 6, etc.)	References by unit. Order by multiples of 10 units (10, 20, 30, etc.)	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 m ²)	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 m ²)	1 kg
	Insert size	For wall-mounting enclosure	References	Reference	Reference	References		
	M5	NSYPLM43G and NSYPLM54G	NSYTEX5	NSYCAG35LP	NSYVEA9	NSYAUPG1G	NSYAUPG5G	NSYAUPGS
	M6	NSYPLM64G to NSYPLM108G	NSYTEX6					
	M8	For the rear of the enclosure	NSYTEX8PLM					

* Ventilation louvres, airing devices with filters, fans and thermal adjustment accessories, see ClimaSys section.

** 8.2 mm for wall-mounting enclosures NSYPLM32G, NSYPLM32TG, NSYPLM32PG and NSYPLM32BG.

*** Condensation should be eliminated using ClimaSys solution.

Insulating wall-mounting enclosures

Specific accessories

S3D*

S3X

PLM

* Minimum depth 200 mm.

Power distribution accessories



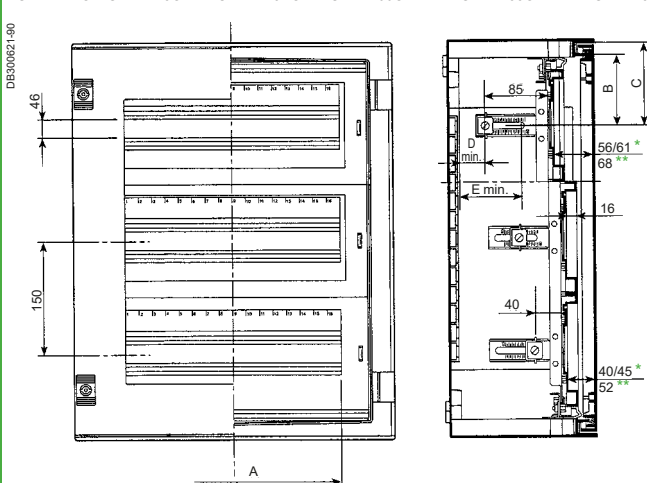
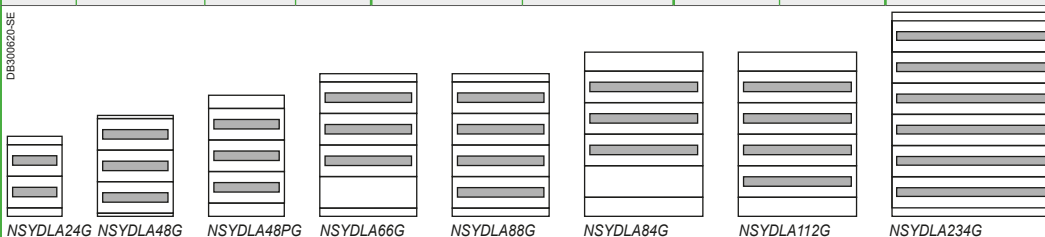
Characteristics DLA modular chassis

- Front panels and covers installed in the front part, are not depth adjustable.
- Rigid structure for the installation of modular devices.
- Open front panels with 35 mm DIN rail and plain front panels with mounting plate, according to the model.
- Front plates quick installation with no fixings.
- Rail depth 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.

Material: ■ Front panels and finish covers: polystyrene
 ■ Rigid structure: galvanised-steel

Colour: Front panels and finish covers: RAL 7035 grey

Dimensions (mm)					Distribution rows				For installation in the enclosures				References
A	B	C	D min.	E min.	No. of useful rows	No. of 18 mm modules per row	No. of 18 mm modules	No. of plates	PLM enclosure		S3D enclosure (depth ≥ 200 mm)		
									References		Height	Width	
216	115	137	38	88	2	12	24	-	NSYPLM43G	NSYPLM43TG	400	300	NSYDLA24G
286	90	112	38	88	3	16	48	-	NSYPLM54G	NSYPLM54TG	500	400	NSYDLA48G
286	140	170	80	130	3	16	48	-	NSYPLM64G	NSYPLM64TG	600	400	NSYDLA48PG
395	115	145	129	179	3	22	66	1	NSYPLM75G	NSYPLM75TG	700	500	NSYDLA66G
395	115	145	129	179	4	22	88	-	NSYPLM75G	NSYPLM75TG	700	500	NSYDLA88G
504	165	195	129	179	3	28	84	1	NSYPLM86G	NSYPLM86TG	800	600	NSYDLA84G
504	165	195	129	179	4	28	112	-	NSYPLM86G	NSYPLM86TG	800	600	NSYDLA112G
704	115	146	170	220	6	39	234	-	NSYPLM108G	NSYPLM108TG	1000	800	NSYDLA234G

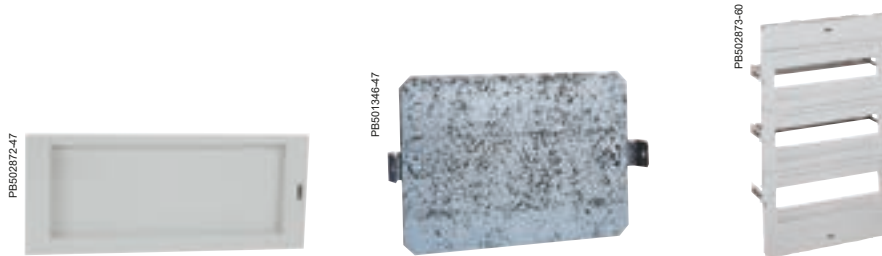


* Models NSYDLA48PG, 66, 88, 84 and 112.
 ** Model NSYDLA234.

Insulating wall-mounting enclosures

Specific accessories

Power distribution accessories



Characteristics	Plain front panels for DLA chassis		Mounting plate for DLA chassis		Modular distribution chassis
	<ul style="list-style-type: none"> ■ Front panel for non-modular device protection, on one row. ■ To be ordered in multiples of 2. 		<ul style="list-style-type: none"> ■ Mounting plate for mounting non-modular devices, on one row. ■ To be ordered in multiples of 2. 		For mounting modular devices on two rows of nine 18-mm modules.
Material	Polystyrene		Galvanised-steel		<ul style="list-style-type: none"> ■ Chassis: metal ■ Protective plate: polystyrene
Colour	RAL 7035 grey		-		-
For installing on the chassis	Width (mm)	References	Width (mm)	References	Reference
NSYDLA24G	256	NSYCTL300DLAG	-	-	-
NSYDLA48G and NSYDLA48PG	356	NSYCTL400DLAG	315	NSYPMP400DLA	-
NSYDLA66G and NSYDLA88G	456	NSYCTL500DLAG	415	NSYPMP500DLA	-
NSYDLA84G and NSYDLA112G	555	NSYCTL600DLAG	514	NSYPMP600DLA	-
NSYDLA234G	755	NSYCTL800DLAG	714	NSYPMP800DLA	-
For enclosure					
NSYPLM3025G/TG	-	-	-	-	NSYDLPLM18G

Insulating floor-standing enclosures

Insulating floor-standing enclosures

Contents

PE501353SE-20



Thalassa PLA Polyester floor-standing enclosures



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Thalassa PLD Polyester DIN floor-standing enclosure



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Associated applicative offers

PHD Polyester Heavy Duty enclosures



380

Polyester floor-standing enclosures

Introduction

➤ The **floor-standing enclosures** are made from **polyester reinforced with fibreglass**, moulded by hot compression. High resistance to corrosion in harsh environments, it maintains its mechanical and insulation properties.



PB502846-47

Bigger dimensions

The new options with **2000 mm** height and **620 mm** depth have been created to meet industry and infrastructure demands for motor control, power distribution, electronics or telecom applications.

PLAT version



PB502860-33

Ventilation

Open top part with canopy allowing for ventilation.



PB502891-33

Easy

Various bosses for M8 inserts.

PLAZ version



PB502892-32

Open bottom

Big open bottom to be mounted directly on the floor or on a plinth.



PB502893-32

Smart

Plain mounting plate installed on step slides and compulsory adapter plates in all the enclosures with open bottom part.

PLAZT version



PB502894-32

Easy

Door opening to 180°.



PB502895-32

Resistant

Anti-lever security system.



Prolonged exposure to UV radiation, wind and rain can cause aesthetics changes in the external surface of the enclosure. Without affecting the technical properties according to IEC 62208. For long exposure applications, it is recommended to use coloured enclosures available through the P&S offer.

This range can be configured according to your needs

4 different services available:



Assemble to order



Mounting of standard accessories



Painting



Machining

See page 496 for details or consult our web site www.se.com

The customized solutions Configured or Specific types use existing ranges from Universal Enclosures standard offer as a base for its development. Depending on the modifications made on the enclosures or accessories, they could affect the certification or declarations of conformity existing in the standard ranges. The certifications and declarations of conformity needed for the solution must be defined early in the process as part of the offer specifications.

Polyester floor-standing enclosures

Characteristics



Class II



Characteristics	PLA version	PLAT version	PLAZ version	PLAzt version
	Completely sealed enclosure	Enclosure with ventilated canopy	Enclosure with open bottom	Enclosure with open bottom and ventilated canopy
	<ul style="list-style-type: none"> ■ Enclosure obtained by assembling: <ul style="list-style-type: none"> □ 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). ■ 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°. 	<ul style="list-style-type: none"> ■ Enclosure obtained by assembling: <ul style="list-style-type: none"> □ 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). ■ 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°. 	<ul style="list-style-type: none"> ■ Enclosure obtained by assembling: <ul style="list-style-type: none"> □ 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). ■ 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°. 	<ul style="list-style-type: none"> ■ Enclosure obtained by assembling: <ul style="list-style-type: none"> □ 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). ■ 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 180° (except for height: 2000). ■ Anti-lever system to prevent forcing of the door.
Material	Polyester reinforced with fibreglass			
Temperature range	-40°C ... 80°C			
Finish	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			
Colour	RAL 7035 grey			
Ingress protection rating	IP65 according to IEC 60529	<ul style="list-style-type: none"> ■ IP44 according to IEC 60529 ■ IP54 with 1 or 2 internal grilles, ref. NSYCAG125LPP, to be ordered separately 	IP54 according to IEC 60529	<ul style="list-style-type: none"> ■ IP44 according to IEC 60529 ■ IP54 with 1 or 2 internal grilles, ref. NSYCAG125LPP, to be ordered separately
Mechanical protection rating	<ul style="list-style-type: none"> ■ IK10 plain door - IEC 62262 ■ IK08 glazed door 			
Insulation	Class II according to IEC 60950-1 if the mounting process follow the included mounting instructions sheet			
Certifications (see page 582)	<ul style="list-style-type: none"> ■ UL 508A/CAN-CSA 22 <ul style="list-style-type: none"> □ single door: Nema types 1, 2, 3, 3R, 3S, 5, 12 and 13 □ double door: Nema types 1, 2, 12 and 13 ■ Bureau Veritas Marine ■ IEC 62208 		<ul style="list-style-type: none"> ■ IEC 62208 	
Installation	<ul style="list-style-type: none"> ■ Indoor use only. For outdoor use, must install a canopy 		<ul style="list-style-type: none"> ■ Outdoor or indoor installation 	
	<ul style="list-style-type: none"> ■ Direct fixing to the floor or by means of a plinth with a height of 60 mm, as an option, see page 192 ■ Possibility of fixing on a semi-embedded plinth, see page 192 ■ Optional wall-fixing lugs 		<ul style="list-style-type: none"> ■ 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 194, or else it is installed on a semi-embedded plinth, see page 194 	
	<ul style="list-style-type: none"> ■ The versions with glassed door must be protected against the direct sun shine to avoid greenhouse effect 			
Options	Anti-posting door upon request			

➤ PHD - Applicative and customised solutions

See the Polyester Heavy Duty offer in the Applicative and customised solutions, page 380.

Polyester floor-standing enclosures

Dimensions

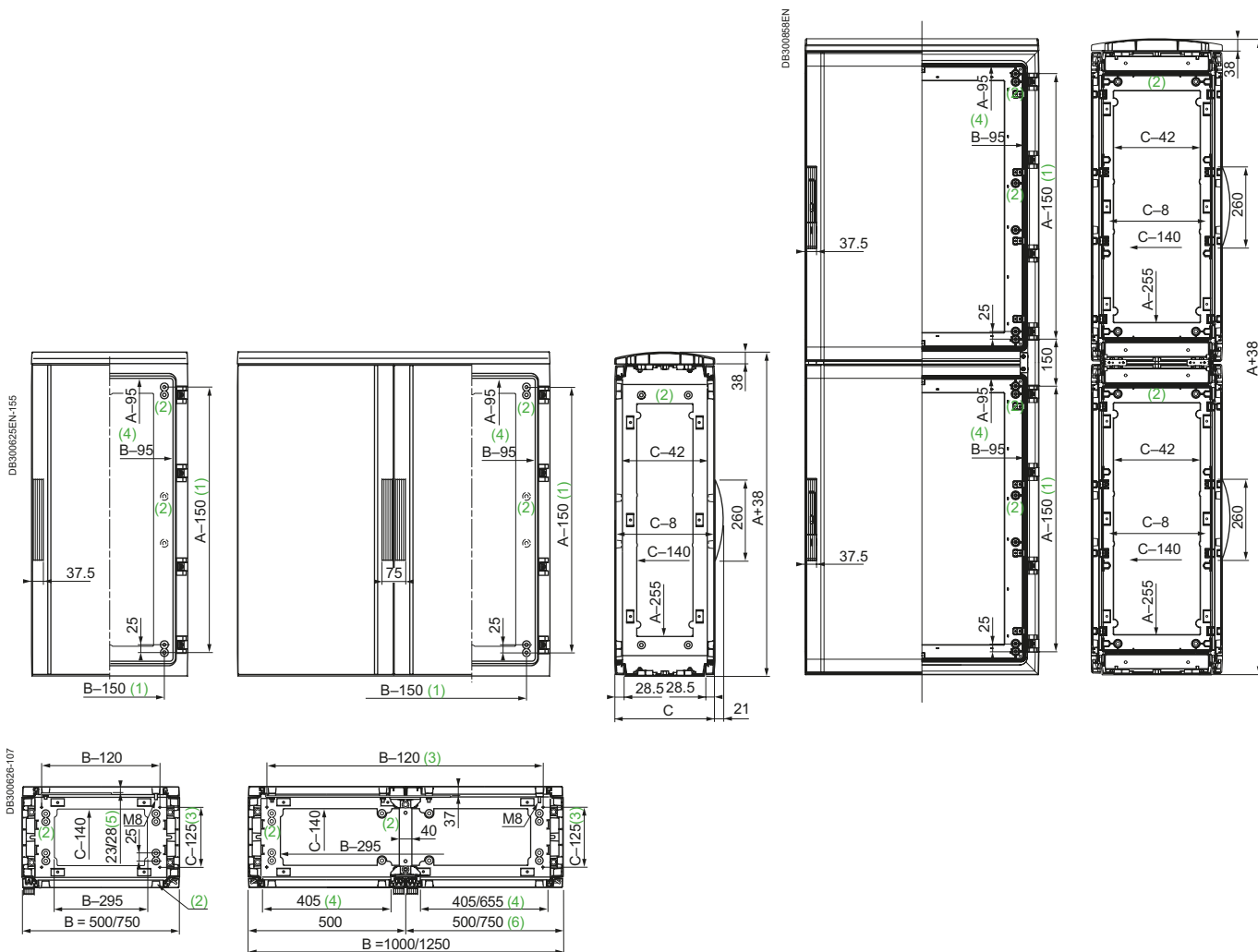
PLA

PLAT

PHD

Sealed enclosure or enclosure with ventilated canopy

For enclosures without canopy, please just disregard the related 38 mm.



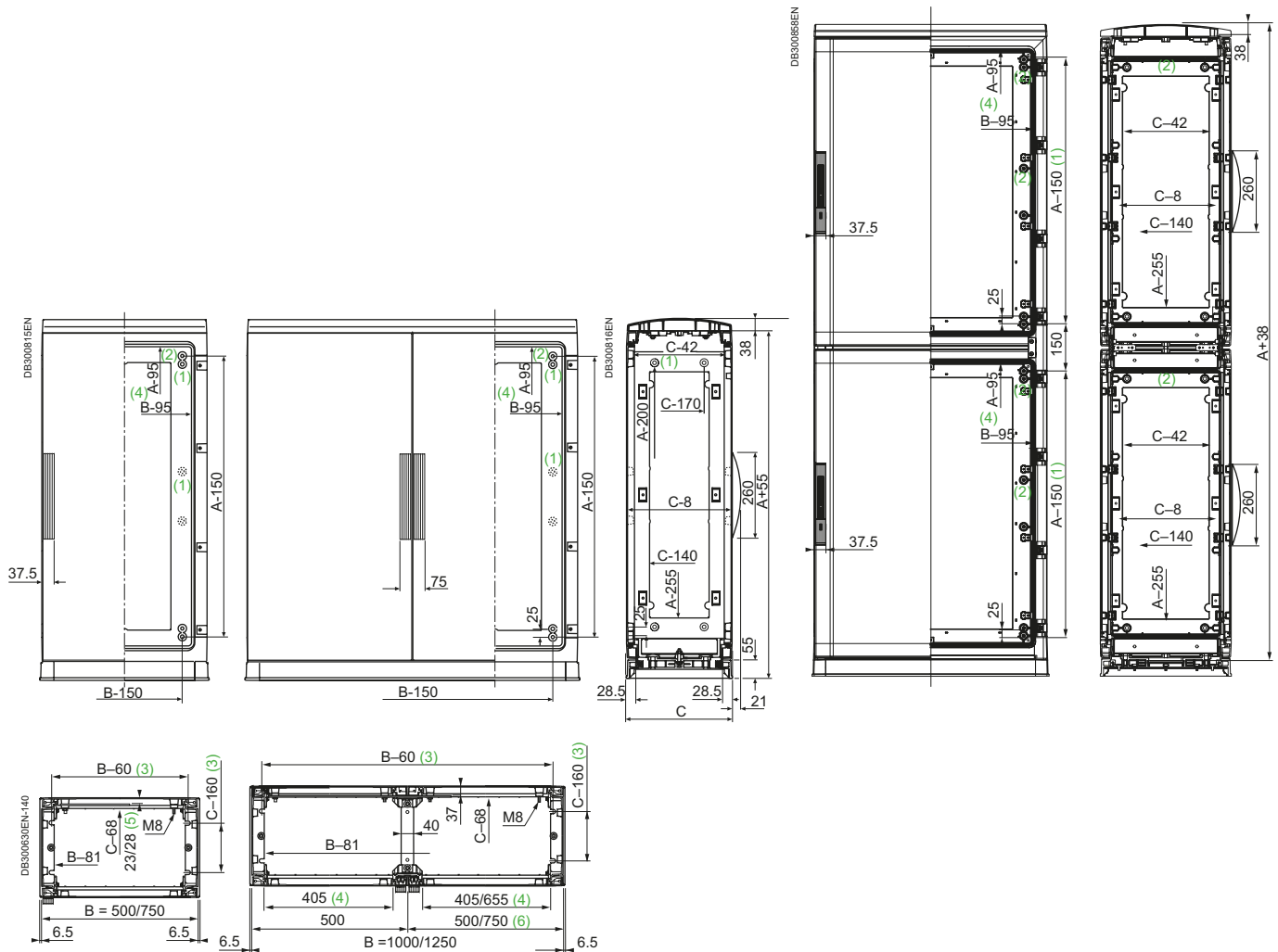
Polyester floor-standing enclosures

Dimensions

PLAZ PLAZT PHD

Enclosures with open bottom - plinth type With or without ventilated canopy

For enclosures without canopy, please just disregard the related 38 mm



(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

Selection guide

[!] Indoor and Outdoor

For outdoor use, must install a canopy.

IP65 or IP54

PLA



PLAZ



Dimensions (mm)				Completely sealed enclosures, IP65		Enclosures with open bottom part, IP54	
References of enclosures with door							
Height (A)	Width (B)	Depth (C)	N° of doors	Plain	Glazed (1)	Plain	
500	500	320	1	NSYPLA553G	NSYPLA553TG	NSYPLAZ553G	
		420	1	NSYPLA554G	NSYPLA554TG	NSYPLAZ554G	
	750	320	1	NSYPLA573G	NSYPLA573TG	NSYPLAZ573G	
		420	1	NSYPLA574G	NSYPLA574TG	NSYPLAZ574G	
	1000	320	2	NSYPLA5103G	NSYPLA5103TG	NSYPLAZ5103G	
		420	2	NSYPLA5104G	NSYPLA5104TG	NSYPLAZ5104G	
	1250	320	2	NSYPLA5123G	NSYPLA5123TG	NSYPLAZ5123G	
		420	2	NSYPLA5124G	NSYPLA5124TG	NSYPLAZ5124G	
	750	500	320	1	NSYPLA753G	NSYPLA753TG	NSYPLAZ753G
			420	1	NSYPLA754G	NSYPLA754TG	NSYPLAZ754G
750		320	1	NSYPLA773G	NSYPLA773TG	NSYPLAZ773G	
		420	1	NSYPLA774G	NSYPLA774TG	NSYPLAZ774G	
1000		620	1	NSYPLA776G	NSYPLA776TG	NSYPLAZ776G	
		320	2	NSYPLA7103G	NSYPLA7103TG	NSYPLAZ7103G	
1250		420	2	NSYPLA7104G	NSYPLA7104TG	NSYPLAZ7104G	
		320	2	NSYPLA7123G	NSYPLA7123TG	NSYPLAZ7123G	
1000		500	420	2	NSYPLA7124G	NSYPLA7124TG	NSYPLAZ7124G
			320	1	NSYPLA1053G	NSYPLA1053TG	NSYPLAZ1053G
1250	500	420	1	NSYPLA1054G	NSYPLA1054TG	NSYPLAZ1054G	
		320	1	NSYPLA1073G	NSYPLA1073TG	NSYPLAZ1073G	
	750	420	1	NSYPLA1074G	NSYPLA1074TG	NSYPLAZ1074G	
		320	2	NSYPLA10103G	NSYPLA10103TG	NSYPLAZ10103G	
	1000	420	2	NSYPLA10104G	NSYPLA10104TG	NSYPLAZ10104G	
		320	2	NSYPLA10123G	NSYPLA10123TG	NSYPLAZ10123G	
	1250	420	2	NSYPLA10124G	NSYPLA10124TG	NSYPLAZ10124G	
		320	1	NSYPLA1253G	NSYPLA1253TG	NSYPLAZ1253G	
	1500	500	420	1	NSYPLA1254G	NSYPLA1254TG	NSYPLAZ1254G
			320	1	NSYPLA1273G	NSYPLA1273TG	NSYPLAZ1273G
750		420	1	NSYPLA1274G	NSYPLA1274TG	NSYPLAZ1274G	
		620	1	NSYPLA1276G	NSYPLA1276TG	NSYPLAZ1276G	
1000		320	2	NSYPLA12103G	NSYPLA12103TG	NSYPLAZ12103G	
		420	2	NSYPLA12104G	NSYPLA12104TG	NSYPLAZ12104G	
1250		320	2	NSYPLA12123G	NSYPLA12123TG	NSYPLAZ12123G	
		420	2	NSYPLA12124G	NSYPLA12124TG	NSYPLAZ12124G	
2000		750	620	2	NSYPLA12126G	NSYPLA12126TG	NSYPLAZ12126G
			320	1	NSYPLA1553G	NSYPLA1553TG	NSYPLAZ1553G
2000	500	420	1	NSYPLA1554G	NSYPLA1554TG	NSYPLAZ1554G	
		320	1	NSYPLA1573G	NSYPLA1573TG	NSYPLAZ1573G	
	750	420	1	NSYPLA1574G	NSYPLA1574TG	NSYPLAZ1574G	
		620	1	NSYPLA1576G	NSYPLA1576TG	NSYPLAZ1576G	
	1000	320	2	NSYPLA15103G	NSYPLA15103TG	NSYPLAZ15103G	
		420	2	NSYPLA15104G	NSYPLA15104TG	NSYPLAZ15104G	
	1250	320	2	NSYPLA15123G	NSYPLA15123TG	NSYPLAZ15123G	
		420	2	NSYPLA15124G	NSYPLA15124TG	NSYPLAZ15124G	
	2000	750	620	2	NSYPLA15126G	NSYPLA15126TG	NSYPLAZ15126G
			420	2*	NSYPLA2074G	NSYPLA2074TG	NSYPLAZ2074G

* Two doors in vertical.

(1) recommended to protect against the direct sun radiation

➤ PHD - Applicative and customised solutions

See the Polyester Heavy Duty offer in the Applicative and customised solutions, page 380.

Polyester floor-standing enclosures

Selection guide

IP44

PLAT

PLAZT


Dimensions (mm)				Enclosures with ventilated canopy, IP44	Enclosures with open bottom part and ventilated canopy, IP44	
References of enclosures with door						
Height (A)	Width (B)	Depth (C)	N° of doors	Plain	Plain	
500	500	320	1	NSYPLAT553G	NSYPLAZT553G	
		420	1	NSYPLAT554G	NSYPLAZT554G	
	750	320	1	NSYPLAT573G	NSYPLAZT573G	
		420	1	NSYPLAT574G	NSYPLAZT574G	
	1000	320	2	NSYPLAT5103G	NSYPLAZT5103G	
			420	2	NSYPLAT5104G	NSYPLAZT5104G
		1250	320	2	NSYPLAT5123G	NSYPLAZT5123G
			420	2	NSYPLAT5124G	NSYPLAZT5124G
750	500	320	1	NSYPLAT753G	NSYPLAZT753G	
		420	1	NSYPLAT754G	NSYPLAZT754G	
	750	320	1	NSYPLAT773G	NSYPLAZT773G	
		420	1	NSYPLAT774G	NSYPLAZT774G	
		620	1	NSYPLAT776G	NSYPLAZT776G	
	1000	320	2	NSYPLAT7103G	NSYPLAZT7103G	
			420	2	NSYPLAT7104G	NSYPLAZT7104G
		1250	320	2	NSYPLAT7123G	NSYPLAZT7123G
			420	2	NSYPLAT7124G	NSYPLAZT7124G
	1000	500	320	1	NSYPLAT1053G	NSYPLAZT1053G
			420	1	NSYPLAT1054G	NSYPLAZT1054G
		750	320	1	NSYPLAT1073G	NSYPLAZT1073G
420			1	NSYPLAT1074G	NSYPLAZT1074G	
1000		320	2	NSYPLAT10103G	NSYPLAZT10103G	
			420	2	NSYPLAT10104G	NSYPLAZT10104G
		1250	320	2	NSYPLAT10123G	NSYPLAZT10123G
			420	2	NSYPLAT10124G	NSYPLAZT10124G
1250	500	320	1	NSYPLAT1253G	NSYPLAZT1253G	
		420	1	NSYPLAT1254G	NSYPLAZT1254G	
	750	320	1	NSYPLAT1273G	NSYPLAZT1273G	
		420	1	NSYPLAT1274G	NSYPLAZT1274G	
		620	1	NSYPLAT1276G	NSYPLAZT1276G	
	1000	320	2	NSYPLAT12103G	NSYPLAZT12103G	
			420	2	NSYPLAT12104G	NSYPLAZT12104G
		1250	320	2	NSYPLAT12123G	NSYPLAZT12123G
			420	2	NSYPLAT12124G	NSYPLAZT12124G
	1500	500	320	1	NSYPLAT1553G	NSYPLAZT1553G
			420	1	NSYPLAT1554G	NSYPLAZT1554G
		750	320	1	NSYPLAT1573G	NSYPLAZT1573G
420			1	NSYPLAT1574G	NSYPLAZT1574G	
620			1	NSYPLAT1576G	NSYPLAZT1576G	
1000		320	2	NSYPLAT15103G	NSYPLAZT15103G	
	420		2	NSYPLAT15104G	NSYPLAZT15104G	
	1250	320	2	NSYPLAT15123G	NSYPLAZT15123G	
		420	2	NSYPLAT15124G	NSYPLAZT15124G	
2000	750	320	2	NSYPLAT15126G	NSYPLAZT15126G	
		420	2*	NSYPLAT2074G	NSYPLAZT2074G	

* Two doors in vertical.

➤ PHD - Applicative and customised solutions

See the Polyester Heavy Duty offer in the Applicative and customised solutions, page 380.

Polyester floor-standing enclosures

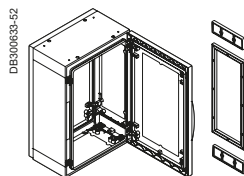
Specific accessories overview

PB502902-90



Composition accessories

Coupling kits



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Fixing



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Cable-entry



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Base accessories



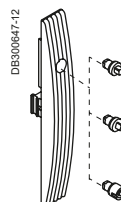
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Door



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Locking system



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Installation accessories



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Modular distribution accessories



Page 200

19" chassis



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Anti-burglary accessory



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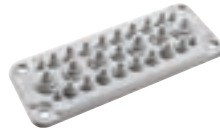
Polyester floor-standing enclosures

Common accessories overview

Cable management

Cable management

PB502492-29



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Cable holding

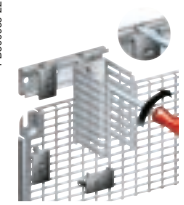
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Cable ducting

PB500898-22



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Thermal management

Heaters

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Ventilation

PB501044-26



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Cooling units

PB502614-15



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Thermal control

PB501162-19



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Fixing accessories

Rails

PB500177



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Composition accessories

VDI accessories and fixings

PB500189-17



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Other accessories

Document pocket

PB502859-18



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Polyester floor-standing enclosures

Specific accessories

Coupling kits

Characteristics	Horizontal coupling kits*						Vertical coupling kit	
	<ul style="list-style-type: none"> ■ For coupling 2 enclosures side by side. ■ Coupling frame kit: made up of a coupling kit and the fixings required for installation. ■ Trim kit: made up of 2 frames for aesthetic fitting of the 2 coupled enclosures. 						<ul style="list-style-type: none"> ■ 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. 	
Coupling kit widths	15 mm - Join 2 enclosures mounted on ZA plinths			35 mm - Join 2 enclosures mounted on ZZ or ZH plinths				
Ingress protection rating	IP55 at the coupling point			IP55 at the coupling point			IP55 at the coupling point	
For enclosure	Coupling frame kit			Coupling frame kit				
Height (mm)	Depth 320 mm	Depth 420 mm	Depth 620 mm	Depth 320 mm	Depth 420 mm	Depth 620 mm	NSYUVPPLA	
500	NSYMUPLA53G	NSYMUPLA54G	-	NSYMUPLA53W	NSYMUPLA54W	-		
750	NSYMUPLA73G	NSYMUPLA74G	NSYMUPLA76G	NSYMUPLA73W	NSYMUPLA74W	NSYMUPLA76W		
1000	NSYMUPLA103G	NSYMUPLA104G	-	NSYMUPLA103W	NSYMUPLA104W	-		
1250	NSYMUPLA123G	NSYMUPLA124G	NSYMUPLA126G	NSYMUPLA123W	NSYMUPLA124W	NSYMUPLA126W		
1500	NSYMUPLA153G	NSYMUPLA154G	NSYMUPLA156G	NSYMUPLA153W	NSYMUPLA154W	NSYMUPLA156W		
2000	-	NSYMUPLA204G	-	-	NSYMUPLA204W	-		
For enclosure	Trim kit							
	Depth 320 mm	Depth 420 mm						
Without canopy	NSYSUPLA3G	NSYSUPLA4G	-	-	-	-		
With canopy	NSYSUPLA3TG	NSYSUPLA4TG	-	-	-	-		

* Not valid for coupling 2 enclosures using ZZ or ZH type plinth.

Polyester floor-standing enclosures

Specific accessories

Fixing, cable-entry and other accessories

PB502909-38



PB502903-49



PB502904-29



PLAZ PLAZT

Characteristics		Canopy	Wall-fixing lugs	Cable-entry plate	
		<ul style="list-style-type: none"> It can be installed in all enclosure models. High resistance to impacts, temperature and bad weather. Increases the height (A) of the enclosure by 38 mm, without modifying its width or depth. 	Drilling positions and marks inside the side panels.	<ul style="list-style-type: none"> Easy drilling in specific customised version. Incompatibility with: adapter plates, step slides, internal door and chassis for modular distribution. 	
Material		Polyester reinforced with fibreglass	Carbon steel with passivated zinc-coated	Polyester reinforced with fibreglass	
Colour		RAL 7035 grey	-	RAL 7035 grey	
Thickness		-	-	4 mm	
Ingress protection rating		-	-	IP00	
Installation		Essential for outdoor use	-	-	
Fixing		-	<ul style="list-style-type: none"> Fixing on the sides by 4 or 6 lugs in horizontal position (6 lugs for enclosures with height ≥ 1000 mm) 10 mm fixing distance on the rear of the enclosure plane 	-	
Maximum load inside enclosure		-	180 kg, including weight of enclosure	-	
Supply		Delivered with the fixings required for installation	Set of 6 lugs and fixings	Delivered with the fixings required for installation	
Width (mm)	Depth (mm) (C)	References			
500	320	NSYTJPLA53G	NSYFMPLA	NSYECPLAZ53G	
750	320	NSYTJPLA73G		NSYECPLAZ73G	
1000	320	NSYTJPLA103G		NSYECPLAZ103G	
1250	320	NSYTJPLA123G		NSYECPLAZ123G	
500	420	NSYTJPLA54G		NSYECPLAZ54G	
750	420	NSYTJPLA74G		NSYECPLAZ74G	
	620	NSYTJPLA76G		NSYECPLAZ76G	
1000	420	NSYTJPLA104G		NSYECPLAZ104G	
1250	420	NSYTJPLA124G		NSYECPLAZ124G	
	620	NSYTJPLA126G		NSYECPLAZ126G	
					<p>Cable-entry plate</p> <ul style="list-style-type: none"> 1-door enclosure 2-door enclosure

(1) For enclosures with height ≥ 1000 mm, 1 extra lug at the centre of the A-375 side.

PLAT PLAZT

PB502910-25



PB500191-25



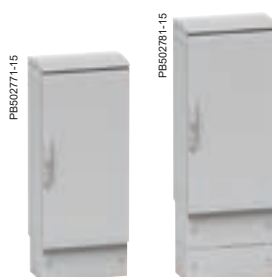
Characteristics		Grille for IP54 instead of IP44	Renovation and anti-graffiti paint	
		1 grille for 500 and 750 mm wide enclosures, 2 grilles for 1000 and 1250 mm wide enclosures. Prevents the entry of dust and provides the enclosure with IP 5X protection at the top. Maintains the possibility of ventilation.	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 %).	
Colour		RAL 7035 grey	RAL 7035 grey	
Installation		It is installed from the inside in the upper ventilation opening	-	
Supply		Delivered with G2 M1 standard synthetic filter, see ClimaSys section	1 kg: <ul style="list-style-type: none"> 800 g tin of base paint 200 g tin of hardener (Coverage = 5 m ²)	5 kg: <ul style="list-style-type: none"> 4 kg tin of base paint 1 kg tin of hardener (Coverage = 25 m ²)
References		NSYCAG125LPF	NSYAUPG1G	NSYAUPG5G
				NSYAUPGS

Polyester floor-standing enclosures

Specific accessories

PLA PLAT

Base accessories



Characteristics

ZA plinths

- 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.

Material	Polyester reinforced with fibreglass
Colour	RAL 7035 grey
Ingress protection rating	IP44
Mechanical protection rating	IK10
Fixing	Four floor-attachment points; the symmetry of the parts prevents incorrect assembly
Supply	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		Height 200 mm	Cable-gland area	
Width (mm) (B)	Depth (mm) (C)	References	Width (mm)	Depth (mm)	References	Width (mm)	Depth (mm)
500	320	NSYPLA(T)•53G	494	250	NSYZA253G	360	205
750	320	NSYPLA(T)•73G	744	250	NSYZA273G	610	205
1000	320	NSYPLA(T)•103G	994	250	NSYZA2103G	860	205
1250	320	NSYPLA(T)•123G	1244	250	NSYZA2123G	1100	205
500	420	NSYPLA(T)•54G	494	350	NSYZA254G	360	305
750	420	NSYPLA(T)•74G	744	350	NSYZA274G	610	305
1000	420	NSYPLA(T)•104G	994	350	NSYZA2104G	860	305
1250	420	NSYPLA(T)•124G	1244	350	NSYZA2124G	1110	305
750	620	NSYPLA(T)•76G	744	550	NSYZA276G	610	505
1250	620	NSYPLA(T)•126G	1244	550	NSYZA2126G	1110	505

Cable supporting cross-rail

PB50276-29



- **Description:** the lateral sides of the plinth are provided with bosses for attaching cross-rails with cut-out profiles, for supporting cables.
- **Supply:** the reference of the cross-rail includes all the elements required for assembly.

For plinth		Cross-rail
NSYZA253G	NSYZA254G	NSYAC320
NSYZA273G	NSYZA274G	NSYAC560
NSYZA2103G	NSYZA2104G	NSYAC840
NSYZA2123G	NSYZA2124G	NSYAC1080

Kit for IP54

- **Description:** makes it possible to obtain IP 54 for the plinth and the plinth-enclosure connection.
- **Standard:** IEC 61439-1

Reference
NSYAEFZA

Feet for partially buried installation

PB60276-329



- **Description:** 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.
- **Supply:** the kit is made up of four feet and fixings.

Reference
NSYAEFZ

Polyester floor-standing enclosures

Specific accessories

Base accessories



N plinths

Designed to be installed under the closed-bottom enclosures (version PLA or PLAT).

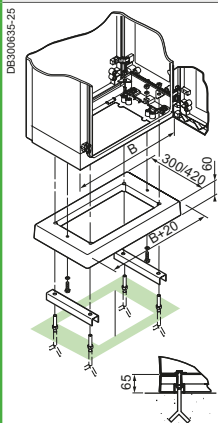
Polyester reinforced with fibreglass
RAL 7035 grey

Delivered with fixings required for installation

Height 60 mm

References

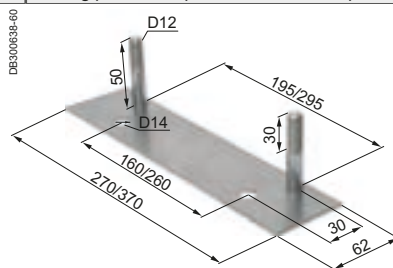
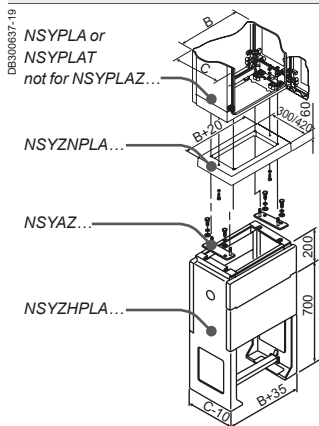
- NSYZNPLA53G
- NSYZNPLA73G
- NSYZNPLA103G
- NSYZNPLA123G
- NSYZNPLA54G
- NSYZNPLA74G
- NSYZNPLA104G
- NSYZNPLA124G



Connectors between plinths

- **Description:** designed to allow the adaptation of a closed-bottom enclosure + N plinth on a H-type partially buried plinth.
- **Supply:** 2 parts for adapting the centre-to-centre distances.

For floor-standing enclosure Depth (mm)	Description	References
320	Linking parts for N plinth on 320-mm H plinth	NSYAZ3PLA
420	Linking parts for N plinth on 420-mm H plinth	NSYAZ4PLA

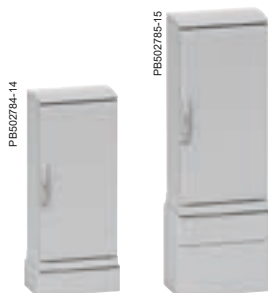


Polyester floor-standing enclosures

Specific accessories

PLAZ **PLAZT**

Base accessories



Characteristics

ZZ plinths (1)

- 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.

Material	Polyester reinforced with fibreglass
Colour	RAL 7035 grey
Ingress protection rating	IP44
Mechanical protection rating	IK10
Fixing	Four floor-attachment points; the symmetry of the parts prevents incorrect assembly
Supply	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 200 mm	Height 500 mm
Width (mm) (B)	Depth (mm) (C)	References	Width (mm)	Depth (mm)	Width (mm)	Depth (mm)	References	References
500	320	NSYPLAZ(T)•53G	535	310	419	252	NSYZZ253G	NSYZZ553G
750	320	NSYPLAZ(T)•73G	785	310	669	252	NSYZZ273G	NSYZZ573G
1000	320	NSYPLAZ(T)•103G	1035	310	919	252	NSYZZ2103G	NSYZZ5103G
1250	320	NSYPLAZ(T)•123G	1285	310	1169	252	NSYZZ2123G	NSYZZ5123G
500	420	NSYPLAZ(T)•54G	535	410	419	352	NSYZZ254G	NSYZZ554G
750	420	NSYPLAZ(T)•74G	785	410	669	352	NSYZZ274G	NSYZZ574G
1000	420	NSYPLAZ(T)•104G	1035	410	919	352	NSYZZ2104G	NSYZZ5104G
1250	420	NSYPLAZ(T)•124G	1285	410	1169	352	NSYZZ2124G	NSYZZ5124G
750	620	NSYPLAZ(T)•76G	785	610	669	552	NSYZZ276G	-
1250	620	NSYPLAZ(T)•126G	1285	610	1169	552	NSYZZ2126G	-

Cable supporting cross-rail

PB502766-20



- **Description:** the lateral sides of the plinths are provided with bosses for attaching cross-rails with cut-out profiles, for supporting cables.
- **Supply:** the reference of the cross-rail includes all the elements required for assembly.

For plinth				Cross-rail
NSYZZ253G	NSYZZ254G	NSYZZ553G	NSYZZ554G	NSYAC360
NSYZZ273G	NSYZZ274G	NSYZZ573G	NSYZZ574G	NSYAC600
NSYZZ2103G	NSYZZ2104G	NSYZZ5103G	NSYZZ5104G	NSYAC840
NSYZZ2123G	NSYZZ2124G	NSYZZ5123G	NSYZZ5124G	NSYAC1120

Outside opening kit

Description: 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.

Reference

NSYAE LZ

Feet for partially buried installation

PB502767-23



- **Description:** 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.
- **Supply:** the reference includes a kit made up of four feet and fixings.

Reference

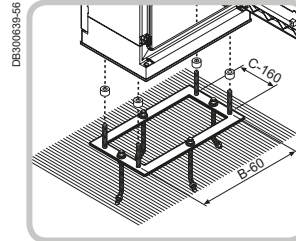
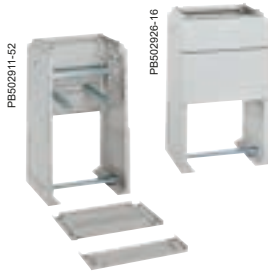
NSYAE BFZ

(1) For enclosures using ZZ or ZH type plinths the coupling kit to use is the NSYMUPLA***W.

Polyester floor-standing enclosures

Specific accessories

Base accessories

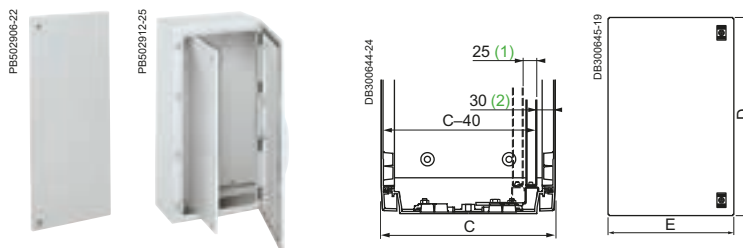


Buriable H plinths	Floor-standing frame
<ul style="list-style-type: none"> ■ Front panel with a height of 170 mm, retractable, providing easy access to the inside. ■ Fixed front panel with a height of 305 mm, corresponding to the finished floor height area. ■ The height above the floor after building-in 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. 	<p>Frame for direct fixing on the floor for installing open-bottom enclosures (version PLAZ or PLAZT).</p>
Polyester reinforced with fibreglass	Passivated zinc-coated steel
RAL 7035 grey	-
-	-
-	-
Delivered with the fixings required for installation	Delivered with fixings required for installation
Height 900 mm	
References	References
NSYZHPLA53G	NSYMFPLAZ53
NSYZHPLA73G	NSYMFPLAZ73
NSYZHPLA103G	NSYMFPLAZ103
NSYZHPLA123G	NSYMFPLAZ123
NSYZHPLA54G	NSYMFPLAZ54
NSYZHPLA74G	NSYMFPLAZ74
NSYZHPLA104G	NSYMFPLAZ104
NSYZHPLA124G	NSYMFPLAZ124
	NSYMFPLAZ76
	NSYMFPLAZ126
	Floor-fixing studs
	<ul style="list-style-type: none"> ■ Description: set of four threaded parts and fixings, for fixing the enclosures on concrete plinths.
	Reference
	NSYFSPLAZ

Polyester floor-standing enclosures

Specific accessories

Door

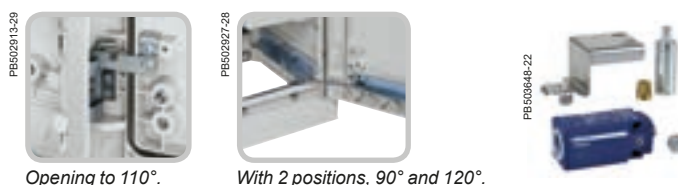


Characteristics		Internal door		
		<ul style="list-style-type: none"> ■ Designed for direct installation in enclosures with sealed bottom part. In the enclosures with the bottom part open, installation can be performed by ordering the necessary adapter plates, ref. NSYPTZ... ■ 2 depthwise mounting positions (1) according to the chosen M8 bosses to fix, on the top and bottom parts of the enclosure. ■ IP20 (only if the internal door is mounted on the advanced position). ■ Reversible assembly left / right, for single door enclosures. ■ Lock with 5-mm double-bar inserts. ■ Incompatibility with: modular distribution chassis, 19" chassis, cable-entry plate and door retainer, ref. NSYRETPLAU. 		
Material		Carbon steel painted		
Colour		RAL 7035 grey		
Supply		Delivered with M8 brass inserts and fixings		
For enclosure (mm)		Internal door dimensions		References
Height	Width	D	E	
500	500	398	398	NSYPAPLA55G
	750	398	648	NSYPAPLA57G
	1000	398	796 (2 x 398)	2 x NSYPAPLA55G
	1250	398	1046 (398 + 648)	NSYPAPLA55G + NSYPAPLA57G
750	500	648	398	NSYPAPLA75G
	750	648	648	NSYPAPLA77G
	1000	648	796 (2 x 398)	2 x NSYPAPLA75G
	1250	648	1046 (398 + 648)	NSYPAPLA75G + NSYPAPLA77G
1000	500	898	398	NSYPAPLA105G
	750	898	648	NSYPAPLA107G
	1000	898	796 (2 x 398)	2 x NSYPAPLA105G
	1250	898	1046 (398 + 648)	NSYPAPLA105G + NSYPAPLA107G
1250	500	1148	398	NSYPAPLA125G
	750	1148	648	NSYPAPLA127G
	1000	1148	796 (2 x 398)	2 x NSYPAPLA125G
	1250	1148	1046 (398 + 648)	NSYPAPLA125G + NSYPAPLA127G
1500	500	1398	398	NSYPAPLA155G
	750	1398	648	NSYPAPLA157G
	1000	1398	796 (2 x 398)	2 x NSYPAPLA155G
	1250	1398	1046 (398 + 648)	NSYPAPLA155G + NSYPAPLA157G

(1) Two positions for depthwise installation.

(2) The 2nd position moves the position of the internal door back by 25 mm.

Door accessories



Opening to 110°.

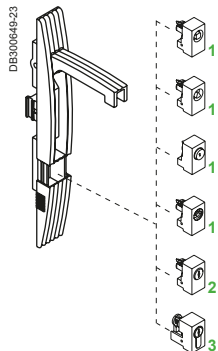
With 2 positions, 90° and 120°.

Characteristics		Door retainer	Door switch
		<ul style="list-style-type: none"> ■ Designed to adapt directly to the enclosure. ■ Can be installed on a door opening to the left or right indistinctly. 	<ul style="list-style-type: none"> NC + NO switch. Incompatible with the rear door and modular distribution chassis.
Material		Galvanised steel	-
Supply		Delivered with the fixings required for installation	Switch, fixing bracket and fixings
		PLA, PLAZ, PLAT versions NSYRETPLA	Reference NSYSNLPLA
		PLA, PLAZ, PLAT, PLAZT versions* NSYRETPLAU	
		<p>* 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. NSYRETPLA.</p>	

Polyester floor-standing enclosures

Specific accessories

Locking system



- 1 Block with form insert.
- 2 Block with cylindrical barrel.
- 3 Block with semi-cylindrical barrel.

Characteristics	Lock with handle
	Ergonomic locking system with pivoting handle installed as standard on enclosures with ventilated canopy and/or open bottom part, with a 5 mm double-bar insert block.
Material	PA6
Colour	RAL 7035 grey

Options

Options for changing the form-insert blocks (supplied with the required operating key)	References	Options for changing the handle lock	References
Block, 6 mm square insert	NSYINS61	<p>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.</p>	NSYBCMPLAG
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	<p>Spare handle lock without barrel or insert blocks. The insert or barrel are to be chosen from the option table.</p>	NSYEBMPLAG
Double bar	NSYINDB51		

Options for changing the blocks with cylindrical barrels			
Type of key	References	Type of key	References
405 E key	NSYIN405E1	3113 A key	NSYIN3113A1
421 E key	NSYIN421E1	3122 E key	NSYIN3122E1
455 key	NSYIN4551	3123 A key	NSYIN3123A1
1242 E key	NSYIN1242E1	3131A1 key	NSYIN3131A1
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	6101 key	NSYIN6101
2433 A key	NSYIN2433A1	EDF 1300 key	NSYINF1301
2452 E key	NSYIN2452E1	EDF 1400 key	NSYINF1401

Options for changing the blocks with semi-cylindrical barrels	References
1242 E key	NSYIN1242E2
DIN adapter	NSYINDIN2
JIS key	NSYINKJIS2
Reinforced key	NSYINKR2
FAC key	NSYINKFAC2

Type of lock	Insert references	Key references
⊕ 5 mm double bar	NSYTD5PLA	⊕ NSYLD5
□ 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

Polyester floor-standing enclosures

Specific accessories

Installation accessories



Characteristics	Metallic mounting plate			Insulating mounting plate						
	Plain mounting plate			Telequick mounting plate						
	<ul style="list-style-type: none"> Direct installation on M8 inserts at the rear of the enclosure or on step slides for depth adjustment (see page 203). 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. 			<ul style="list-style-type: none"> Grille 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 203). 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). 			<ul style="list-style-type: none"> Direct installation on M8 inserts at the rear of the enclosure or on step slides for depth adjustment (see page 203). 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. 			
Material	Galvanised sheet-steel			Galvanised-steel			Bakelite	Polyester		
Finish	-			-			-	-		
Colour	-			-			-	-		
Thickness	2.5 mm			-			4 mm	<ul style="list-style-type: none"> 4 mm up to 700 mm height 5 mm from 800 mm height 		
Maximum load	150 kg/m ²			150 kg/m ²			100 kg/m ²			
Supply	1 mounting plate			1 mounting plate			1 mounting plate			
For enclosure (mm)	Dimensions			Dimensions			References			
Height (A)	Width (B)	H (mm)	Surface (dm ²)	References	E (mm)	D (mm)	Surface (dm ²)	References		
500	500	-	14	NSYPMM55	350	350	13	NSYPMR55	NSYPMB55	NSYPMA55
	750	-	24	NSYPMM75	350	600	23	NSYPMR57	NSYPMB75	NSYPMA75
	1000	437.5	32	NSYPMM510	350	2 x 350	26	2 x NSYPMR55	NSYPMB510	NSYPMA510
	1250	-	38	NSYPMM55 + NSYPMM75	350	350 + 600	36	NSYPMR55 + NSYPMR57	NSYPMB55 + NSYPMB75	NSYPMA55 + NSYPMA75
750	500	-	24	NSYPMM75	600	350	23	NSYPMR75	NSYPMB75	NSYPMA75
	750	-	40	NSYPMM77	600	600	38	NSYPMR77	NSYPMB77	NSYPMA77
	1000	437.5	54	NSYPMM710	600	2 x 350	46	2 x NSYPMR75	NSYPMB710	NSYPMA710
	1250	687.5	70	NSYPMM712	600	350 + 600	61	NSYPMR75 + NSYPMR77	NSYPMB712	NSYPMA712
1000	500	-	33	NSYPMM105	850	350	32	NSYPMR105	NSYPMB105	NSYPMA105
	750	-	55	NSYPMM107	850	600	54	NSYPMR107	NSYPMB107	NSYPMA107
	1000	437.5	74	NSYPMM1010	850	2 x 350	64	2 x NSYPMR105	NSYPMB1010	NSYPMA1010
	1250	687.5	96	NSYPMM1012	850	350 + 600	86	NSYPMR105 + NSYPMR107	NSYPMB1012	NSYPMA1012
1250	500	-	42	NSYPMM125	1100	350	42	NSYPMR125	NSYPMB125	NSYPMA125
	750	-	70	NSYPMM127	1100	600	70	NSYPMR127	NSYPMB127	NSYPMA127
	1000	437.5	96	NSYPMM1210	1100	2 x 350	84	2 x NSYPMR125	NSYPMB1210	NSYPMA1210
	1250	687.5	124	NSYPMM1212	1100	350 + 600	112	NSYPMR125 + NSYPMR127	NSYPMB1212	NSYPMA1212
1500	500	-	51	NSYPMM155	1350	350	51	NSYPMR155	NSYPMB155	-
	750	-	85	NSYPMM157	1350	600	85	NSYPMR157	NSYPMB157	-
	1000	437.5	118	NSYPMM1510	1350	2 x 350	102	2 x NSYPMR155	NSYPMB1510	-
	1250	687.5	152	NSYPMM1512	1350	350 + 600	136	NSYPMR155 + NSYPMR157	NSYPMB1512	-
2000	750	-	115	NSYPMM207	2 x 850	2 x 600	108	2 x NSYPMR107	2 x NSYPMB107	2 x NSYPMA107

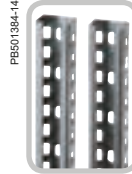
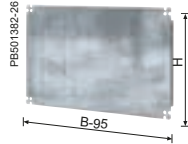
(1) Reinforcing fold for steel mounting plate **NSYPMM1010** to **NSYPMM1512**.

(2) A-125 for references **NSYPMM1010** to **NSYPMM1512**, A-120 for the polyester mounting plate, ref. **NSYPMA●●●**.

Polyester floor-standing enclosures

Specific accessories

Installation accessories



Side mounting plates				Partial plain mounting plate		Technical uprights		Anti-burglary accessory	
Polyester mounting plates fixed to the sides of the enclosure for additional installations. Installation on the M8 bosses by adding inserts, ref. NSYTEX8 .				Direct fixing on the uprights, with the notched sliding nuts or pivoting nuts, see common accessories section.		<ul style="list-style-type: none"> Supports for fixing rails, perforated grilles and plain partial mounting plates. Details in the common accessory section. Fixing at the rear on the M8 inserts or on the step slides. 		Anti-burglary accessory for polyester outdoor Heavy Duty in accordance with ENV 1627-1630:2011 class 2. It keeps the Insulation Class II according to IEC 61439-1:2011.	
Polyester				Galvanised sheet-steel		Zinc-coated steel		Steel with anti-corrosive coating	
-				-		-		Structured finish, 100 % polyester powder	
-				-		-		RAL 7035 grey	
<ul style="list-style-type: none"> 4 mm up to 750 mm height 5 mm from 800 mm height 				2.5 mm		2 mm		-	
100 kg/m ²				150 kg/m ²		-		-	
Reference by unit. Order by multiples of 2				1 mounting plate		2 technical uprights		1	
References				References		Dimensions		References	
Enclosure depth			247 mm height (H)	397 mm height (H)	(mm)	References	Depth 420 mm	Depth 620 mm	
320 mm	420 mm	620 mm							
NSYPMLA53	NSYPMLA54	-	-	-	-	-	-	-	
NSYPMLA53	NSYPMLA54	-	NSYSPMP2575	-			-	-	
NSYPMLA53	NSYPMLA54	-	NSYSPMP25100	NSYSPMP40100			-	-	
NSYPMLA53	NSYPMLA54	-	-	-			-	-	
NSYPMLA73	NSYPMLA74	NSYPMLA76	-	-	625	NSYTVR7	-	-	
NSYPMLA73	NSYPMLA74	-	NSYSPMP2575	-	-	-	NSYBGN774HD	NSYBGN776HD	
NSYPMLA73	NSYPMLA74	-	NSYSPMP25100	NSYSPMP40100			-	-	
NSYPMLA73	NSYPMLA74	-	-	-			-	-	
NSYPMLA103	NSYPMLA104	-	-	-	875	NSYTVR10	NSYBGN1054HD	-	
NSYPMLA103	NSYPMLA104	-	NSYSPMP2575	-	-	-	NSYBGN1074HD	-	
NSYPMLA103	NSYPMLA104	-	NSYSPMP25100	NSYSPMP40100			-	-	
NSYPMLA103	NSYPMLA104	-	-	-			-	-	
-	-	-	-	-			-	-	
NSYPMLA123	NSYPMLA124	NSYPMLA126	-	-	1125	NSYTVR125	NSYBGN1254HD	-	
NSYPMLA123	NSYPMLA124	-	NSYSPMP2575	-	-	-	NSYBGN1274HD	NSYBGN1276HD	
NSYPMLA123	NSYPMLA124	-	NSYSPMP25100	NSYSPMP40100			-	-	
NSYPMLA123	NSYPMLA124	-	-	-			NSYBGN12124HD	NSYBGN12126HD	
-	-	-	-	-			-	-	
-	-	-	-	-	1375	NSYTVR15	-	-	
-	-	-	NSYSPMP2575	-	-	-	NSYBGN1574HD	NSYBGN1576HD	
-	-	-	NSYSPMP25100	NSYSPMP40100			-	-	
-	-	-	-	-			NSYBGN15124HD	NSYBGN15126HD	
-	2 x NSYPMLA104	-	NSYSPMP2575	-	1875	2 x NSYTVR10	NSYBGN2074HD	-	
						<i>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.</i>			

Polyester floor-standing enclosures

Specific accessories

Installation accessories



Characteristics		Modular distribution chassis*					
		<ul style="list-style-type: none"> ■ 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 on a rigid structure. ■ Front plate: quick fixing without screws. ■ Distance between rail and front panel with adjustable depth from 40 to 85 mm. ■ System for identifying electrical circuits supplied. ■ Neutral/earth strip: 2 x 16 mm² + 5 x 6 mm² included in the standard offer. ■ Incompatibility with: cable-entry plate, internal door, door switch and door retainer (ref. NSYRETPLAU). 					
Material		<ul style="list-style-type: none"> ■ Rigid structure: galvanised-steel ■ Cover plates: self-extinguishing insulating 					
Colour		Cover plates: RAL 7035 grey					
For enclosure (mm)		No. of doors	No. of rows	Rows for module		No. of plates	References
Height (A)	Width (B)			No.	No. of 18-mm modules		
750	500	1	4	4	76	-	NSYDLP76G
		1	4	3	57	1	NSYDLP57G
	750	1	4	4	132	-	NSYDLP132G
		1	4	3	99	1	NSYDLP99G
	1000	2	4 + 4	4 + 4	152	-	2 x NSYDLP76G
		2	4 + 4	3 + 3	114	1 + 1	2 x NSYDLP57G
1250	2	4 + 4	4 + 4	208	-	NSYDLP76G + NSYDLP132G	
	2	4 + 4	3 + 3	156	1 + 1	NSYDLP57G + NSYDLP99G	
1000	500	1	6	6	114	-	NSYDLP114G
		1	6	5	95	1	NSYDLP95G
	750	1	6	6	198	-	NSYDLP198G
		1	6	5	165	1	NSYDLP165G
	1000	2	6 + 6	6 + 6	228	-	2 x NSYDLP114G
		2	6 + 6	5 + 5	190	1 + 1	2 x NSYDLP95G
	1250	2	6 + 6	6 + 6	312	-	NSYDLP114G + NSYDLP198G
		2	6 + 6	5 + 5	260	1 + 1	NSYDLP95G + NSYDLP165G
1250	500	1	7	7	133	-	NSYDLP133G
		1	7	6	114	1	NSYDLP114PG
	750	1	7	7	231	-	NSYDLP231G
		1	7	6	198	1	NSYDLP198PG
	1000	2	7 + 7	7 + 7	266	-	2 x NSYDLP133G
		2	7 + 7	6 + 6	228	1 + 1	2 x NSYDLP114PG
	1250	2	7 + 7	7 + 7	364	-	NSYDLP133G + NSYDLP231G
		2	7 + 7	6 + 6	312	1 + 1	NSYDLP114PG + NSYDLP198PG
1500	500	1	9	9	171	-	NSYDLP171G
		1	9	8	152	1	NSYDLP152G
	750	1	9	9	297	-	NSYDLP297G
		1	9	8	264	1	NSYDLP264G
	1000	2	9 + 9	9 + 9	342	-	2 x NSYDLP171G
		2	9 + 9	8 + 8	304	-	2 x NSYDLP152G
	1250	2	9 + 9	9 + 9	468	1 + 1	NSYDLP171G + NSYDLP297G
		2	9 + 9	8 + 8	416	1 + 1	NSYDLP152G + NSYDLP264G

* Other modular distribution accessories on page 202.

Polyester floor-standing enclosures

Specific accessories

PB502916-95

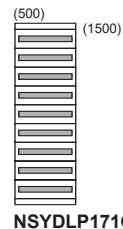
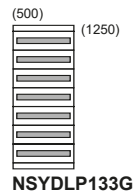
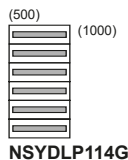
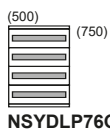


Installation accessories

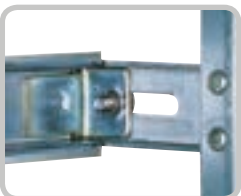
Dimensions

Modular distribution chassis

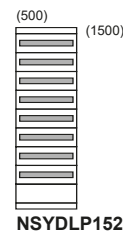
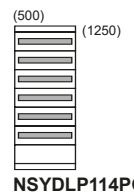
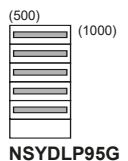
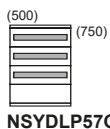
DB300860-71



PB501388-41



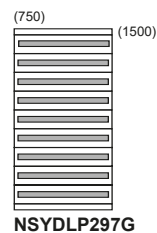
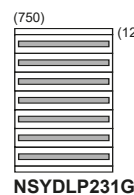
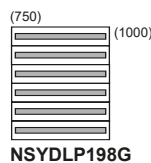
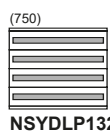
Details of the depth adjustment.



PB502919-37



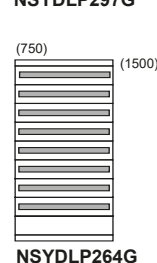
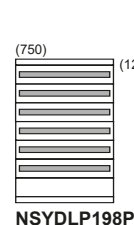
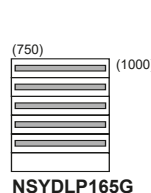
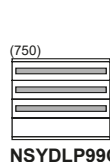
Detail from front-panel mounting.



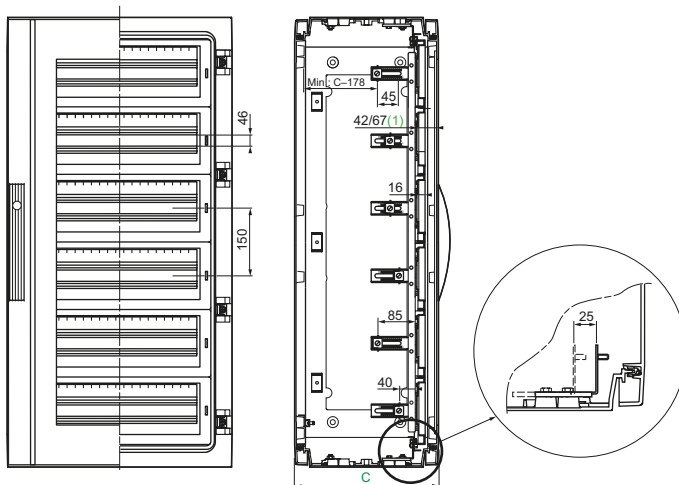
PB502920-32



Detail from the circuit-marking system.



DE300861-90



(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.

Warning: IP2X cannot be respected if it's mounted on 2nd boss (67 mm from the door).

Polyester floor-standing enclosures

Specific accessories

Installation accessories



Characteristics	Plain cover plate			Plain mounting plate		
	<ul style="list-style-type: none"> Plain cover plate for non-modular switchgear protection. Can be cutted out according to needs. 			<ul style="list-style-type: none"> Plate for fixing non-modular devices. Depth-adjustable fixing on the supports from 40 to 85 mm. 		
Material	<ul style="list-style-type: none"> Polystyrene (PS) (for 146 mm high) Fiberglass reinforced polyester (for 298 mm high) 			Galvanised steel 2 mm thick		
Colour	RAL 7035					
Supply	Order by multiples of 2 (2, 4, 6...)			Order by multiples of 2 (2, 4, 6...)		
For enclosure	Height	Thickness	References	Height	Thickness	References
Width (mm)	A (mm)	(mm)		A (mm)	(mm)	
500	146	2	NSYCTL500DLPG	149	2	NSYPMP500DLP
	298	4	NSYCTL500DLP2	298	2	NSYPMP5002DLP
750	146	2	NSYCTL750DLPG	149	2	NSYPMP750DLP
	298	4	NSYCTL750DLP2	298	2	NSYPMP7502DLP

Polyester floor-standing enclosures

Specific accessories

Installation accessories



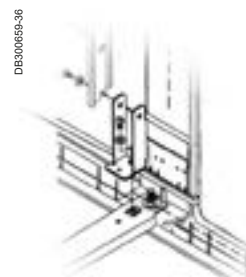
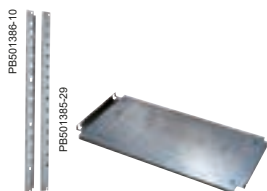
Characteristics		Step slides	Adapter plates
		<ul style="list-style-type: none"> ■ Set of 4 step slides with brackets allowing continuous depth adjustment of the mounting plate, with a pitch of 25 mm. ■ Designed for direct installation in the enclosures with sealed bottom part (versions PLA or PLAT). ■ In the enclosures with open bottom part (versions PLAZ or PLAZT), installation is made possible by adding the relevant adapter plates. ■ Incompatibility with: internal door, modular distribution chassis, 19" chassis, cableentry plate and door retainer, ref. NSYRETPLAU. 	<ul style="list-style-type: none"> ■ The enclosures with open bottom part (versions PLAZ and PLAZT) require a set of adapter plates for mounting: <ul style="list-style-type: none"> □ an internal door, □ step slides, □ modular chassis and 19" chassis. ■ NSYPTZ●●● for one door enclosures ■ NSYPTX●●● 2P for two door enclosures
Material		Bracket with steel M8 stud on aluminium rail	Galvanised steel
Fixing		Fixing on the top and bottom parts of the enclosure by means of M8 inserts and screws (supplied)	Fixing on the bottom part of the enclosure by means of M8 inserts and screws (supplied)
For enclosure (mm)		References	
Depth	No. of doors		
320	1	NSYDPLA3	NSYPTZ3
	2	2 x NSYDPLA3	NSYPTZ32P
420	1	NSYDPLA4	NSYPTZ4
	2	2 x NSYDPLA4	NSYPTZ42P
620	1	NSYDPLA6	NSYPTZ6
	2	2 x NSYDPLA6	NSYPTZ62P
		Installation of step slide ref. NSYDPLA●●●	
		Installation of step slide ref. NSYDPLA●●●, with adapter plate ref. NSYPTZ●●●	
		Additional support	
		Set of 4 additional brackets, to be slid into the step slides, for the installation of an additional mounting plate.	
		Reference NSYEDPLA	

(1) 57 mm with one transparent door.

Polyester floor-standing enclosures

Specific accessories

Installation accessories



Characteristics		Support plate		M8 inserts	Intermediate support in the 2-door enclosures
		<ul style="list-style-type: none"> Designed to support assorted equipment or simply to install a separation. In the 2-door enclosures, the installation of the plate or the uprights requires the prior installation of an intermediate support, ref. NSYSBPLA, presented beside. 		To be placed in the bosses moulded on the doors, uprights, rear panels and bottom and top parts, for fixing accessories and assorted devices.	Required accessory for installing support plates, ref. NSYBANPLA●●● or uprights, ref. NSYSPLA●●● in the 2-door enclosures.
Material		Galvanised steel		Brass	Galvanised steel
Installation		<ul style="list-style-type: none"> 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 		-	-
Supply		Delivered with the fixings required for installation		References by unit. Order by multiples of 8 units (8, 16, 24, etc.)	Two support kits
For enclosure (mm)		Upright			
Height	Depth	No. of adjustments	References	Reference	Reference
750	320	2	2 x NSYSPLA75	NSYTEX8	NSYSBPLA
	420				
1000	320	3	2 x NSYSPLA100		
	420				
1250	320	4	2 x NSYSPLA125		
1500	-	5	2 x NSYSPLA150*		
For enclosure (mm)		Plate			
Depth (C)	Width (B)	Max. load	References		
320	500	60 kg	NSYBANPLA53		
	750	60 kg	NSYBANPLA73		
420	500	50 kg	NSYBANPLA54		
	750	50 kg	NSYBANPLA74		
620	500	50 kg	NSYBANPLA56		
	750	50 kg	NSYBANPLA76		
		Upright 			
		Plate 			

(1) NSYSPLA75 ; (2) NSYSPLA100 ; (3) NSYSPLA125 ; (4) NSYSPLA150.

* Not compatible with NSYCAAPVHD.

Polyester floor-standing enclosures

Specific accessories

19" chassis

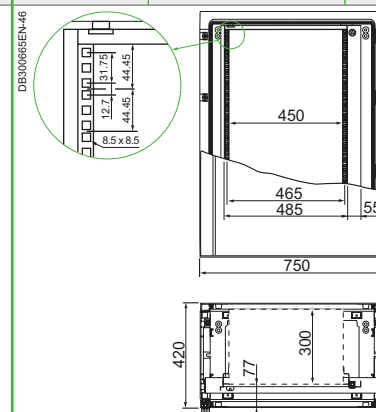
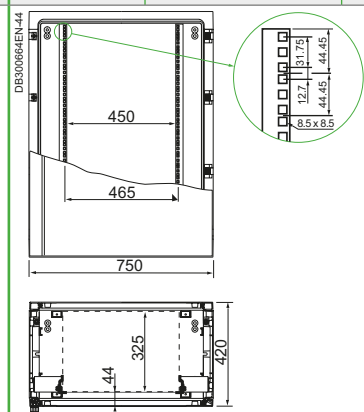


Enclosure with 19" fixed chassis.



Enclosure with 19" swing chassis.

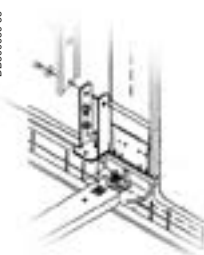
Characteristics		19" fixed chassis		19" swing chassis	
		<ul style="list-style-type: none"> Very sturdy 19" metal chassis, designed for installation in enclosures with a width of 750 and 1250 mm. In the 1250 mm enclosure, the chassis is installed in the 750 mm part with an intermediate support, ref. NSYSBPLA. These chassis can be used as partial mounting plates in enclosures with higher than nominal height. Incompatible with the internal doors and the step slides. Fixed chassis made up of 2 uprights with fixings. 		<ul style="list-style-type: none"> Swing chassis opening to 120° with 5 mm double-bar key lock. 	
Material		Galvanised steel		Galvanised steel	
Finish		Epoxy-polyester paint		Swing part: epoxy-polyester paint	
Colour		RAL 7035 grey		RAL 7035 grey (swing part only)	
Installation		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		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	
Maximum load		3 kg per U		3 kg per U	
For enclosure		Number of U	References	Number of U	References
Height (mm)	Width (mm)		19" fixed chassis Batch of 2 uprights		19" swing chassis Batch of 2 uprights
500	750	8	NSYBRF8PLAG -	7	NSYBRP7PLAG -
750	750	12	NSYBRF12PLAG NSYSPLA75	11	NSYBRP11PLAG NSYSPLA75
1000	750	17	NSYBRF17PLAG NSYSPLA100	16	NSYBRP16PLAG NSYSPLA100
1250	750	21	NSYBRF21PLAG NSYSPLA125	20	NSYBRP20PLAG NSYSPLA125
1500	750	26	NSYBRF26PLAG NSYSPLA150*	25	NSYBRP25PLAG NSYSPLA150
2000	750	2 X 17	2 x NSYBRF17PLAG + NSYPTZ4 2 x NSYSPLA100	2 x 16	2 x NSYBRP16PLAG 2 x NSYSPLA100



* Not compatible with NSYCAAPVHD.

[!] Recommendation

DB500669-33



Intermediate support

Accessory required for installing uprights, ref. **NSYSPLA...**

- Only for two door enclosures.
- Supply: 1 (including 2 supports)

Reference

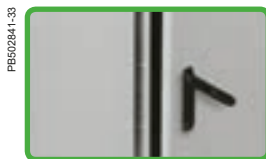
NSYSBPLA

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.



Smart

Enclosure ref. **NSYPLD8122G** with the central upright fixed to the left door.

Enclosure ref. **NSYPLD8122CG** with central upright, 2 doors and 2 locks.



Prolonged exposure to UV radiation, wind and rain can cause aesthetics changes in the external surface of the enclosure. Without affecting the technical properties according to IEC 62208. For long exposure applications, it is recommended to use coloured enclosures available through the P&S offer.

LV public distribution application with DIN three-pole fuse blocks: floor-standing enclosure and plinth



This range can be configured according to your needs

4 different services available:



Assemble to order



Mounting of standard accessories



Painting



Machining

See page 496 for details or consult our web site www.se.com

The customized solutions Configured or Specific types use existing ranges from Universal Enclosures standard offer as a base for its development. Depending on the modifications made on the enclosures or accessories, they could affect the certification or declarations of conformity existing in the standard ranges. The certifications and declarations of conformity needed for the solution must be defined early in the process as part of the offer specifications.

Polyester DIN floor-standing enclosure

Characteristics

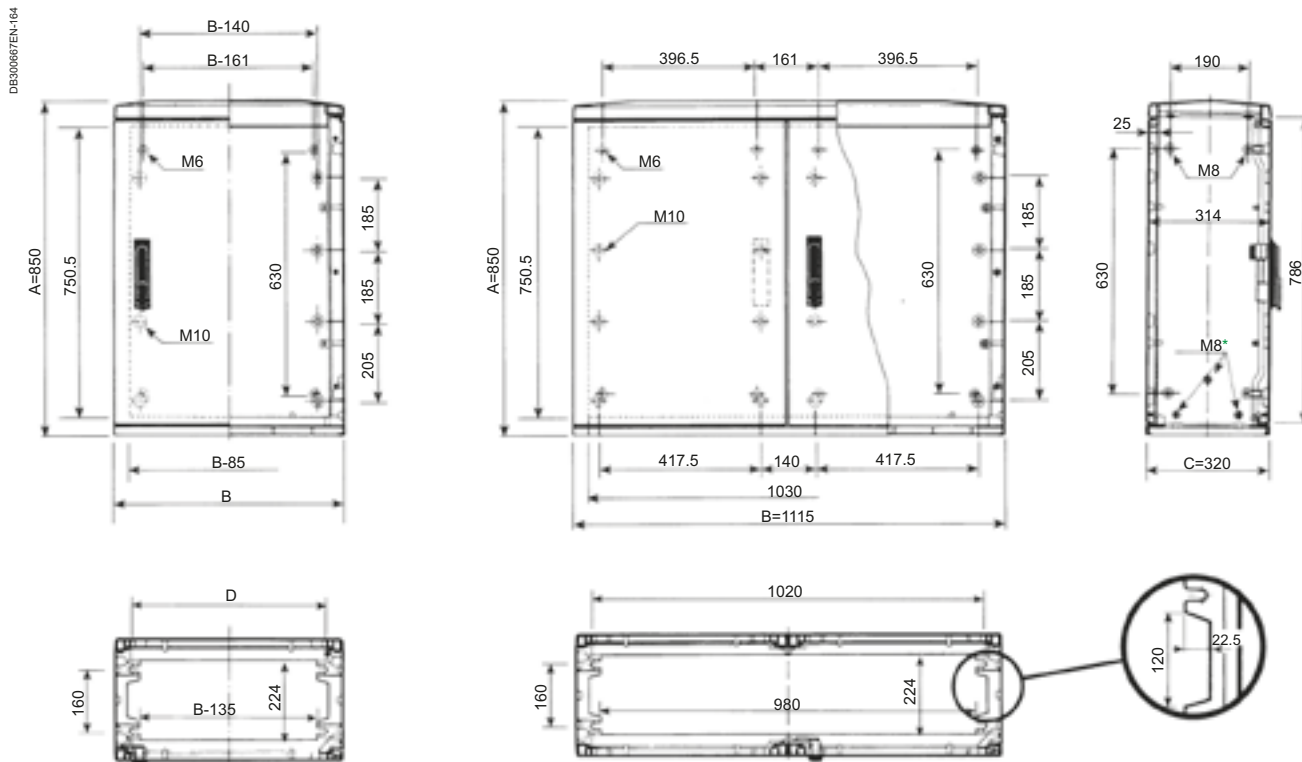


Characteristics			Thalassa PLD			
			<ul style="list-style-type: none"> ■ Floor-standing enclosure with built-in canopy, not overhanging, allowing the coupling of enclosures side-to-side or back-to-back. ■ Easily removable inner hinges, allowing the door to be reversed and to open to more than 180°. ■ 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 210). ■ 2-door floor-standing enclosure with central upright: <ul style="list-style-type: none"> <input type="checkbox"/> central upright fixed to the enclosure and removable: one lock on each door, <input type="checkbox"/> central upright 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. 			
Material			Polyester reinforced with fibreglass			
Colour			RAL 7035 grey			
Ingress protection rating			IP43 according to IEC 60529 (IP54 with sealing kit, see page 210)			
Mechanical protection rating			IK10			
Installation			<ul style="list-style-type: none"> ■ Outdoor installation: compliant with IEC 62208 ■ Direct fixing to the floor or on a plinth, with a height of 900 mm, partially embedded ■ Fixing points at the rear of the enclosure with: <ul style="list-style-type: none"> <input type="checkbox"/> M10 inserts: for installing, direct or on insulators, distribution bars for DIN-type three-pole fuse-holder strips and for a neutral bar <input type="checkbox"/> M6 inserts: for installing a mounting plate 			
Height (mm)	Width (B) (mm)	Depth (mm)	Size DIN	No. of doors	No. of locks	References
850	465	320	00	1	1	NSYPLD8500G
850	590	320	0	1	1	NSYPLD860G
850	785	320	1	1	1	NSYPLD881G
850	1115	320	2	2	1	NSYPLD8122G
850	1115	320	2	2	2	NSYPLD8122CG

Polyester DIN floor-standing enclosure

Dimensions

Floor-standing enclosures

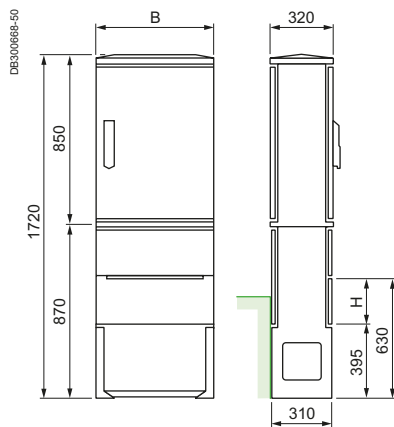


* Bosses for M8 inserts, ref. NSYTEPLDM8 (to be ordered in multiples of 25).

B (mm)	D** (mm)	References
465	360	NSYPLD8500G
590	495	NSYPLD860G
785	690	NSYPLD881G
1115	1020	NSYPLD8122G

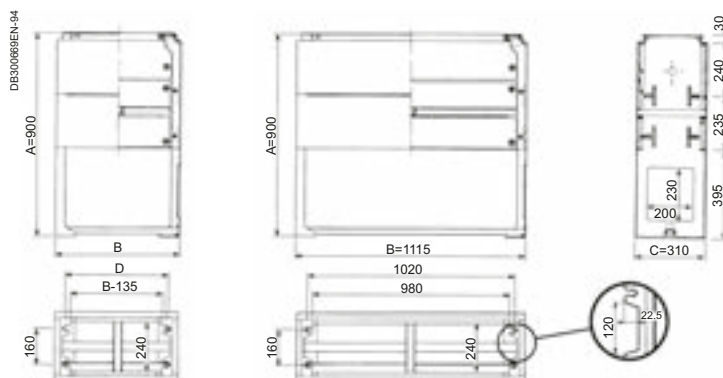
** Distance between the points for fixing the enclosure to the plinth.

Floor-standing enclosure plus plinth



The H dimension relates to the finished floor height.

Plinths



Polyester DIN floor-standing enclosure

Specific accessories

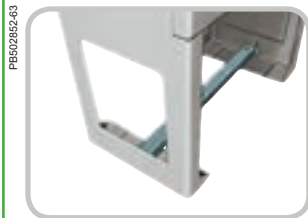
Base accessories



Characteristics		Plinth height 900 mm	Floor-standing supports			
		<ul style="list-style-type: none"> 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. 	Set of 2 metal supports for fixing the enclosure directly to the floor.			
Material		Polyester reinforced with fibreglass	Galvanised steel			
Colour		RAL 7035 grey	-			
For floor-standing enclosure			Table of fixing and opening dimensions			
Width (mm)	References		K	L	M	Reference
465	NSYPLD8500G	NSYZD5300G	360	320	224	NSYSPLD
590	NSYPLD860G	NSYZD630G	495	455	224	
785	NSYPLD881G	NSYZD831G	690	650	224	
1115	NSYPLD8122G and NSYPLD8122CG	NSYZD1232G	1020	980	224	



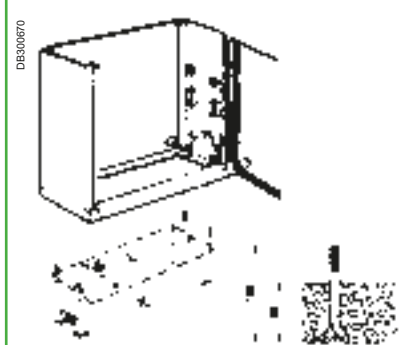
Knock-out Pg 36 auxiliary outlet.



Lateral knock-out is removed.



Removable top front panel (not hinged).



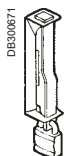
Polyester DIN floor-standing enclosure

Specific accessories

Locking system



Characteristics	Locks																								
	Standard lock with retractable plastic handle and 1242 E semi-cylindrical safety lock.																								
Options	Other optional shape inserts or barrels and keys																								
Options																									
	<table border="1"> <thead> <tr> <th colspan="2">Inserts for optional change</th> </tr> <tr> <th>Name</th> <th>References</th> </tr> </thead> <tbody> <tr> <td>5-mm double bar</td> <td>NSYTDB5ME</td> </tr> <tr> <td>6-mm male square</td> <td>NSYTC6ME</td> </tr> <tr> <td>7-mm male square</td> <td>NSYTC7ME</td> </tr> <tr> <td>8-mm male square</td> <td>NSYTC8ME</td> </tr> <tr> <td>6.5-mm male triangle</td> <td>NSYTT6ME</td> </tr> <tr> <td>8-mm male triangle</td> <td>NSYTT8ME</td> </tr> <tr> <td>Barrel and key 405</td> <td>NSYTCL405ME</td> </tr> <tr> <td>Barrel and key 1242E</td> <td>NSYTL1242EME</td> </tr> <tr> <td>Reinforced semi-cylindrical barrel and key</td> <td>NSYTLRME</td> </tr> <tr> <td>JIS key and barrel</td> <td>NSYTLJISME</td> </tr> </tbody> </table>	Inserts for optional change		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	Barrel and key 1242E	NSYTL1242EME	Reinforced semi-cylindrical barrel and key	NSYTLRME	JIS key and barrel	NSYTLJISME
Inserts for optional change																									
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																								
Barrel and key 1242E	NSYTL1242EME																								
Reinforced semi-cylindrical barrel and key	NSYTLRME																								
JIS key and barrel	NSYTLJISME																								



Padlocking accessory

- **Description:** padlocking system, for Ø 9 mm padlock, preventing access to the handle.
- **Material:** stainless steel.

Reference

NSYBCME

Other accessories

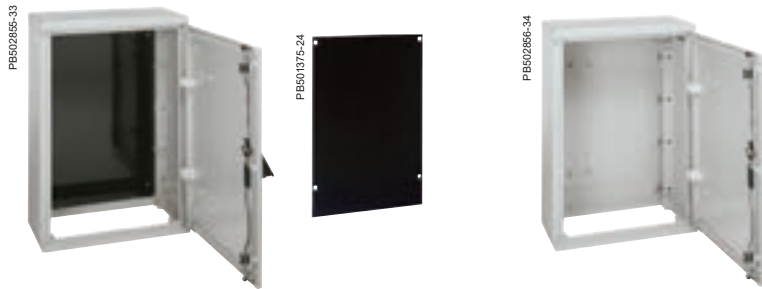


Characteristics	IP54 sealing kit	Renovation and anti-graffiti paint	
	<ul style="list-style-type: none"> ■ Placed directly on the door and on the rear of the enclosure. ■ Seal made from black synthetic rubber. 	2-components paint system, specially formulated for polyester enclosures. Renews enclosures and allows easy removal of graffiti. Paint composed of: base (80%) and hardener (20%).	
Color	-	RAL 7035 grey	
Ingress protection rating	IP54	-	
Supply		1 kg: <input type="checkbox"/> 800 g tin of base paint <input type="checkbox"/> 200 g tin of hardener (coverage = 5 m ²)	5 kg: <input type="checkbox"/> 4 kg tin of base paint <input type="checkbox"/> 1 kg tin of hardener (coverage = 25 m ²)
			1 kg
			Solvent bottles to be used as a paint thinner or to clean brushes.
For floor-standing enclosure	References	References	
Width (mm)			
465	NSYJED8500	NSYAUPG1G	NSYAUPG5G
590	NSYJED860		NSYAUPGS
785	NSYJED881		
1115	NSYJED8122		

Polyester DIN floor-standing enclosure

Specific accessories

Mounting accessories



Characteristics	Insulating mounting plate	Lateral uprights for busbars
	It is placed directly on the rear of the enclosure.	<ul style="list-style-type: none"> ■ 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.
Material	Insulating material, bakelite	Polyester reinforced with fibreglass
Colour	Black	RAL 7035 grey
Thickness	4 mm	-
For floor-standing enclosure	D (mm) E (mm) Maximum load (kg) References	Reference
Width (mm)		
465	356 304 19 NSYAPLD85	NSYBPLDNG
590	481 429 27 NSYAPLD86	
785	676 624 39 NSYAPLD88	
1115	448.5 396.5 2 x 24 NSYAPLD812*	

* The reference includes 2 mounting plates with the dimensions of the table.

Accessories

Accessories Contents

 <p>PB500072-12</p>  <p>PB500022-18</p>	Mounting 214
 <p>PB500023-24</p>  <p>PB5000218-32</p> 	Cable management 250
 <p>PB501890-18</p>	Terminal blocks 274
 <p>PB503389-36</p>	Lighting and power socket 276
 <p>PB500576-30</p>	Floor accessories 279
 <p>PB500188-35</p>  <p>PB50023-27</p>	Door accessories 280
 <p>PB500084-19</p>  <p>PB500217-21</p>	Other accessories 285

Mounting

Mounting plates for wall-mounting enclosures

S3D

S3X

PLM

PB50072-13



PB500100-13



PB500101-18



PB500102-18



Characteristics	Mounting plates					Telequick mounting plate**					
	Plain		Silkscreened		Microperforated**						
			Silkscreened for easier distribution of the products to be installed. Centimetric grid pattern.		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.	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.					
Material	Galvanised-steel		Galvanised-steel		Galvanised-steel	Zinc-coated-steel					
Colour	-		-		-	-					
Maximum load	PLM: 150 kg/m ² S3D, S3X, CRN, CRNG: 250 kg/m ²					PLM: 150 kg/m ² S3D, S3X, CRN and CRNG: 250 kg/m ²					
Supply	1 mounting plate without fixing elements					1 mounting plate without fixing elements					
For enclosures (mm)	Dimensions (mm)		References		References	Dimensions (mm)		No. of perforations in		References	
	Height	Width	H	W		H	W	H	W		
200	200	150	150	NSYMM22	-	-	-	-	-	-	
	300	150	250	NSYMM23	-	-	-	-	-	-	
250	200	200	150	NSYMM2520	-	-	-	-	-	-	
	300	250	200	NSYMM3025	-	-	-	-	-	-	
	400	200	350	NSYMM2540	-	-	-	-	-	-	
500	200	200	450	NSYMM2550	-	-	-	-	-	-	
	300	250	150	NSYMM32	-	NSYMF32	255	153.7	16	5	NSYMR32
300	250	250	200	NSYMM3025*	-	-	253	228	16	8	NSYMR3025
	300	250	250	NSYMM33	-	NSYMF33	255	251	16	9	NSYMR33
	400	250	350	NSYMM43*	NSYMS43*	NSYMF43*	255	351	18	11	NSYMR34
	450	250	400	NSYMM3045	-	-	-	-	-	-	-
	500	450	250	NSYMM53*	-	-	-	-	-	-	-
	600	250	550	NSYMM36	-	-	-	-	-	-	-
	400	300	230	350	NSYMM43*	NSYMS43	NSYMF43	348.7	251	22	9
400	400	350	350	NSYMM44	NSYMS44	NSYMF44	345	351	24	11	NSYMR44
	600	350	550	NSYMM64*	NSYMS64*	-	345	551	24	19	NSYMR46
	800	350	750	NSYMM48	-	-	-	-	-	-	-
500	300	450	250	NSYMM53*	NSYMS53*	NSYMF53	453.7	251	29	9	NSYMR53
	400	450	350	NSYMM54	NSYMS54	NSYMF54	450	351	31	11	NSYMR54
	500	450	450	NSYMM55*	NSYMS55*	NSYMF55	450	451	31	14	NSYMR55
	600	550	450	NSYMM65	-	-	-	-	-	-	-
600	400	550	350	NSYMM64	NSYMS64	NSYMF64*	555	351	38	11	NSYMR64
	500	550	450	NSYMM65	-	NSYMF65	555	451	38	14	NSYMR65
	600	550	550	NSYMM66	NSYMS66	NSYMF66	555	551	38	17	NSYMR66
	800	-	-	-	-	-	551	750	36	24	NSYMR68
	1000	-	-	-	-	-	-	-	-	-	-
1200	-	-	-	-	-	-	-	-	-	-	
700	500	650	450	NSYMM75	NSYMS75	NSYMF75	645	451	44	14	NSYMR75
	600	650	550	NSYMM76	-	-	645	551	44	17	NSYMR76
800	600	750	550	NSYMM86*	NSYMS86*	NSYMF86*	750	551	51	17	NSYMR86
	800	750	750	NSYMM88	-	NSYMF88	750	751	51	24	NSYMR88
	1000	-	-	NSYMM108	-	NSYMF108	751	951	49	31	NSYMR810
	1200	-	-	NSYMM128	-	NSYMF128	-	-	-	-	2 x NSYMR86
1000	600	950	550	NSYMM106	-	NSYMF106	945	551	64	17	NSYMR106
	800	950	750	NSYMM108*	-	NSYMF108*	945	751	64	24	NSYMR108
	1000	950	950	NSYMM1010	-	NSYMF1010	945	951	62	31	NSYMR1010
	1200	-	-	-	-	-	951	1151	62	37	NSYMR1012
1200	600	1150	550	NSYMM126	-	NSYMF126	1145	551	75	17	NSYMR126
	800	1150	750	NSYMM128*	-	NSYMF128	1145	751	75	24	NSYMR128
	1000	1150	950	NSYMM1210*	-	NSYMF1210*	1145	951	75	31	NSYMR1210
	1200	1150	1150	NSYMM1212	-	2 x NSYMF126	-	-	-	-	2 x NSYMR126
1400	1000	1350	950	NSYMM1410	-	-	1345	951	88	31	NSYMR1410

* 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 or H 400 x W 600 mm.

For plain and silkscreened mounting plates: 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 NSYSRSDCR*** (more information on page 218).

Mounting

Mounting plates for wall-mounting enclosures

PB500103-11



PB500151SE-15



PB500104-18



Characteristics		Bakelite mounting plate**				Polyester mounting plate**				DIN-rail chassis		
		<ul style="list-style-type: none"> 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 two plates. 								Components supplied with a DIN-rail chassis: <ul style="list-style-type: none"> 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. 		
Material		Bakelite				Polyester reinforced with fibreglass				Aluminum and zinc-coated steel		
Colour		RAL 9005 black				RAL 7035 grey				-		
Maximum load		100 kg/m ²				150 kg/m ²				-		
Supply		1 mounting plate without fixing elements				1 mounting plate and fixing elements				1 DIN-rail chassis		
For enclosures (mm)		Dimensions (mm)		Thick. (mm)	References	Dimensions (mm)		Thick. (mm)	References	Type of rails	No. of rails	References
Height	Width	H (P)	W (S)			H (P)	W (S)					
300	200	265	150	4	NSYMB32	265	150	4	NSYMPP32	-	-	-
	250	265	200	4	NSYMB3025	265	200	4	NSYMPP3025	-	-	-
	300	265	250	4	NSYMB33	-	-	-	-	B	4	NSYMD33
400	300	325	250	4	NSYMB43	325	250	4	NSYMPP43	B	4	NSYMD43
500	400	465	350	4	NSYMB54	465	350	4	NSYMPP54	B	4	NSYMD54
600	400	565	350	4	NSYMB64	565	350	4	NSYMPP64	B	6	NSYMD64
	500	565	450	4	NSYMB65	-	-	-	-	-	-	-
	600	-	-	-	-	-	-	-	-	A	6	NSYMD66
700	500	665	450	4	NSYMB75	665	450	4	NSYMPP75	B	6	NSYMD75
800	600	765	550	4	NSYMB86	765	550	5	NSYMPP86	A	6	NSYMD86
	1000	-	-	-	NSYMB108	-	-	-	-	-	-	-
	1200	-	-	-	2 x NSYMB86	-	-	-	-	-	-	2 x NSYMD86
1000	600	965	550	4	NSYMB106	-	-	-	-	-	-	-
	800	965	750	4	NSYMB108	965	750	5	NSYMPP108	A	6	NSYMD108
1200	800	-	-	-	-	-	-	-	-	A	7	NSYMD128
	1000	1150	950	4	NSYMB1210	-	-	-	-	-	-	-

** To install two mounting plates in a single enclosure, also order reference **NSYCRNGSDR**. See details on page 218.
To install the plate in an enclosure with 6 studs, also order reference **NSYEMR**.

DB300754-7



Characteristics		Joinable Telequick mounting plate			
		20/10° mm Telequick mounting plates. These mounting plates are suitable for mounting vertically multiple plates. 11 x 26 mm slots. Switchgear fixing by clip-on nuts.			
Material		Zinc-coated steel			
Supply		1 mounting plate and fixing elements			
For enclosures (mm)		Dimensions (mm)		References	
Height	Width	H	W		
60	700	120	734	AM1PA0670	
120	700	180	734	AM1PA1270	
300	150	349	228	AM1PA3015	
	195	349	258	AM1PA3020	
	500	360	534	AM1PA3050	
	700	360	734	AM1PA3070	
405	300	465	334	AM1PA4030	
600	400	660	434	AM1PA6040	
	500	660	534	AM1PA6050	
	600	660	634	AM1PA6060	
	700	660	734	AM1PA6070	
705	500	765	534	AM1PA7050	
795	600	855	634	AM1PA8060	
900	500	960	534	AM1PA9050	
	600	960	634	AM1PA9060	
	700	960	734	AM1PA9070	

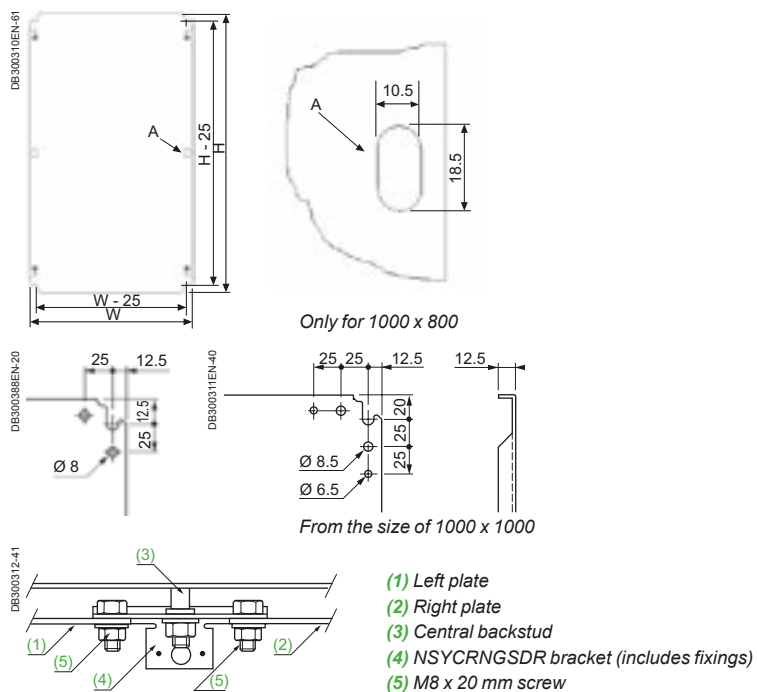
Mounting

Mounting plates for wall-mounting enclosures

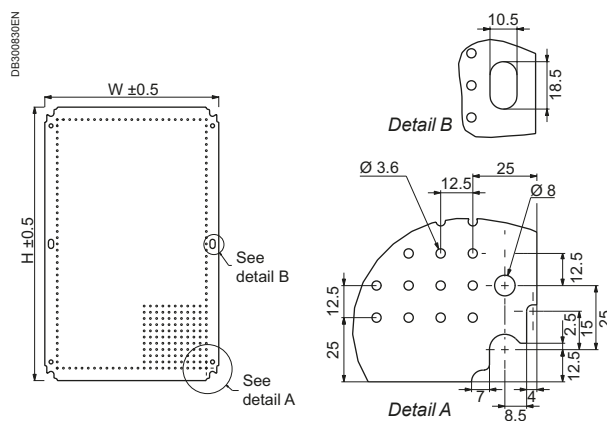
S3D S3X PLM

Dimensions

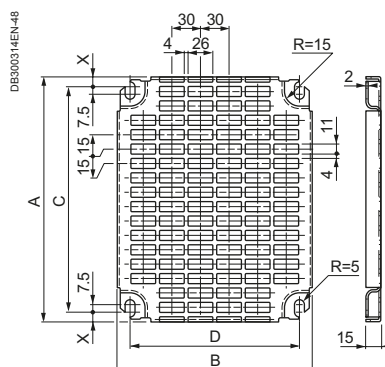
Plain and silkscreened mounting plates



Microperforated mounting plate



Telequick mounting plate



Mounting

Step slides for wall-mounting enclosures

S3D S3X



Characteristics	Step slides for mounting plate	Step slides for 2 mounting plates in one enclosure	Slide bracket for 2 mounting plates at different depths
	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.	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.	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	4 step slides	2 step slides	2 slide brackets
For enclosure	References		
Depth (mm)			
200	NSYSDCR200	-	NSYCRNGSDR
250	NSYSDCR250	-	
300	NSYSDCR300	NSYSDRSDCR300*	
400	NSYSDCR400	NSYSDRSDCR400*	
	 	 <p>(1) Left plate (2) Right plate (3) Central backstud (4) NSYCRNGSDR bracket (includes fixings) (5) NSYSDRSDCR slide bracket (6) M8 x 20 mm screw</p>	

* Not applicable for stainless steel enclosures.

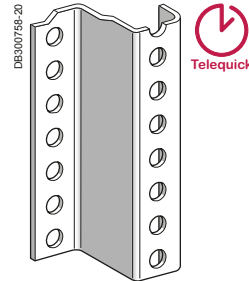
Mounting

Vertical rails for wall-mounting enclosures

S3D S3X PLM PLA



S3D S3X PLM



Characteristics	Aluminium vertical rails			20/10° mm zinc-coated pre-drilled uprights	
Supply	Fixing in the enclosure with M8 nuts, ref. NSYAMCSF (batch of 4 adapters to be ordered separately).			Ø 11 mm holes enable to adjust the rows of equipment by 20 mm steps.	
Height (a) (mm)	Material	Supply (units)	References	Weight (g)	References
300	Aluminium	10	NSYMDVR3	-	-
400	Aluminium	10	NSYMDVR4	-	-
500	Aluminium	10	NSYMDVR5	-	-
600	Aluminium	10	NSYMDVR6	-	-
700	Aluminium	10	NSYMDVR7	-	-
800	Aluminium	10	NSYMDVR8	-	-
1000	Aluminium	10	NSYMDVR10	-	-
1020	-	-	-	2330	DZ6MZ121
1200	Steel	2	NSYMDVR12	-	-
1320	-	-	-	2920	DZ6MZ151
1620	-	-	-	3375	DZ6MZ181
1920	-	-	-	4000	DZ6MZ211
3000 (3 m)	Aluminium	10	NSYMDVR3M	-	-

Sliding Nuts

Sliding nuts to be used on aluminium vertical rails.

Type	Supply (units)	References
M4	100	NSYNM4
M5	100	NSYNM5
M6	100	NSYNM6

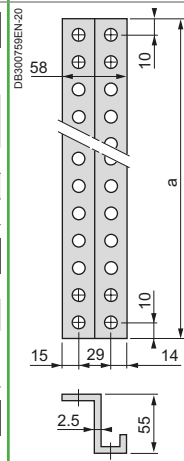
Brass nuts to fix the upright to the enclosures

Supply: 4.
Reference: **NSYAMCSF**

Slides and brackets

They allow the depth of the plates and rails to be adjusted.
Supply: 10 units. References per unit. To be ordered in multiples of 10 (10, 20, 30, etc.).

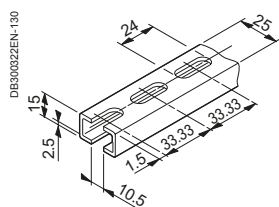
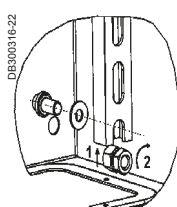
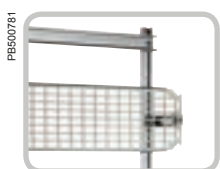
Type	References
90-mm slide with bracket for enclosures with depths of 150 and 200 mm	NSYSB90
130-mm slide with bracket for enclosures with depths of 250 and 300 mm	NSYSB130
Bracket for slides (customised mounting plate)	NSYFB



Notched clamp nuts

Specially designed for pre-drilled uprights.
Supply: 100 units. Reference by unit. Order by multiples of 100 (100, 200, 300...).

Type	Weight (g)	References
M6	7.0	DZ5MF6
M8	8.0	DZ5MF8



Ref. **NSYAMCSF**

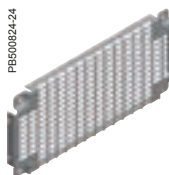
Mounting

Mounting plates for floor-standing enclosures

PB500A77-12



PB500B24-24



PB500B07-24



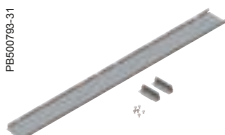
Characteristics	Plain mounting plate		Perforated mounting plate Telequick					Partial mounting plate				
	<ul style="list-style-type: none"> Depth adjustable with a pitch of 25 mm, provided with plastic shoe for easier sliding. Once the plate is fixed, in advanced position, the sliding shoe can be easily removed, to increase the available plate surface. 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 221). Load: 300 kg/ m² 		<ul style="list-style-type: none"> Allows the installation of switchgear without drilling or screwing. Plate designed for quick fixing of switchgear by means of clip-on nuts ref. AF1EA3 to AF1EA6. 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. Load: 150 kg/m² 					<ul style="list-style-type: none"> Partial mounting plate, provided with reinforcement flange on its four sides. Load: 250 kg/m² 				
Material	Galvanised steel		Zinc-coated steel					Galvanised steel				
Fixing	Fixing options: <ul style="list-style-type: none"> At the sides of the enclosure with the orthogonal brackets (see page 223) Back-to-back, with the brackets for fixing the mounting plates in back-to-back position (see page 224) 		Fixing options: <ul style="list-style-type: none"> 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 227; to standard uprights by means of flat nuts, page 227 or self-tapping screws, and to cross rails 					Fixing options: <ul style="list-style-type: none"> Spacial SF, SFX: <ul style="list-style-type: none"> Fixing to the vertical uprights of the structure Fixing to the technical or standard vertical uprights, see page 227 For installations in advanced position, fixing to cross-rails, see page 231 Spacial SM: <ul style="list-style-type: none"> 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 231 				
Maximum load	600 kg in the back of the enclosure and 500 kg in the intermediate position		-					-				
Supply	One mounting plate and sliding shoes		One perforated mounting plate and fixing elements for technical uprights and screws for fixing to the structure or cross rails					Partial mounting plate and fixing elements				
Dimensions (mm)	Dimensions (mm)	References	Plate height (mm)				Useful surface (dm ²)	References	Plate height (mm)	Plate length (mm)	References	
	Height (A)		D	E	F	G			H	B-100		
400	1200	NSYMP124	-						247	300	NSYSPMP2540	
New	1400	NSYMP144	-						397	300	NSYSPMP4040	
	1600	NSYMP164	-						597	300	NSYSPMP6040	
	1800	NSYMP184	-									
	2000	NSYMP204	-									
	2200	NSYMP224	-									
600	1200	NSYMP126	450	200	-	100	11.4	NSYSTMP2260	247	500	NSYSPMP2560	
	1400	NSYMP146	450	425	-	325	22.8	NSYSTMP4560	247	750	NSYSPMP2575	
	1600	NSYMP166	450	575	125	475	30.4	NSYSTMP6060	397	500	NSYSPMP4060	
	1800	NSYMP186	450	800	250	700	11.9	NSYSTMP8260	597	500	NSYSPMP6060	
	2000	NSYMP206	-									
	2200	NSYMP226	-									
800	1200	NSYMP128	650	200	-	100	15.9	NSYSTMP2280	247	700	NSYSPMP2580	
	1400	NSYMP148	650	425	-	325	31.8	NSYSTMP4580	397	700	NSYSPMP4080	
	1600	NSYMP168	650	575	125	475	42.4	NSYSTMP6080	597	700	NSYSPMP6080	
	1800	NSYMP188	650	800	250	700	58.4	NSYSTMP8280				
	2000	NSYMP208	-									
	2200	NSYMP228	-									
1000	1200	NSYMP1210	850	200	-	100	20.4	NSYSTMP22100	247	900	NSYSPMP25100	
	1400	NSYMP1410	850	425	-	325	40.8	NSYSTMP45100	397	900	NSYSPMP40100	
	1600	NSYMP1610	850	575	125	475	54.4	NSYSTMP60100	597	900	NSYSPMP60100	
	1800	NSYMP1810	850	800	250	700	74.9	NSYSTMP82100				
	2000	NSYMP2010	-									
	2200	NSYMP2210	-									
1200	1200	NSYMP1212	1050	200	-	100	24.9	NSYSTMP22120	247	1100	NSYSPMP25120	
	1400	NSYMP1412	1050	425	-	325	49.9	NSYSTMP45120	397	1100	NSYSPMP40120	
	1600	NSYMP1612	1050	575	125	475	66.5	NSYSTMP60120	597	1100	NSYSPMP60120	
	1800	NSYMP1812	1050	800	250	700	91.5	NSYSTMP82120				
	2000	NSYMP2012	-									
	2200	NSYMP2212	-									
1600	1800	NSYMP1816	Order two 800-mm plates							397	1100	NSYSPMP40160
	2000	NSYMP2016										

Mounting

Mounting plates for floor-standing enclosures



PB500783-31



PB500784-24



PB500786-22

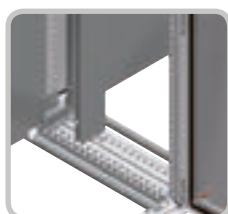


PB500788-29



Characteristics	Intermediate mounting plate	Intermediate fixing of the mounting plate, located in the back of the enclosure	Intermediate fixing of the mounting plate, in advanced position	Reinforcement for mounting plate
	<ul style="list-style-type: none"> Obtains 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. 	<ul style="list-style-type: none"> 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. 	<ul style="list-style-type: none"> 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. 	<ul style="list-style-type: none"> Reinforcement kit for transversal mounting plate. Provides extra rigidity to the mounting plates and absorbs vibrations. Can be used as a reinforcement to give more robustness.
Material	Galvanised steel	Zinc-coated steel	Zinc-coated steel	Zinc-coated steel
Thickness	-	-	-	15/10° mm
Fixing	-	<ul style="list-style-type: none"> 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 231 	The supports are mounted on light cross rails or on 40-mm (1 row) universal or quick-fixing cross rails (not supplied), see page 231	-
Supply	One intermediate plate and fixing elements	Ten units and fixing elements. Reference by unit. Order by multiples of 10 (10, 20, 30...)	Ten units and fixing elements. Reference by unit. Order by multiples of 10 (10, 20, 30...)	Two profiles, four supports for fixing to the mounting plate and fixing elements
Dimensions (mm)		References		
Height (A)	Width (B)			
1200	-	NSYSIMP12	NSYSMPFB	NSYSMPFA
1400	-	NSYSIMP14		
1600	-	NSYSIMP16		
1800	-	NSYSIMP18		
2000	-	NSYSIMP20		
2200	-	NSYSIMP22		
-	800	-		NSYMPRK8
-	1000	-		NSYMPRK10
-	1200	-		NSYMPRK12
-	1600	-		NSYMPRK16

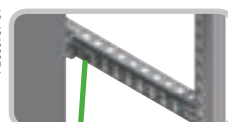
PB500794-33



PB500785-26



PB500787-34



Mounting plate accessories

Self-tapping screw

PB500808



- Hexagonal head, 4.8 x 16 mm thread. Drilling capacity: thicknesses between 17.5/10° and 40/10° mm.
- Supply:** 100 units. To be ordered in multiples of 100 (100, 200, 300, etc.).

Reference

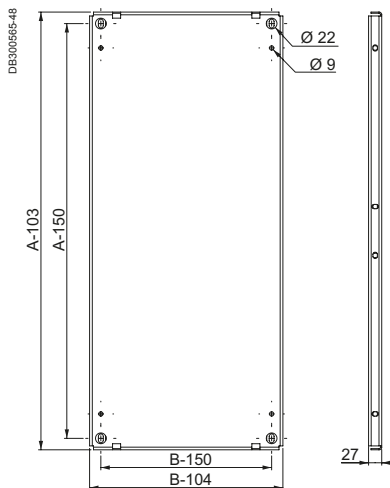
NSYS16M5HS

Mounting

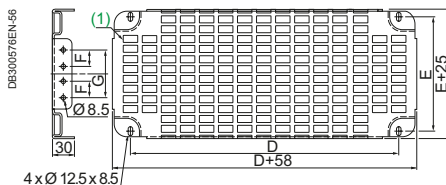
Mounting plates for floor-standing enclosures

Dimensions

Plain mounting plate



Perforated mounting plate Telequick



(1) Cut-outs 11 x 26 with a pitch of 15 x 30.



Examples of perforated mounting plate installation

PB500825-19



Perforated plate mounted on structure.

PB500826-23



Perforated plate mounted on technical vertical uprights.

PB500827-23



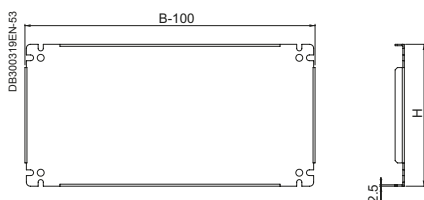
Perforated plate mounted on standard vertical uprights.

PB500828-22

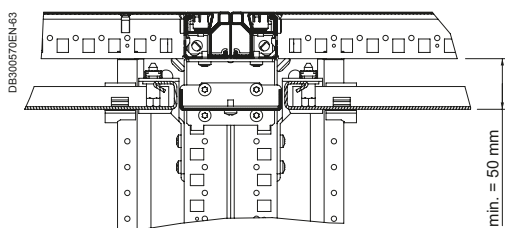


Perforated plate mounted on cross rails.

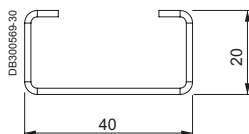
Partial mounting plate



Intermediate mounting plate

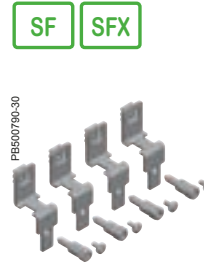
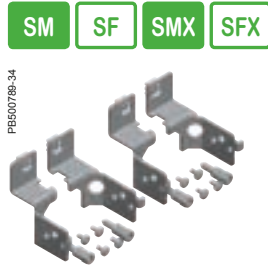


Reinforcement for mounting plate

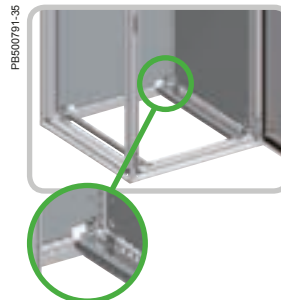


Mounting

Mounting plate brackets for floor-standing enclosures



Characteristics	Mounting plate fixing brackets	Orthogonal brackets
	<ul style="list-style-type: none"> For direct mounting on the structure of the enclosure. Adjustable depth with a pitch of 25 mm. 	<ul style="list-style-type: none"> 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. Spacial SFX: in order to mount the lateral mounting plate is necessary to remove the one on the back and its fixing brackets.
Material	Zinc-coated steel	Zinc-coated steel
Maximum load	4 brackets: 600 kg	4 brackets: 600 kg
Supply	Four brackets and fixing elements	Four brackets and fixing elements
References		
	Spacial SF	Spacial SM, Spacial SFX, Spacial SMX
	NSYSFPB	NSYSMPB
		NSYSMPSB



Mounting

Mounting plate brackets for floor-standing enclosures

SF

PB502804-48



SF

PB500795-34



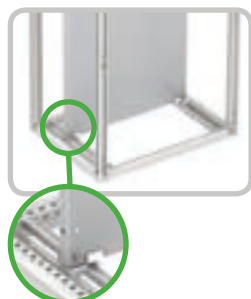
SF SFX

PB500797-30

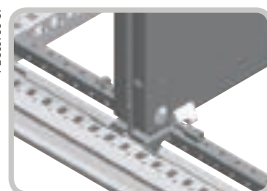


Characteristics	Mounting plate sliding rails	Brackets for fixing mounting plates in back-to-back position	Brackets for fixing intermediate mounting plates in back-to-back position
	<ul style="list-style-type: none"> ■ Rails which the mounting plate slides along when inserted in the enclosure. ■ Once 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. 	<ul style="list-style-type: none"> ■ Doubling the mounting surface. ■ Adjustable with a pitch of 25 mm. 	<ul style="list-style-type: none"> ■ Doubling the mounting surface. ■ Adjustable with a pitch of 25 mm.
Material	Zinc-coated steel	Zinc-coated steel	Zinc-coated steel
Supply	Two rails and fixing elements	Four brackets for fixing back-to-back and fixing elements	2 brackets for fixing intermediate plates back-to-back and fixing elements
References			
	Depth (mm)		
	400	NSYSMPS4	NSYSIBTB
	500	NSYSMPS5	
	600	NSYSMPS6	
	800	NSYSMPS8	
		<p>C: Enclosure depth.</p>	<p>C: Enclosure depth.</p>

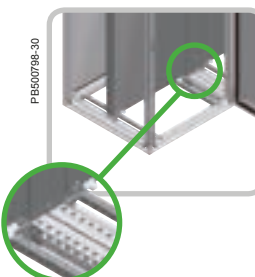
PB502803-32



PB500796-37



PB500798-30



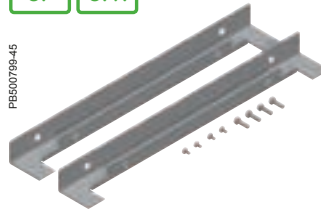
Mounting

Mounting rails for floor-standing enclosures

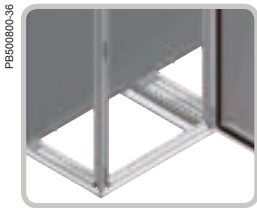
New

SF SFX

PBS00799-45



Characteristics	Side entry rails for mounting plates
	<ul style="list-style-type: none"> ■ 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 (top and bottom) and fixing elements
Dimensions (mm)	References
Width (B)	
600	NSYSMPSE6
800	NSYSMPSE8
1000	NSYSMPSE10
1200	NSYSMPSE12



PBS00800-38

Extra large mounting plate

New

Characteristics	Extra large mounting plates	
	<ul style="list-style-type: none"> ■ Mounting plates for the side entry device when coupling Spacial SF enclosures or Spacial SFX. ■ Mounting plates can be coupled with one another, and are fixed to the side entry guide by pressure. 	
Material	Galvanised steel	
Supply	One mounting plate and fixing elements	
Dimensions (mm)	References	
Height	Width	
1800	600	NSYMP186L
	800	NSYMP188L
	1000	NSYMP1810L
	1200	NSYMP1812L
2000	600	NSYMP206L
	800	NSYMP208L
	1000	NSYMP2010L
	1200	NSYMP2012L
2200	600	NSYMP226L
	800	NSYMP228L
	1000	NSYMP2210L
	1200	NSYMP2212L

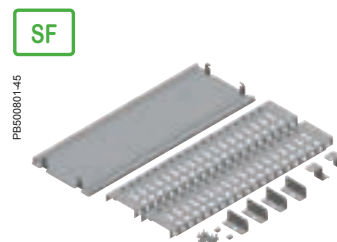
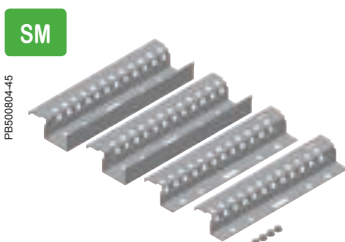
Mounting plates

New

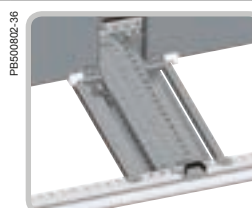
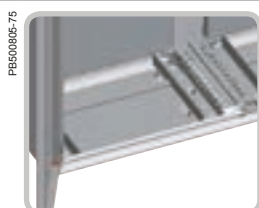
Characteristics	Mounting plates 400	Partial mounting plates 400
	<ul style="list-style-type: none"> ■ Mounting plates for the side entry device when coupling Spacial SF enclosures or Spacial SFX. ■ Solution for enclosures of width and depth of 400. 	
Material	Galvanised steel	
Supply	One mounting plate and fixing elements	
Dimensions (mm)	References	
Height		
250	-	NSYSPMP2540
400	-	NSYSPMP4040
600	-	NSYSPMP6040
1200	NSYMP124	-
1400	NSYMP144	-
1600	NSYMP164	-
1800	NSYMP184	-
2000	NSYMP204	-
2200	NSYMP224	-

Mounting

Mounting rails for floor-standing enclosures



Characteristics	Top/bottom adjustment rails	Kit for adapting two-door enclosures
	<ul style="list-style-type: none"> 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. 	<ul style="list-style-type: none"> 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.
Material	Galvanised steel	Galvanised steel
Supply	2 rails, top and bottom, and fixing elements	Two 90 mm cross rails, cable-gland plate support, 2 brackets for central fixing of the roof and fixing elements
Dimensions (mm)	References	
Depth (C)		
300	NSYSTBR3	-
400	NSYSTBR4	NSYSMP2D4
500	NSYSTBR5	NSYSMP2D5
600	NSYSTBR6	NSYSMP2D6
800	-	NSYSMP2D8



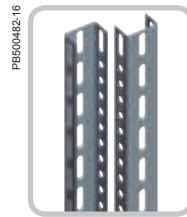
★ Examples of combination

Length of joined Spatial SF enclosures (mm)	Example of Spatial SF enclosure combination width (mm) (B)	Example of combined 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 Uprights for floor-standing enclosures

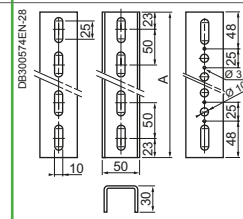
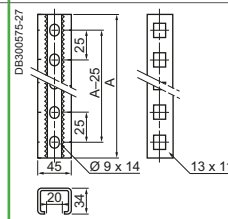


- SM
- SF
- SD
- SMX
- SFX
- SDX
- PLA
- PHD



- SM
- SF
- SMX
- SFX

Characteristics	Technical uprights	Standard uprights
	<ul style="list-style-type: none"> ■ Vertical uprights for fixing plates and rails. ■ They can be fixed to the fixing brackets of the mounting plate or to the uprightfixing bracket (ref. NSYMF). ■ 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). 	<ul style="list-style-type: none"> ■ Vertical uprights for fixing plates and rails. ■ They can be fixed on the mounting plate fixing brackets or on the upright fixing bracket, ref. NSYMF. ■ Adjustable height with a pitch of 25 or 50 mm.
Material	Galvanised steel	Galvanised steel
Thickness	20/10° mm	20/10° mm
Supply	Set of 2 uprights	Set of 2 uprights
Enclosure dimensions (mm)	Dimensions (mm)	References
Height	A	References
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



Nuts and screws for technical uprights



Model	Supply (units)	References
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 (3)	50	NSYCNM6
M8 removable nut (3)	50	NSYCNM8
M6 x 12 screw	100	AF1VA612
M6 x 18 screw	100	AF1VA618
M8 x 20 screw	100	AF1VC820

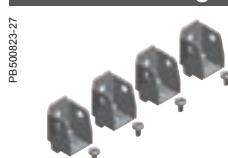
Nuts and screws for standard uprights



Model	Supply (units)	References
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

* Control desk.
 ** Not compatible with PLA or PHD 2000 mm high enclosures. Use 2 x NSYTVR10.

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.

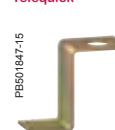
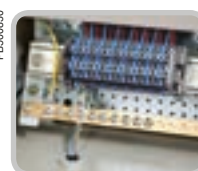
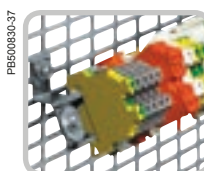
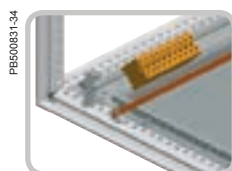
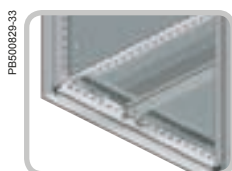
Reference
NSYMF

Mounting

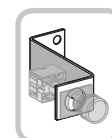
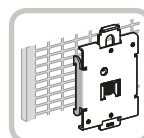
Other support brackets



Characteristics	Rail support bracket	Combined support bracket	Terminal-block support bracket	Combined fixing lugs for the earthing strip	Combined support bracket (vertical)
	Bracket for fixing rails at an angle of 45°.	Allow the installation of a DIN rail and an earthing strip on different planes, to minimise the cable radiuses.	<ul style="list-style-type: none"> They allow the mounting of a DIN rail. Tilted to 45°. 	<ul style="list-style-type: none"> They allow the mounting of an earth-collector rail and a DIN rail. Tilted to 30°. Earthing strip, ref. NSYECB1M153. See page 285. 	Allow the installation of a DIN rail and an earthing strip on different planes, to minimise the cable radiuses.
Material	Zinc-coated steel	Zinc-coated steel	Treated steel	-	Zinc-coated steel
Installation	<ul style="list-style-type: none"> Spacial SF: mounted on the structure and/or mounting plates Spacial SM: mounted on the bottom mounting rail and/or mounting plates 	<ul style="list-style-type: none"> Spacial SF: directly on the structure and/or using mounting plates Spacial SM: on the bottom adjustment rails and/or on mounting plates 	-	To be fixed on mounting plate.	Spacial SF/SM : directly on the vertical structure and/or using mounting plates
Supply	Ten units and fixing elements. Reference by unit. Order by multiples of 10 (10, 20, 30...)	Ten combined support brackets and fixing elements. Reference by unit. Order by multiples of 10 (10, 20, 30...)	2 lugs and fixings	2 fixing lugs and fixing elements	10 brackets
References	NSYFB45	NSYETF	NSYEDCO	NSYEDCOC	DZ5MS10



Characteristics	Clicked support plate	Bracket for fixing control units (Ø 22)
	For screw mounted equipment. For mounting on 35 mm symmetric and double profile DIN rails or Telequick mounting plate.	To mount any 22 mm diameter device directly on mounting plates.
Material	Zinc-plate coated	-
Installation	-	-
Supply	Ten units and fixing elements. Reference by unit. Order by multiples of 10 (10, 20, 30...)	Ten units and fixing elements. Reference by unit. Order by multiples of 10 (10, 20, 30...)
References	A (mm)	
	44 x 65 - 9 screws	AX2DL01
	49 x 65 - 4 screws	AX2DL02
		DX1AP52

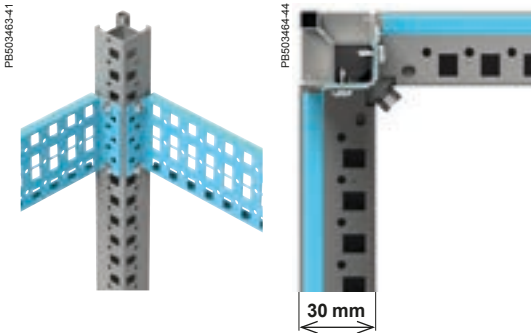


Mounting

Cross rails for floor-standing enclosures overview



New



Integrated cross-rails enable 30mm space saving

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).

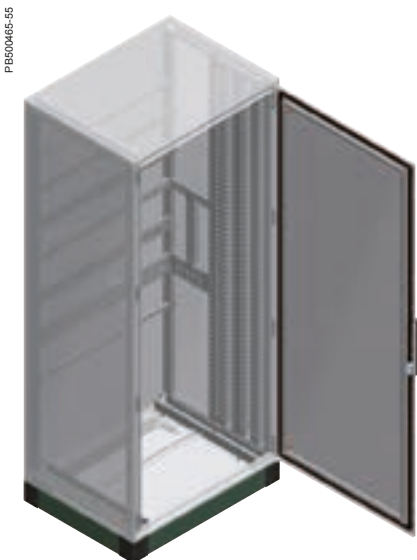
Four types of cross-rails are available to create fixing points:

- Universal cross-rails (page 231);
- Quick-fixing cross-rails (page 231);
- Integrated cross-rails (page 232) **New**;
- light cross-rails (page 233).

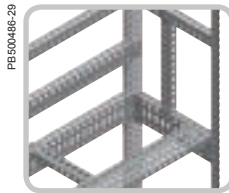
Universal, quick-fixing and integrated cross-rails are available in 3 sizes: 40 mm (1 row), 65 mm (2 rows) et 90 mm (3 rows).

Cross-rails for specific applications are also available:

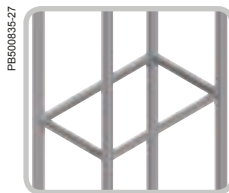
- Cross-rails for heavy loads (page 234) to be fixed on the bottom part of of the enclosure or to be associated with a "heavy load kit" (page 237) to be used at any height in the enclosure,
- Cross-rails fo Lütze chassis (page 234).



★ Combination examples



Spacial SF and SFX: the cross rails can be fixed to the structure and among each other, offering multiple possibilities.

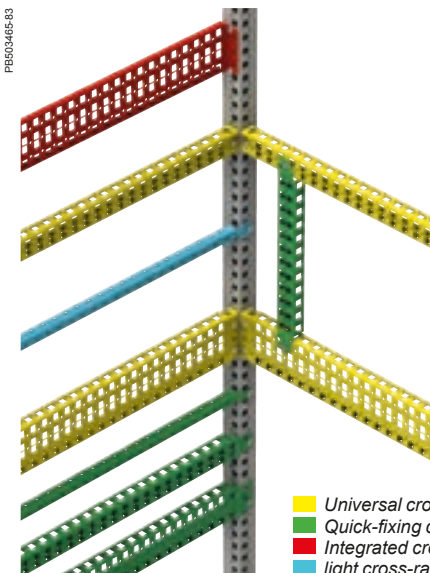


Universal cross-rails and integrated cross-rails can be simultaneously mounted at the same height, on all the sides of the enclosure.

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.



Spacial SF: universal cross-rails and integrated cross-rails can be mounted in vertical position.



- Universal cross-rails
- Quick-fixing cross-rails
- Integrated cross-rails
- light cross-rails

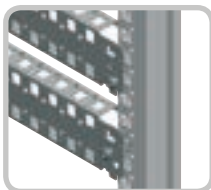
Mounting

Cross rails for floor-standing enclosures overview



Combination examples

PB500838-26



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:**

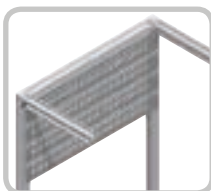
□ Possibility of clipping onto the adaptation profile or another cross rail.

□ Fixing by means of M6 self-tapping screws.

□ Fixing by means of M6 caged nuts.

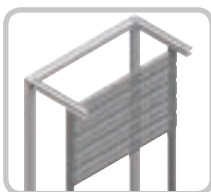
** In enclosures Spacial SFX is not possible to mount it in depth.*

PB500839-30



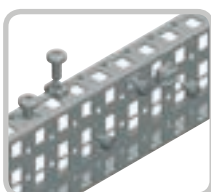
Quick-fixing cross-rails can be used to support equipments at the back of the enclosure or be fixed every 25 mm on two cross-rails (universal or integrated) in vertical position.

PB500841-24



40mm wide universal and integrated cross-rails can be used as uprights, adjustable every 25 mm in depth. They enable the fixing of diverse equipment supports and are adjustable every 25 mm in height.

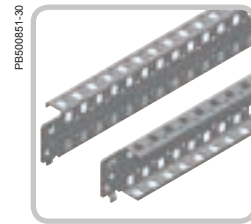
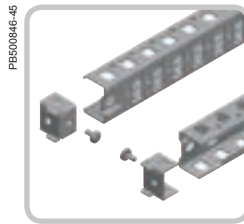
PB500842-30



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 for floor-standing enclosures



Characteristics			Universal cross rails	Quick-fixing cross rails
Material			Zinc-coated steel	
Thickness			15/10° mm	
Fixing to the structure			Fixing accordingly to uprights axis. Possibility to mount cross-rails simultaneously on all sides, at the same height of the enclosure.	Fixing accordingly to uprights axis. No possibility to mount two cross-rails at the same level of an upright.
Supply			2 cross rails, 4 supports for cross rails and fixing elements	2 cross rails and fixing elements
Dimensions		Maximum load by rail		
Width of the cross rail (mm)	H / L / P (Dn) of cubicle (mm)	(kg)	References	
40 (1 row)	300	70	NSYSUCR4030	-
	400	60	NSYSUCR4040	NSYSQCR4040
	500	60	NSYSUCR4050	NSYSQCR4050
	600	50	NSYSUCR4060	NSYSQCR4060
	700 (3)	50	NSYSUCR4070	-
	800	40	NSYSUCR4080	NSYSQCR4080
	900 (3)	40	NSYSUCR4090	-
	1000	30	NSYSUCR40100	NSYSQCR40100
	1100 (3)	30	NSYSUCR40110	-
	1200	20	NSYSUCR40120	NSYSQCR40120
	1400	(1)	NSYSUCR40140	-
	1500 (3)	(2)	NSYSUCR40150	-
	1600	(1)	NSYSUCR40160	-
	1800	(1)	NSYSUCR40180	-
65 (2 rows)	2000	(1)	NSYSUCR40200	-
	2200	(1)	NSYSUCR40220	-
	300	110	NSYSUCR6530	-
	400	100	NSYSUCR6540	NSYSQCR6540
	500	90	NSYSUCR6550	NSYSQCR6550
	600	80	NSYSUCR6560	NSYSQCR6560
	800	70	NSYSUCR6580	NSYSQCR6580
	1000	50	NSYSUCR65100	NSYSQCR65100
	1200	50	NSYSUCR65120	NSYSQCR65120
	1400	(1)	NSYSUCR65140	-
	1600	(1)	NSYSUCR65160	-
	1800	(1)	NSYSUCR65180	-
	2000	(1)	NSYSUCR65200	-
	2200	(1)	NSYSUCR65220	-
90 (3 rows)	300	130	NSYSUCR9030	-
	400	120	NSYSUCR9040	NSYSQCR9040
	500	120	NSYSUCR9050	NSYSQCR9050
	600	110	NSYSUCR9060	NSYSQCR9060
	700 (3)	110	NSYSUCR9070	-
	800	100	NSYSUCR9080	NSYSQCR9080
	900 (3)	100	NSYSUCR9090	-
	1000	70	NSYSUCR90100	NSYSQCR90100
	1100 (3)	70	NSYSUCR90110	-
	1200	70	NSYSUCR90120	NSYSQCR90120
	1400	(1)	NSYSUCR90140	-
	1500 (3)	(2)	NSYSUCR90150	-
	1600	(1)	NSYSUCR90160	-
	1800	(1)	NSYSUCR90180	-
	2000	(1)	NSYSUCR90200	-
	2200	(1)	NSYSUCR90220	-

(1) For vertical assembly only.

(2) Cross rails only for fixing cables.

(3) These cross-rails have not been sized to be used in the width, depth or height of the enclosure, but to be mounted in other positions or in between cross-rails.

Mounting

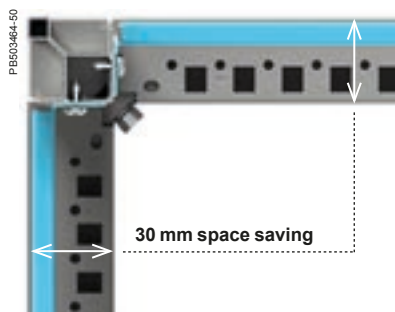
Cross rails for floor-standing enclosures

PB503461-66



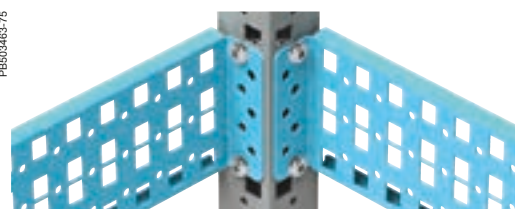
New

Characteristics			Integrated cross-rails
			<ul style="list-style-type: none"> Used for the creation of structures inside the enclosure. Cross-rails available in 3 sizes : 40 mm (1 row), 65 mm (2 rows) et 90 mm (3 rows). Each row is perforated every 25 mm with a 5.2 mm diameter hole and a 11x13 mm cutout which enables fixing by means of M6 self-tapping screws, ref NSYST30M6S. Equipment are fixed by means of caged nuts or self-tapping screws.
Material			Zinc-coated steel
Thickness			15/10° mm
Fixing to the structure			Fixing is shifted by 30 mm relatively to uprights' axis. Possibility to mount cross-rails simultaneously on all sides, at the same height of the enclosure.
Supply			2 cross rails and fixing elements
Dimensions		Maximum load by rail	References
Width of the cross rail (mm)	H / L / P (Dn) de la cellule (mm)	(kg)	
40 (1 row)	300	70	NSYSICR4030
	400	60	NSYSICR4040
	500	60	NSYSICR4050
	600	50	NSYSICR4060
	800	40	NSYSICR4080
	1000	30	NSYSICR40100
	1200	20	NSYSICR40120
65 (2 rows)	300	110	NSYSICR6530
	400	100	NSYSICR6540
	500	90	NSYSICR6550
	600	80	NSYSICR6560
	800	70	NSYSICR6580
	1000	50	NSYSICR65100
	1200	50	NSYSICR65120
90 (3 rows)	300	130	NSYSICR9030
	400	120	NSYSICR9040
	500	120	NSYSICR9050
	600	110	NSYSICR9060
	800	100	NSYSICR9080
	1000	70	NSYSICR90100
	1200	70	NSYSICR90120



30 mm space saving thanks to new fixation mode

PB503463-75

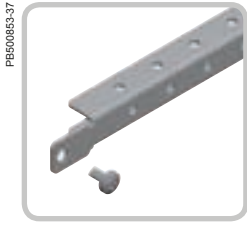


Quick mounting, at same level, on all enclosure perimeter

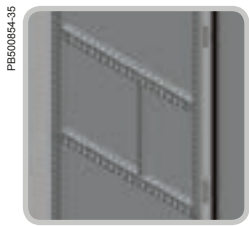
Mounting

Cross rails for floor-standing enclosures

SM SF SFX



PB500853-37

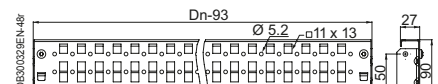
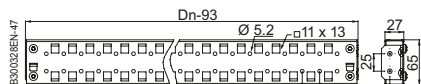
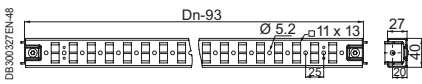


PB500854-35

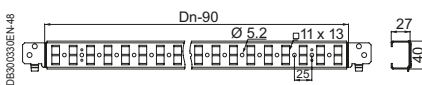
Characteristics	Light cross rails
	<ul style="list-style-type: none"> ■ Spacial SF and SFX: direct fixing to the structure or between cross rails. ■ Spacial SM: fixing by means of adaptation profiles and 40 mm universal cross rails (1 row), or between cross rails in any other position. ■ Adjustable with 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
Thickness	-
Supply	2 light cross rails and fixing elements
Width/Depth (mm)	References
400	NSYSLCR40
500	NSYSLCR50
600	NSYSLCR60
800	NSYSLCR80

Dimensions

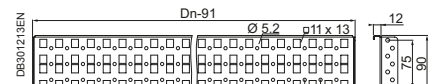
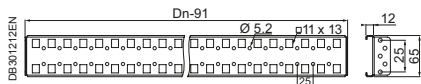
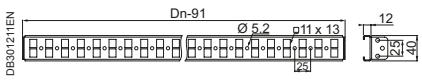
Universal cross rails



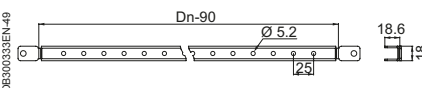
Quick-fixing cross rails



Integrated cross-rails



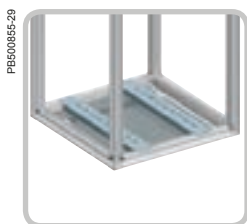
Light cross rails



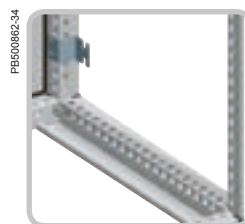
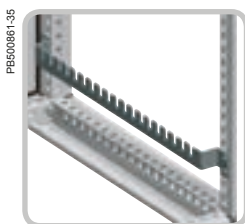
Mounting

Cross rails for floor-standing enclosures

SF



SF



Characteristics	Rails for heavy loads	Cross rail for Lütze chassis	Support for Lütze chassis
	<ul style="list-style-type: none"> 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. 	Cross rail for fixing and adjusting the depth of the Lütze chassis.	Support for installing Lütze chassis in the back of the enclosure.
Fixing to the structure	Directly fixed on the bottom frame of the enclosure	-	-
Material	Galvanised steel	Galvanised steel	Galvanised steel
Thickness	30/10° mm	25/10° mm	25/10° mm
Supply	2 rails for heavy loads and fixing elements	6 cross rails for Lütze chassis and fixing elements	6 supports and fixing elements
Depth (mm)	Maximum load (kg)	References	Reference
400	575	NSYHLCR40	NSYLCR40
500	525	NSYHLCR50	NSYLCR50
600	500	NSYHLCR60	NSYLCR60
700	500	NSYHLCR70	-
800	475	NSYHLCR80	-

Mounting

Standard supports

SM

SF



Tray installed on the structure.



Telescopic rails fixed to the structure.

Characteristics		Fixed tray	Telescopic rails
		<ul style="list-style-type: none"> ■ Options for fixing the tray to the enclosure: <ul style="list-style-type: none"> □ If the tray has the same dimensions as the enclosure: <ul style="list-style-type: none"> - Spacial SF: direct fixing to the structure. - Spacial SFX: installation possible only with universal cross rails, see on page 231. - 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. <ul style="list-style-type: none"> - Depth-adjustable tray with a pitch of 25 mm. ■ Provided with cut-outs for improving air circulation inside. 	<ul style="list-style-type: none"> ■ 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 231. ■ 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: <ul style="list-style-type: none"> □ 1 fixed tray. □ 2 telescopic rails. ■ End-of-travel stop of the rails in open and closed position.
Material		Steel	Zinc-coated steel
Finish		Painted with epoxy-polyester resin	Painted with epoxy-polyester resin
Colour		RAL 7035 grey	RAL 7035 grey
Maximum load		150 kg direct fixed to the structure 40 kg when universal cross rails are used	25 kg evenly distributed
Supply		1 fixed tray and fixing elements	2 telescopic rails and fixing elements
Depth	Width	Tray dimensions (mm)	References
400	600	482 x 290 x 30	NSYFXT6040
	800	682 x 290 x 30	NSYFXT8040
500	600	482 x 390 x 30	NSYFXT6050
	800	682 x 390 x 30	NSYFXT8050
600	600	482 x 490 x 30	NSYFXT6060
	800	682 x 490 x 30	NSYFXT8060
800	800	682 x 690 x 30	NSYFXT8080
			Handle for telescopic trays <ul style="list-style-type: none"> ■ Designed for easy extraction of the sliding trays. ■ Material: polyamide 6 (black). ■ Supply: two units and fixing elements.
			Reference NSY1TH

SM

SF

SMX

SFX

Tray cross rails



Tray installed on cross rails.



- Allow the installation of fixed trays and telescopic rails. Quick and universal cross rails, see page 231

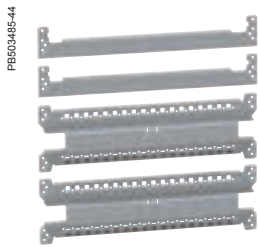
Dimensions (mm)	Universal cross rail	Quick-fixing cross rail
Depth	40 mm (1 row)	40 mm (1 row)
400	NSYSUCR4040	NSYSQCR4040
500	NSYSUCR4050	NSYSQCR4050
600	NSYSUCR4060	NSYSQCR4060
800	NSYSUCR4080	NSYSQCR4080

Mounting

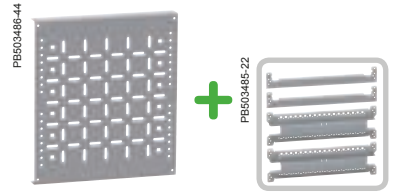
Heavy load supports

SF

New



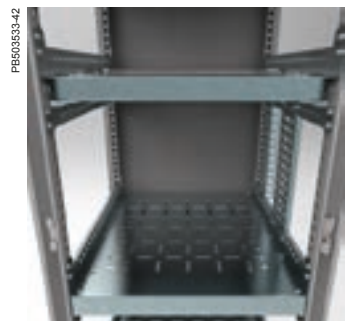
New



Characteristics	Heavy load kit	Ventilated shelf	
	<ul style="list-style-type: none"> ■ 4 parts designed to strengthen installation supports (shelves or cross-rails) in case of heavy loads. ■ The kit can be used with following rails: <ul style="list-style-type: none"> □ standard crossrails delivered with Spacial SF, □ quick-fixing cross-rails NSYSQCR***, □ DIN rails NSYSDR** and NSYDPR**, □ NSYCN** rails, □ heavy load cross-rails NSYHLCR**. ■ Several kits can be set up in the same enclosure as long as the maximum load of 1000kg is not exceeded. ■ Strengthen the stiffness of the enclosure. ■ Supports set up in the depth direction embed cut outs to secure equipment fixing. 	<ul style="list-style-type: none"> ■ Ventilation is ensured by two cut-out sizes: <ul style="list-style-type: none"> □ 11 x 13 mm rectangles for fixation on both sides with self-tapping screws, □ 40 x 8.5 mm rectangles. ■ The ventilated shelf must be fixed in the enclosure with a heavy load kit. 	
Material	Steel	Steel	
Colour	RAL 7035	RAL 7035	
Maximum load	Up to 500 kg	350 kg	
Supply	2 cross-rails (front/rear) + 2 supports to be mounted according to depth direction	1 tray and fixing elements	
Enclosure dimensions (mm)	References	Tray dimensions	References
Depth	Width	W x D x H (mm)	
400	600	500 x 359 x 50	NSYDHLT6040
	800	700 x 359 x 50	NSYDHLT8040
600	600	500 x 559 x 50	NSYDHLT6060
	800	700 x 559 x 50	NSYDHLT8060
800	600	500 x 759 x 50	NSYDHLT6080
	800	700 x 759 x 50	NSYDHLT8080



★ Combination examples



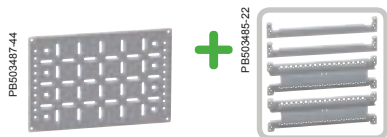
Heavy load kit +
Ventilated shelf

Mounting

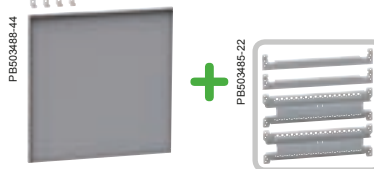
Heavy load supports

SF

New



New



Characteristics		Partially ventilated shelf		Plain shelf for battery	
		<ul style="list-style-type: none"> in order to support the maximum load, the shelf must be mounted either in the rear or in the front of the enclosure. An intermediary cross-rail must be set up in the middle to bear a heavy loads. Ventilation is ensured by two cut-out sizes: <ul style="list-style-type: none"> 11 x 13 mm rectangles for fixation on both sides with self-tapping screws, 40 x 8.5 mm rectangles. The partially ventilated shelf must be fixed in the enclosure with a heavy load kit. 		<ul style="list-style-type: none"> Painted shelf with rims to avoid potential liquid leakage. Electrical continuity is ensured by specific staples. Acces and replacement (thus maintenance) are eased by mounting brackets. The plain shelf must be fixed in the enclosure with a heavy load kit. 	
Material		Steel		Steel	
Colour		RAL 7035		RAL 7035	
Maximum load		250 kg		350 kg	
Supply		1 tray and fixing elements		1 tray and fixing elements	
Enclosure dimensions (mm)		Tray dimensions	References	Tray dimensions	References
Depth	Width	W x D x H (mm)		W x D x H (mm)	
400	600	500 x 325 x 2	NSYPPLT6040	500 x 300 x 16	NSYPPLT6040
	800	700 x 325 x 2	NSYPPLT8040	700 x 300 x 16	NSYPPLT8040
600	600	-	-	500 x 500 x 16	NSYPPLT6060
	800	-	-	700 x 500 x 16	NSYPPLT6080
800	600	-	-	500 x 700 x 16	NSYPPLT6080
	800	-	-	700 x 700 x 16	NSYPPLT8080



★ Combination examples



Heavy load kit + Partially ventilated shelf



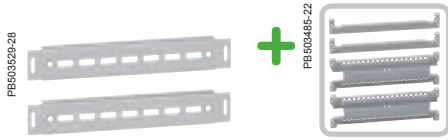
Heavy load kit + Plain shelf for battery

Mounting

Heavy load supports

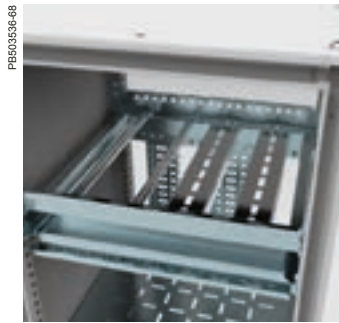
SF

New



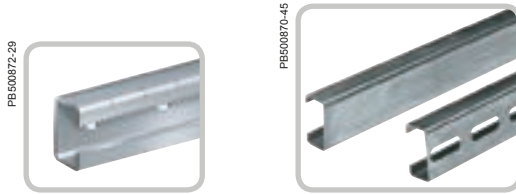
Characteristics		Heavy load cross-rails	
		<ul style="list-style-type: none"> Can be fixed anywhere in the enclosure with a heavy load kit. Free space useful for thermal management. Nominal width of cross-rails must be 100mm shorter than the associated heavy load kit width. 	
Material	Steel		
Supply	2 cross rails and fixing elements		
Nominal width (mm)	Maximum load (kg)	References	Associated heavy load kit references
400	575	NSYHLCR40	Not usable with heavy load kit
500	525	NSYHLCR50	NSYHLT6040 NSYHLT6060 NSYHLT6080
600	500	NSYHLCR60	Not usable with heavy load kit
700	500	NSYHLCR70	NSYSHLT8040 NSYHLT8060 NSYHLT8080
800	475	NSYHLCR80	Not usable with heavy load kit

★ Combination examples



Heavy load kit +
Heavy load cross-rails

Mounting Rails



Characteristics	Serrated C-shaped rail for heavy loads	Symmetric C-shaped rails
	Marked in steps of 25 mm to facilitate switchgear positioning.	Rails for supporting and fixing switchgear on panels and enclosures, formation of chassis, racks and panel reinforcements.
Material	Zinc-coated steel	Galvanised steel
Standards	-	-
Thickness	20/10 ^e mm	-
Fixing	-	They are fixed to the structure and to one another by means of fixing elements
Supply	2 rails with a length of 2 m	References by unit. Order by multiples of the units specified in the supply
Dimensions (mm)	References	Type Dimensions (mm) Supply References
Rail length (B)		
1500	AM1EC115	- - - - - - - - - - -
2000	AM1EC200	C20 (1) 21 11 10 1.5 5.5 - - - 10 NSYCN20
		C20 21 11 10 1.5 5.5 5 6.2 15 10 NSYCNT20
		C40 (1) 40 20 24 1.5 8 - - - 10 NSYCN40
		C40 40 20 24 1.5 8 10 8.5 30 10 NSYCNT40

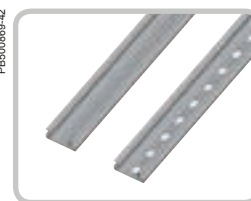
* For wall-mounting enclosure. ** For floor-standing enclosure. (1) Not perforated.

Nuts for symmetric C-shaped rails



Characteristics		Combiplas nut		Metal sliding nut	
Rail type	Nuts type	Supply	References	Supply	References
C20	M3	-	-	-	-
	M4	100	NSYBN204	100	NSYB204
	M6	100	NSYBN206	-	-
C40	M4	50	NSYBN404	100	NSYB404
	M6	50	NSYBN406	-	NSYB406
	M8	50	NSYBN408	-	-
C60	M6	20	NSYBN606	100	-
	M8	20	NSYBN608	-	-
	M10	20	NSYBN610	-	-

Mounting 2000 mm rails

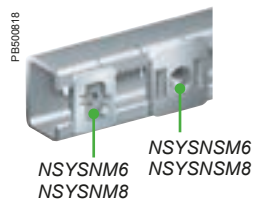


Characteristics		Symmetric rails				Asymmetric DIN rails	Double-profile DIN rails
Material		Galvanized steel, zinc-coated steel or aluminium				Galvanised steel	Galvanised steel
Thickness		-				-	15/10° mm
Supply		-				20 rails with a length of 2 m. References by unit. Order by multiples of 20 units (20, 40, etc.)	20 rails with a length of 2 m. References by unit. Order by multiples of 20 units (20, 40, etc.)
Length (mm)	Perforations	Material	Type	Supply	References	References	References
2000	Perforated	Galvanized steel	A	20	NSYSDR200D	NSYADR200D	NSYDPR200D NSYDPR200T*
			B	20	NSYSDR200BD		
	Not perforated	Galvanized steel	A	20	NSYSDR200	NSYADR200	NSYDPR200
			B	20	NSYSDR200B		
		Zinc-coated steel	C	6	AM1DL201		
		Aluminium	D	10	AM1EA200		

* 10/10° mm thickness.

Mounting

Rail accessories



Characteristics	Nuts			
	For symmetric rails	For asymmetric DIN rails, 2000 mm version	For double-profile DIN rails	For serrated C-shaped rails
	Clip-on nut.	Quarter-turn sliding nut.	Quarter-turn sliding nut.	Quarter-turn sliding nuts.
Supply	100	100	100	10
Type	References			
M3	-	-	AF1CF34	-
M4	AF1CG4	DZ5ME8	AF1CF34	-
M5	AF1CG5	DZ5ME9	AF1CF56	-
M6	AF1CG6	DZ5ME5	AF1CF56	NSYSNM6 NSYSNSM6
M8	-	-	-	NSYSNM8 NSYSNSM8

Mounting

Connectors for symmetric C-shaped rails

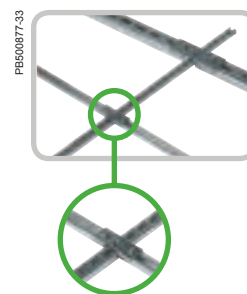
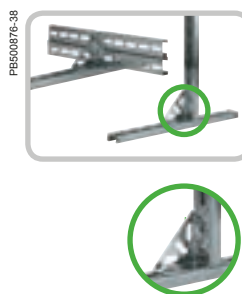
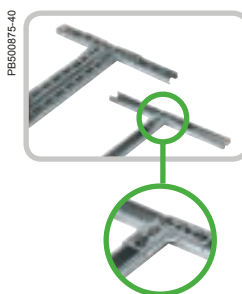


Examples

Combinations with 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.



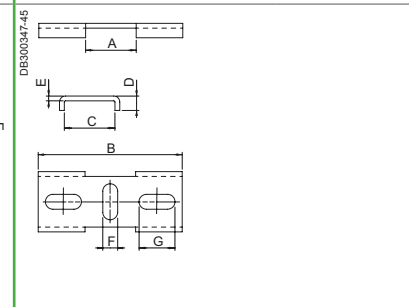
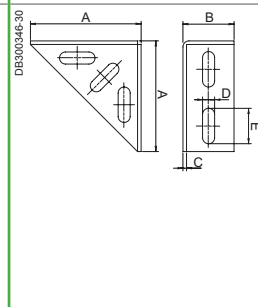
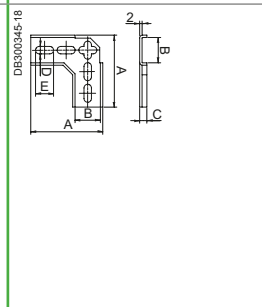
Characteristics	EMA connectors	EVA connectors	UCA connectors
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	To join two symmetric C-shaped rails, C20 and C40 types, at right angles; they can also be used to obtain a T-shaped assembly.	To join two symmetric C-shaped rails, C20 and C40 types, forming an overlapping assembly with plane change, or also at right angles for the formation of spacers supports at a different level.	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.
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Material	Zinc-coated steel		
Thickness	20/10 ^o mm	-	-
Supply	20 units. References by unit. Order by multiples of 20 units (20, 40, 60, etc.)	20 units. References by unit. Order by multiples of 20 units (20, 40, 60, etc.)	20 units. References by unit. Order by multiples of 20 units (20, 40, 60, etc.)

Dimensions (mm)									References		
A	B	C	D	E	F	G	H				

60	21.3	6	6.2	15	-	-	-		NSYEMA20	-	-
100	40.3	10	8.5	25	-	-	-		NSYEMA40	-	-
43	19	2	6.2	15	-	-	-		-	NSYEVA20	-
78	36	2.5	8.5	25	-	-	-		-	NSYEVA40	-
21.3	60	21.3	6	2	6.2	15	-		-	-	NSYUCA22
40.3	116	40.3	10	2.5	8.5	25	-		-	-	NSYUCA44
21.3	21.5	53.5	8	2	6.2	15	-		-	-	-
21.3	40.5	72.5	8	2	6.2	15	-		-	-	-
40.3	40.5	81	10	2.5	8.5	25	-		-	-	-
21.3	21.5	8	2	6.2	15	6.2	15		-	-	-
21.3	40.5	8	2	6.2	15	6.2	13		-	-	-
40.3	40.5	10	2.5	8.5	25	8.5	25		-	-	-
60	18	2	20	15	5	-	-		-	-	-
130	36	3	40	30	10	-	-		-	-	-
130	55	3	40	30	10	-	-		-	-	-
54	54	2	20	20	5	-	-		-	-	-
60	80	2	20	25	8	-	-		-	-	-
80	110	2	20	29	10	-	-		-	-	-



Mounting Spacers



PB500778-55



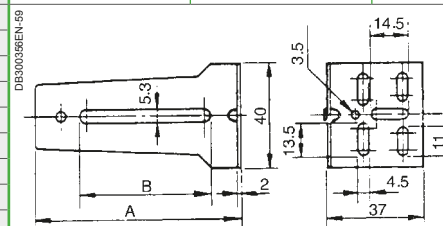
PB500884-53

Characteristics	Hexagonal spacers	ETU modular spacers
	<ul style="list-style-type: none"> Hexagonal spacers for raising switchgear, mounting plates, etc. They can be linked together to achieve variable heights with gradual elevation. Their assembly requires M5, M6 or M8 caged nuts. 	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	Zinc-coated steel
Installation	If used to raise a mounting plate, the maximum load of the mounting plate is decreased	-
Supply	100 hexagonal connectors. References by unit. Order by multiples of 100 units (100, 200, 300, etc.)	20 units. References by unit. Order by multiples of 20 units (20, 40, 60, etc.)

References						
	Thread type (R)	Spacer height (mm) (A)		A (mm)	B (mm)	
	M5	10	NSYE1025	48	25	NSYETU48
	M5	15	NSYE1525	58	25	NSYETU58
	M5	20	NSYE2025	79	55	NSYETU79
	M6	10	NSYEX106	118	55	NSYETU118
	M6	12	NSYEX126			
	M6	14	NSYEX146			
	M6	16	NSYEX166			
	M6	18	NSYEX186			
	M6	20	NSYEX206			
	M6	30	NSYEX306			
	M6	40	NSYEX406			
	M6	50	NSYEX506			
	M6	100	NSYEX1006			
	M8	15	NSYEX158			
	M8	20	NSYEX208			
	M8	30	NSYEX308			
	M8	40	NSYEX408			
	M8	50	NSYEX508			
	M8	60	NSYEX608			
	M8	100	NSYEX1008			

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

DB30035E-61



Mounting 19" Chassis

S3D S3X



Characteristics		19" fixed chassis for wall-mounting enclosure		19" swing chassis for wall-mounting enclosure	
		<ul style="list-style-type: none"> ■ 19" fixed chassis comprising 2 19" uprights with fixing. ■ Adjustable in depth by fixing on the step slides in accessories. 		19" swing chassis opening to 120° with closure by 3 mm double bar insert.	
Material		Galvanized steel		Steel	
Finish		-		Structured finish, epoxy-polyester powder	
Colour		-		RAL 7035 grey	
Thickness		20/10 ^o mm		-	
Maximum load		3 kg per unit		3 kg per unit	
Enclosure (mm)		Unit number	References	Unit number	References
Height	Width				
400	600	8	NSYVDM8UF	7	NSYVDM7UP
600	600	12	NSYVDM12UF	11	NSYVDM11UP
800	600	17	NSYVDM17UF	16	NSYVDM16UP
1000	600	21	NSYVDM21UF	20	NSYVDM20UP
	800	-	-	20	NSYVDM20U8P
1200	800	-	-	25	NSYVDM25U8P

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.

Name	Batch of	References
M6 screws + washers + nuts	30	NSYGFR95M63
M6 x 16 screws and washers	50	NSYGFR166P
M6 caged nuts	100	NSYCN9M625
M6 screws + washers + nuts	50	NSYGFR95M65
M5 screws + washers + nuts	50	NSYGFR95M55

Mounting

Nuts and screws overview

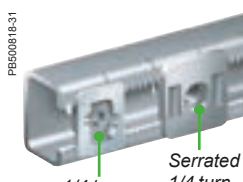


Characteristics	Clip-on nuts		Combiplas slide nut				Screws with captive washer Hexagonal head			
Usage	For Telequick mounting plates		C - shaped rail - 20/40/60 mm				All nuts			
Type	Supply	References	Rail type	Combiplas nut		Metal sliding nut		Models	Supply	References
				Supply	References	Supply	References			
M3	100	AF1EA3	-	-	-	-	-	-	-	-
M4	100	AF1EA4	C20	100	NSYBN204	100	NSYB204	M4 x 10 mm	100	AF1VA410
			C40	100	NSYBN404	100	NSYB404	M4 x 16 mm	100	AF1VA416
M5	100	AF1EA5	-	-	-	-	-	M5 x 12 mm	100	AF1VA512
								M5 x 18 mm	100	AF1VA518
M6	100	AF1EA6	C20	100	NSYBN206	-	-	M6 x 12 mm	100	AF1VA612
			C40	100	NSYBN406	-	-	M6 x 18 mm	100	AF1VA618
			C60	100	NSYBN606	100	NSYB406			
M8	-	-	C40	100	NSYBN408	-	-	M8 x 20 mm	100	AF1VC820
			C60	100	NSYBN608	-	-			
M10	-	-	C60	100	NSYBN610	-	-			

References by unit. Order by multiples of the units specified in the supply.



Fixing brackets



1/4 turn
Serrated
1/4 turn



Removable nut



Cage nut

Characteristics	Fixings and nuts for serrated uprights					Nuts for uprights and cross rails			
Usage	2 per serrated mounting uprights for floor-standing enclosures								
Type	Fixing brackets			1/4 turn	Serrated 1/4 turn	Removable nut		Cage nut	
	Supply	Ref.	Supply	Ref.	Ref.	Supply	Ref.	Supply	Ref.
M4	4	NSYMF8	-	-	-	-	-	-	-
M5			-	-	-	-	-	-	-
M6			10	NSYSNM6	NSYSNSM6	50	NSYCNM6	50	NSYCNFM6
M8			10	NSYSNM8	NSYSNSM8	50	NSYCNM8	50	NSYCNFM8
-			-	-	-	-	-	-	-

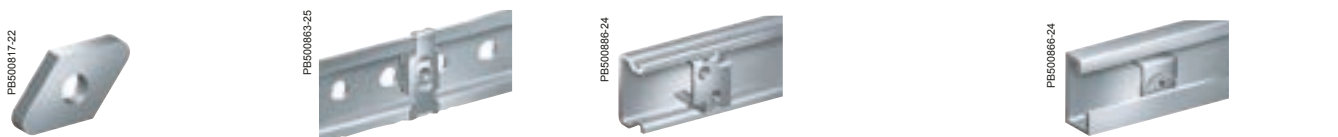
References by unit. Order by multiples of the units specified in the supply.

Mounting

Nuts and screws overview



Torx screws			Self-tapping screw			Fixings and nuts for aluminium uprights			
Nuts and 6 mm Spacial enclosures holes						Mounting uprights for wall-mounting enclosures			
Models	Supply	References	Models	Supply	References	Sliding nuts		Brass nuts to fix the upright to the enclosures	
-	-	-	-	-	-	Supply	References	Supply	Reference
-	-	-	-	-	-	-	-	4	NSYAMCSF
-	-	-	-	-	-	100	NSYNM4	-	-
-	-	-	M5 x 13 mm	100	NSYS13M5HS	100	NSYNM5	-	-
-	-	-	M5 x 16 mm	100	NSYS16M5HS	-	-	-	-
T30 M6 x 16 mm	100	NSYST30M6	M6 x 16 mm	100	NSYS16M6HS	100	NSYNM6	-	-
T30 M6 x 14 mm self-tapping	100	NSYST30M6S	-	-	-	-	-	-	-
T40 M8 x 16 mm	100	NSYST40M8	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-

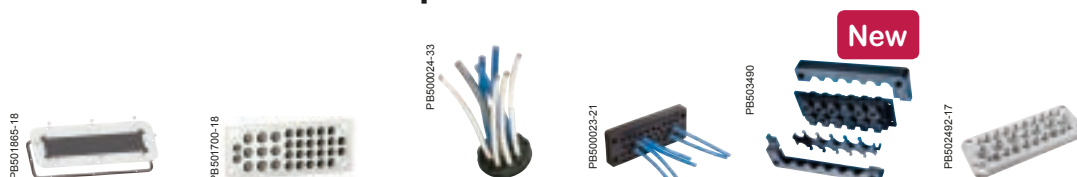


Flat nuts for standard uprights		Clip nut for symmetric DIN rail		Quarter turn nut for double profile DIN rail			Quarter turn nut for asymmetric DIN rail	
2 per standard mounting uprights for floor-standing enclosures		35 x 15 mm symmetric DIN rail		35 mm double profile DIN rail			35 mm asymmetric DIN rail	
Supply	Ref.	Supply	Ref.	Models	Supply	Ref.	Supply	Ref.
-	-	100	AF1CG4	-	-	-	100	DZ5ME8
-	-	100	AF1CG5	-	-	-	100	DZ5ME9
50	NSYFNM6	100	AF1CG6	-	-	-	100	DZ5ME5
50	NSYFNM8	-	-	-	-	-	-	-
-	-	-	-	M3 + M4	100	AF1CF34	-	-
-	-	-	-	M5 + M6	100	AF1CF56	-	-

Cable management

Cable entries overview

Multiple cable entries



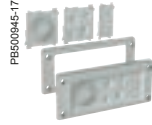
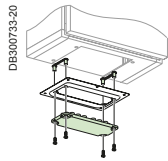
Characteristics	Flexicable	Multi-A	Multi-C	Multi-R	Multi-CS	Multi-T
	Full membrane cable gland plate.	FL13 & FL21 type membranes.	Circular connector-free entries.	Rectangular connector-free entries.	Modular entry allowing the passing of up to 48 pre-assembled cables.	FL21-type membranes.
Material	HCE for membrane. Steel for frame	TPE, SBS, SEBS and PP co-polymer - halogen free	Polyamide	Polyamide	Reinforced polypropylene and TPE. Halogen free	TPE
Colour	Frame: RAL 7035	RAL 7035	-	-	Black	RAL 7035
Cable entry material	Soft membrane	Combined	Soft membrane			
Cable glands to be fitted	No	Optional: specific cable clamp ref. NSYAECPLACA●● to be used	No	No	No	No
Installation possibilities	Replaces cable gland plate (S3D) or directly on enclosure	On cable gland plate adapter or directly on enclosure	On modified cable gland plate or directly on enclosure	On cable gland plate with special cut-out or directly on enclosure	On cable gland plate adapter or directly on enclosure	
Flexibility of the installation	Full	Medium	Medium	Medium	Full	Medium
Reversibility	Medium	Medium	Full	Full	Full	Medium
Ingress protection rating	IP55 according to IEC 60529	IP65 according to IEC 60529	IP65 according to IEC 60529	IP65 according to IEC 60529	IP65 according to IEC 60529	IP66 according to IEC 60529**
Cable retention	Low	High with cable clamp, (up to 18 daN)	Medium	Medium	Medium	Low
Cable diameter (mm)	Up to 26	From 13 to 30	From 3 to 15.9	From 4.3 to 15.9	Up to 22	From 5 to 60
Cable Installation time	Fast	Medium	Fast	Fast	Fast	Fast
Quantity of cables to be fitted for a given surface	+++	++	++	++	+++	++
Cable entries for cables with connectors	No	No	No	No	Yes	No
Cut-out dimensions (mm)	178 x 63 to 478 x 63	134 x 52 (FL13) 214 x 90 (FL21)	Ø 50.5 Ø 63.5	112 x 36	112 x 36	214 x 90 (FL21)
External dimensions (mm)	245 x 130 to 545 x 130 or 495 x 220	216 x 84	Ø 58 Ø 71	146 x 14 x 58	148 x 58 x 15 148 x 58 x 18	214 x 88
Certificates	Tested on short-circuit effect 250 A, 25 kA following IEC 61439-1	Cable anchorage pull test: EN 50262. Long term UV-resistance: ASTM G 154-06	■ UL 94 V-0	■ UL 94 V-0	■ UL 94 V-0 ■ Fire resistance: V0	UL 94 V-0
Fire resistance	650°C	750°C	650°C	650°C	-	650°C
Temperature range	-	-40°C to +85°C	-	-	-30°C to +100°C	-40°C to +100°C
References*						
See page	258	258	259	259	264	260

* For details, type the reference in the search engine of www.schneider-electric.com.

** IP65 for NSYAECPLBP.

Cable management

Cable entries overview



Characteristics	Prisma	Multi-F	Multi-CF	Multi-CR	Multi-H
	FL21 or rectangular.	FL13 & FL21 pre-configured flanges.	Cable entry for protected cables.	Cable entries with dies for cables equipped with connectors.	FL21 insulated flange with ISO knockouts.
Material	Insulating material	Fibreglass-reinforced polypropylene and TPE - Halogen Free	Reinforced polypropylene and TPE. Halogen free	Polyamide	Polycarbonate glass-fiber reinforced
Colour	RAL 9001	RAL 7035	Black	-	RAL 7035
Cable entry material	Soft membrane			Hard plastic	
Cable glands to be fitted	No	No	No	Yes	Yes
Installation possibilities	On cable gland plate adapter or directly on enclosure				
Flexibility of the installation	Medium	Medium	Full	Low	Low
Reversibility	Medium	Medium	Full	Medium	Medium
Ingress protection rating	IP55 according to IEC 60529	IP65 according to IEC 60529	IP65 according to IEC 60529	IP54 according to IEC 60529	IP65 according to IEC 60529
Cable retention	Low	Low	Medium	High (with fastener)	High (with cable clamp)
Cable diameter (mm)	From 28 to 60 (FL21) From 7 to 72 (rectangular)	From 16 to 50	From 9 to 30	From 3 to 31	From 12 to 25
Cable Installation time	Fast	Fast	Fast	Slow	Slow
Quantity of cables to be fitted for a given surface	++	++	+++	++	++
Cable entries for cables with connectors	No	No	Yes	Yes	No
Cut-out dimensions (mm)	214 x 90 (FL21)	134 x 52 (FL13) 214 x 90 (FL21)	112 x 36	36 x 91 (NSYDCE168) 36 x 112 (NSYDCE24)	214 x 90 (FL21)
External dimensions (mm)	216 x 84	From 134 x 52 to 214 x 90	148 x 60 x 10	146 x 58	215 x 85
Certificates	-	<ul style="list-style-type: none"> ■ UL 94-HB ■ Test standard EN 60529:1991 + A1 EN 60670-1:2005, EN 50262:1998 EMKO-TUI (03-SEC) F1001/84. Semko report 816003 ■ UL-approved materials 	<ul style="list-style-type: none"> ■ UL 94-HB ■ Fire resistance: V0 	-	UL 94 V-1
Flame resistance	-	-	-	650 °C	750 °C
Temperature range	-	-20°C to +125°C (1)	-30°C to +70°C	-40°C to +80°C	<ul style="list-style-type: none"> ■ For normal operation: -40°C to +80°C ■ For a short time: -40°C to +120°C
References*					
See page	264	261	265	261	260

* For details, type the reference in the search engine of www.schneider-electric.com.

(1) "Pop-out" membranes only.

Cable management

Cable entries overview

Simple cable entries



Characteristics	Simple-1	Simple-2	Simple-3	Simple-4
	Mixed membrane entries for enclosure thickness 20/10° - 32/10° mm.	PVC adjustable cone-shaped entries for enclosure thickness 30/10° - 32/10° mm.	Quick cable entries for enclosure thickness 10/10° - 40/10° mm (5/10° - 20/10° mm for ref. IMT36179).	PVC adjustable cone-shaped entries for PG tubes or for enclosure thickness 12/10° - 15/10° mm.
Material	SBS	PVC	EPDM plastic	PVC
Colour	RAL 7035 light grey or RAL 9010 white	-	<ul style="list-style-type: none"> ■ Grey cable entries: NCS 5500 ■ Black cable entries: NCS 9000 	Black
Cable entry material	Soft membrane		Combined	
Cable glands to be fitted	Not applicable			
Installation possibilities	On cable gland plate or directly on enclosure			
Flexibility of the installation	Low			
Reversibility	Medium			
Ingress protection rating	IP55 according to IEC 60529	IP55 according to IEC 60529	IP67 according to IEC 60529	IP55 according to IEC 60529
Cable retention	Low	Low	Medium	Low
Cable diameter (mm)	From 20 to 40	From 5 to 87	From 12 to 50	From 16 to 44
Cable Installation time	Fast	Fast	Fast	Fast
Quantity of cables to be fitted for a given surface	+	+	+	+
Cable entries for cables with connectors	No	No	No	No
Cut-out dimensions (mm)	Various circular hole diameters according to cable diameter			
External dimensions (mm)	From Ø 23 to 44	From Ø 25 to 98	From Ø 12.5 to 50.7	From Ø 25 to 52
Certificates	-	-	-	-
Standard	-	-	-	-
Flame resistance	750°C	-	750°C	-
References*				
See page	266	266	267	267



Caractéristiques	Simple-5	Synthetic snap in cable gland	Stainless steel cable gland with lamellar insert
	ISO cable gland.	Without thread. Easy assembly and disassembly. Suitable for walls from 0.5 to 4 mm thick.	Lamellar technology provides excellent resistance to traction as well as excellent torsional protection. For outdoor use, or for aggressive environments.
Material	PA6 Polyamide, neoprene gasket	PA6 Polyamide, neoprene gasket	Stainless steel AISI 304L or AISI 316L, neoprene gasket
Colour	RAL 7035 grey	RAL 7035, RAL 7001, RAL 9005. Other colours on demand	-
Cable entry material	Combined		Non armoured
Installation possibilities	On cable gland plate or directly on enclosure		
Flexibility of the installation	Low		
Reversibility	Medium		
Ingress protection rating	IP68 according to IEC 60529	IP68	IP68
Cable retention	High	High	High
Cable diameter (mm)	From 12 to 40	From 16 to 40	From 12 to 40
Cable Installation time	Slow	Slow	Slow
Quantity of cables to be fitted for a given surface	+	+	+
Cable entries for cables with connectors	No	No	No
Thread type	-	Metric EN 60423 Other types are available on demand	Metric EN 60423
Cut-out dimensions (mm)	Various circular hole diameters according to cable diameter		
External dimensions (mm)	From Ø 15 to 46	From Ø 22 to 46	From Ø 14 to 43
Certificates	Glow wire resistance: 960°C	UL 94 V-2	UL 94 V-2
Standard	Compliance with VDE, UL and CSA	DIN EN 62444, UL 514B, UL 514B§8.26.7	DIN EN 62444, UL 514
Flame resistance	750 °C	-	-
Temperature range	-	-20°C to + 100°C	-20°C to + 100°C
References*			
See page	266	269	269

* For details, type the reference in the search engine of www.schneider-electric.com.

Cable management

Cable entries overview



Characteristics	Multi-cable disc	Cable-gland gasket	Blanking plug	Transport plug
	It is possible to pass several cables through a single cable-gland using the multi-cable bushing.	-	It is screwed into the cable-gland's plate.	It is installed to block the cable-gland during transport or during maintenance operations.
Material	EDPM rubber	EDPM rubber	PA6	PA6
Colour	Black	Black	RAL 7035	Black
Ingress protection rating	-	IP68	-	-
Standards	-	-	-	-
Other characteristics	-	-	-	-
Supply	Batch of 40 (M16 and M20), 20 (M25 and M32)	Batch of 100 (M12 to M20) 50 (M25 and M32), 25 (M40)	Pack of 40 plugs (M12 to M20), 20 plugs (M25 and M32), 10 plugs (M40)	Pack of 40 plugs (M16 to M20), pack of 20 (M25 and M32), pack of 10 (M40)
Ø	Number / Ø (mm)	References	References	References
M12	-	-	IMT36151	IMT36161
M16	2 x Ø 4	IMT36157	IMT36152	IMT36162
M20	3 x Ø 4	IMT36158	IMT36153	IMT36163
M25	4 x Ø 5	IMT36159	IMT36154	IMT36164
M32	6 x Ø 5	IMT36160	IMT36155	IMT36165
M40	-	-	IMT36156	IMT36166

Cable management

Cable entries



Multiple



Single

Key features when selecting a cable entry

1 - Multiple cable entries or single cable entries

Your choice depends on:

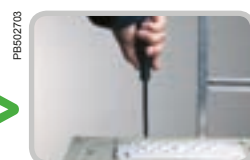
- The amount of cables going through the cable entry: generally for 3 or more cables, choose a multiple cable entry. It will make your installation faster and more economical. In other words, your final bill will not necessarily be lower with single cable entries.
- Flexibility of installation: for high flexibility, the multiple cable entry is the right choice.

2 - Entry cable material

■ **Soft membranes** allow cables to be easily pushed through, but still offer a good IP rating, protecting from moisture as well as physical intrusions. Cable retention force, however, is lower than with other alternatives.



Push the membrane into a standard hole.



Make a small hole in the membrane.



Push the cable or tube through the guide hole.



Pull the cable or tube back some 20 mm to lock it.

■ **Hard plastic** needs specific tools to create the opening (drill or knife) but, thanks to the cable gland, offers a very high retention force. Another use of this solution is for public places, since the hard surface prevents objects being pushed in.

■ **Combined:** the material of the cable entry plate is hard plastic, but the cable is pushed through a soft membrane. In this case you have the advantages both of soft membranes (easy and fast installation, flexibility) and hard plastic membranes (high retention force, when using specific cable clamps).



PB502707-70



PB501702



PB501703-30



PB501704-35



PB502706-68

3 - Cable glands to be fitted

■ Some multiple cable entries require a cable gland to be able to retain the cables and ensure the degree of protection.

Cable management

Cable entries

4 - Installation possibilities

There are 4 ways to install your cable entries on the enclosure:

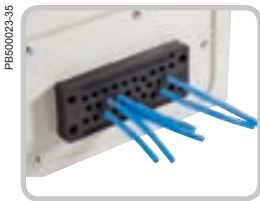
■ **By replacing the cable gland plate:** the standard cable gland plate of your S3D wall-mounting enclosure is unscrewed and replaced by the cable entry. A gasket between enclosure and cable entry will ensure good water and dust tightness.



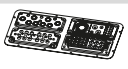



■ **On modified cable gland plate:** the standard cable gland plate is unscrewed and machined. A cut-out is created in it.

■ **On cable gland plate adapter:** this plate, which has the outer dimensions of a standard cable gland plate, has one or more pre-cut cut-outs of standard dimensions (FL13 and FL21).

On steel wall-mounting enclosures, the plate can replace the standard cable gland plate once the cable entry is fitted into it. On polyester enclosures, a cut-out must be created. Schneider Electric provides this service: a precise laser cut-out is factory-created upon request.

On steel floor-standing enclosures, you may either use the specific cable gland roof or create a cut-out (see expert's tip 1, page 257).



Cable gland plate adapters				
Enclosure range	1 membrane	2 membranes	3 membranes	4 membranes
Spacial S3D	 PB500604-16 NSYTL•FL	 PB500604-15 NSYTL•2FL	-	 DB300718-15 NSYTLG4FL
Spacial SF	 PB502708-10 NSYSFLR•• NSYSFLR•••	 PB502708-12 NSYSFLR•• NSYSFLR•••	 PB500697-15 NSYSFLR•••	-

■ **Directly on the enclosure:** a cut-out is created on the enclosure's side according to the cable entry's dimensions (see expert's tip 1, page 257).

Zoom on...

FL13 and FL21 are standard cut-out dimensions frequently used in northern European countries and also used by our enclosures for several years now.

Cable management

Cable entries

PE602710-32



Full flexibility

PE600946-35



Medium flexibility

5 - Flexibility of the installation

■ **Full flexibility:** this means that cables can be added/removed easily, changing:

- quantity
- diameter
- position

(see expert's tip 2, page 257)

■ **Medium flexibility:**

- the amount, diameter or position of cables can be changed to a limited extent.

■ **Low flexibility:**

- it is not possible to change the above parameters.

6 - Reversibility

■ **Full reversibility:** this means that cables can be added/ removed easily without losing their initial characteristics, such as water tightness.

■ **Medium reversibility:** for soft membranes, once the cable has been removed, there may be a loss of IP depending on the size of the cable and the cut. For hard plastic entries or combined material entries, initial characteristics are regained by adding plugs.

■ **Low reversibility:** the cable entry must be completely replaced in order to regain the initial characteristics.

7 - Degree of protection (IP)

If an enclosure is to be used in a clean, dry and well insulated environment, lower levels of IP may be acceptable (IP54 or IP55).

In a dusty environment you may require higher IP levels, such as IP65 or IP68 (see expert's tip 4, page 257).

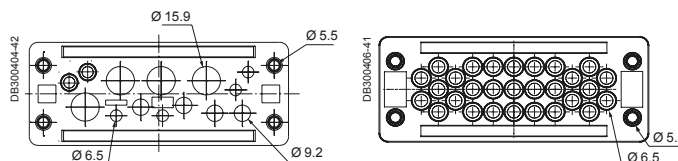
8 - Cable retention

Choose the right level of cable retention according to your needs. For locations accessible to the public, preferably choose a high level of cable retention.

9 - Cable diameter

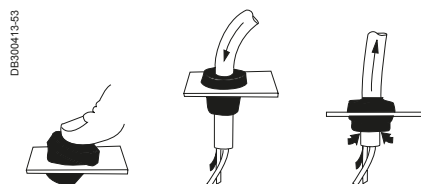
Choose the cable entry seal according to the cable diameter.

Take into account cable diameter tolerances.



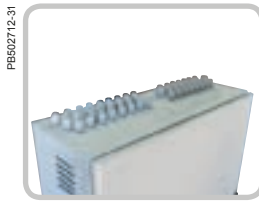
10 - Cable installation time

Each cable entry has different installation characteristics. Some can be installed easily and quickly thanks to the soft membrane. Take this into account depending on labour costs in your region.



Cable management

Cable entries



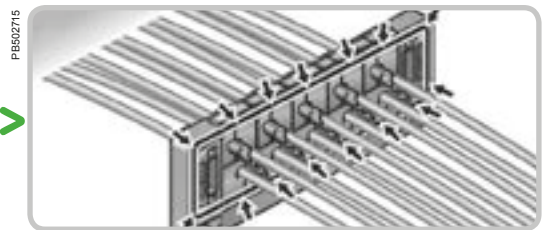
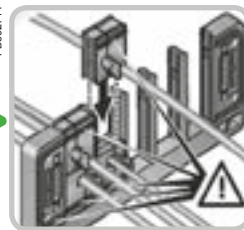
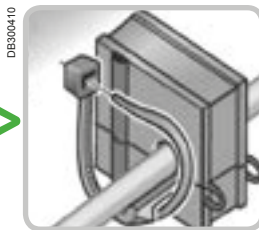
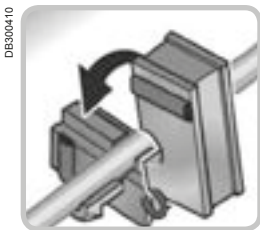
11 - Quantity of cables to be fitted for a given surface

For some installations, a large quantity of cables must go through the cable entry. Some cable entries can receive a high density of cables, which can result in more economical installation (fewer cable entries to be bought). For small enclosures, it may simply be impossible to install too many cable entries due to the available space on the enclosure's wall (see expert's tip 3, page 257).



12 - Cable entries for cables with connectors

Some cables have large connectors which cannot be pushed through tight cable clamps or cable seals. These cable entries have the unique advantage of not requiring the cable to be cut, thanks to the snap-fitting system.



A high cable retention force is provided thanks to the integrated cable fastener.

Expert's tip

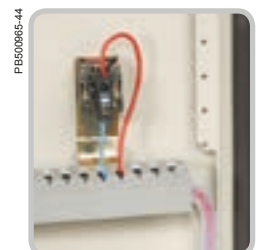
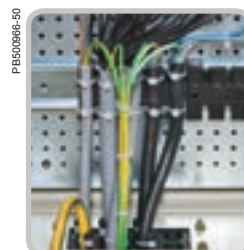


1 Some cable entries require cut-outs to be machined on the enclosure or cable gland plate. Our customized offer provides this service. The quality of your enclosure will therefore be guaranteed since the painting operation is performed after creating the cut-outs.

2 Installing a cable entry with full flexibility is the solution when a large series of enclosures is being prepared for different types of installations. By using one combination of enclosure-cable entry, you can cover a large variety of installations!

3 When the cable entry has been defined, the next step is cable management inside the enclosure. For correct thermal management, all wires must be fitted and attached so as not to create an obstacle for correct air flow. Consult our Universal Enclosures catalogue for cable management accessories (such as cable ducts) and consumables (such as cable ties).

4 When your environment requires a high level of IP for your installation, make sure you have an appropriate thermal management system to avoid condensation or overheating problems. Consult our Thermal Management offer in our Universal Enclosures catalogue and our Control Panel Technical Guide related to this issue.



Cable management

Cable entries

Dimensions



FL 13



FL 21

Characteristics	FlexiCable cable entries	Multi-A																																																																																																																																					
See page	250	250																																																																																																																																					
Supply	<ul style="list-style-type: none"> 1 metallic frame with pre-mounted membrane 1 gasket Fixing hardware 	-																																																																																																																																					
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(1) Enclosure with 2 cable-gland plates.

Cable management

Cable entries

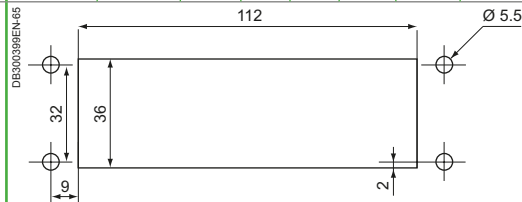
Dimensions



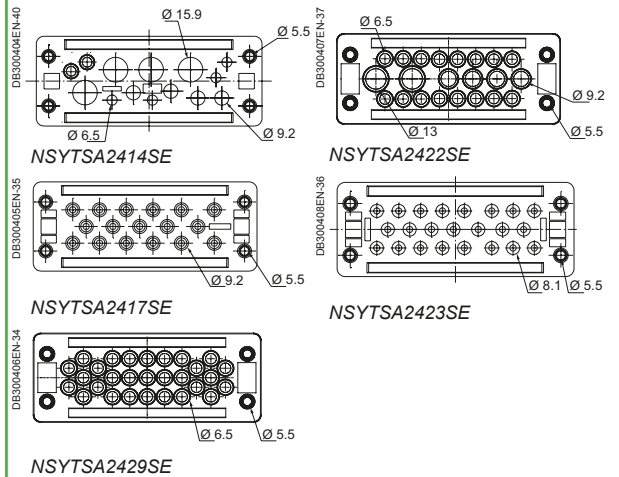
Characteristics	Multi-C	Multi-R																																																																																																									
See page	250	250																																																																																																									
Supply	10 units. Reference by unit. Order by multiples of 10 (10, 20, 30...)	1 unit																																																																																																									
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Position of the holes on the circular cable entries with diameters 50 and 63 mm



Diagrams of dimensions and position of the holes on a rectangular cable entry



Cable management

Cable entries

Dimensions



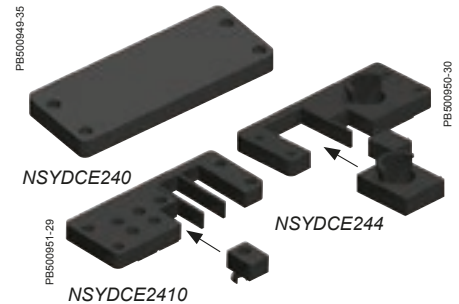
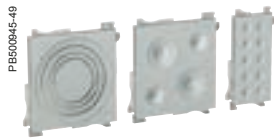
Characteristics	Multi-T												Multi-H				
See page	251												251				
Supply	-												-				
	No. of cable entries	Diameter of the cable entry (Ø mm)											References	Dimensions (mm)			Reference
		5-7	6-10	8-12	8-16	10-14	12-18	14-20	17-32	20-26	24-54	30-60		L1	L2	H	
	Type FL21												Type FL21				
	0	-	-	-	-	-	-	-	-	-	-	-	NSYAECPLBP*	215	85	10	NSYTSKFL
	7	-	-	-	4	-	-	-	-	-	2	1	NSYAECPLT7				
	27	4	-	4	-	13	-	4	-	2	-	-	NSYAECPLT25				
	37	-	4	14	-	16	2	-	1	-	-	-	NSYAECPLT35				
													⊕ M16 or M25 ● M12 ⊕ M12 or M20				

* Metallic plate.

Cable management

Cable entries

Dimensions



Characteristics	Multi-F	Multi-CR																																																																																		
See page	251	251																																																																																		
Supply	-	1 die and fixing elements																																																																																		
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		<p>Cut-out for reference NSYDCE24●●●</p> <p>* Cut-out for reference NSYDCE16●●●.</p>																																																																																		
		<p>Split seals for cable entries equipped with connectors</p> <ul style="list-style-type: none"> Split seals suited to the diameter of the cable to be mounted on the cable-entry dies for the connectors. Ref. NSYDCE●●●. Supply: 10 units. Reference per unit. To be ordered in multiples of 10 (10, 20, 30, etc.). <table border="1"> <thead> <tr> <th>For cables Ø (mm)**</th> <th>References</th> </tr> </thead> <tbody> <tr><td>0</td><td>NSYCEJD</td></tr> <tr><td>3-4</td><td>NSYCEJD3</td></tr> <tr><td>5-6</td><td>NSYCEJD5</td></tr> <tr><td>7-8</td><td>NSYCEJD7</td></tr> <tr><td>9-10</td><td>NSYCEJD9</td></tr> <tr><td>11-12</td><td>NSYCEJD11</td></tr> <tr><td>13-14</td><td>NSYCEJD13</td></tr> <tr><td>16-17</td><td>NSYCEJD16**</td></tr> <tr><td>18-19</td><td>NSYCEJD18**</td></tr> <tr><td>20-21</td><td>NSYCEJD20**</td></tr> <tr><td>22-23</td><td>NSYCEJD22**</td></tr> <tr><td>24-25</td><td>NSYCEJD24**</td></tr> <tr><td>26-27</td><td>NSYCEJD26**</td></tr> <tr><td>28-29</td><td>NSYCEJD28**</td></tr> <tr><td>30-31</td><td>NSYCEJD30**</td></tr> </tbody> </table> <p>** Large seal, 24/4 die only.</p>	For cables Ø (mm)**	References	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**																																																		
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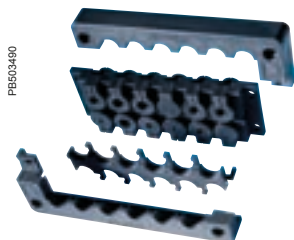
(1) "Pop-out" membranes only.
 (2) "Pop-out" membranes or cable gland installation.
 (3) Knock out system.
 (4) NSYDCE244 accepts 4 entries: 2 large seals and 2 small seals.

Cable management

Cable entries

New

Dimensions



PB503490

Characteristics	Multi-CS				
See page	250				
Supply	1 unit				
	No. of openings	Cut-out dimensions (mm)	Ø of the cable entry (mm)		References
			2-12	12-24	
	12	112 x 36	12	-	NSYDCD2412
	4	112 x 36	-	4	NSYDCD244
	8	112 x 36	6	2	NSYDCD248
	9	112 x 36	8	1	NSYDCD249

Cable gland

Size of cable gland	Supply	Cable Ø	References
Small	Pack of 12	2-3	NSYCEJDS2
		3-4	NSYCEJDS3
		4-5	NSYCEJDS4
		5-6	NSYCEJDS5
		6-7	NSYCEJDS6
		7-8	NSYCEJDS7
		8-9	NSYCEJDS8
		9-10	NSYCEJDS9
		10-11	NSYCEJDS10
		11-12	NSYCEJDS11
		Large	Pack of 4
13-14	NSYCEJDL13		
14-15	NSYCEJDL14		
15-16	NSYCEJDL15		
16-17	NSYCEJDL16		
17-18	NSYCEJDL17		
18-19	NSYCEJDL18		
19-20	NSYCEJDL19		
20-21	NSYCEJDL20		
21-22	NSYCEJDL21		

Blanking plugs

Size of cable gland	Supply	References
Small	Pack of 12	NSYCEJDS0
Large	Pack of 4	NSYCEJDL0

Cable management

Cable entries

New

Dimensions



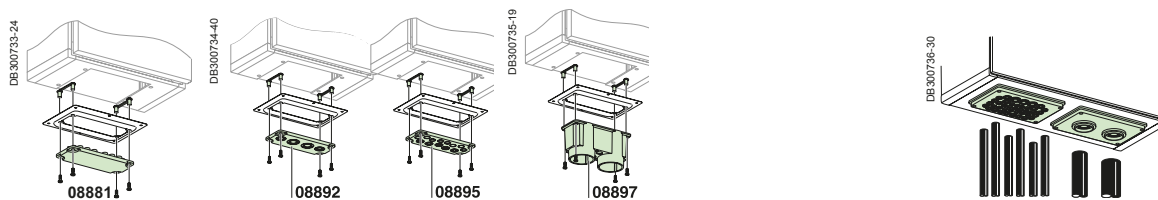
Characteristics		Multi-CF						
See page	251							
Supply	1 unit							
Entries	No. x Ø max. (mm)	Ø of the cable entry (mm)					References	
Total No.		a	b	c	d	e		
14	6 x 9	112	36	65	16	5.5	NSYTLK2414	
	4 x 11							
	4 x 18							
22	16 x 9	112	36	65	16	5.5	NSYTLK2422	
	4 x 11							
	2 x 15							
28	28 x 9	112	36	65	16	5.5	NSYTLK2428	
46	46 x 9	112	36	65	16	5.5	NSYTLK2446	
multi	3 / 27 x 300	112	36	65	16	5.5	NSYTLK24M	

Technical drawing showing dimensions: a (width), b (width of cable entry), c (width of plate), d (height of plate), e (height of cable entry), and Ø e (diameter of cable entry).

Cable management

Cable entries

Dimensions



Characteristics		Prisma								
Type	FL21				225 x 137 mm opening					
	Plain	Pre-drilled	Membrane		Pre-drilled					
	Solid cable-gland plates.	Suitable for receiving cable glands with metric pitch.	Membrane to be drilled according to the required diameter.		Suitable for receiving cable glands with metric pitch.					
See page	251									
	Reference	References	No. entries	Amount of entries per Ø	Cable diameter comprised between	Ref.	References			
	08881	2 x M20 or M32 + 2 x M25 or M40	08892	2	2	28	60	08897	With 39 entries from 7 to 26	08898*
		5 x M16 or M25 + 8 x M20	08895						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.

Accessories for Multi-A



2 x 30 + 3 x 18 + 5 x 14 mm.

Characteristics	Cable clamp for improved cable retention					Blanking plugs	
	Installation on FL 21 membrane type "A" for cable entrance to block cables when installed. It can be easily removed.					<ul style="list-style-type: none"> Installation on FL 21 membrane type "A" for cable entrance to fill the opening used. Set of 2 plugs for diameter 30 mm, 3 plugs for diameter 18 mm and 5 plugs for diameter 14 mm. 	
Material	PA6					LDPE	
Installation	<ol style="list-style-type: none"> Push the cable through the membrane entrance to the desired position Put the cable clamp around the cable and slide it into the cable entry Push the cable clamp fully into the membrane entrance and the cable will be fixed 					-	
Other characteristics	Temperature range: -40 to +85°C					Temperature range: -30 to +50°C	
	Cable clamp outer diameter (mm)	Membrane entrance diameter (mm)	Cable diameter range (mm)	Supply	References	Reference	
	15	14	7-9	Set of 8	NSYAECPLACA14	NSYAECPLAP	
	18	18	9-11	Set of 6	NSYAECPLACA18		
	20	18	10-12	Set of 6	NSYAECPLACA20		
	30	30	20-23	Set of 3	NSYAECPLACA30		

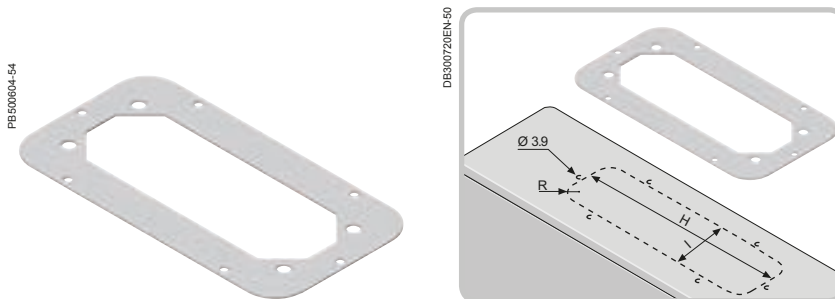


* Secure your installation with an easy solution for cable anchorage.

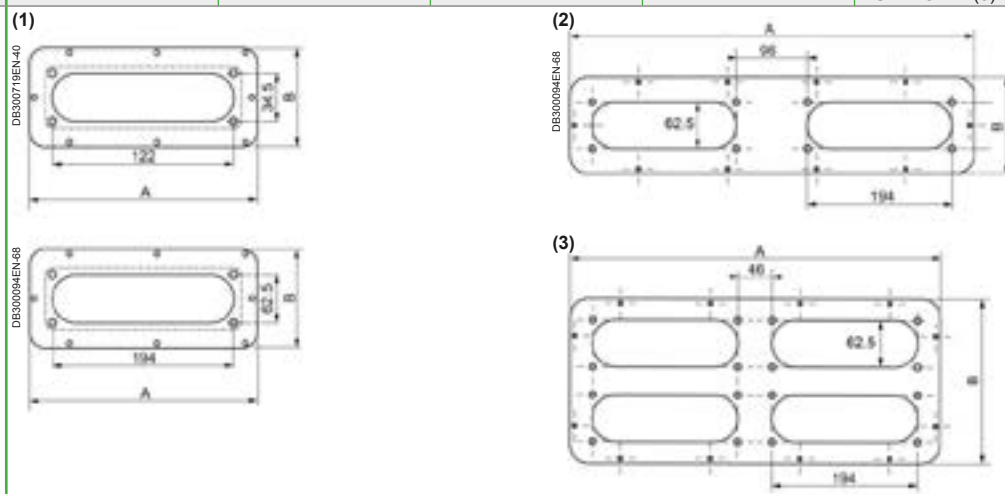
Cable management

Cable entries

Dimensions

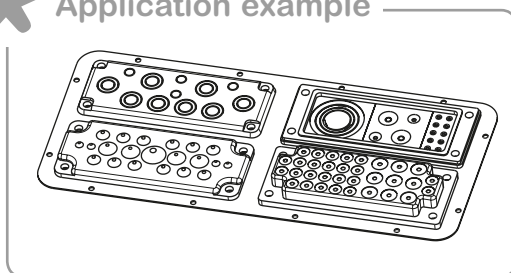


Characteristics		Steel adapter plate for FL13 and FL21 membranes				
		Allows the mounting of FL 13 and FL21 membranes on every type of enclosure.				
Ingress protection rating		IP55 according to IEC 60529				
Supply		Delivered with fixing screws and gasket				
Type		Plate dimensions (mm)		Cut-out dimensions (mm)		References
		A	B	H	I	
FL13	B	245	80	212	47	NSYTLBFL (1)
FL21	C	245	130	212	97	NSYTLCFL (1)
	D	345	130	312	97	NSYTLDFL (1)
	E	445	130	412	97	NSYTLFEL (1)
	F	545	130	512	97	NSYTLFFL (1)
	G	495	220	462	187	NSYTLF2FL (2)
						NSYTLGFL (1)
						NSYTLG2FL (2)
						NSYTLG4FL (3)



Our membrane can be easily adapted to fit onto all our metallic enclosures using the adapter plate.

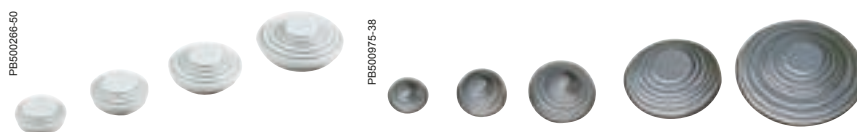
★ Application example



Cable management

Cable entries

Dimensions



Characteristics	Mixed membrane entries for IP55 direct cable entries				PVC adjustable cone-shaped entries										
See page	252				252										
Supply	Minor packaging of 10 pieces				-										
	Ø (mm)		References		Fig.	Ø A	Ø B*	Ø C	Ø D	E	F	Capacity		Supply	References
	Drill hole	Cable / conduit	RAL 9003	RAL 7035								Cable Ø	Tube		
	23	4 - 20	IMT36130	ISM71071	1	25	21.5	18	5	3.2	13	5 to 18	PG 9 to 11	50	NSYECPC3
	29	4 - 25	IMT36131	ISM71072		33	29.5	26	5	3.2	20	5 to 26	PG 9 to 16	25	NSYECPC5
	36	4 - 32	-	ISM71073		43	38.5	36	5	3.2	22	5 to 36	PG 9 to 21	25	NSYECPC6
	44	4 - 40	-	ISM71074	2	70	63	60	28	3	20	28 to 60	PG 21 to 48	10	NSYECPC9
						98	90	87	28	3	23	28 to 87	PG 21 to 48	10	NSYECPC15

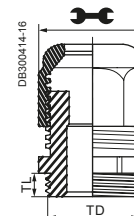
* Drill-hole for mounting.



Characteristics	ISO cable-gland					
	The cable-gland (ref. IMT36150) is especially recommended for security circuits.					
See page	252					
Supply	<ul style="list-style-type: none"> ■ The cable-glands are supplied with nuts ■ Pack of 20 (M12 to M20), 10 (M25 and M32), 5 (M40) 					
Ø	Ø min / max (mm)	Drill Ø (2)	TD	TL		References
M12	3 / 6.5	12.2 (0 + 0.2)	12	6	15	ISM71501
M16	5 / 10	16.2 (0 + 0.2)	16	8	19	ISM71502
M20	6 / 12	20.2 (0 + 0.2)	20	10	24	ISM71503
M20 (1)	6 / 12	20.2 (0 + 0.2)	20	10	24	IMT36150
M25	11 / 17	25.2 (0 + 0.2)	25	8	29	ISM71504
M32	15 / 21	32.2 (0 + 0.3)	32	10	36	ISM71505
M40	19 / 28	40.5 (0 + 0.3)	40	10	46	ISM71506

(1) Cable-gland with high resistance to fire.

(2) In brackets: tolerance.



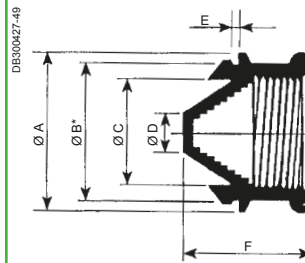
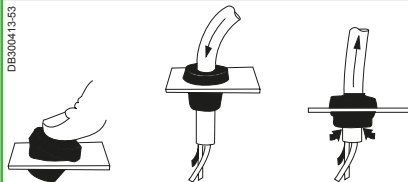
Cable management

Cable entries

Dimensions



Characteristics	IP67 quick cable entries					PVC adjustable cone-shaped entries								
See page	252					252								
	ISO	Ø (mm)	Cable	Supply	Ref.	Ø A	Ø B*	Ø C	Ø D	E	F	Capacity	Supply	Ref.
		Drill hole										Cable Ø	Tube	
	M12	12.5	3 - 5	50	IMT36179	25	19.5	16	3	1.2	21	3 to 16	PG 9	50
	M16	16	5 - 7	50	IMT36180	27	21.5	18	7	1.2	23	7 to 18	PG 13.5	50
	M20	20.3	7 - 10	50	IMT36181	29.5	23.5	20	8	1.2	26	8 to 20	PG 16	25
	M25	25.3	10 - 14	50	IMT36182	35	29.5	26	10	1.2	27	10 to 26	PG 21	25
	M32	32.4	14 - 20	50	IMT36183	52	48.5	44	13	1.5	30	13 to 44	PG 36	25
	M40	40.7	20 - 26	25	IMT36184									
	M50	50.7	26 - 35	25	IMT36185									



* Drill-hole for mounting.

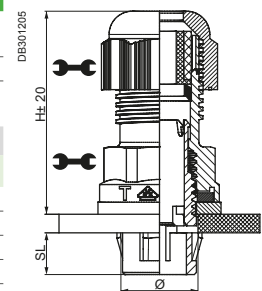


New



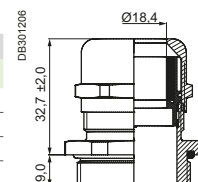
New

Characteristics	Synthetic snap in cable gland							Snap in cable gland disassembling tool	
	Wall thickness : E = 0,5 à 4 mm.							Tool to quickly disassemble cable gland.	
See page	252							-	
Supply	<ul style="list-style-type: none"> The cable-glands are supplied with nuts Pack of 20 (M16 and M20), of 10 (M25 and M32), of 5 (M40) 							<ul style="list-style-type: none"> Plastic 	
Dimensions (mm)							References	References	
Ø	Ø min / max	Drill Ø	SL	SD	H	⚙			
M16	5/10	16.2 to 16.4	9	15.9	42.5	22	NSYCGSP16	NSYDT16	
M20	6/12	20.2 to 20.4	9	19.9	41.5	24	NSYCGSP20	NSYDT20	
M25	11/17	25.2 to 25.4	9	24.9	43.5	29	NSYCGSP25	NSYDT25	
M32	15/21	32.2 to 32.4	9	31.9	49.5	36	NSYCGSP32	NSYDT32	
M40	19/28	40.2 to 40.4	11.5	39.9	56	46	NSYCGSP40	NSYDT40	



New

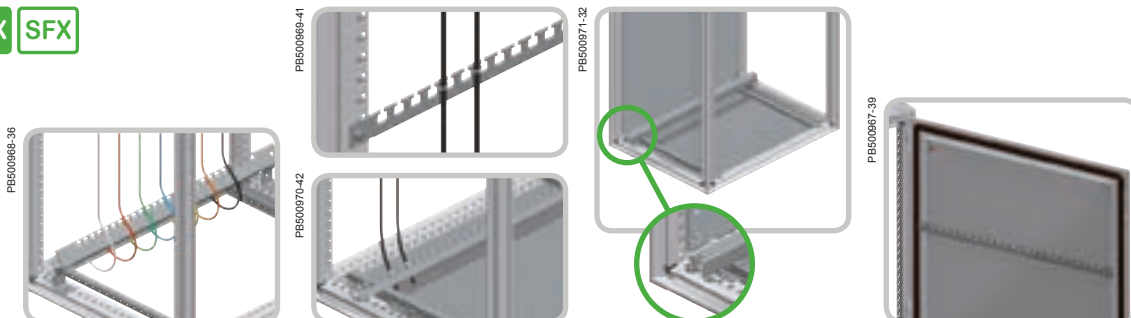
Characteristics	Stainless steel cable gland with lamellar insert							
	Applications: Outdoor, food and beverage industries, pharmaceutical industry and other sensitive applications.							
See page	252							
Supply	<ul style="list-style-type: none"> The cable-glands are supplied with nuts Pack of 5 (M12 and M16), of 4 (M20 and M25), of 2 (M32 and M40) 							
Dimensions (mm)							References	
Ø	Ø min / max	Drill Ø	TD	TL	H	⚙	AISI 304L	AISI 316L
M12	3/6.5	12 to 12.2	12	12	22	14	NSYCGX12	NSYCGX12H
M16	5/10	16 to 16.2	16	12	28.5	20	NSYCGX16	NSYCGX16H
M20	6/12	20 to 20.2	20	12	24	22	NSYCGX20	NSYCGX20H
M25	11/17	25 to 25.2	25	12	32.5	27	NSYCGX25	NSYCGX25H
M32	15/21	32 to 32.3	32	15	36	34	NSYCGX32	NSYCGX32H
M40	19/28	40 to 40.3	40	15	43.5	43	NSYCGX40	NSYCGX40H



Cable management

Cable holding

SM SF SMX SFX



Characteristics	Lower cable-guide cross-rail	Cable-guide cross-rails for framework	L-rail for fixing cables	Door cable-guide cross-rail
	<ul style="list-style-type: none"> It allows quick fixing of cables entering and exiting the enclosure. Depth adjustable every 25 mm. 	Support types: <ul style="list-style-type: none"> Angle support at 90°: for vertical cable fixing. Angle support at 120°: for fixing cables near the cable entry. 	<ul style="list-style-type: none"> Rail for fixing cables entering from the bottom. Adjustable depth with a pitch of 25 mm. It is not possible to mount it on a plinth cross rail. 	<ul style="list-style-type: none"> Recommended for fixing cables in the internal equipment of the door. Height adjustable every 25 mm.
Material	Galvanised steel	Zinc-coated steel	Zinc-coated steel	Zinc-coated steel
Fixing	<ul style="list-style-type: none"> Spacial SF: for suitable enclosures with widths of 1200 and 1600 mm, use the adaptation kit for 2-door suitable enclosures, see page 226 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 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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 100 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 100 The cables are fixed to the rail by means of metal clamps 	<ul style="list-style-type: none"> Direct fixing on the reinforcement frame
Supply	1 cable-guide cross-rail and fixing elements	2 supports and fixing elements	One rail, two mounting supports and fixing elements	2 cable-guide cross-rails and fixing elements
Dimensions (mm)	References			
Width (B)		Support angle		
500	-	-	-	NSYSDGCR5
600	NSYCFP60	90° 120°	NSYCF596 NSYCF5126	NSYFCG60 NSYSDGCR6
800	NSYCFP80	90° 120°	NSYCF598 NSYCF5128	NSYFCG80 NSYSDGCR8
1000	NSYCFP100	-	-	NSYFCG100 NSYSDGCR10
1200	2 x NSYCFP60	-	-	NSYFCG120
1600	2 x NSYCFP80	-	-	NSYFCG160

Cable management

Cable holding

S3D S3X



PB50086-48



PB50033-37

Characteristics	Plastic cable support			Door cable-guide cross-rails for wall-mounting enclosures	
	It clips or screws onto 35 mm symmetric rails or a C-shaped rail.			<ul style="list-style-type: none"> They are installed on wall-mounting enclosures with heights from 400 mm for Spacial S3D and 500 mm for Spacial S3X. They make it easy to equip the inside of the door. Installation cable ties, see page 270. 	
Fixing	Quick and easy fixing of cables using cable ties			<ul style="list-style-type: none"> 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 	
Supply	10 units. Reference by unit. Order by multiples of 10 (10, 20, 30...)			2 cable-guide cross-rails and fixing elements	
Dimensions (mm)	Support dimensions (mm)	Maximum no. of cables	References	Door dimensions (mm)	References
	Width			Width	
	75	5	NSYSCCDINLG75	400	NSYTFPCR4
	140	9	NSYSCCDINLG140	500	NSYTFPCR5
				600	NSYTFPCR6
				800	NSYTFPCR8
				1000	NSYTFPCR10

DB300418EN-59

DB300420-25

Cable management

Cable ties

P147785



Benefits

- 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.
- User friendly re-sealable packaging and documented quality.
- Manufactured and tested to EN62275, RoHS compliant.

P147787



P148324



P148323



P148326



P148300



Thorsman cable ties

Description

- Cable ties are used for a wide range of applications including bundle up and fix cables, conduits and tubing
- Material PA6.6
- Available in black and clear colour
- Max operating temperature -40°C to +85°C
- Minimum installation temperature -20°C.

Application

- There are two types of Thorsman cable ties available:
 - made of clear polyamide, for indoor use
 - made of UV-stabilized black polyamide for both indoor and outdoor use

Thorsman cable ties (x 100)

Type	Length (mm)	Colour	Qty per package	Ref. No.
Thorsman cable ties				
2.5 mm	100	Clear	100	IMT46026
		Black	100	IMT46033
	120	Clear	100	IMT46035
		Black	100	IMT46036
	160	Clear	100	IMT46074
		Black	100	IMT46073
200	Clear	100	IMT46158	
	Black	100	IMT46157	
3.6 mm	150	Clear	100	IMT46064
		Black	100	IMT46071
	200	Clear	100	IMT46149
		Black	100	IMT46156
	300	Clear	100	IMT46921
		Black	100	IMT46922
4.8 mm	200	Clear	100	IMT46101
		Black	100	IMT46118
	250	Clear	100	IMT46918
		Black	100	IMT46968
	300	Clear	100	IMT46919
		Black	100	IMT46969
370	Clear	100	IMT46248	
	Black	100	IMT46970	
7.6 mm	300	Black	100	IMT46923
	380	Clear	100	IMT46286
		Black	100	IMT46293
		Clear	100	IMT46926
8.8 mm	550	Clear	100	IMT46924
		Black	100	IMT46927

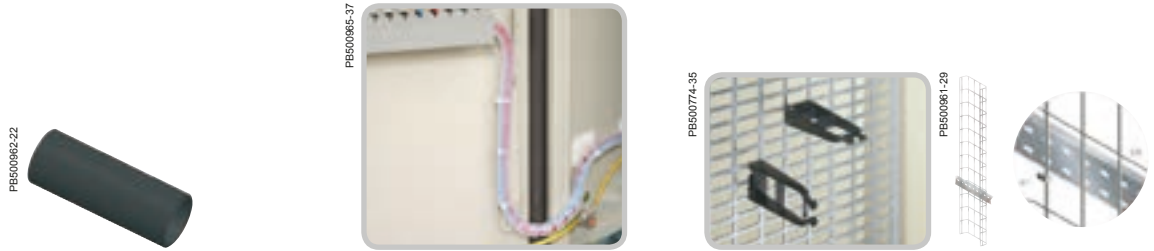
Thorsman cable ties (x 20)

Type	Length (mm)	Colour	Qty per package	Ref. No.
Thorsman cable ties				
2.5 mm	100	Black	20	IMT46231
		Clear	20	IMT46221
4.6 mm	200	Black	20	IMT46232
		Clear	20	IMT46222
4.8 mm	280	Black	20	IMT46233
		Clear	20	IMT46223
		Black	20	IMT46224
		Black	20	IMT46234

Thorsman accessories

Type	Colour	Qty per package	Dimensions H x W x D (mm)	Ref. No.
Self-adhesive base for fixing of cable ties. There are two sizes base, one for max. tie width 3.6 mm and the other for max. tie width 4.8 mm. Both self-adhesives are using high-end 3M form. There are additional screw-fix option cradle for fixing cable tie and cable tie with identification and marking tab.				
■ Material: PA6.6				
Self-adhesive bases				
For max. tie width 3.6 mm	Clear	100	19/19/5.8	IMT47000
For max. tie width 4.8 mm	Clear	100	28/28/6.4	IMT47001
Cradle				
For max. tie width 7.8 mm	Clear	100	22/16/9.6	IMT47002
Cable tie with ID tab				
Cable tie with ID tab 100 x 2.5 mm	Clear	100	100/2.5	IMT47004

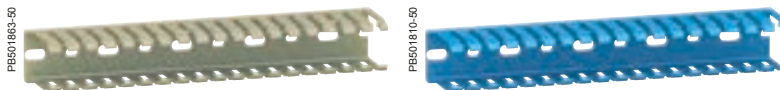
Cable management Ducts



Characteristics	Corrugated cable tube	Spiral cable duct	Lyre-shaped clamps	Steel wired cable tray																																																	
	<ul style="list-style-type: none"> ■ Corrugated tube allowing cable entry between the structure and the door. ■ Free from halogens and heavy metals. ■ UV protection. 	<ul style="list-style-type: none"> ■ Spiral strip for bundling cables. ■ Allows cables to enter between the body and the door. 	<ul style="list-style-type: none"> ■ Clip-on clamps designed for direct installation on the 19" racks, Telequick mounting plates and symmetric DIN rails. 	<ul style="list-style-type: none"> ■ Mounting on the cable supports. ■ Dimensions (2 types): <ul style="list-style-type: none"> ■ 1845 x 200 x 35 mm. ■ 1845 x 200 x 54 mm. 																																																	
Material	Low-density polyethylene (LDPE)	-	-	Zinc-coated steel wire																																																	
Colour	Black	Colourless	Black	-																																																	
Supply	One 25 m reel	One 50 m reel	10 units. Reference by unit. Order by multiples of 10 (10, 20, 30...)	1 vertical steel wired cable tray and fixing elements																																																	
	<table border="1"> <thead> <tr> <th colspan="3">Ø (mm)</th> <th>References</th> </tr> <tr> <th>Nominal</th> <th>Inner</th> <th>Outer</th> <th></th> </tr> </thead> <tbody> <tr> <td>17</td> <td>16.6</td> <td>21.2</td> <td>NSYCPT17</td> </tr> <tr> <td>29</td> <td>29</td> <td>34.5</td> <td>NSYCPT29</td> </tr> <tr> <td>37</td> <td>36</td> <td>42.4</td> <td>NSYCPT37</td> </tr> <tr> <td>50</td> <td>47.7</td> <td>54.5</td> <td>NSYCPT50</td> </tr> </tbody> </table>	Ø (mm)			References	Nominal	Inner	Outer		17	16.6	21.2	NSYCPT17	29	29	34.5	NSYCPT29	37	36	42.4	NSYCPT37	50	47.7	54.5	NSYCPT50	<table border="1"> <thead> <tr> <th rowspan="2">Tightening range (mm)</th> <th colspan="2">Ø (mm)</th> <th rowspan="2">References</th> </tr> <tr> <th>Inner</th> <th>Outer</th> </tr> </thead> <tbody> <tr> <td>12 to 100</td> <td>9</td> <td>12</td> <td>NSYTC12100</td> </tr> </tbody> </table>	Tightening range (mm)	Ø (mm)		References	Inner	Outer	12 to 100	9	12	NSYTC12100	<table border="1"> <thead> <tr> <th>Use</th> <th>References</th> <th rowspan="2">Necessary depth (mm)</th> <th rowspan="2">References</th> </tr> </thead> <tbody> <tr> <td>For Telequick mounting plates and 19" racks</td> <td>AK2LA39</td> <td>35</td> <td>NSYBPC3</td> </tr> <tr> <td>For symmetric DIN rail 90 x 2.5 mm cables</td> <td>AK2LD01</td> <td>54</td> <td>NSYBPC5</td> </tr> <tr> <td>For symmetric DIN rail 75 x 2.5 mm cables</td> <td>AK2LD02</td> <td></td> <td></td> </tr> </tbody> </table>	Use	References	Necessary depth (mm)	References	For Telequick mounting plates and 19" racks	AK2LA39	35	NSYBPC3	For symmetric DIN rail 90 x 2.5 mm cables	AK2LD01	54	NSYBPC5	For symmetric DIN rail 75 x 2.5 mm cables	AK2LD02		
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For symmetric DIN rail 90 x 2.5 mm cables	AK2LD01	54	NSYBPC5																																																		
For symmetric DIN rail 75 x 2.5 mm cables	AK2LD02																																																				
<h3>Fixing support for corrugated tube</h3> <div style="display: flex;"> <div style="flex: 1;"> <p>PB500963-19</p> <p>PB500964-20</p> </div> <div style="flex: 2;"> <ul style="list-style-type: none"> ■ Mounting options: <ul style="list-style-type: none"> □ 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. ■ 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. ■ Supply: 10 units and fixing elements. The support is supplied with its cover. </div> </div> <table border="1"> <thead> <tr> <th>Model (n. Ø)</th> <th>References</th> </tr> </thead> <tbody> <tr> <td>17</td> <td>NSYCPTS17</td> </tr> <tr> <td>29</td> <td>NSYCPTS29</td> </tr> <tr> <td>37</td> <td>NSYCPTS37</td> </tr> <tr> <td>50</td> <td>NSYCPTS50</td> </tr> </tbody> </table> <p>n. Ø = nominal diameter.</p>					Model (n. Ø)	References	17	NSYCPTS17	29	NSYCPTS29	37	NSYCPTS37	50	NSYCPTS50																																							
Model (n. Ø)	References																																																				
17	NSYCPTS17																																																				
29	NSYCPTS29																																																				
37	NSYCPTS37																																																				
50	NSYCPTS50																																																				

Cable management

Ducts



Characteristics			Cable-duct
			With lateral through slots and rear perforations.
Material			Rigid PVC
Colour			RAL 7030 grey or RAL 5000 blue
Standards			Compliance with standards VDE 0660/506 and DIN 43659
Other characteristics			<ul style="list-style-type: none"> ■ 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)
Supply			8 units. Supplied in lengths of 2 m
Width (mm)	Height (mm)	Color	References
25	25	Grey	AK2GD2525
	50	Grey	AK2GD2550
30	35	Blue	AK2GA33
	55	Blue	AK2GA35
	90	Blue	AK2GA39
	144	Blue	AK2GA315
37.5	50	Grey	AK2GD3750
	75	Grey	AK2GD3775
50	50	Grey	AK2GD5050
	75	Grey	AK2GD5075
60	55	Blue	AK2GA65
	90	Blue	AK2GA69
	144	Blue	AK2GA615
75	50	Grey	AK2GD7550
	75	Grey	AK2GD7575
100	75	Grey	AK2GD10075
125	75	Grey	AK2GD12575

Cable-duct accessories



PB500956-26



PB500218-40



PB500957-47

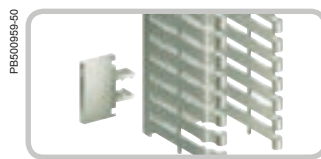


Characteristics	Retention bars	Ø 22 mm cable-duct support	Cable-duct support on technical upright
	<ul style="list-style-type: none"> ■ Fixed between 2 cable-duct slats by a hinged screw, preventing cable dropout. ■ They can be cut to length to adapt to the width of the ducting. 	Installed on the door of the wall-mounting or floor-standing enclosure associated with Ø 22 mm elements.	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	Flameproof high-impact polystyrene	Treated steel	Galvanised steel
Supply	50 units. Reference by unit. Order by multiples of 50 (50, 100, 150...)	10 units. Reference by unit. Order by multiples of 10 (10, 20, 30...)	10 units. Reference by unit. Order by multiples of 10 (10, 20, 30...)
References	NSYCDRB	NSYSPCP	NSYCDSD

Cable management Ducts



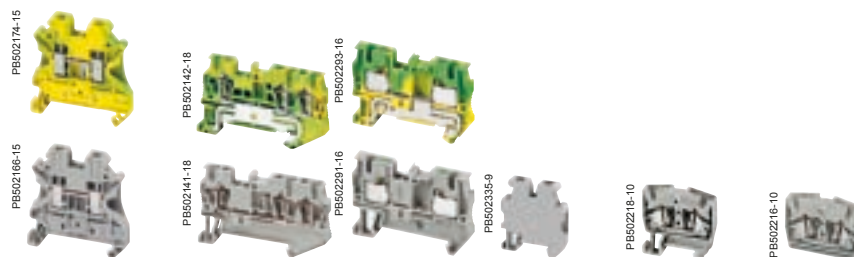
Covers for cable-duct	
Replacement covers.	
Rigid PVC	
RAL 7030 grey or RAL 5000 blue	
Compliance with standards VDE 0660/506 and DIN 43659	
<ul style="list-style-type: none"> ■ Temperature resistance: -5 ... +60°C ■ Behaviour in fire: material V0 according to UL 94 ■ Fire resistance: 960°C according to IEC 60695-2-1/1 ■ Maximum capacity of H07.V.K 1.5 mm² flexible wire (filling factor: 0.6) 	
8 unit. Supplied in lengths of 2 m	
AK2CD25	
AK2CA3	
AK2CD37	
AK2CD50	
AK2CA6	
AK2CD75	
AK2CD100	
AK2CD125	



Plastic cable-duct support	Label frame	Insulated-head screw
<ul style="list-style-type: none"> ■ 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. ■ Respects electrical insulation. 	In transparent plastic, clipping onto the slats of the cable ducts.	<ul style="list-style-type: none"> ■ M5 x 10 mm slotted hexagonal head. ■ Respects electrical insulation.
Black polyamide. Behaviour in fire: V0 according to UL 94	Polycarbonate	-
20 units. Reference by unit. Order by multiples of 20 (20, 40, 60...)	<ul style="list-style-type: none"> ■ 50 units. Reference by unit. Order by multiples of 50 (50, 100, 150...) ■ Paper labels supplied 	100 units. Reference by unit. Order by multiples of 100 (100, 200, 300...)
NSYSPC	NSYCDL	NSYSM10M5HP

Terminal blocks

Selection guide



Characteristics		Connection technology						
References								
Type of terminal block	Cross section area	Colour	Screw tech	Spring tech	Push-in tech	Miniature screw for 15 mm DIN rail	Miniature spring for 15 mm DIN rail	Miniature spring for direct mount
Passthrough	2.5 mm ² (2 pts)	Grey	NSYTRV22	NSYTRR22	NSYTRP22	NSYTRV22M	NSYTRR22M	NSYTRR22MF
		Blue	NSYTRV22BL	NSYTRR22BL	NSYTRP22BL	NSYTRV22MBL	NSYTRR22MBL	NSYTRR22MFBL
		Orange	NSYTRV22AR	NSYTRR22AR	NSYTRP22AR	-	-	NSYTRR22MFF*
	2.5 mm ² (3 pts)	Grey	-	NSYTRR23	NSYTRP23	-	-	-
		Blue	-	NSYTRR23BL	NSYTRP23BL	-	-	-
		Orange	-	NSYTRR23AR	NSYTRP23AR	-	-	-
	2.5 mm ² (4 pts, 1 level)	Grey	-	NSYTRR24	NSYTRP24	-	NSYTRR24M	NSYTRR24M
		Blue	-	NSYTRR24BL	NSYTRP24BL	-	NSYTRR24MBL	NSYTRR24MBL
	2.5 mm ² (4 pts, 2 levels)	Grey	NSYTRV24D	NSYTRR24D	NSYTRP24D	-	-	-
		Blue	NSYTRV24DBL	NSYTRR24DBL	NSYTRP24DBL	-	-	-
	4 mm ² (2 pts)	Grey	NSYTRV42	NSYTRR42	NSYTRP42	NSYTRV42M	-	-
		Blue	NSYTRV42BL	NSYTRR42BL	NSYTRP42BL	NSYTRV42MBL	-	-
		Orange	NSYTRV42AR	NSYTRR42AR	-	-	-	-
	4 mm ² (3 pts)	Grey	NSYTRV43	NSYTRR43	NSYTRP43	-	-	-
		Blue	NSYTRV43BL	NSYTRR43BL	NSYTRP43BL	-	-	-
		Orange	NSYTRV43AR	-	-	-	-	-
	4 mm ² (4 pts, 1 level)	Grey	NSYTRV44	NSYTRR44	NSYTRP44	-	-	-
		Blue	NSYTRV44BL	NSYTRR44BL	NSYTRP44BL	-	-	-
	4 mm ² (4 pts, 2 levels)	Grey	NSYTRV44D	NSYTRR44D	-	-	-	-
		Blue	NSYTRV44DBL	NSYTRR44DBL	-	-	-	-
	6 mm ² (2 pts)	Grey	NSYTRV62	NSYTRR62	-	-	-	-
		Blue	NSYTRV62BL	NSYTRR62BL	-	-	-	-
	10 mm ² (2 pts)	Grey	NSYTRV102	NSYTRR102	-	-	-	-
Blue		NSYTRV102BL	NSYTRR102BL	-	-	-	-	
16 mm ² (2 pts)	Grey	NSYTRV162	NSYTRR162	-	-	-	-	
	Blue	NSYTRV162BL	NSYTRR162BL	-	-	-	-	
150 mm ² (2 pts)	Grey	NSYTRV1502BB	-	-	NSYTRV22MPE	NSYTRR22MPE	-	
Earth protection	2.5 mm ² (2 pts)	Green	NSYTRV22PE	NSYTRR22PE	NSYTRP22PE	-	-	-
	2.5 mm ² (3 pts)	Green	-	NSYTRR23PE	NSYTRP23PE	-	-	-
	2.5 mm ² (4 pts)	Green	-	NSYTRR24PE	NSYTRP24PE	-	-	-
	4 mm ² (2 pts)	Green	NSYTRV42PE	NSYTRR42PE	NSYTRP42PE	NSYTRV42MPE	-	-
	4 mm ² (3 pts)	Green	NSYTRV43PE	NSYTRR43PE	NSYTRP43PE	-	-	-
	4 mm ² (4 pts)	Green	NSYTRV44PE	NSYTRR44PE	NSYTRP44PE	-	-	-
	6 mm ² (2 pts)	Green	NSYTRV62PE	NSYTRR62PE	-	-	-	-
	10 mm ² (2 pts)	Green	NSYTRV102PE	NSYTRR102PE	-	-	-	-
16 mm ² (2 pts)	Green	NSYTRV162PE	NSYTRR162PE	-	-	-	-	
Knife disconnect	2.5 mm ² (2 pts)	Grey	NSYTRV42ST (1)	NSYTRR22SC	NSYTRP22SC	-	-	-
		Orange	NSYTRV42STAR (1)	NSYTRR22SCAR	-	-	-	-
	2.5 mm ² (3 pts)	Grey	-	NSYTRR23SC	NSYTRP23SC	-	-	-
		Orange	-	NSYTRR23SCAR	-	-	-	-
		Grey	NSYTRV42SCD (1)	NSYTRR24SCD	-	-	-	-
Fuse disconnect	4 mm ² (2 pts)	Black	NSYTRV42SF5	-	-	-	-	
	5 x 20 mm fuse	Black (12 V)	NSYTRV42SF5LD (2)	-	-	-	-	
		Black (230 V)	NSYTRV42SF5LA (2)	-	-	-	-	
Basic disconnect (3)	4 mm ² (2 pts)	Grey	NSYTRV42TB	NSYTRR22TB	NSYTRP42TB	-	-	
Measuring transducer	6 mm ² (2 pts) disconnect	Grey/Orange	NSYTRV62TTD	-	-	-	-	
	6 mm ² (2 pts)	Grey	NSYTRV62TT	-	-	-	-	
	6 mm ² (2 pts)	Green	NSYTRV62TTPE	-	-	-	-	

* Grey terminal with flange.

(1) 4 mm² terminal, with 2 test points.

(2) With light indicator.

(3) Fuse or component carrier not supplied.

Terminal blocks

Selection guide



Accessories						
	Miniature spring for direct mount	End plate for screw TBs	End plate for spring TBs	End plate for push-in TBs	Plug-in bridge	Marking strips 10 characters
	NSYTRR22MP	NSYTRAC22	NSYTRACR22	NSYTRACR22	NSYTRAL22	NSYTRAB510
	NSYTRR22MPBL	NSYTRAC22BL	NSYTRACR22BL	NSYTRACR22BL	NSYTRAL23	NSYTRAB520
	-	-	-	-	NSYTRAL24	NSYTRAB530
	-	-	NSYTRACR23	NSYTRACR23	NSYTRAL25	NSYTRAB540
	-	-	NSYTRACR23BL	NSYTRACR23BL	NSYTRAL210	NSYTRAB550
	-	-	-	-	NSYTRAL210BL	...
	NSYTRR24MP	-	NSYTRACR24	NSYTRACR24	NSYTRAL210GR	NSYTRAB590
	NSYTRR24MPBL	-	NSYTRACR24BL	NSYTRACR24BL	NSYTRAL220	NSYTRAB5100
	-	NSYTRACE24	NSYTRACRE24	NSYTRACRE24		NSYTRAB51100
	-	-	-	-		
	-	NSYTRAC22	NSYTRACR42	NSYTRACR42	NSYTRAL42	NSYTRAB610
	-	NSYTRAC22BL	-	-	NSYTRAL43	NSYTRAB620
	-	-	-	-	NSYTRAL44	NSYTRAB630
	-	NSYTRAC23	NSYTRACR43	NSYTRACP43	NSYTRAL45	NSYTRAB640
	-	-	-	-	NSYTRAL410	NSYTRAB650
	-	-	-	-	NSYTRAL410BL	...
	-	NSYTRAC24	NSYTRACR44	NSYTRACP44	NSYTRAL410GR	NSYTRAB690
	-	-	-	-	NSYTRAL420	NSYTRAB6100
	-	NSYTRACE24	NSYTRACRE44	-		NSYTRAB61100
	-	-	-	-		
	-	NSYTRAC22	NSYTRACR62	-	NSYTRAL62	NSYTRAB810
	-	NSYTRAC22BL	-	-	NSYTRAL610	NSYTRAB820
	-	NSYTRAC22	NSYTRACR102	-	NSYTRAL102	NSYTRAB1010
	-	NSYTRAC22BL	-	-	-	NSYTRAB1020
	-	NSYTRAC162	NSYTRACR162	-	NSYTRAL162	NSYTRAB1010
	-	-	-	-	-	NSYTRAB1020
	-	NSYTRAC952	-	-	NSYTRAL1502	-
	-	NSYTRAC22	NSYTRACR22	NSYTRACR22		
	-	-	NSYTRACR23	NSYTRACR23		
	-	-	NSYTRACR24	NSYTRACR24		
	-	NSYTRAC22	NSYTRACR42	NSYTRACR42		
	-	NSYTRAC23	NSYTRACR43	NSYTRACP43		
	-	NSYTRAC24	NSYTRACR44	NSYTRACP44		
	-	NSYTRAC22	NSYTRACR62	-		
	-	NSYTRAC22	NSYTRACR102	-		
	-	NSYTRAC162	NSYTRACR162	-		
	-	Included	NSYTRACR23	NSYTRACPK22		
	-	Included	-	-		
	-	-	NSYTRACR24	NSYTRACPK23		
	-	-	-	-		
	-	NSYTRACE24	Included	-		
	-	Included	-	-		
	-	Included	-	-		
	-	Included	-	-		
	-	Included	NSYTRACR23	NSYTRACR42		
	-	NSYTRACT22	-	-		
	-	NSYTRACT22	-	-		
	-	NSYTRACT22	-	-		

Cable ends compatible with all technologies	
Wires Cross section area	References
0.5 mm ²	DZ5CE005 DZ5CA005
0.75 mm ²	DZ5CE007 DZ5CA007
1 mm ²	DZ5CE010 DZ5CA010
1.5 mm ²	DZ5CE015 DZ5CA015
2.5 mm ²	DZ5CE025 DZ5CA025
4 mm ²	DZ5CE042 DZ5CA042
6 mm ²	DZ5CE062 DZ5CA062
10 mm ²	DZ5CA102
16 mm ²	DZ5CA162
35 mm ²	DZ5CA352
50 mm ²	DZ5CA502

Lighting and power sockets

LED lamps

New

PB50389-43



Characteristics		Multi-Fixing LED Lamps						
		This LED lamps are designed to optimise the life time, consumption, space and accessibility inside the enclosure, as well as having three fixing option as standard.						
Colour	Black RAL 9005							
Ingress protection rating	IP20 according to IEC60529							
Standards	<ul style="list-style-type: none"> ■ IEC 60598 ■ UL 94: for plastic components ■ UL508A: Control Panel 		<ul style="list-style-type: none"> ■ UL1598: Lamps ■ UL8750: LED for lighting ■ EN55015: EMC 					
Other characteristics	<ul style="list-style-type: none"> ■ Built-in switch ■ Power consumption: 10 W ■ Frequency: 50/60 Hz ■ Power factor: <ul style="list-style-type: none"> □ V AC lamps: 0,9 □ V DC lamps: 1 ■ Luminosity: 640 lm* ■ Light Temperature: 4000 K* ■ LED service life: 25000 h* 		<ul style="list-style-type: none"> ■ Casing: Plastic UL94 V-0 ■ Degree of insulation: <ul style="list-style-type: none"> □ Class I - Lamps with socket □ Class II - Lamps without socket ■ Compliant with RoHS and Reach ■ Ambiance temperature: <ul style="list-style-type: none"> □ Operating: -16°C to +65°C (-3°F to +149°F) □ Storage: -10°C to +60°C (-14°F to +140°F) ■ Max. 2 Apms and 5 lamps in serial connection 					
Connections	<ul style="list-style-type: none"> ■ 3 m power black or orange cable with quick connector (Not supplied. See reference below) ■ 1.5 m interconnection black or orange cable with quick connectors (Not supplied. See reference below) According to the directive IEC 60204-1: <ul style="list-style-type: none"> ■ Black cables: power circuits for switch or DC voltage. ■ Orange cables: external voltage that may be present even if the cabinet is turned off. 							
Supply	1 lamp and fixing elements							
Lamp model	Lamps		Cables					
	Socket	References	Standard	Black cables Power (3 m)	Interconnection (1.5 m)	Orange cables Power (3 m)	Interconnection (1.5 m)	
With socket 120 / 230 V AC	SCHUKO	NSYLAMLDS	IEC	NSYLAM3M	NSYLAM1M	NSYLAM3MN	NSYLAM1MN	
	UTE	NSYLAMLDF		NSYLAM3M	NSYLAM1M	NSYLAM3MN	NSYLAM1MN	
	British	NSYLAMLDB		NSYLAM3M	NSYLAM1M	NSYLAM3MN	NSYLAM1MN	
	USA	NSYLAMLDU	UL	NSYLAM3MUL	NSYLAM1MUL	NSYLAM3MULN	NSYLAM1MULN	
Without socket 120 / 230 V AC	-	NSYLAML	IEC	NSYLAM3M	NSYLAM1M	NSYLAM3MN	NSYLAM1MN	
	-		UL	NSYLAM3MUL	NSYLAM1MUL	NSYLAM3MULN	NSYLAM1MULN	
Without socket With presence detection 230 V AC	-	NSYLAMLDD	IEC	NSYLAM3M	NSYLAM1M	NSYLAM3MN	NSYLAM1MN	
	-		UL	NSYLAM3MUL	NSYLAM1MUL	NSYLAM3MULN	NSYLAM1MULN	
Without socket - DC 24-48 V DC	-	NSYLAMLVDC	IEC	NSYLAM3MDC	NSYLAM1MDC	-	-	
	-		UL	NSYLAM3MDCUL	NSYLAM1MDCUL	-	-	

* Approximate values.

PB501714-55



Rack for VDI

- 1 U, 19" rack. For lamp installation in VDI enclosures.
- **Supply:** supplied with fixing elements.

Reference

NSYLAM1U

★ Fixing options

PB503405-34



Fixing by sliding brackets.

PB503411-34



Fixing to DIN rail.

PB503410-34



Magnetic fixing.

Lighting and power sockets LED lamps

New



AC model



AC model



DC model



DC model

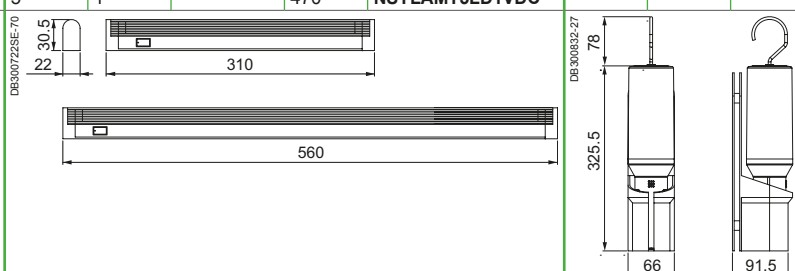
Characteristics	3 pole female connectors	3 pole male connectors
	Designed to connect Multi-Fixing LED Lamps.	
Colour	AC: Black DC: Black (body) and brown (head)	
Ingress protection rating	IP20	
Rated current	16 A	
Rated voltage	250 V	
Strain relief	Yes	
Connection type for cabling	Screw connection	
Material	Polyamide	
Dimensions	<ul style="list-style-type: none"> ■ Length: 53.2 mm ■ Width: 23 mm ■ Height: 13.8 mm 	
Connection data	<ul style="list-style-type: none"> ■ Cable diameter: 9 mm ■ Cable diameter 2: 5.5 mm ■ Cross section solid: 2.5 mm² ■ Cross section solid 2: 0.5 mm² ■ Connection cross section stranded (max.): 2.5 mm² ■ Cross section stranded 2: 0.5 mm² 	
References		
AC model	NSYLAMACF	NSYLAMACM
DC model	NSYLAMDCF	NSYLAMDCM

Lighting and power sockets

LED lamps



Characteristics	Cost-effective LED Lamps					Portable LED lamp				
	This LED lamp is designed to optimise the cost benefit relation and can be used in almost all enclosures respecting the dimensions. It can be interconnected using a single power source: <ul style="list-style-type: none"> ■ 5 W lamps: max. 10 lamps interconnected, ■ 10 W lamps: max. 5 lamps interconnected. 					This LED portable lamp is designed to be installed as enclosure lamp or maintenance lamp bringing mobility, resistance, versatility and durability. <ul style="list-style-type: none"> ■ Double function: <ul style="list-style-type: none"> □ internal enclosure lamp, □ maintenance lamp. 				
Colour	Aluminium					Black RAL 9005				
Ingress protection rating	IP20 according to IEC60529					IP20 according to IEC60529				
Standards	<ul style="list-style-type: none"> ■ IEC 60598 					<ul style="list-style-type: none"> ■ IEC 60598 ■ UL 94: for plastic components 				
Other characteristics	<ul style="list-style-type: none"> ■ Built-in switch ■ Light Temperature: 4000 K* ■ LED service life: 25000 h* ■ Casing: <ul style="list-style-type: none"> □ Plastic for transparent cover and connectors □ Aluminium for body ■ Degree of insulation: Class I ■ Compliant with RoHS and Reach ■ Ambiance temperature: <ul style="list-style-type: none"> □ Operating: -16°C to +65°C (-3°F to +149°F) □ Storage: -10°C to +60°C (-14°F to +140°F) 					<ul style="list-style-type: none"> ■ E27 LED lamp ■ Built-in recessed switch ■ Light temperature: 4000 K* ■ LED service life: 25000 h* ■ Power cable 3 m long with male plug (European standard type) ■ Casing: plastic, UL94 V-0 ■ Degree of insulation: Class II ■ Compliant with RoHS and Reach ■ Ambiance temperature: <ul style="list-style-type: none"> □ Operating: -16°C to +65°C (-3°F to +149°F) □ Storage: -10°C to +60°C (-14°F to +140°F) 				
Supply	<ul style="list-style-type: none"> ■ 1 lamp and fixing elements ■ 3 m connection cable with quick connector ■ 1 m interconnection cable with quick connectors 					<ul style="list-style-type: none"> ■ 1 lamp with 3 m power cable with European universal plug ■ 1 fix base ■ Fixing elements 				
Voltage	Power	Power factor	Frequency	Luminous flux	References	Power	Power factor	Frequency	Luminous flux	Reference
(V)	(W)		(Hz)	(lm)*		(W)		(Hz)	(lm)*	
120/230 V AC	5	0.8	50-60	500	NSYLAMT5LD1	10	0,5	50-60	1100	NSYLAMPORLTD
	10	0.9	50-60	1100	NSYLAMT5LD2					
24/48 V DC	5	1	-	470	NSYLAMT5LD1VDC	-	-	-	-	-



* Approximate values.

★ Fixing options



Magnetic fixing.



Fixing by adapter brackets.

★ Use options



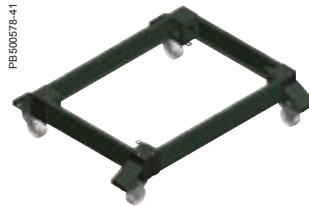
Fixing by adhesive or by screws.



Used on workbench.

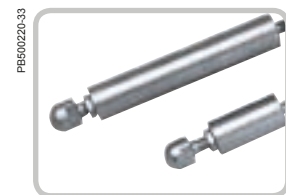
Floor accessories

Casters and feet for floor-standing enclosures



Characteristics	Transport casters*	Enclosure casters
	<ul style="list-style-type: none"> 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. For use on flat surfaces. Height: 110 mm. 	<ul style="list-style-type: none"> Double casters. Height: 92 mm. Diameter: 64 mm.
Maximum load	200 kg	135 kg per caster 1000 kg when it is installed directly on the upright, 400 kg when it is installed on the frame
Supply	4 transport casters (2 with a blocking system) and fixing elements	4 casters and fixing elements
References		
	NSYSTW 	NSYSW

* Only for Spacial SM, SF and SD.



Characteristics	Levelling feet		Hygienic stainless-steel feet
	Fixed	Adjustable	
	Height: 42 mm.	Height: 22 mm.	Hygienic feet specific for harsh environments. Adjustable: 140 to 200 mm.
Material	Steel	-	316L stainless steel
Maximum load	400 kg	-	800 kg
Supply	Set of 4 floor feet		Set of 4 hygienic feet
References			
	NSYSPSJ	NSYSPRJ	NSYPHX200

Door accessories

Switches and pockets

Switches

S3D S3X



SM SF SFX



Characteristics	Door switch for wall-mounting enclosures	Door switch for floor-standing enclosures	
	<ul style="list-style-type: none"> 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. 	<ul style="list-style-type: none"> 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	1 door switch and fixing elements	
	Reference NSYINLCRN	For ranges SF & SFX SM	References NSYDCM20 NSYMDCM20

Pockets



SM SF SMX SFX



Characteristics	Plastic document pocket	Metal document pocket			
	Attachment made by adhesive tape.	Direct fixing on the door reinforcement frame. Height adjustable in steps of 25 mm.			
Material	Polystyrene (PS)	Steel			
Finish	-	Structured finish, epoxy-polyester powder			
Colour	RAL 7035 grey (NSYDPA4: RAL 9001)	RAL 7035 grey			
Maximum load	-	-			
Supply	1 plastic document pocket	1 metal document pocket and fixing elements			
Dimensions (mm)	References				
Doc. format	A	B	C		
A5	174	188	22	NSYDPA5	-
A4	230	247	23	NSYDPA4	-
A4	234	278	40	NSYDPA44 (1)	-
A3	285	476	35	NSYDPA3	-
Width (D)					
600	-	-	-		NSYSDP6M
800	-	-	-		NSYSDP8M

(1) Not compatible with 19" chassis or modular distribution.

Door accessories

Door accessories for floor-standing enclosures

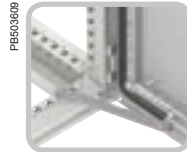
SM **SF** **SMX** **SFX**



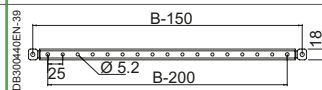
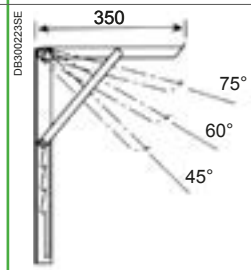
SM



SF



Characteristics	Folding support tray	Door cross rails	Floor-standing door retainer
	<ul style="list-style-type: none"> 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. 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°. 	<ul style="list-style-type: none"> Direct mounting cross rails on the profiles of the reinforcement frame of the door. Adjustable height with a pitch of 25 mm. 	<ul style="list-style-type: none"> 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.
Material	Steel	Galvanised steel	-
Finish	Structured finish, epoxy-polyester powder	-	-
Colour	RAL 7035 grey	-	-
Thickness	15/10 ^o mm	20/10 ^o mm	-
Maximum load	30 kg	-	-
Supply	1 folding support tray and fixing elements	2 cross rails and bag of fixings	Door stop and fixing elements
Dimensions (mm)	References		
Width (B)			
400	-	NSYSDCR4	-
500	NSYSDT5	NSYSDCR5	-
600	NSYSDT6	NSYSDCR6	-
800	NSYSDT8	NSYSDCR8	-
1000	-	NSYSDCR10	-
Door stop model			For enclosures
Mechanical	-	-	Spacial SF
Pneumatic	-	-	Spacial SM
			Limit
			Spacial SF
			Spacial SM
			References
			Spacial SF
			Spacial SM



* Compatible with SFX.

Door accessories

Door accessories for wall-mounting enclosures

S3D



PBE00223-45

S3D



PBE00893-40

Characteristics	Wall-mounting door retainer	
	Steel To block the door in the open position. <ul style="list-style-type: none"> ■ It is installed on enclosures with heights from 400 mm and widths from 300 mm. ■ Door opening angle: 120°. ■ 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 285. ■ Warning: cannot be installed on 19" mounting plates or on enclosures equipped with internal door. 	Polyamide To block the door in the open position. <ul style="list-style-type: none"> ■ It is installed on the perforated rails of the enclosure doors at the required height. ■ It is only installed on enclosures with a height of less than 400 mm (no perforated rails).
Material	Steel	Polyamide 6 (PA6)
References	NSYAEDRSCST	NSYAEDRS3DPA6

Door accessories

Windows

PB500984-41



PB500985-23



PB500986-33

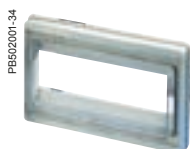


Characteristics	Window for modular equipment						Plastic window		
	They provide viewing and access to the inside of the enclosure while keeping the IP65 protection degree.						Plastic window with hinged cover for installation on front panel. ■ External dimensions: 213 x 133 mm. ■ Internal dimensions of the window: 180 x 78 mm.		
Material	Transparent polycarbonate						■ Cover: polycarbonate ■ Body: PVC		
Ingress protection rating	IP65 according to IEC 60529						IP55 according to IEC 60529		
Supply	1 window						1 plastic window delivered with a drilling template		
	N.° of modules	Fig. n.°	A	B	C		References		Reference
					Low cover	High cover	Low cover	High cover	
	2	1	78	60	15	25	NSYVA272M	NSYVA272MA	NSYMW10M
	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	-	
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>DE300441</p> <p>Fig. 1</p> </div> <div style="text-align: center;"> <p>DE300442</p> <p>Fig. 2</p> </div> </div>									

* In 2 rows.

Door accessories

Windows



Characteristics	Plastic window for modular equipment	Control window																																	
	Frame with transparent hinged cover for mounting modular switchgear on the front panel. Opening: 46 x 180 mm (10 modules).	<ul style="list-style-type: none"> ■ To prevent accidental handling of the control units by any unauthorised person. ■ Allows all the displayed information to be read without opening the door. ■ Equipped with hinges for opening (180°). ■ Closure by a n° 2233X lock. ■ Indoor and outdoor installation. 																																	
Material	<ul style="list-style-type: none"> ■ Cover: polycarbonate ■ Body: PVC 	Aluminium frame and 3-mm acrylic window																																	
Ingress protection rating	IP55 according to IEC 60529	IP55 according to IEC 60529																																	
Supply	1 modular front panel	1 window, fixings and instruction sheet																																	
	<p>Reference</p> <p>NSYMW10MK</p> <p>Kit for fixing the switchgear</p> <ul style="list-style-type: none"> ■ The unit is delivered assembled. ■ Supply: 1 DIN rail and two supports. <p>Reference</p> <p>NSYMW10MR</p>	<table border="1"> <thead> <tr> <th colspan="2">Dimensions (mm)</th> <th>References</th> </tr> <tr> <th>A</th> <th>B</th> <th></th> </tr> </thead> <tbody> <tr> <td rowspan="2">300</td> <td>300</td> <td>NSYCW33</td> </tr> <tr> <td>400</td> <td>NSYCW44</td> </tr> <tr> <td rowspan="3">400</td> <td>500</td> <td>NSYCW45</td> </tr> <tr> <td>600</td> <td>NSYCW46</td> </tr> <tr> <td>400</td> <td>NSYCW54</td> </tr> <tr> <td rowspan="3">500</td> <td>500</td> <td>NSYCW55</td> </tr> <tr> <td>600</td> <td>NSYCW56</td> </tr> <tr> <td>500</td> <td>NSYCW65</td> </tr> <tr> <td rowspan="2">600</td> <td>600</td> <td>NSYCW66</td> </tr> <tr> <td>600</td> <td>NSYCW86</td> </tr> <tr> <td>800</td> <td>600</td> <td></td> </tr> </tbody> </table>	Dimensions (mm)		References	A	B		300	300	NSYCW33	400	NSYCW44	400	500	NSYCW45	600	NSYCW46	400	NSYCW54	500	500	NSYCW55	600	NSYCW56	500	NSYCW65	600	600	NSYCW66	600	NSYCW86	800	600	
Dimensions (mm)		References																																	
A	B																																		
300	300	NSYCW33																																	
	400	NSYCW44																																	
400	500	NSYCW45																																	
	600	NSYCW46																																	
	400	NSYCW54																																	
500	500	NSYCW55																																	
	600	NSYCW56																																	
	500	NSYCW65																																	
600	600	NSYCW66																																	
	600	NSYCW86																																	
800	600																																		

★ Mounting example

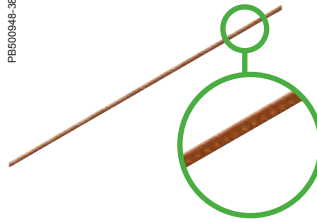


NSYMW10MK + NSYMW10MR.

Other accessories

Earthing accessories

PB500948-38



SM SF SD SMX SFX SDX

PB500959-18



Characteristics	Earthing strip	Central earthing point
	<ul style="list-style-type: none"> Perforated brass bar, 15 x 3 mm. 1 m long. 87 connection points, M5 drill holes. 	<ul style="list-style-type: none"> Connects earthing braids and cables to the structure of the enclosure. The earth connection is made by means of the M8 x 18 mm bolt.
Fixing	-	Fixing to the structure by means of self-tapping screws
Supply	1 earthing strip and fixing elements	1 central earthing point, elements for fixing to the structure, and fixings for fixing to the bolt

References

NSYECB1M153

S3D S3X

PB501000-42



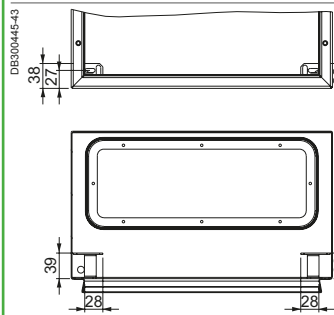
Fixing lugs for the earthing strip

- They allow the mounting of an earth-collector rail or a DIN rail at the top and bottom of an enclosure.
- Mounting incompatible with certain accessories. Please consult us.
- Fixing:** on holes made in the gutter of the enclosure.
- Supply:** 2 lugs and fixings.

Reference

NSYEDCOS

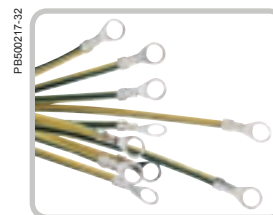
DB300445-43



NSYCEP

Other accessories

Earthing and paint accessories



Characteristics				Earth braids	Earth cables
				Guarantee the earth connection for high frequencies, avoiding the disturbing electric currents that are produced.	Make it easier to install a safe earth connection, with a perfect contact, with optimised length.
Material				Tinned copper	Brass and copper alloy terminal, green and yellow PVC insulating sheath
Supply				10 earth braids (nuts and washers not included). Reference by unit. Order by multiples of 10 (10, 20, 30...)	10 earth cables (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)	References	
130	-	6	6.4	-	NSYEL136D6
150	12	6	6.5	NSYEB156D6	-
	17	10	6.5	NSYEB1510D6	-
155	17	16	8.5	NSYEB1516D8	-
160	-	6	6.4	-	NSYEL166D6
	-	6	8.3	-	NSYEL166D8
170	-	10	8.3	-	NSYEL1710D6
200	27	25	8.5	NSYEB2025D8	-
	33	50	8.5	NSYEB2050D8	-
220	-	6	6.4	-	NSYEL226D6
	-	6	13	-	NSYEL226D13
	-	25	8.3	-	NSYEL2225D8
250	-	10	6.4	-	NSYEL2510D6
350	-	25	8.3	-	NSYEL3525D8



Characteristics	Aerosol paint can	Paint touch-up	Renovation and anti-graffiti paint		
	<ul style="list-style-type: none"> ■ Air-drying paint. ■ Content: 150 g. 	<ul style="list-style-type: none"> ■ Paint for touching up with a brush. ■ Air-drying paint. 	Paint kit with 2 components (base 80 % + hardener 20 %), specially designed for polyester enclosures, for their renovation and/or as prevention to allow removal of graffiti.		Solvent for diluting the paint and cleaning the utensils.
Supply	-	-	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 m ²)	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 m ²)	1 kg
Colour	References				
RAL 7032	NSYBPA7032	NSYTUP7032	-	-	-
RAL 7035	NSYBPA7035	NSYTUP7035	NSYAUPG1G	NSYAUPG5G	NSYAUPGS

Applicative and customised solutions

Applicative and customised solutions

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Enclosures for power distribution (terminal blocks)

Introduction

➤ The **Spacial S3DB enclosure** is made to be equipped with terminal blocks. It is ready to be equipped with a ladder mounting plate and a symmetrical DIN rail (to be ordered separately). The body does not have cable gland opening. The **Spacial S3DB enclosure** is the ideal coupling enclosure with FL21 cut-out.

PB500228-90



Safety

Welding studs on door and body (earth cables to be ordered separately).

PB500228-35



Smart

Example of installation with the ladder mounting plate.

PB500200-42



Vertical position.



PB500200-45



Horizontal position.

PB500201-50



Terminal blocks

Characteristics



Characteristics	Spacial S3DB	Spacial S3DBFL		
	<p>Body Single-piece body, folded and welded. Front rail with double sheet thickness, guttershaped.</p> <ul style="list-style-type: none"> ■ Depth 150 mm. <p>The terminal enclosure can be installed vertically (the width becomes the height).</p> <ul style="list-style-type: none"> ■ Wall-mounting directly or by means of fixing lugs (to be ordered separately). ■ 4 M8 x 25 shouldered backstuds. ■ Body without cable-gland openings. <p>Door</p> <ul style="list-style-type: none"> ■ 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 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. ■ M6 x 16 earthing screw for equipotential connection between the door and the body of the enclosure. <p>Dedicated accessories The terminal enclosure, with a depth of 150 mm, can be equipped:</p> <ul style="list-style-type: none"> ■ With 2 rails to be installed on the 4 M8 x 25 shouldered backstuds. See page 17. ■ With a symmetrical rail to be installed on the rails. See page 240. ■ With a 6-mm² earth braid to be placed between the body and the door. <p>It can also be equipped with a plain mounting plate, see page 214.</p>	<p>Body Single-piece body, folded and welded. Front rail with double sheet thickness, guttershaped.</p> <ul style="list-style-type: none"> ■ 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). <p>Door</p> <ul style="list-style-type: none"> ■ 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). To be ordered separately, see page 66 reference NSYAEDH180S3D. ■ Maximum acceptable load on the door: 50 kg/m². ■ Wall-mounting enclosure supplied with 3-mm double-bar lock as standard. ■ M6 x 16 earthing screw for equipotential connection between the door and the body of the enclosure. <p>Dedicated accessories The terminal enclosure, with a depth of 170 mm, be equipped:</p> <ul style="list-style-type: none"> ■ With 2 rails to be installed on the 4 M8 x 25 shouldered backstuds. See page 17. ■ With a symmetrical rail to be installed on the rails. See page 240. ■ With a 6-mm² earth connection to be placed between the body and the door. <p>It can also be equipped with a plain mounting plate, see page 214.</p>		
Finish	Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder		
Colour	RAL 7035 grey	RAL 7035 grey		
Ingress protection rating	IP66 according to IEC 60529	IP65 (with blanking plate ref. NSYAECPLBP) according to IEC 60529		
Mechanical protection rating	IK10 according to IEC 62262	IK10 according to IEC 62262		
References				
Height (A) (mm)	Width (B) (mm)	Depth (C) (mm)		
250	300	150	NSYS3DB25315	-
		400	NSYS3DB25415	-
		500	NSYS3DB25515	-
300	300	150	NSYS3DB3315	-
		170	-	NSYS3DBFL3317
	400	150	NSYS3DB3415	-
		170	-	NSYS3DBFL3417
		500	NSYS3DB3515	-
		600	NSYS3DB3615	-
400	300	150	NSYS3DB4315	-
		170	-	NSYS3DBFL4317
		800	NSYS3DB4815	-
500	400	150	NSYS3DB5415	-
600	400	150	NSYS3DB6415	-

Enclosures for power distribution (terminal blocks)

Dimensions

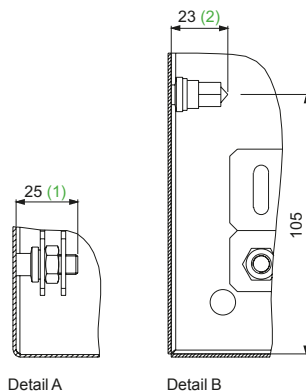
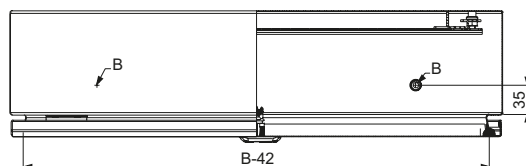
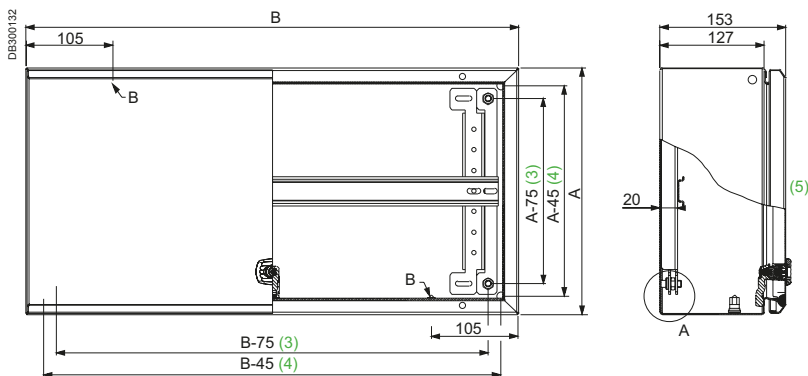
Spacial S3DB

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.

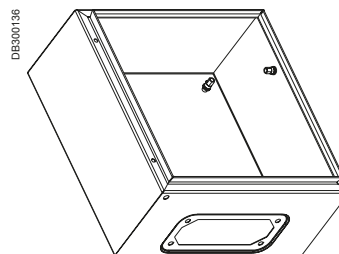
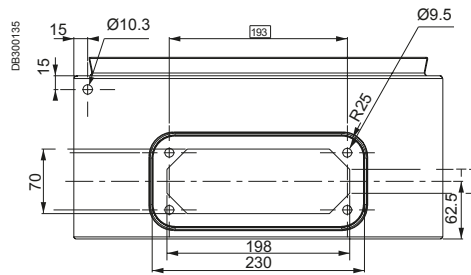
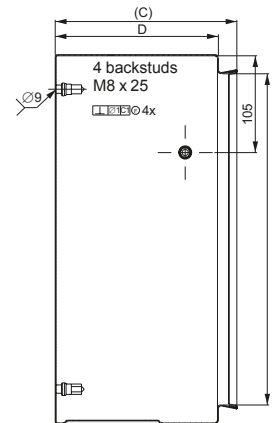
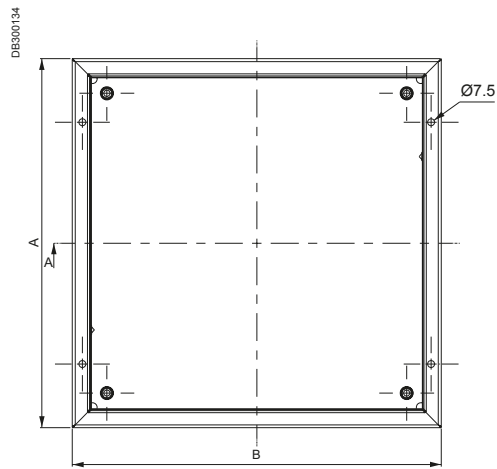
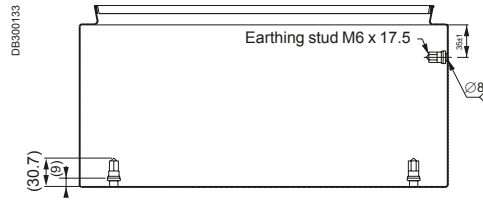
FB560228-44



Enclosures for power distribution (terminal blocks)

Dimensions

Spacial S3DBFL



Modular wall-mounting enclosures

Introduction

> The **Spacial S3DM enclosure** for modular switchgear can be equipped with:

- a modular chassis (NSYDLM•••) with cut-out front panels for 24 to 234 modules according to the dimensions and references,
 - a 6 mm² earth connection placed between the body and the door.
- The enclosure can be equipped with accessories from the Spacial standard wall-mounting range.

PB500087



S3DM enclosure (standard delivery).

PB500406-30



S3DM enclosure equipped with a DLM modular chassis.

PB500407-32



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.
- Perforated rails on the hinge side of the door, with drill holes with a diameter of 4.2 mm in steps of 25 mm.

PB500408-23



Dedicated accessories

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.

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 214.

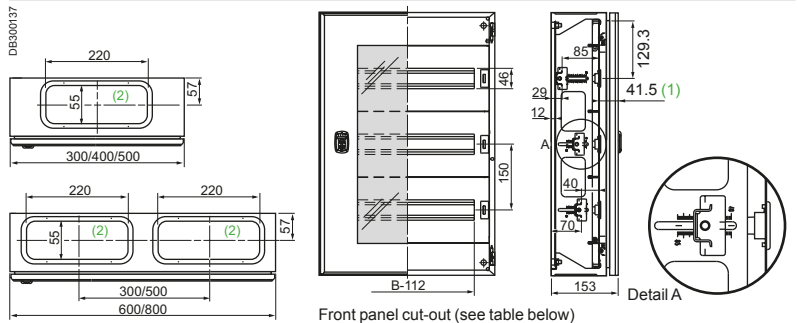
Modular wall-mounting enclosures

Characteristics



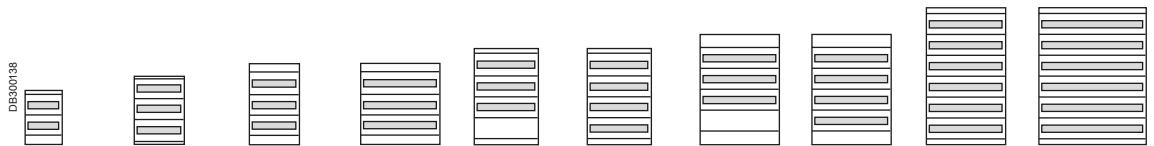
Characteristics	Spacial S3DM
	<ul style="list-style-type: none"> Single-piece body, folded and welded. Front rail with double sheet thickness, gutter-shaped. 4 M8 x 25 mm shouldered backstuds for installing chassis and step slides, leaving a space of 10 mm behind them. Cable-gland plate (245 x 80) at the top and bottom of the enclosure, guaranteeing the maximum access surface (also available in plain door).
Finish	Structured finish, epoxy-polyester powder
Colour	RAL 7035 grey
Ingress protection rating	IP66 according to IEC 60529
Mechanical protection rating	IK08 according to IEC 62262
Supply	Wall-mounting enclosure supplied with 3 mm double-bar lock as standard

References			
Height (mm)	Width (mm)	Depth (mm)	
400	300	150	NSYS3DM4315T
500	400	150	NSYS3DM5415T
600	400	150	NSYS3DM6415T
	600	150	NSYS3DM6615T
700	500	150	NSYS3DM7515T
800	600	150	NSYS3DM8615T
1000	600	150	NSYS3DM10615T
	800	150	NSYS3DM10815T



(1) Front face of the modular chassis / front face of the door.
 (2) Cable-gland plates at the top and bottom of the enclosure.

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.

The provided dimensions are with the modular chassis, which is the most commonly used accessory with this enclosure.

Modular wall-mounting enclosures

Accessories

CRN S3D S3X



Characteristics			DLM modular chassis	Plain front panel	Plain mounting plate
			<ul style="list-style-type: none"> The chassis consists of metal cut-out front panels, which can be clipped on without screws. 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. 	Metal front panels to be clipped on without screws.	Mounting plate for fixing non-modular devices.
Material			Rigid galvanised-steel structure	-	Galvanised steel
Finish			Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder	-
Colour			RAL 7035 grey	RAL 7035 grey	-
Thickness			-	-	20/10° mm
Supply			-	2 plain front panel and fixings	2 plain chassis and fixings
Height (mm)	Width (mm)	Number of modules*	References		
400	300	24	NSYDLM24	NSYCTL300DLM	NSYPMP300DLM
500	400	48	NSYDLM48	NSYCTL400DLM	NSYPMP400DLM
600	400	48	NSYDLM48P	NSYCTL400DLM	NSYPMP400DLM
	600	84	NSYDLM84P	NSYCTL600DLM	NSYPMP600DLM
700	500	66	NSYDLM66	NSYCTL500DLM	NSYPMP500DLM
	500	88	NSYDLM88	NSYCTL500DLM	NSYPMP500DLM
800	600	84	NSYDLM84	NSYCTL600DLM	NSYPMP600DLM
	600	112	NSYDLM112	NSYCTL600DLM	NSYPMP600DLM
1000	600	168	NSYDLM168	NSYCTL600DLM	NSYPMP600DLM
	800	234	NSYDLM240	NSYCTL800DLM	NSYPMP800DLM

Front-panel cut-out

Rail adjustment: 45 mm

* 1 module = 2 steps = 18 mm.

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 **NSYDLM84P** 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).

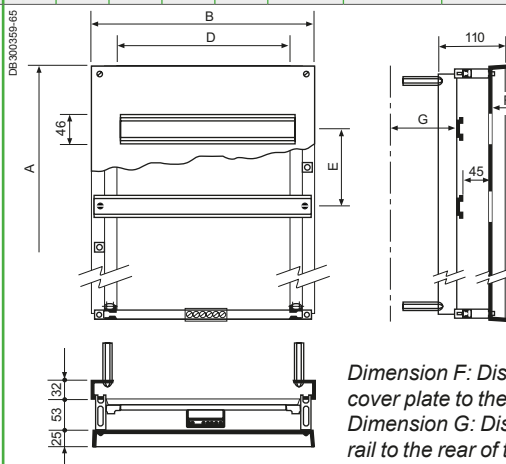
Modular wall-mounting enclosures Accessories

CRN S3D* S3X

* For Spacial S3D please consult us.



Characteristics			DL modular chassis*										
			<ul style="list-style-type: none"> ■ Dinimel chassis designed for devices with heights of 53 and 68 mm, which can be coupled directly to the enclosure plate-support bolts. ■ Distance between device rail and protective cover plate: 45 mm. 										
Material			Steel										
Finish			Metal protective cover plate										
Colour			RAL 7035 grey										
For coupling to the enclosures with normal or transparent door			Dimensions (mm)							No. of 18-mm modules	No. of rows	Approx. weight (kg)	References
Height	Width	Depth	A	B	D	E	F***	G					
300	250	150**	255	205	162	120	41	51	18	2	1.2	NSYDLR18	
400	300	150**	355	255	216	160	41	51	24	2	1.7	NSYDLR24	
	300	150**	355	255	216	110	41	51	36	3	1.7	NSYDLR36	
500	400	150**	455	355	288	130	41	51	48	3	2.4	NSYDLR48	
	400	150/200	555	355	288	130	41	51/101	64	4	3.3	NSYDLR64	
600	500	150/200	555	455	396	130	41	51/101	88	4	4.5	NSYDLR88	
	500	200	655	455	396	125	41	101	110	5	5.1	NSYDLR110	
800	600	200	755	555	486	140	41	101	135	5	7.5	NSYDLR135	



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.

* For Spacial S3D please consult us.

** 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.



Characteristics			Blanking plate
			Blanking plate for full or partial covering of the circuit-breaker windows; it can easily be cut to the required size.
Material			Plastic
Length (mm)	No. of modules	Colour	References
72	4	RAL 7032	NSYATP72G
72	4	RAL 7035	NSYATP72M
108	6	RAL 7035	NSYATP6DTM
432	24	RAL 7035	NSYATP24DTM
1100	-	RAL 7035	NSYATPUND

Accessories for modular floor-standing enclosures

Modular floor-standing enclosures



Introduction

■ The modular distribution system is made up of a range of accessories prepared for forming electric panels with high distribution capacity.

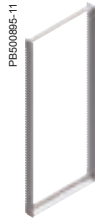
■ The accessories are installed on a chassis mounted at the front of the enclosure, such as:

- cover plates for enclosures with widths of 600 and 800 mm, 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,
- mounting plate supports for coupling non-modular equipment,
- supports for fixing cable-distribution cable ducts.

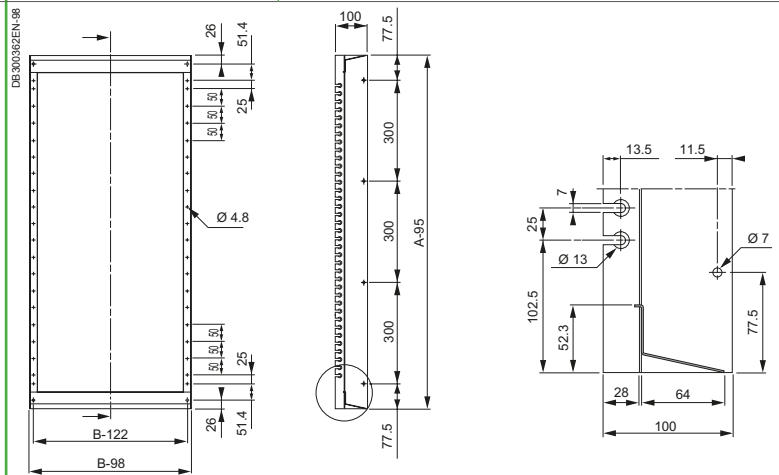
■ Sets of accessories made up of material-supporting frames with chassis and cover plates are offered for the construction of double or busbar modular chassis. All the accessories of the individual chassis system can also be combined in the same way with the double chassis or with the chassis with busbar area.

Accessories for modular floor-standing enclosures

Modular chassis



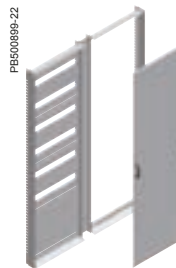
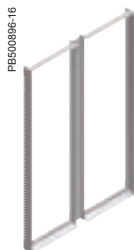
Characteristics		Single-chassis coupling set	
		<ul style="list-style-type: none"> ■ Chassis made up of vertical uprights and horizontal crossbars: □ Spacial SF: they are screwed to the front frame of the enclosure. □ Spacial SM: they are screwed to the front frame of the enclosure by means of the vertical adaptation profiles, see page 235. ■ Easy access to the inside for component installation. 	
Material		Steel	
Finish		Structured finish, epoxy-polyester powder	
Colour		RAL 7035 grey	
Supply		2 vertical uprights, 2 horizontal crossbars and fixing elements	
Height (A)	Width (B)	Maximum no. of 18-mm modules	References
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



* Installation example: see page 301.

Accessories for modular floor-standing enclosures

Modular chassis

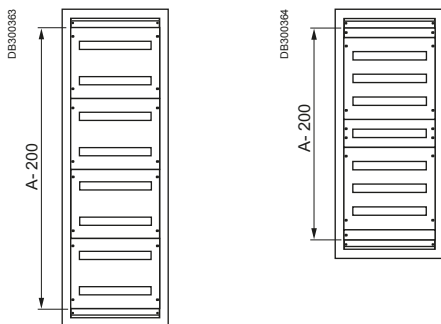


Characteristics		Double-chassis coupling set*			Chassis-coupling set with zone for busbars*		
		<ul style="list-style-type: none"> ■ Mounting on enclosures with widths of 1200 and 1600 mm. ■ Spacial SF: the double-door enclosure adaptation kit is required for enclosure widths of 1200 and 1600 mm, see page 226. ■ Spacial SM: they are screwed to the front frame of the enclosure by means of the vertical adaptation profiles, see page 235. For enclosures with a width of 1200 mm the top/bottom adjustment rails are necessary. <ul style="list-style-type: none"> ■ Set made up of two modular chassis with an intermediate central upright. 			<ul style="list-style-type: none"> ■ 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 235. ■ Assembly made up of a modular chassis with an intermediate central upright and a blanking cover plate for busbars (width 300 mm). 		
Material		Steel			Steel		
Finish		Structured finish, epoxy-polyester powder			Structured finish, epoxy-polyester powder		
Colour		RAL 7035 grey			RAL 7035 grey		
Supply		2 single-chassis coupling sets, 1 intermediate central upright and fixing elements			1 single-chassis coupling set, 1 intermediate central upright, 1 busbar blanking cover plate and fixing elements		
Height (A)	Width (B)	Maximum no. of 18-mm modules	Set made up of columns with a width (mm)	References	Maximum no. of 18-mm modules	Set made up of columns with a width (mm)	References
1400	1000	-	-	-	192	600 + 400	NSYCSHB1410
	1200	384	600 + 600	NSYDCSH1412	288	800 + 400	NSYCSHB1412
1600	1000	-	-	-	216	600 + 400	NSYCSHB1610
	1200	432	600 + 600	NSYDCSH1612	324	800 + 400	NSYCSHB1612
1800	1000	-	-	-	240	600 + 400	NSYCSHB1810
	1200	480	600 + 600	NSYDCSH1812	360	800 + 400	NSYCSHB1812
	1600	720	800 + 800	NSYDCSH1816	-	-	-
2000	1000	-	-	-	288	600 + 400	NSYCSHB2010
	1200	576	600 + 600	NSYDCSH2012	432	800 + 400	NSYCSHB2012
	1600	864	800 + 800	NSYDCSH2016	-	-	-

* Installation example: see page 301.

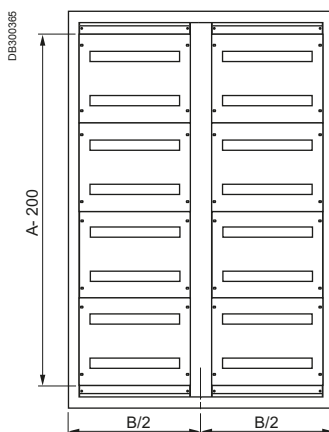
Accessories for modular floor-standing enclosures

Installation examples



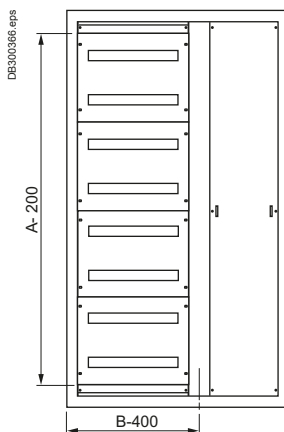
Combination of cut-out, screwed-on cover plates and single-chassis coupling set

Dimensions (mm)		No. of 18-mm modules	References		
H (A)	W (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



Combination of cut-out, screwed-on cover plates and double-chassis coupling set

Dimensions (mm)			No. of 18-mm modules	References		
H (A)	W (B)	D (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	-



Combination of cut-out, screwed-on cover plates and chassis-coupling set with busbar zone

Dimensions (mm)		No. of 18-mm modules	References		
H (A)	W (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
	1200	360	1 x NSYCSHB1812	5 x NSYMUC308	1 x NSYADC18

Accessories for modular floor-standing enclosures

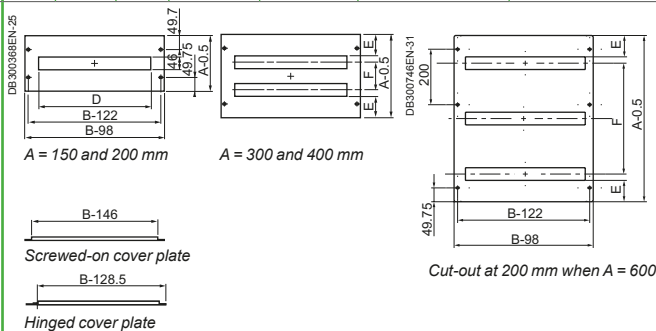
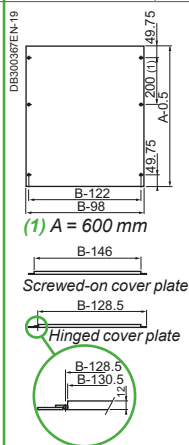
Accessories

Cover plates



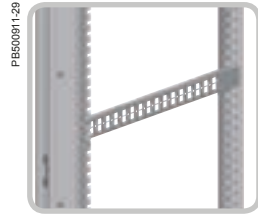
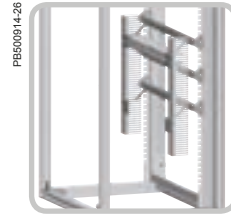
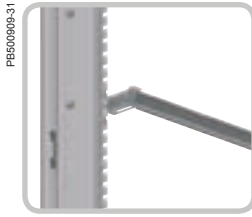
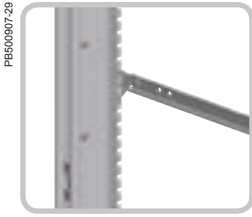
Characteristics	Plain cover plates	Cut-out cover plates	Adjustment cover plates
	<ul style="list-style-type: none"> ■ Metal cover plates for protecting control devices. ■ The cut-outs in non-modular control devices is at user's request. ■ Suitable by modules of 150 or 200 mm. ■ Versions: <ul style="list-style-type: none"> □ screwed-on plain cover plate, □ hinged plain cover plate. 	<ul style="list-style-type: none"> ■ 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 width enclosures: 24 modules per row, □ cover plates for 800-mm width enclosures: 36 modules per row. ■ Versions: <ul style="list-style-type: none"> □ screwed-on cut-out cover plate, □ hinged cut-out cover plate. 120° opening with flat hinge. 	<ul style="list-style-type: none"> ■ 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	Steel	Steel
Finish	Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder
Colour	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey
Fixing	-	-	-
Supply	1 plain cover plate and fixing elements	1 cut-out cover plate and fixing elements	2 adjustment cover plates and fixing elements

Height (A)	Width (B)	Screwed-on plain cover plate references	Hinged plain cover plate references	D	E	F	No. of cut-outs	Max. no. of 18-mm modules	Screwed-on cut-out cover plate references	Hinged cut-out cover plate references	References
50	600	-	-	-	-	-	-	-	-	-	NSYADC16
	800	-	-	-	-	-	-	-	-	-	NSYADC18
150	600	NSYMPC156	NSYMPCH156	432	-	-	1	24	NSYMUC156	NSYMUCH156	-
	800	NSYMPC158	NSYMPCH158	642	-	-	1	36	NSYMUC158	NSYMUCH158	-
200	600	NSYMPC206	NSYMPCH206	432	-	-	1	24	NSYMUC206	NSYMUCH206	-
	800	NSYMPC208	NSYMPCH208	642	-	-	1	36	NSYMUC208	NSYMUCH208	-
300	600	NSYMPC306	NSYMPCH306	432	51.75	150	2	48	NSYMUC306	NSYMUCH306	-
	800	NSYMPC308	NSYMPCH308	642	-	-	2	72	NSYMUC308	NSYMUCH308	-
400	600	NSYMPC406	NSYMPCH406	432	76.75	200	2	48	NSYMUC406	NSYMUCH406	-
	800	NSYMPC408	NSYMPCH408	642	-	-	2	72	NSYMUC408	NSYMUCH408	-
450	600	NSYMPC456	NSYMPCH456	432	51.75	150	3	72	NSYMUC456	NSYMUCH456	-
	800	NSYMPC458	NSYMPCH458	642	-	-	3	108	NSYMUC458	NSYMUCH458	-
600	600	NSYMPC606	NSYMPCH606	432	76.75	200	3	72	NSYMUC606	NSYMUCH606	-
	800	NSYMPC608	NSYMPCH608	642	-	-	3	108	NSYMUC608	NSYMUCH608	-



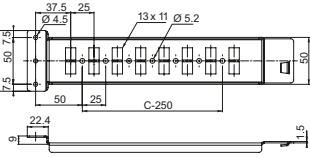
Accessories for modular floor-standing enclosures

Accessories



Set of fixed rail with supports	Set of depth-adjustable rail with supports	Cable duct fixing supports	Reinforced plate supports
<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> enclosure width 600 mm: 24 modules, enclosure width 800 mm: 36 modules. 	<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> enclosure width 600 mm: 24 modules, enclosure width 800 mm: 36 modules. 	<ul style="list-style-type: none"> Supports for fixing cable-distribution gutters in the modular chassis. Allows the fixing of gutters in horizontal and vertical position on the same plane to facilitate cable distribution. 	<p>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 220.</p>
Zinc-coated steel	Zinc-coated steel	Zinc-coated steel	Zinc-coated steel
-	-	-	-
Mounting by screws directly on the uprights of the chassis-coupling set	Mounting by screws directly on the uprights of the modular chassis-coupling set	Installation by screws directly on the rail supplied with the fixed or adjustable rail	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 231) installed vertically in the back of the enclosure (Spacial SM)
1 DIN rail, 2 fixed supports and fixing elements	1 DIN rail, 2 adjustable supports and fixing elements	6 supports (3 on the right and 3 on the left) and fixing elements	2 supports and fixing elements
References	References	References	References
NSYMFSC60	NSYMFSC60D	NSYMCDFIX	NSYMPS30
NSYMFSC80	NSYMFSC80D	NSYMCDFIX	NSYMPS40
NSYMFSC60	NSYMFSC60D	NSYMCDFIX	NSYMPS50
NSYMFSC80	NSYMFSC80D	NSYMCDFIX	NSYMPS60
NSYMFSC60	NSYMFSC60D	NSYMCDFIX	NSYMPS80
NSYMFSC80	NSYMFSC80D	NSYMCDFIX	
NSYMFSC60	NSYMFSC60D	NSYMCDFIX	
NSYMFSC80	NSYMFSC80D	NSYMCDFIX	
NSYMFSC60	NSYMFSC60D	NSYMCDFIX	
NSYMFSC80	NSYMFSC80D	NSYMCDFIX	
NSYMFSC60	NSYMFSC60D	NSYMCDFIX	
NSYMFSC80	NSYMFSC80D	NSYMCDFIX	
NSYMFSC60	NSYMFSC60D	NSYMCDFIX	
NSYMFSC80	NSYMFSC80D	NSYMCDFIX	
<p>Fixed supports with no rail</p> <p>Supply: 2 fixed supports and fixing elements.</p> <p>Reference NSYMF51</p>	<p>Adjustable supports with no rail</p> <p>Supply: 2 adjustable supports and fixing elements.</p> <p>Reference NSYMF51D</p>		

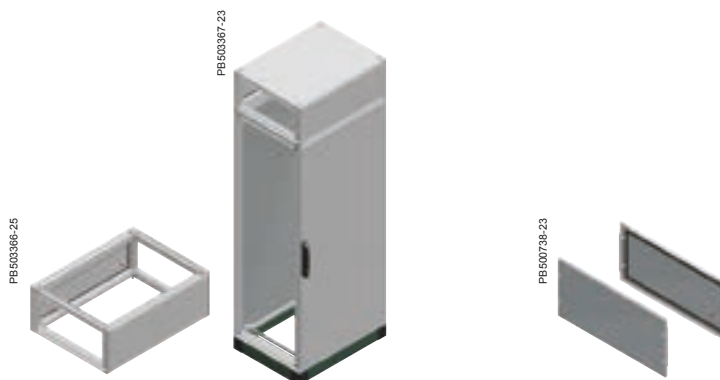
Depth (C)	No. of cut-outs (Ø 5.2 mm)	References
300	4	NSYMPS30
400	8	NSYMPS40
500	12	NSYMPS50
600	16	NSYMPS60
800	24	NSYMPS80



Accessories for low voltage switchboards

Top busbar chamber

Top busbar chamber



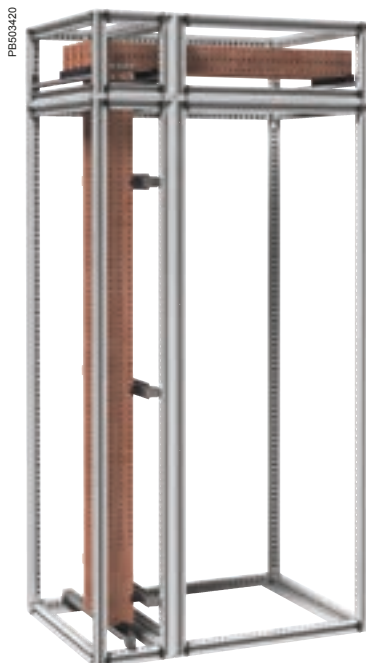
Characteristics			Top busbar chamber	Side panels for the top busbar chamber
			Chamber which protects and supports the sets of horizontal bars. Enables new switchgear by tapping and isolates the sets of bars from the rest of the equipment. It is only installed at the top of the enclosure.	Set of two side panels for coupling with the busbar chamber. Captive screws.
Material			Steel	Steel
Finish			Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder
Colour			RAL 7035 grey	RAL 7035 grey
Ingress protection rating			IP55 according to IEC 60529	-
Supply			<ul style="list-style-type: none"> ■ One structure of the busbar chamber as a kit ■ Two front panels ■ Reinforced coupling kit ■ One sealing gasket 	Two side panels and fixing elements
Height (A) (mm)	Width (B) (mm)	Depth (C) (mm)	References	
300	300	500	NSYTBC335	NSYSPBC35
		600	NSYTBC336	NSYSPBC36
		800	NSYTBC338	NSYSPBC38
400	300	500	NSYTBC345	NSYSPBC35
		600	NSYTBC346	NSYSPBC36
		800	NSYTBC348	NSYSPBC38
600	300	500	NSYTBC365	NSYSPBC35
		600	NSYTBC366	NSYSPBC36
		800	NSYTBC368	NSYSPBC38
800	300	500	NSYTBC385	NSYSPBC35
		600	NSYTBC386	NSYSPBC36
		800	NSYTBC388	NSYSPBC38
1000	300	500	NSYTBC3105	NSYSPBC35
		600	NSYTBC3106	NSYSPBC36
		800	NSYTBC3108	NSYSPBC38
1200	300	500	NSYTBC3125	NSYSPBC35
		600	NSYTBC3126	NSYSPBC36
		800	NSYTBC3128	NSYSPBC38

Accessories for low voltage switchboards

Side busbar chamber



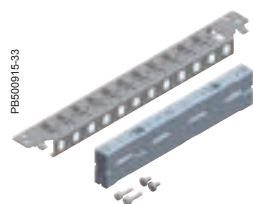
Characteristics			Side busbar chamber	Side panels for the side busbar chamber
			Protects and supports the sets of vertical bars. Enables new switchgear by tapping and isolates the sets of bars from the rest of the equipment. It can be installed on either of the two sides of the enclosure.	Set of 2 side panels fixed to the outside. Captive screws.
Material			Steel	Steel
Finish			Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder
Colour			RAL 7035 grey	RAL 7035 grey
Ingress protection rating			IP55 according to IEC 60529	-
Supply			<ul style="list-style-type: none"> ■ One structure of the busbar chamber ■ One roof ■ One rear panel ■ One door with handle (5-mm DB lock) 	Two side panels with external fixing and fixing elements
Height (A) (mm)	Width (B) (mm)	Depth (C) (mm)	References	
1800	400	400	NSYSF18440	NSY2SP184
		500	NSYSF18450	NSY2SP185
		600	NSYSF18460	NSY2SP186
2000	300	500	NSYSF20350	NSY2SP205
		600	NSYSF20360	NSY2SP206
		800	NSYSF20380	NSY2SP208
	400	400	NSYSF20440	NSY2SP204
		500	NSYSF20450	NSY2SP205
		600	NSYSF20460	NSY2SP206
2200	400	800	NSYSF20480	NSY2SP208
		600	NSYSF22460	NSY2SP226



Example installation of busbars in their chambers.

Accessories for low voltage switchboards

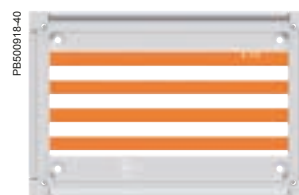
Copper bar support up to 630 A



Characteristics	630 A bar support	630 A busbar end cover												
	<ul style="list-style-type: none"> ■ 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 400mm 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. 	Busbar end protection.												
Material	-	-												
Fixing	-	Direct installation on the actual bar support (insulator)												
Supply	One 630 A bar support, one 40 mm quick-fixing cross rail and fixing elements	Two 630 A bar support plates and fixing elements												
	<table border="1"> <thead> <tr> <th>Width / Depth (mm)</th> <th>References</th> </tr> </thead> <tbody> <tr> <td>400</td> <td>NSYBS400</td> </tr> <tr> <td>500</td> <td>NSYBS500</td> </tr> <tr> <td>600</td> <td>NSYBS600</td> </tr> <tr> <td>800</td> <td>NSYBS800</td> </tr> </tbody> </table>	Width / Depth (mm)	References	400	NSYBS400	500	NSYBS500	600	NSYBS600	800	NSYBS800	<table border="1"> <thead> <tr> <th>Reference</th> </tr> </thead> <tbody> <tr> <td>NSYBSC630</td> </tr> </tbody> </table>	Reference	NSYBSC630
Width / Depth (mm)	References													
400	NSYBS400													
500	NSYBS500													
600	NSYBS600													
800	NSYBS800													
Reference														
NSYBSC630														



Table

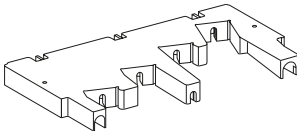


Nominal rating IP55 NR (A)	No. of bars per phase	Bar cross-section		Maximum distance between bar supports according to the short-circuit current (mm)							Neutral (mm)	Earth (mm)
		(mm)	(mm ²)	I _{cw} kA								
				12	23	30	39	52	66	69		
200	1	12 x 5	60	525	525	525	400	250	-	-	-	-
250	1	15 x 5	75	575	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

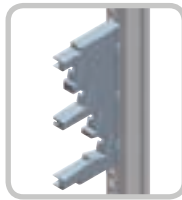
Accessories for low voltage switchboards

Copper bar support up to 630 A

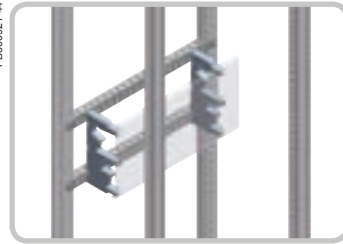
DB300375-38



PB50020-37



PB500921-44



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.
- 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.

Insulating plastic

- Mounting on mounting plates (see page 220) or cross-rails (see page 231)
- M6 x 25 self-tapping screws are required for fixing on the cross-rails, not included

1 multi-stage bar support and fixing elements

Reference

04192

Screen for 630 A multi-stage busbar

- Protects against direct contact from the front in the connections of the busbar.
- Length: 1500 mm.

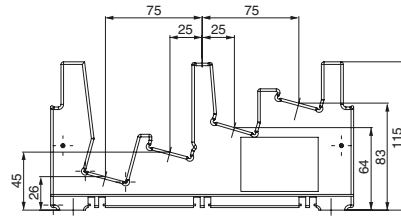
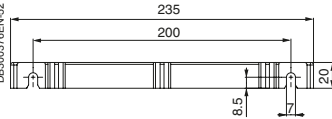
Direct mounting on the actual support

1 screen for multi-stage busbar and fixing elements

Reference

04197

DB300376EN-42



Table

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 rms/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⁾

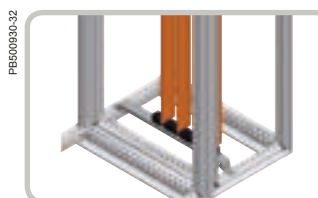
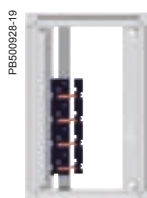
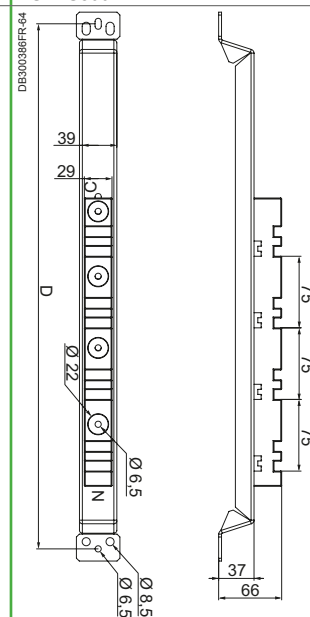
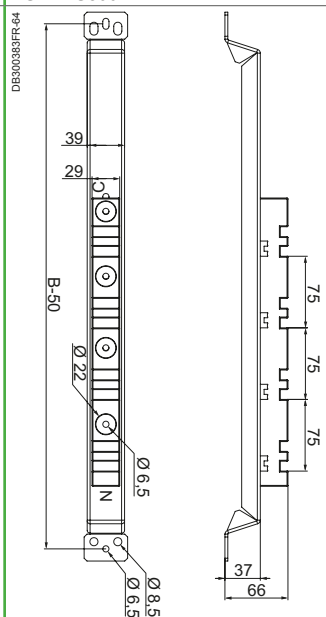
(1) I_{cw} (kA rms/0.6 s).

Accessories for low voltage switchboards

Vertical bar support



Characteristics	Vertical bar support	Setting support
	<ul style="list-style-type: none"> Support prepared for fixing bars in vertical position, mounted directly on the structure of the enclosure. Adjustable height with a pitch of 25 mm. For a nominal rating $I_n \geq 3000$ A and ≤ 4000 A you must add one spacer ref. 04646. 	<ul style="list-style-type: none"> 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	2 insulating bar supports, 1 metal vertical support and fixing elements	1 insulating bar support, 1 metal vertical support and fixing elements
Width / Depth (B) (mm)	References	
400	NSYBVS400	NSYAS400
500	NSYBVS500	NSYAS500
600	NSYBVS600	NSYAS600
800	NSYBVS800	NSYAS800

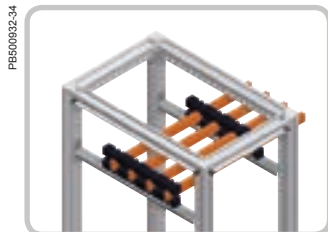


Accessories for low voltage switchboards

Horizontal bar support



Characteristics	Horizontal bar support	Bar support arm										
	<ul style="list-style-type: none"> ■ 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. ■ For a nominal rating $I_n \geq 3000$ A and ≤ 4000 A you must add one spacer ref. 04646. 	<ul style="list-style-type: none"> ■ 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. ■ For a nominal rating $I_n \geq 3000$ A and ≤ 4000 A you must add one spacer ref. 04646. 										
Supply	2 insulating bar supports, 1 metal horizontal support and fixing elements	2 insulating bar supports and fixing elements										
	<table border="1" style="width: 100%;"> <thead> <tr> <th style="background-color: #cccccc;">Width / Depth (B) (mm)</th> <th style="background-color: #cccccc;">References</th> </tr> </thead> <tbody> <tr> <td>500</td> <td>NSYBHS500</td> </tr> <tr> <td>600</td> <td>NSYBHS600</td> </tr> <tr> <td>800</td> <td>NSYBHS800</td> </tr> </tbody> </table>	Width / Depth (B) (mm)	References	500	NSYBHS500	600	NSYBHS600	800	NSYBHS800	<table border="1" style="width: 100%;"> <thead> <tr> <th style="background-color: #cccccc;">Reference</th> </tr> </thead> <tbody> <tr> <td>NSYBSA</td> </tr> </tbody> </table>	Reference	NSYBSA
Width / Depth (B) (mm)	References											
500	NSYBHS500											
600	NSYBHS600											
800	NSYBHS800											
Reference												
NSYBSA												



Accessories for low voltage switchboards

Masterpact support

Overview of the offer Masterpact NT and NW



Circuit breakers

- Ratings:
 - Masterpact NT: 630 to 1600 A
 - Masterpact NW: 800 to 4000 A.
- Circuit breakers type N1, H1, H2, H3, L1.
- Switch-disconnectors type NA, HA, HF, HH.
- 3 or 4 poles.
- Fixed or drawout versions.
- Option with neutral on the right.
- Protection derating.



Micrologic control units

Ammeter A and Energy E

- 2.0 basic protection
- 5.0 selective protection
- 6.0 selective + earth-fault protection
- 7.0 selective + earth-leakage protection (1).

Power meter P

- 5.0 selective protection
- 6.0 selective + earth-fault protection
- 7.0 selective + earth-leakage protection

Harmonic meter H

- 5.0 selective protection
- 6.0 selective + earth-fault protection
- 7.0 selective + earth-leakage protection
- External sensor for earth-fault protection.
- Rectangular sensor for earth-leakage protection.
- Setting options (long-time rating plug):
 - low setting 0.4 to 0.8 x Ir
 - high setting 0.8 to 1 x Ir
 - without long-time protection.
- External AD power-supply module.
- Battery module.

(1) Only for ammeter A.



Power meter functions

Masterpact equipped with Micrologic 2 / 5 / 6 / 7 trip units offer type A (ammeter) or E (energy) metering functions as well as communication. Using Micrologic sensors and intelligence, Masterpact provides access to measurements of all the main electrical parameters on the built-in screen, on a dedicated FDM display unit or via the communication system.



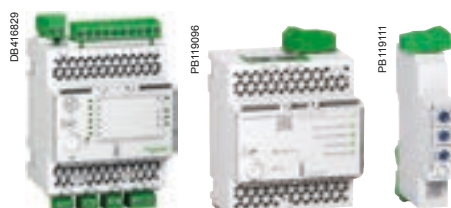
Operating assistance functions

Integration of measurement functions provides operators with operating assistance functions including alarms tripped by user-selected measurement values, time-stamped event tables and histories, and maintenance indicators.



Communication

- COM option in Masterpact.
- Masterpact in a communication network.
- IFM: Modbus interface module.
- IFE: Ethernet interface module.
- I/O application module.
- Electrical Asset Manager.



Accessories for low voltage switchboards

Masterpact support

Overview of the offer Masterpact MTZ

Circuit breakers

MTZ1

From 630 to 1600 A

MTZ2

From 800 to 4000 A



Micrologic™ X control units

2.0X | 5.0X | 6.0X | 7.0X |
Only four references



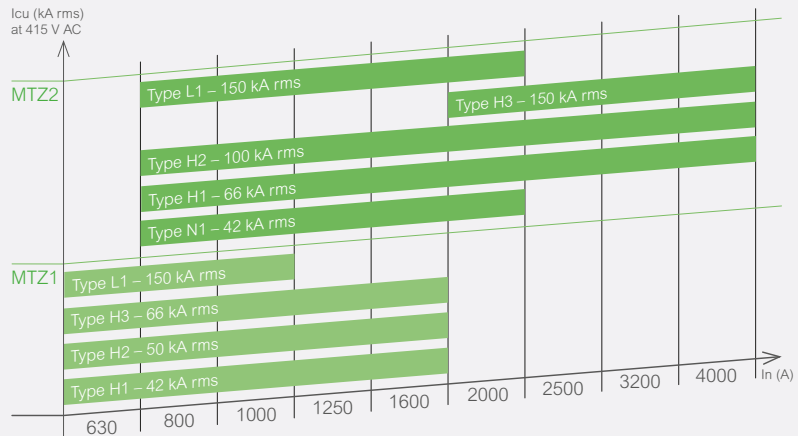
+ Digital Modules

Protection

Measurement

Diagnostics and Maintenance

Five performance levels N1, H1, H2, H3, L1



Masterpact MTZ1

Find all functions and technical characteristics in:
Masterpact MTZ catalogue
LVPED216026EN



Accessories for low voltage switchboards

Masterpact support



Introduction

Installation of a Masterpact in a SF switchboard requires:

- Lateral cross-rails (NSYSQCR**, NSYSUCR**) (See table below)
- 1 specific transversal Masterpact support (NSYFXMN**) fixed to the lateral cross-rails
- Bar supports to reduce bar movements due to constraints

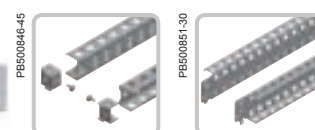
Masterpact supports New

Dedicated offer to secure and facilitate Masterpact positioning in the switchboard

- Less distortion
- Reduced installation time
- Possibility to use bar CAD library

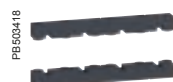


NSYFXMNT80W



Characteristics	Masterpact supports		Associated cross-rails		
	W600	W800	Universal cross-rails	Quick-fixing cross-rails	
	<ul style="list-style-type: none"> ■ Cut outs already defined ■ Available in the Schneider CAD library 		-		
Material	Galvanised-steel		Zinc-coated steel		
Supply	1 support delivered with fixing elements (self tapping screws M6/T30 + type 9/M6 cage nuts)		2 cross-rails and fixing elements (see cross-rail section page 229 for more information)		
Mounting instructions	Screwdriver: T30 Tightening torque: 4.5 Nm/39.82 lb-in		-		
Masterpact association					
Masterpact MTZ1 and NT	Fixed	NSYFXMNT60F	NSYFXMNT80F	NSYSUCR65**	NSYSQCR65**
	Withdrawable	NSYFXMNWT60FW	NSYFXMNT80W	NSYSUCR65**	NSYSQCR65**
Masterpact MTZ2 and NW	Fixed	NSYFXMNWT60FW	NSYFXMNW80F	NSYSUCR90**	NSYSQCR90**
	Withdrawable	NSYFXMNWT60FW	NSYFXMNW80W	NSYSUCR90**	NSYSQCR90**

Bar supports



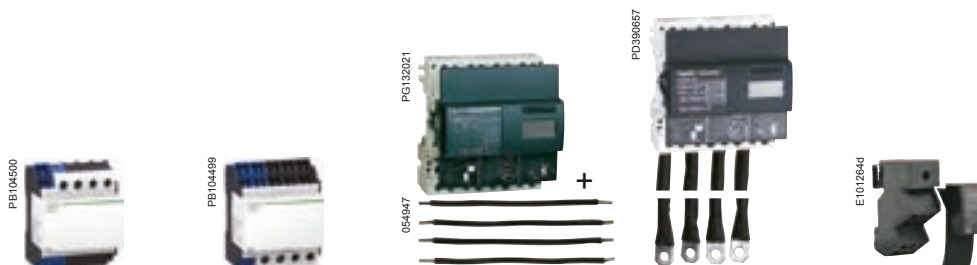
Characteristics	Supports for Masterpact MTZ1 and NT		Supports for Masterpact MTZ2 and NW	
	Fixed support	Free support	Fixed support	Free support
	Fixing by screw with hexagonal head.	Fixing by screw with hexagonal head.	Fixing by screw with hexagonal head	Fixing by screw with hexagonal head.
Material	<ul style="list-style-type: none"> ■ Metal support: zinc-coated steel ■ Isolating supports: thermosetting coating 	<ul style="list-style-type: none"> ■ Isolating supports: thermosetting coating 	<ul style="list-style-type: none"> ■ Metal support: zinc-coated steel ■ Isolating supports: thermosetting coating 	<ul style="list-style-type: none"> ■ Isolating supports: thermosetting coating
Supply	2 insulating bar supports, 1 metal horizontal support and fixing element	2 insulating bar supports and fixing elements	2 insulating bar supports, 1 metal horizontal support and fixing element	2 insulating bar supports and fixing elements
	Width (mm)	References	Width (mm)	References
	500	NSYBHNT500	600	NSYBHNW600
	600	NSYBHNT600	800	NSYBHNW800
	800	NSYBHNT800		
		Reference		Reference
		NSYBSA70		04678

Accessories for low voltage switchboards

Distribution blocks

Lineryg DX

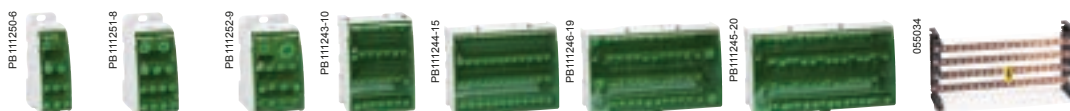
Fast connection distribution blocks



Characteristics		Lineryg DX				
Rating		63 A	125 A	160 A	160 A	160 A
		<ul style="list-style-type: none"> Incoming through the top. Clip-on to rail. 	<ul style="list-style-type: none"> Incoming through the bottom. Clip-on to rail. 	<ul style="list-style-type: none"> Set of 4 35 mm² flexible connections, length 210 mm to be ordered separately (cat. no. 04047). Clip-on to rail. 	<ul style="list-style-type: none"> Set of 4 prefabricated flexible connections supplied, for connection with an INS100/160 or NSA160 switch, installed on the right or left. Clip-on to rail 	<ul style="list-style-type: none"> Clip-on to rail.
Number of poles		4P	4P	4P		1P
Total connection capacity (dia. for flexible cables)	4 mm ²	-	7			-
	6 mm ²	12 per phase + 12 neutral	3			6
	10 mm ²	-	2			-
	16 mm ²	-	1 tunnel terminal			6
	25 mm ²	4 tunnel terminals per phase + 1 neutral	-			-
	35 mm ²	-	1 tunnel terminal			-
Size	in 9 mm modules	8	12			4.5
	in 18 mm modules	4	6			2.5
References		04040	04041	04045 + 04047	04046	04031

Lineryg DS and Lineryg BS

Screw distribution blocks



Characteristics		Lineryg DS							Lineryg BS		
Rating		125 A	160 A	250 A	100 A	125 A	160 A	160 A	250 A	400 A	
		Clip-on to rail.			Clip-on to rail.				<ul style="list-style-type: none"> To be screwed on back. 13 M6 tapped holes + 4 plain holes of dia. 12.2 mm. 		
Number of poles		1P			4P				4P		
Total connection capacity		10	13	14	4 x 7	4 x 12	4 x 15	4 x 12	4 + 13 (dia. for flexible cables: 50 mm ²)		
	Size										
Size	in 9 mm modules	3	4	5	8	14	20	18	-	-	-
	in 18 mm modules	-	-	-	-	-	-	-	-	-	-
References		LGY112510	LGY116013	LGY125014	LGY410028	LGY412548	LGY412560	LGY416048	04052	04053	04054
Neutral terminal strip (optional)		-	-	-	LGYN1007	LGYN12512	LGYN12515	LGYN12512	-	-	-

Accessories for low voltage switchboards

Device feeders

Lineryg FM

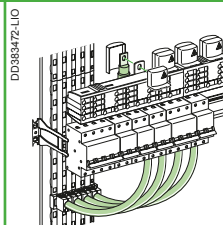
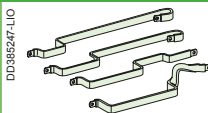
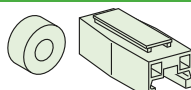
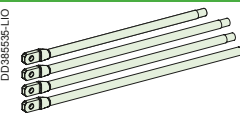
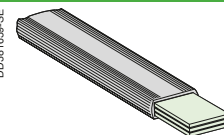
Quick device feeders



Characteristics		Lineryg FM: for cable links							
Rating		63 A	80 A	160 A	200 A				
Length	in 9 mm modules	24	48	24	48	72			
	in 18 mm modules	12	24	12	24	36			
Supply at incoming terminals		Enclosed terminals for cables up to 25 mm ²	Enclosed terminals for flexible cables 6 to 25 mm ² or rigid cables 10 to 35 mm ²	Direct onto the row by cable 70 mm ² with crimped lug, or flexible bar 20 x 3 from busbar with prefabricated connection					
Downstream connection capacity	Max. Phase 4 mm ²	6	-	-	-				
	Neutral	4	-	-	-				
	Max. Phase 6 mm ²	6	18	-	-				
	Neutral	4	18	-	-				
Accessories included	Pre-stripped copper connections	10 of 4 mm ² + 6 of 6 mm ² (L=100 mm)	12 blue + 12 black	12 of 10 mm ² (L=100 mm)	24 of 10 mm ²			36 of 10 mm ²	
	Protective cover	-	-	For pads (IPxxB)	-			-	
	Screws and nuts	-	-	For pads	-			-	
References									
2P	-	-	-	-	04012 ⁽¹⁾	-	-	-	
3P	-	-	-	-	-	04013 ⁽¹⁾	-	-	
4P	04008 ⁽¹⁾	04000	04018 ⁽¹⁾	-	-	04014 ⁽¹⁾	04026 ⁽¹⁾	-	

(1) Cable to be used without ferrules.

Connection of Lineryg FM with upstream device

					
Upstream device	Lineryg BW busbar	Multi-stage Lineryg BS busbar	Rear Lineryg BS busbar	Device 160 A	Busbar
Connection hardware	4P 200 A connection (supplied with fixing accessories)	4P 200 A connection (supplied with fixing accessories)	4P 200 A connection (supplied with fixing accessories)	4P 160 A connection for Lineryg FM 1/2 row	200 A connection (20 x 3 mm) for Lineryg FM
References	04021 + 04150 insulating covers	04024	04029	04030	04743

Accessories for low voltage switchboards

Device feeders

Linergy FC

Feeders for Compact NSX et INS



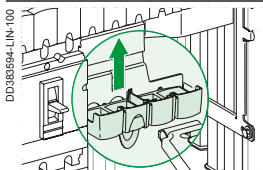
Characteristics	Compact NSX100/250 & INS/INV250 - All controls, fixed and withdrawable	
	Linergy FC without prefabricated connections ⁽¹⁾	
Number of poles	3P	4P
Connection to	Linergy BS, Linergy LGY or Linergy LGYE busbars	
Number of devices	4	3
Composition	Self-adhesive labels to mark the phases for connections to the busbars.	
References	04407 ⁽²⁾	04408 ⁽²⁾

(1) The connection of a Linergy FC distribution block using pre-wired connectors or insulated flexible bars is not compatible with Form 2 partitioning (04922). In this case, use the form 2 restoration kit (04924).

(2) For the connection, use insulated flexible bars, 32 x 8 mm (04753). Each connection must not be longer than 500 mm. This size is validated with Schneider Electric insulated flexible bars.

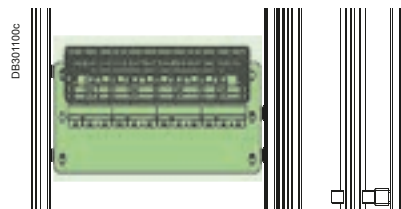
Accessories



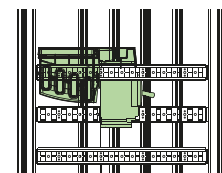
Tooth caps	
	The caps block off the reserve terminals on a Linergy FC distribution block. Made of an insulating material, they simply clip on from the front.
Reference	04809



Caractéristiques	Mounting plate for Linergy FC	
	Fixing with NSYMPFIX kit	
Material	Galvanised steel	
Supply	1 mounting plate	
	Width (mm)	References
	600	NSYMPGYFC600
	800	NSYMPGYFC800



Front view



Side view

Accessories for low voltage switchboards

Distribution blocks



Characteristics	Sigma safety terminals*	Bimetal terminals	Plate/cable terminals																																																																																																																											
	<p>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.</p> <ul style="list-style-type: none"> ■ 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. 	<p>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).</p>	<p>Entry by plate and junction by cable, plate or terminal.</p>																																																																																																																											
Supply	20 units (except for ref. NSYS95100: 10 units)	4 bimetal terminals	1 junction terminal																																																																																																																											
	<table border="1"> <thead> <tr> <th>Section (mm²)</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> <th>References</th> </tr> </thead> <tbody> <tr> <td>1 x 4</td> <td>30</td> <td>20</td> <td>13</td> <td>21</td> <td>4</td> <td>NSYS04</td> </tr> <tr> <td>1 x 6</td> <td>33</td> <td>25</td> <td>16</td> <td>24</td> <td>7</td> <td>NSYS06</td> </tr> <tr> <td>1 x 10</td> <td>38</td> <td>28</td> <td>16</td> <td>28</td> <td>6</td> <td>NSYS10</td> </tr> <tr> <td>1 x 16</td> <td>42</td> <td>32</td> <td>19</td> <td>32</td> <td>9</td> <td>NSYS16</td> </tr> <tr> <td>1 x 35</td> <td>46</td> <td>38</td> <td>23</td> <td>34</td> <td>11</td> <td>NSYS2535</td> </tr> <tr> <td>1 x 50</td> <td>52</td> <td>45</td> <td>27</td> <td>40</td> <td>15</td> <td>NSYS50</td> </tr> <tr> <td>1 x 70</td> <td>55</td> <td>50</td> <td>30</td> <td>40</td> <td>15</td> <td>NSYS70</td> </tr> <tr> <td>1 x 100</td> <td>58</td> <td>54</td> <td>33</td> <td>40</td> <td>20</td> <td>NSYS95100</td> </tr> </tbody> </table> 	Section (mm ²)	A	B	C	D	E	References	1 x 4	30	20	13	21	4	NSYS04	1 x 6	33	25	16	24	7	NSYS06	1 x 10	38	28	16	28	6	NSYS10	1 x 16	42	32	19	32	9	NSYS16	1 x 35	46	38	23	34	11	NSYS2535	1 x 50	52	45	27	40	15	NSYS50	1 x 70	55	50	30	40	15	NSYS70	1 x 100	58	54	33	40	20	NSYS95100	<table border="1"> <thead> <tr> <th>Main section (mm²)</th> <th>Junction section (mm²)</th> <th>References</th> </tr> </thead> <tbody> <tr> <td>6-50</td> <td>-</td> <td>NSYBBH29</td> </tr> <tr> <td>6-50</td> <td>-</td> <td>NSYBBH29C</td> </tr> <tr> <td>10-95</td> <td>-</td> <td>NSYBBH30</td> </tr> <tr> <td>16-150</td> <td>-</td> <td>NSYBBH31</td> </tr> <tr> <td>50-240</td> <td>-</td> <td>NSYBBH32</td> </tr> <tr> <td>6-50</td> <td>6-50</td> <td>NSYBBH29D</td> </tr> <tr> <td>10-95</td> <td>10-95</td> <td>NSYBBH30D</td> </tr> <tr> <td>25-150</td> <td>16-150</td> <td>NSYBBH31D</td> </tr> <tr> <td>95-240</td> <td>5-240</td> <td>NSYBBH32D</td> </tr> <tr> <td>6-50</td> <td>-</td> <td>NSYBBH29P</td> </tr> <tr> <td>6-50</td> <td>6-50</td> <td>NSYBBH29DPC</td> </tr> </tbody> </table>	Main section (mm ²)	Junction section (mm ²)	References	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	<table border="1"> <thead> <tr> <th>Junction cable section (mm²)</th> <th>Plate thickness (mm)</th> <th>Fig.</th> <th>References</th> </tr> </thead> <tbody> <tr> <td>1.5 to 16</td> <td>5</td> <td>2</td> <td>NSYBPCH516</td> </tr> <tr> <td>1.5 to 50</td> <td>5</td> <td>2</td> <td>NSYBPCH550</td> </tr> <tr> <td>16 to 120</td> <td>5</td> <td>2</td> <td>NSYBPCH5120</td> </tr> <tr> <td>1.5 to 16</td> <td>10</td> <td>1</td> <td>NSYBPCH1016</td> </tr> <tr> <td>1.5 to 50</td> <td>10</td> <td>1</td> <td>NSYBPCH1050</td> </tr> </tbody> </table>	Junction cable section (mm ²)	Plate thickness (mm)	Fig.	References	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
Section (mm ²)	A	B	C	D	E	References																																																																																																																								
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1 x 35	46	38	23	34	11	NSYS2535																																																																																																																								
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1 x 70	55	50	30	40	15	NSYS70																																																																																																																								
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1.5 to 50	10	1	NSYBPCH1050																																																																																																																											

* Each terminal accepts up to 2 conductors with the specified section.

Accessories for low voltage switchboards

Distribution blocks

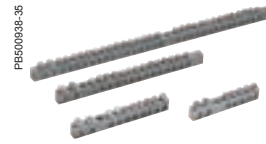
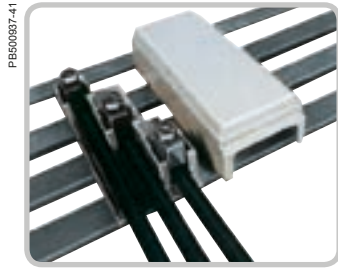


Fig. 3

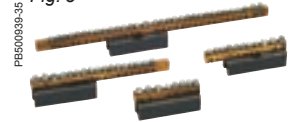


Fig. 4



Fig. 4

Characteristics	Three-pole junction terminals				Earthing strips		
	Entry by plate and junction by cable (for busbars).				For the junction of neutral and earth cables. ■ Models NSYRBL●● (Fig. 3) for installation in boxes with insulating rear or by means of insulators, not supplied. ■ Models NSYRBLZ●● (Fig. 4) with insulating plinth for fitting under pressure on 12 x 2-mm rail.		
Supply	1 junction terminal				10 earthing strips		
	Entry plate width (mm)	Entry plate thickness (mm)	Junction cable section (mm ²)	Reference	Number of terminals x section mm ²	Fig.	References
	12/15/20/25/30	5 to 10	35 to 120	NSYBTE630TBT	2 x 16 mm ² + 5 x 6 mm ²	3	NSYRBL21656M
					2 x 16 mm ² + 8 x 6 mm ²	3	NSYRBL21686M
					2 x 16 mm ² + 14 x 6 mm ²	3	NSYRBL216146M
					2 x 16 mm ² + 29 x 6 mm ²	3	NSYRBL216296M
					2 x 16 mm ² + 5 x 6 mm ²	4	NSYRBLZ21656
					2 x 16 mm ² + 8 x 6 mm ²	4	NSYRBLZ21686
					2 x 16 mm ² + 14 x 6 mm ²	4	NSYRBLZ216146
					2 x 16 mm ² + 29 x 6 mm ²	4	NSYRBLZ216296

Accessories for low voltage switchboards

Power busbars

Linery LGYE

Linery LGYE - Horizontal profiles up to 4000 A

Installation in Spacial SF		Up to 1600 A					Up to 4000 A			
Linery profiles, 2000 mm length										
Permissible current for an ambient temperature of 35 °C around the switchboard	IP > 31	630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A	4000 A
Number of profiles per phase		530 A	680 A	850 A	1050 A	1480 A	1650 A	2100 A	2800 A	3350 A
Height available (mm)		150					150		200	
References		04560	04561	04562	04563	04564	04565	04566	04567	04568

Busbar supports

		Fixed support NSYBHS**	Free support NSYBSA
Characteristics		2 supports shall mandatorily be fastened to the structure of the 800 mm wide Spacial SF cubicle. If the width is greater, add a NSYSUCR40** cabinet cross rail to add a third fixed support. 1 support shall mandatorily be fastened to the structure of the cubicles of width 300 mm and 400 mm. If more supports are required, use free supports.	
Number of supports depending on low (kA rms/1 s)	≤ 15	2 x NSYBHS** *	
	≤ 25	2 x NSYBHS** *	
	≤ 30	2 x NSYBHS** *	
	≤ 40	2 x NSYBHS** *	
	≤ 50	2 x NSYBHS** *	
	≤ 60	2+1 **	
	≤ 65	2+1 **	
	≤ 75	2+1 **	
	≤ 85	2+1 **	
	≤ 100	2+4 ***	
References	Fixed support	NSYBHS**	
	Free support	NSYBSA	
		NSYBHS** + 04646	
		NSYBSA + 04646	

Joints

	Up to 1600 A					Up to 4000 A			
	630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A	4000 A
References	04620					04621		04623	
	3 x 04620 (3P) 4 x 04620 (4P)					3 x 04621 (3P) 4 x 04621 (4P)		3 x 04623 (3P) 4 x 04623 (4P)	
Note	If insulation clearance < 20 mm add an insulating shield between the busbar and the metallic part of the cabinet.								

* If spacing between supports > 800 mm add 1 NSYBSA free support.

** If spacing between supports > 300 mm add 1 NSYBSA free support.

*** If spacing between supports > 135 mm add 1 NSYBSA free support.

Accessories for low voltage switchboards

Power busbars

Lineryg BS






Lineryg BS - Horizontal busbars up to 4000 A											
Installation in Spacial SF	Up to 1600 A				Up to 4000 A						
Copper without holes, 2000 mm length											
Permissible current for an ambient temp. IP > 31 of 35°C around the switchboard	750 A	900 A	1250 A	1600 A	1600 A	1800 A	2000 A	2500 A	2900 A	3340 A	
Size of bars (mm)	60 x 5	80 x 5	60 x 5	80 x 5	80 x 10	50 x 10	60 x 10	80 x 10	100 x 10	120 x 10	
Number of bars per phase	1	1	2	2	1	2	2	2	2	2	
Height available (mm)	150									200	
References	04536	04538	04536	04538	04548	04545	04546	04548	04550	04552	
Busbar supports											
Characteristics	2 supports shall mandatorily be fastened to the structure of the 800 mm wide Spacial SF cubicle. If the width is greater, add a NSYSUCR40 cabinet cross rail to add a third fixed support. 1 support shall mandatorily be fastened to the structure of the cubicles of width 300 mm and 400 mm. If more supports are required, use free supports.										
Number of supports depending on I _{cw} (kA rms/1 s)	≤ 15	2 x NSYBHS** *									
	≤ 25	2+1**	2 x NSYBHS** *								
	≤ 30	2+1**	2 x NSYBHS** *								
	≤ 40	2+1**	2 x NSYBHS** *								
	≤ 50	-	2+1**	2 x NSYBHS** *				2 x NSYBHS** *			
	≤ 60	-	2+1**			2+1**					
	≤ 65	-	2+1**			2+1**					
	≤ 75	-	2+4***		2+1**				2+1**		
	≤ 85	-	-				2+1**				
References	Fixed support	NSYBHS**								NSYBHS** + 04646	
	Free support	NSYBSA								NSYBSA + 04646	
* If spacing between supports > 800 mm add 1 NSYBSA free support.											
** If spacing between supports > 300 mm add 1 NSYBSA free support.											
*** If spacing between supports > 135 mm add 1 NSYBSA free support.											
Joints											
Installation dans Spacial SF	Up to 1600 A				Up to 4000 A						
	1 vertical bar per phase		2 vertical bars per phase		1 vert. bar per phase	2 vertical bars per phase					
Size of bars (mm)	60 x 5	80 x 5	60 x 5	80 x 5	80 x 10	50 x 10	60 x 10	80 x 10	100 x 10	120 x 10	
Sliding joints with torque nut											
	04640				04641				04643		
References	04640	04641	04640	04641	04641	04640	04640	04641	04641	04643	

Accessories for low voltage switchboards

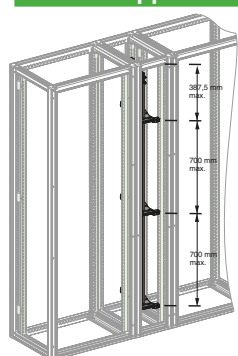
Power busbars

Linery LGY

Linery LGY - Lateral profiles up to 1600 A

		Up to 1600 A				
Installation in Spacial SF		L 300				
						
		630 A	800 A	1000 A	1250 A	1600 A
Permissible current for an ambient temp. of 35 °C around the switchboard IP > 31		590 A	760 A	950 A	1170 A	1480 A
Number of profiles per phase		1				
References		04502	04503	04504	04505	04506

Busbar supports



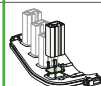
Characteristics

Number depending on Icw (kA rms/1 s)

≤ 25
≤ 30
≤ 40
≤ 50
≤ 60
≤ 65
≤ 75
≤ 85



Fixed support **04651**



An end stop must be fitted on the bottom support: **01109** (sold in lots of 12)

≤ 25	3				
≤ 30	-	3			
≤ 40	-		3		
≤ 50	-			4	
≤ 60	-			5	
≤ 65	-				5
≤ 75	-				7
≤ 85	-				8

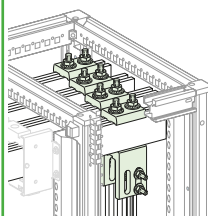
References

04651 + upright adapters **NSYSFPA** + **NSYSUCR40****

Note

Only for depth cubicle ≥ 500 mm

Connections to the Linery BS horizontal busbar

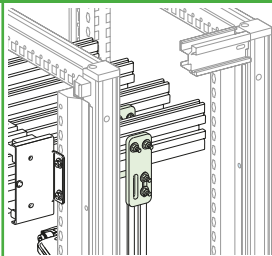


Characteristics

Supplied with mounting hardware.
Reference include 1 connection only. Order 1 connection per phase.

References according to horizontal busbar size	5 mm thick	04634	04635
	10 mm thick	04636	
	Width ≤ 80 mm	04636 + 04642	
		04638 + 04642	
Width > 80 mm			

Connections to the Linery LGYE horizontal busbar



Characteristics

Supplied with mounting hardware.
Reference include 1 connection only. Order 1 connection per phase.

References	04602 (vertical connection)
	04603 (vertical shifted connection)

Accessories for low voltage switchboards

Power busbars

Linery LGYE

Linery LGYE - Lateral profiles up to 4000 A										
Installation in Spacial SF		Up to 4000 A								
Linery profile, 2000 mm length		L 300								
Permissible current for an ambient temperature of 35°C around the switchboard IP > 31		630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A	4000 A
Number of profiles per phase		1								
Height available (mm)		150					150		200	
References		04560	04561	04562	04563	04564	04565	04566	04567	04568

Busbar supports																	
	Fixed support NSYBVS** Free support NSYBSA Bottom support NSYAS**																
Characteristics	3 fixed supports are compulsory to hold the busbar in position. If more than 3 supports are needed, use free supports (in addition).																
Number depending on	3																
l _{cw} (kA rms/1 s)	<table border="1"> <tr> <td>≤ 30</td> <td>3</td> </tr> <tr> <td>≤ 40</td> <td>3+2 *</td> </tr> <tr> <td>≤ 50</td> <td>3+2 *</td> </tr> <tr> <td>≤ 60</td> <td>3+2 *</td> </tr> <tr> <td>≤ 65</td> <td>3+2 *</td> </tr> <tr> <td>≤ 75</td> <td>3+4 **</td> </tr> <tr> <td>≤ 85</td> <td>3+4 **</td> </tr> <tr> <td>≤ 100</td> <td>3+6 ***</td> </tr> </table>	≤ 30	3	≤ 40	3+2 *	≤ 50	3+2 *	≤ 60	3+2 *	≤ 65	3+2 *	≤ 75	3+4 **	≤ 85	3+4 **	≤ 100	3+6 ***
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≤ 85	3+4 **																
≤ 100	3+6 ***																
References	<table border="1"> <tr> <td>Fixed support</td> <td>NSYBVS**</td> <td>NSYBHS** + 04646</td> </tr> <tr> <td>Bottom support</td> <td>NSYAS**</td> <td>NSYAS** + 04646</td> </tr> <tr> <td>Free support</td> <td>NSYBSA</td> <td>NSYBSA + 04646</td> </tr> </table>	Fixed support	NSYBVS**	NSYBHS** + 04646	Bottom support	NSYAS**	NSYAS** + 04646	Free support	NSYBSA	NSYBSA + 04646							
Fixed support	NSYBVS**	NSYBHS** + 04646															
Bottom support	NSYAS**	NSYAS** + 04646															
Free support	NSYBSA	NSYBSA + 04646															

* If spacing between supports > 400 mm add 1 NSYBSA free support.
 ** If spacing between supports > 250 mm add 1 NSYBSA free support.
 *** If spacing between supports > 130 mm add 1 NSYBSA free support.

Wedging busbars in position			
	Wedge fitted on bottom support		
Characteristics	The bottom support NSYAS** + 0465• is used to place profiles and ensure they are in the correct position. It is not considered to be a busbar support.		
References	<table border="1"> <tr> <td>04658 (set of 12 wedges)</td> <td>04659 (set of 12 wedges)</td> </tr> </table>	04658 (set of 12 wedges)	04659 (set of 12 wedges)
04658 (set of 12 wedges)	04659 (set of 12 wedges)		

Connections to the Linery LGYE horizontal busbar					
	2000/2500 A				
	3200/4000 A				
Characteristics	Supplied with mounting hardware. Reference include 1 connection only. Order 1 connection per phase.				
References	<table border="1"> <tr> <td>04604 (short connection)</td> <td>04607</td> </tr> <tr> <td>04605 (long connection)</td> <td></td> </tr> </table>	04604 (short connection)	04607	04605 (long connection)	
04604 (short connection)	04607				
04605 (long connection)					

Accessories for low voltage switchboards

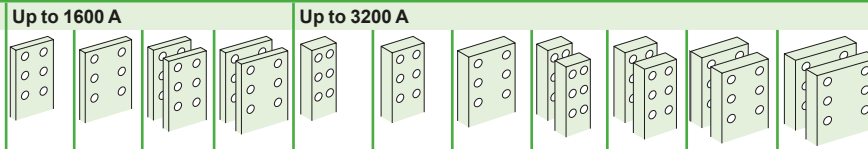
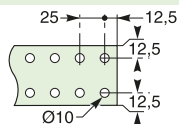
Power busbars

Linery BS

Linery BS - Lateral flat busbars up to 3200 A

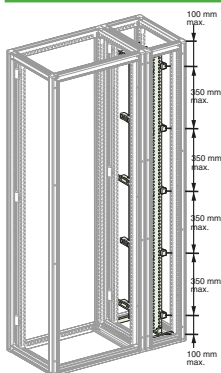
Installation in Spacial SF

Pre-slotted copper, 1675 mm length



Permissible current for an ambient temp. of IP > 31 35°C around the switchboard	750 A	900 A	1250 A	1600 A	1080 A	1250 A	1600 A	1850 A	2000 A	2500 A	2820 A
Busbar cross-section (mm)	60 x 5	80 x 5	60 x 5	80 x 5	50 x 10	60 x 10	80 x 10	50 x 10	60 x 10	80 x 10	100 x 10
Number of profiles per phase	1		2		1			2			
References	04516	04518	04516	04518	04525	04526	04528	04525	04526	04528	04550

Busbar supports

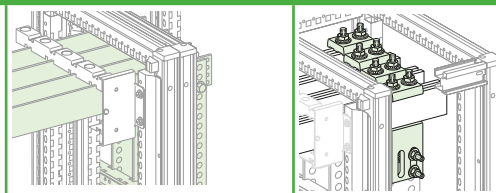


Characteristics	3 fixed supports are compulsory to hold the busbar in position. If more than 3 supports are needed, use free supports (in addition). The bottom wedge support is used to place the busbar and ensure it is in the correct position. It does not count as a busbar support.										
Number of supports depending on I _{cw} (kA rms/1 s)	≤ 15	3 *								3 *	
	≤ 25	3+2 *		3 *							
	≤ 30	3+2 *								3 *	
	≤ 40	3+4		3+2 *							
	≤ 50	3+4				3+2 *					
	≤ 60					3+4				3+2 *	
	≤ 65					3+4				3+2 *	
	≤ 75							3+6		3+4	
	≤ 85									3+4	

References	Fixed support	NSYBVS**
	Bottom support	NSYAS**
	Free support	NSYBSA

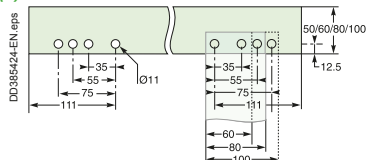
* If spacing between supports > 350 mm add 1 NSYBSA free support.

Connections to the Linery BS horizontal busbar

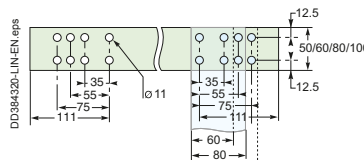


Characteristics	For a busbar with 75 mm distance between bars, the bars must be completely covered. Staggered assembly points between one bar and the next, to maintain the necessary clearance distances. ⁽³⁾				References 04636 , 04637 , 04638 are supplied individually: 1 connection per phase. Reference 04642 consists of 2 M8 x 140 screws which can replace the original M8 x 120 screws.						
References depending on horizontal busbar size	Width ≤ 80 mm	04645			04636			04637		04645	
	Width > 80 mm	04645			04636 + 04642			04637 + 04642		04645	

(1) Drill hole dimensions for 5 mm thick horizontal busbars.



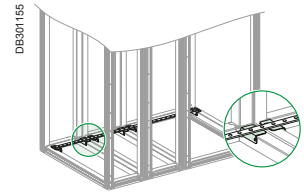
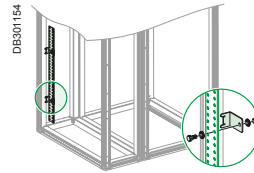
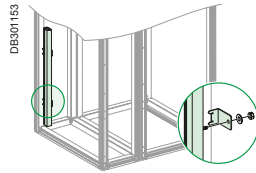
Drill hole dimensions for 10 mm thick horizontal busbars.



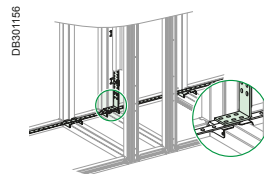
Accessories for low voltage switchboards

PE conductor

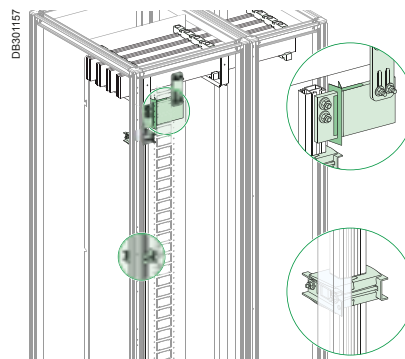
Linergy TB



Characteristics	PE conductor							
	Vertical PE conductor with Linergy LGY profile (W = 1670 mm)			Vertical PE conductor with Linergy BS busbar (W = 1675 mm)		Horizontal PE conductor with Linergy BS busbar		
Rated short-time current (Isc)	≤ 65	> 65... ≤ 80	= 100	≤ 40	> 40	≤ 40	> 40	
Permissible current (A)	630	800	1250	-	-	-	-	
Bar size (mm)	-	-	-	25 x 5	50 x 5	25 x 5	50 x 5	
Characteristics	-	-	-	Drilled flat bar Ø10.6 mm (one 10.6 mm hole every 25 mm along the entire length)	Drilled flat bar Ø10.6 mm (two 10.6 mm hole every 25 mm along the entire length)	-	-	
References	04502	04503	04505	04512	04515	04512	04512	04512



Connection between PE conductors		
	Connection plates for horizontal/vertical PE bars	Linergy connection hardware
Composition	2 copper angle brackets	20 M8 bolts (W = 25 mm) + 20 nuts + 20 contact washers for connection to cable lugs or flexible bars
References	04672	04766

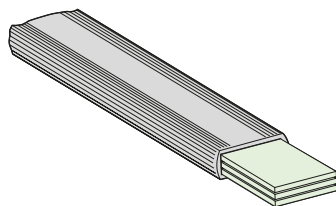


PEN conductor			
	Linergy TB PEN installation kit with LGY vertical profile	1600 A connection 10 mm horizontal busbar with Linergy LGY profile	Linergy LGYE vertical connection 1600 A
References	04656	04636	04602

Accessories for low voltage switchboards

Insulated flexible bars

DD0381659-SE



Characteristics

Width	1800 mm
Rated insulation voltage (Ui)	1000 V
Maximum withstand temperature for the insulating material	125 °C

Connection between device and busbars

The flexible bars are determined taking into account the connected device, whatever the internal temperature of the switchboard.

The bar sizes indicated below take into account the derating curves of devices.

Devices	Size (mm)	References
NSX100	20 x 2	04742
NSX160/250	20 x 3	04743
NSX400	32 x 5	04751
NSX630	32 x 8	04753
FM 200 A Linergy	20 x 3	04743
FC 3P Linergy	32 x 8	04753
FC 4P Linergy	32 x 8	04753
Fupact 250	24 x 5	04746
Fupact 400	32 x 5	04751
Fupact 630	32 x 8	04753

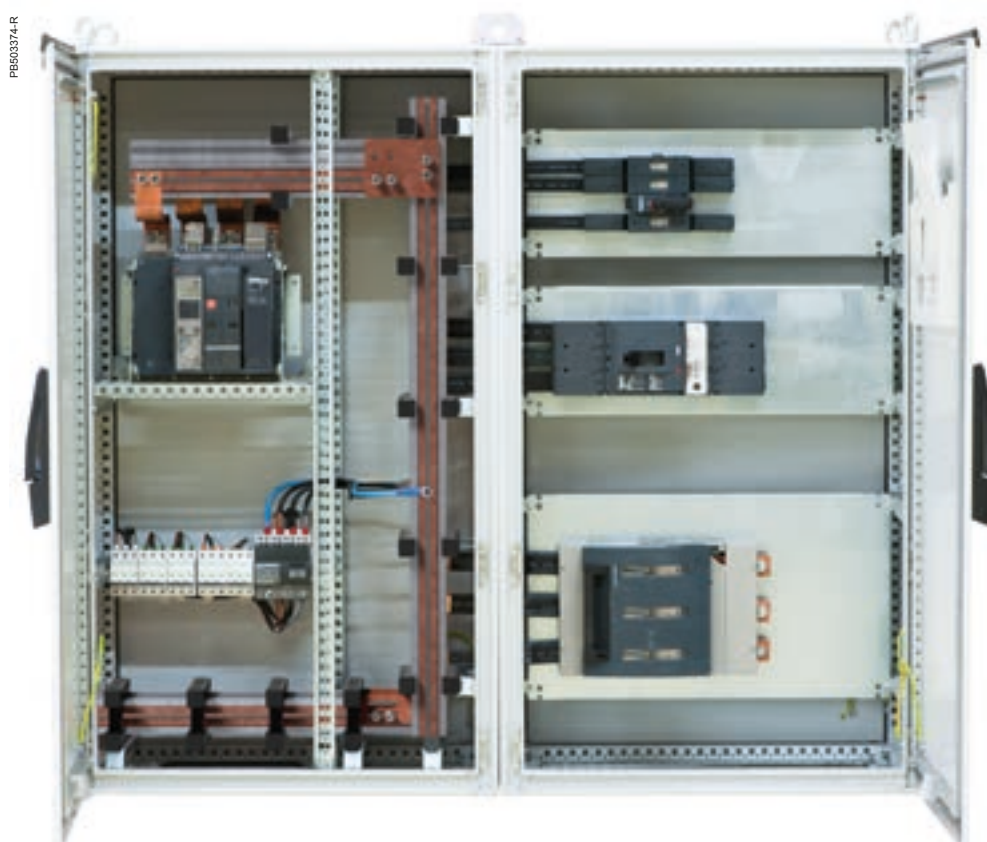
Accessories for low voltage switchboards

IEC 61439-2 certified assemblies

Introduction

Because low-voltage switchboards must comply with the IEC 61439-2 standard, we have tested the most unfavourable and the most representative configurations (§ 10.10.2 of IEC 61439-1 ed2 2011) ranging up to 4000 A. We thus cover the entire product range, based on the Spacial SF universal assembly system, allowing you to thus comply with the requirements of the standard.

Whether you are an OEM or a panelbuilder, using universal enclosures and looking for flexibility and reliable assembly advice for integration of the equipment, you will find in this guide how to produce in optimal conditions an electrical switchboard fitted with Schneider Electric equipment.



To meet continuity of service and electrical safety requirements, we provide you with certificates based on assemblies tested with a third-party organization in accordance with the IEC 61439-2 standard, adopting the most commonly used configurations, which will help you to finalize your switchboard with complete confidence using useful, reliable and certain information that has been verified.

These tests cover the entire Spacial SF range of dimensions and supplement our range of tested Spacial SFP enclosures based on the functional unit system of Prisma, and Spacial SFM for MCC applications.

This guide is also an opportunity to give a reminder of the fundamental rules for use of an enclosure and for installation of equipment in Spacial SF.

Accessories for low voltage switchboards

IEC 61439-2 certified assemblies

Compatibility table

Dimensions (mm)			Intensity (A)				
Height	Width	Depth	≤ 800A	≤ 1250A	≤ 1600A	≤ 2500A	≤ 4000A
1200	600	400	•				
		600	•				
	800	400	•				
		600	•				
1400	600	400	•	•			
	800	400	•	•			
1600	600	600	•	•			
		800	•	•			
	800	600	•	•			
		800	•	•			
1800	600	400	•	•	•		
		500	•	•	•		
		600	•	•	•	•	
		800	•	•	•	•	
	800	400	•	•	•		
		500	•	•	•		
		600	•	•	•	•	
	1000	400	•	•	•		
		500	•	•	•		
		600	•	•	•	•	
	1200	400	•	•	•		
		500	•	•	•		
600		•	•	•	•		
2000	600	400	•	•	•		
		500	•	•	•		
		600	•	•	•	•	
		800	•	•	•	•	•
	800	400	•	•	•		
		500	•	•	•		
		600	•	•	•	•	
		800	•	•	•	•	•
	1000	400	•	•	•		
		500	•	•	•		
		600	•	•	•	•	
		800	•	•	•	•	•
	1200	400	•	•	•		
		500	•	•	•		
		600	•	•	•	•	
		800	•	•	•	•	•
1600	400	•	•	•			
	500	•	•	•			
	600	•	•	•	•		
	800	•	•	•	•	•	
2200	600	600	•	•	•	•	
		800	•	•	•	•	•
	800	600	•	•	•	•	
		800	•	•	•	•	•
	1000	600	•	•	•	•	
	1200	600	•	•	•	•	
		800	•	•	•	•	•

*: Certified dimensions for indicated intensity



IEC 61439-2 certification (**IECEE CB scheme issued by DEKRA**) is valid only once installation has been carried out, according to the recommendations indicated in the technical guide, "how to assemble a Spacial SF switchboard", with the Schneider Electric devices featured in this guide.



How to assemble a Spacial SF switchboard
(Implementation of the standard IEC 61439)
Technical guide

Ref : UE17MK01EN



Prisma functional system

Introduction

The Prisma functional system can be used for all types of low-voltage distribution switchboards up to 4000 A, in commercial and industrial environments.



Switchboard design is very simple



- ① **A metal structure**
made up of one or more frameworks combined side-by-side or back-to-back.
- ② **A distribution system**
positioned in a lateral compartment or at the rear of the cubicle are used to distribute electricity throughout the switchboard.
- ③ **Complete functional units**
 - dedicated mounting plate for device installation
 - front plate to block direct access to live parts
 - devices for on-site connections.

The functional units are modular and are arranged rationally, one on top of another, within the enclosure. The components of the Spacial SFP and those of the functional units in particular have been designed and tested taking into account device characteristics. This design approach ensures a high degree of reliability in system operation and optimum safety for personnel.

Advantages of Prisma system switchboards



- ① **A safe electrical installation**
The total compatibility of Schneider Electric devices with the Prisma system is a key advantage in ensuring a high level of installation dependability.
- ② **An upgradeable electrical installation**
Thanks to modular design, Spacial SFP switchboards can be modified easily to integrate new functional units as needed.
- ③ **Total safety for personnel**
Work in a switchboard must be carried out by authorised persons in compliance with all applicable safety regulations. To increase the safety of personnel, devices are installed behind protective front plates; only the operating handles are accessible. Additional internal protection (partitions, barriers) is available to create form 2, form 3 and form 4 separation to protect against direct contacts with live parts. Terminal shields are mandatory for installation of Compact NSX and INS/INV devices in Prisma system enclosures.

Prisma functional system

Introduction

Use of the components in the Prisma functional system ensures the creation of switchboards complying with standards IEC 62208, IEC 61439-2.



Electrical characteristics



- Rated insulation level of main busbars: 1000 V.
- Rated operational current I_e : 4000 A.
- Rated peak withstand current I_{pk} : 220 kA.
- Rated short-time withstand current I_{cw} : 100 kA rms/1 second.
- Frequency: 50/60 Hz.

Mechanical characteristics



- Steel sheet metal.
- Structured finish, epoxy-polyester powder.
- Grey colour RAL 7035.
- Can be dismantled.
- Can be combined side-by-side and back-to-back.
- Degree of protection: IP55 according to IEC 60529.
- Degree of protection against mechanical impacts: IK10 (IK08 for the glazed-door) according to IEC 62262.
- Framework dimensions:
 - two widths:
 - W 300: cable compartment
 - W 700: device compartment or cable compartment
 - three depths:
 - D500 up to 1600 A with incoming Masterpact NT and MTZ1 only
 - D600 up to 1600 A with incoming Masterpact NT and MTZ1 only. Possibility to connect with cables from rear
 - D800 up to 3200 A with incoming Masterpact NT and MTZ1 or NW and MTZ2. Possibility to connect to cables from rear or to connect to rear vertical busbars
- height: 2000 mm
- Enclosures for indoor installation.



Electrical switchboards built using the Prisma functional system and Schneider Electric recommendations fully comply with international standard IEC 61439-2.

Prisma functional system

Introduction

The forms according to IEC 61439-2

Decisions concerning the Form of separation and the degree of protection are the subject of an agreement between the manufacturer and the user.



In most installations, Spacial SFP cubicles do not require partitioning.

In this case, the switchboard is a Form 1.

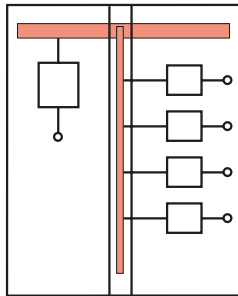
Safety being one of its foremost goals, Schneider Electric offers options and features that go well beyond the recommendations of the standard.

The protection of life and property is a standard feature due to:

- front plates that require a tool to be removed
- keylocks on doors, some of which provide access to live parts
- the systematic installation of terminal shields on Compact NSX circuit breakers and Compact INS and INV switch-disconnectors
- covering of the upstream and downstream terminals on the incoming device so that operators are perfectly safe at all points in the switchboard when the incoming device is off (open).

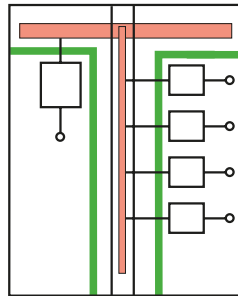
What is more, Spacial SFP offers different levels of partitioning to create separations inside the cubicles and thus create Form 2b, 3b, 4a and 4b electrical switchboards. Electrical switchboards must meet the degree of protection IP2X to comply with standard IEC 61439-2.

Form 1



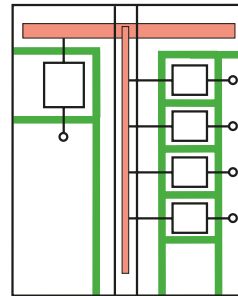
In most installations, Spacial SFP cubicles do not require partitioning. In this case, the switchboard is a Form 1. Safety being one of its foremost goals, Schneider Electric offers options and features that go well beyond the recommendations of the standard.

Form 2b



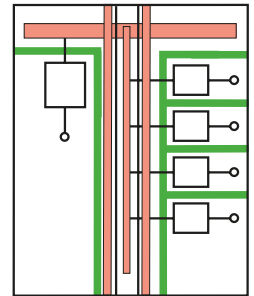
- Terminals for external conductors separated from busbars.
- The functional units and the terminals are separated from the busbars.

Form 3b



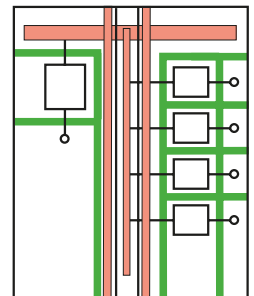
- Terminals for external conductors separated from busbars.
- The functional units are separated from each other and from the busbars.
- The terminals are separated from the busbars, but not from each other.

Form 4a



Terminals for external conductors in the same compartment as the associated functional unit.

Form 4b



Terminals for external conductors not in the same compartment as the associated functional unit, but in individual, separate, enclosed protected spaces or compartments.

Prisma functional system

Introduction

Upgradeable Prisma functional units

Functional units include switchgear mounting plates, front plates, connection supports, barriers...

Masterpact
NW08 to NW40



Masterpact
NT06 to NT16



Masterpact
MTZ1 and MTZ2



Compact NSX
up to 630 A



Compact NS
from 630b to 1600 A



Compact NS
up to 3200 A



Easypact
from 100 to 630 A



Compact INS-INV250-630 A



Compact INS-INV630-2500 A



Source changeover systems
Compact/Masterpact



Source changeover systems
Compact INS



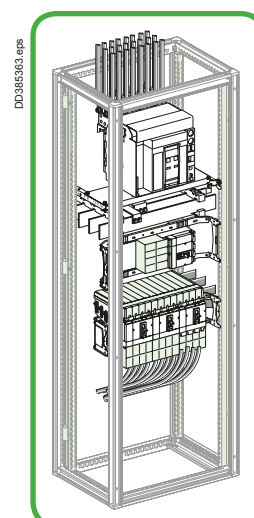
Fupact
from 32 to 1250 A



Multi 9 - Acti 9



Accessories



For more informations, see the catalogue Prisma P DESW016EN.

Prisma functional system

Power busbars

Linergy LGYE - Horizontal profiles up to 4000 A

Installation in Spacial SFP Linergy profile, 2000 mm length	Up to 1600 A					Up to 4000 A			
	630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A	4000 A
Permissible current for an ambient temperature of 35 °C around the switchboard	IP ≤ 31 630 A	IP ≤ 31 800 A	IP ≤ 31 1000 A	IP ≤ 31 1250 A	IP ≤ 31 1650 A	IP ≤ 31 2000 A	IP ≤ 31 2440 A	IP ≤ 31 3200 A	IP ≤ 31 3620 A
Number of profiles per phase	1					3			
Total number of vertical modules (50 mm)	3					4			
Cat. no.	04560	04561	04562	04563	04564	04565	04566	04567	04568

Busbar supports

NSYBSA		04664	
Characteristics		2 fixed supports for Spacial SFP 700 wide frame are compulsory. 1 fixed support for 300/400 wide frame are compulsory. If more supports are needed, add free supports.	
In cubicle: W700 Busbar supports 75 mm distance between bars	Number of supports	≤ 15	2
	≤ 25	2	
	depending on lcw	≤ 30	2
	75 mm distance between bars	≤ 40	-
	(kA rms/1 s)	≤ 40	2
	≤ 50	-	
	≤ 60	-	2
	≤ 65	-	2+1
	≤ 75	-	2+1
	≤ 85	-	2+1
≤ 100	-	2+2	
Cat. no.	Fixed support	04664	04664 + 04671 (order 1 per support)
	Free support	NSYBSA	NSYBSA + 04671 (order 1 per support)
In duct: W300 Busbar supports 75 mm distance between bars	Number of supports	≤ 15	1
	≤ 25	1	
	depending on lcw	≤ 30	1
	75 mm distance between bars	≤ 40	1
	(kA rms/1 s)	≤ 50	1
	≤ 60	1	
	≤ 65	1 + 1	
	≤ 75	1 + 1	
	≤ 85	1 + 1	
	≤ 100	-	1 + 1
Cat. no.	Fixed support	04664	04664 + 04671 (order 1 per support)
	Free support	NSYBSA	NSYBSA + 04671 (order 1 per support)

Joints













	Up to 1600 A					Up to 4000 A			
	630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A	4000 A
Cat. no.	3 x 04620 (3P) 4 x 04620 + 04624 (4P)					3 x 04621 (3P) 4 x 04621 + 04624 (4P)			
Note	Reference 04624 is compulsory when installing jointed Linergy LGYE 4P busbars and must be fitted where the frames meet. When installed at the bottom of a cubicle, the busbar must be partitioned.								

Note: for accessories, see page 344.

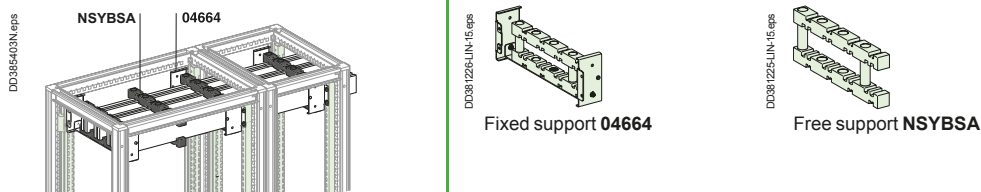
Prisma functional system

Power busbars

Linergy BS - Horizontal flat busbars up to 4000 A

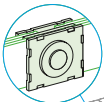

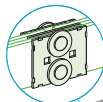




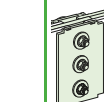

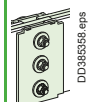
Installation in Spacial SFP	Up to 1600 A				Up to 4000 A							
Copper bar, 2000 mm length												
Permissible current for an ambient temp. of 35 °C around the switchboard	IP ≤ 31 750 A	IP > 31 900 A	1400 A	1800 A	1800 A	2050 A	2300 A	2820 A	3300 A	3760 A		
Busbar cross-section (mm)	60 x 5	80 x 5	60 x 5	80 x 5	80 x 10	50 x 10	60 x 10	80 x 10	100 x 10	120 x 10		
Number of busbars per phase	1	1	2	2	1	2	2	2	2	2		
Total number of vertical modules (50 mm)	3											
Cat. no.	04536	04538	04536	04538	04548	04545	04546	04548	04550	04552		

Busbar supports



In cubicle: W700 with 75 mm distance between bars	Characteristics	2 fixed supports for Spacial SFP 700 wide frame are compulsory. 1 fixed support for 300/400 wide frame are compulsory. If more supports are needed, add free supports.		
Number of supports	≤ 15	2		
depending on l _{cw} (kA rms/1 s)	≤ 25	2+1	2	
	≤ 30	2+1	2	
	≤ 40	2+1	2	
	≤ 50	-	2+1	2
	≤ 60	-	2+1	
	≤ 65	-	2+1	
	≤ 75	-	2+2	2+1
	≤ 85	-	-	2+1
Cat. no.	Fixed support	04664		04664 + 04671
	Free support	NSYBSA		NSYBSA + 04671
In duct: W300 with 75 mm distance between bars	Number of supports	1		
depending on l _{cw} (kA rms/1 s)	≤ 30	1+1		
	≤ 50	1		
	≤ 85	2		
Cat. no.	Fixed support	NSYBHS500 (D500) or NSYBHS600 (D600) or NSYBHS800 (D800)		
	Free support	NSYBSA		
		NSYBHS500 (D500) or NSYBHS600 (D600) or NSYBHS800 (D800) + 04671		
		NSYBSA + 04671		

Joints

Installation in Spacial SFP	Up to 1600 A				Up to 4000 A					
	1 vertical bar per phase		2 vertical bars per phase		1 vert. bar per phase		2 vertical bars per phase			
Busbar cross-section (mm)	60 x 5	80 x 5	60 x 5	80 x 5	80 x 10	50 x 10	60 x 10	80 x 10	100 x 10	120 x 10
Sliding joints with self-breaking lock nut										
Cat. no.	04640	04641	04640	04641	04641	04640	04640	04641	04641	04643

Note: When installed at the bottom of a cubicle, the busbar must be partitioned.

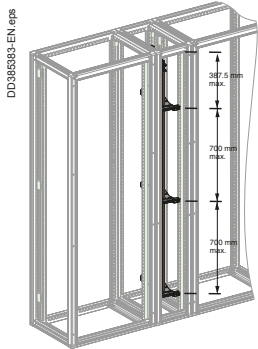
Prisma functional system

Power busbars

Linery LGY - Lateral profiles up to 1600 A

In Spacial SFP duct		Up to 1600 A (single busbar)				
Linery profile, 1670 mm length		W300				
		630 A	800 A	1000 A	1250 A	1600 A
Permissible current for an ambient temp. of 35 °C around the switchboard	IP ≤ 31	680 A	840 A	1040 A	1290 A	1650 A
	IP > 31	590 A	760 A	950 A	1170 A	1480 A
Number of profiles per phase		1				
Cat. no.		04502	04503	04504	04505	04506

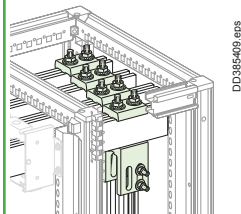
Busbar supports



Characteristics		Fixed support 04651	
			An end stop must be fitted on the bottom support: 01109 (sold in lots of 12)
Number depending on Icw (KA rms/1 s)	≤ 25	3	
	≤ 30	3	
	≤ 40	3	
	≤ 50	4	
	≤ 60	5	
	≤ 65	5	
	≤ 75	7	
	≤ 85	8	

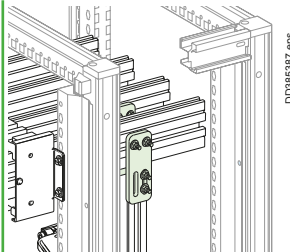
Cat. no. **04651** (set of 2 upright adapters **NSYSFPA** for installation in Spacial SFP cubicle)

Connections to the Linery BS horizontal busbar



Characteristics		Supplied with mounting hardware. Reference include 1 connection only. Order 1 connection per phase.	
Cat. no according to horizontal busbar size	5 mm thick	04634	04635
	10 mm thick	Width ≤ 80 mm	04636
		Width > 80 mm	04636 + 04642
		04638 + 04642	

Connections to the Linery LGYE horizontal busbar



Characteristics		Supplied with mounting hardware. Reference include 1 connection only. Order 1 connection per phase.	
Cat. no.		04602 (vertical connection)	04603 (vertical shifted connection) ⁽¹⁾

(1) Dedicated connection 04603 for Linery LGYE busbar in 150 mm duct with horizontal jointing.

Prisma functional system

Power busbars

Linery LGYE - Lateral profiles up to 4000 A

In Spacial SFP duct		Up to 4000 A											
Linery profile, 2000 mm length		W300											
		630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A	4000 A			
Permissible current for an ambient temperature of 35 °C around the switchboard		IP ≤ 31 530 A	IP > 31 680 A	850 A	1050 A	1480 A	1650 A	2100 A	2800 A	3620			
Length to cut for side mounting		1675 mm								1625 mm			
Number of profiles per phase		1											
Cat. no.		04560	04561	04562	04563	04564	04565	04566	04567	04568			

Busbar supports

			Fixed support NSYBVS500	Free support NSYBSA	Bottom support NSYAS500
	Characteristics		3 fixed supports are compulsory to hold the busbar in position. If more than 3 supports are needed, use free supports (in addition).		
	Number depending on I _{cw} (kA rms/1 s)	≤ 30	3		
	≤ 40	-	3+2	3	
	≤ 50	-		3	
	≤ 60	-	3+2		
	≤ 65	-		3	
	≤ 75	-	3+2		
	≤ 85	-	3+4	3+2	
	≤ 100	-	3+4		
Cat. no. of supports depending on distance between bars and duct depth	Spacial SFP duct	W300, D500	NSYBVS500 (fixed) + NSYBSA (free) + NSYAS500 (spacer) ⁽¹⁾		
	75 mm distance between bars	W300, D600	NSYBVS600 (fixed) + NSYBSA (free) + NSYAS600 (spacer) ⁽¹⁾		
		W300, D800	NSYBVS800 (fixed) + NSYBSA (free) + NSYAS800 (spacer) ⁽¹⁾		
	Spacial SFP duct	W300, D800	NSYBVS800L (fixed) + 04678 (free) + NSYAS800L (spacer) ⁽¹⁾		

(1) If using a 100 x 10 bars, add a pack of screws ref. 04671 for each fixed support and free support.

Wedging busbars in position

		Wedge fitted on bottom support 04658	Wedge fitted on bottom support 04659
Characteristics		The bottom support is used to place profiles and ensure they are in the correct position. It is not considered to be a busbar support.	
Cat. no.	Bottom support	04663	04666 + 04661
	Wedge	04658	04659

Connections to the Linery LGYE horizontal busbar

		2000/2500 A	3200/4000 A
Characteristics		Supplied with mounting hardware. Reference include 1 connection only. Order 1 connection per phase.	
Cat. no.		04604 (short connection)	04607
		04605 (long connection)	

Prisma functional system

Power busbars

Linery BS - Lateral flat busbars up to 3200 A		Up to 1600 A				Up to 3200 A								
In Spacial SFP duct		W300 D500/600/800				W300 D500/600/800								
Pre-slotted copper, 1675 mm length														
Permissible current for an ambient temp. of 35 °C around the switchboard	IP ≤ 31	800 A	1000 A	1400 A	1800 A	1200 A	1400 A	1800 A	2050 A	2300 A	2820 A	3200 A		
	IP > 31	750 A	900 A	1250 A	1600 A	1080 A	1250 A	1600 A	1850 A	2000 A	2500 A	2820 A		
Busbar cross-section (mm)		60 x 5	80 x 5	60 x 5	80 x 5	50 x 10	60 x 10	80 x 10	50 x 10	60 x 10	80 x 10	100 x 10		
Number of busbars per phase		1		2		1		2						
Cat. no.		04516	04518	04516	04518	04525	04526	04528	04525	04526	04528	04550 ⁽¹⁾		

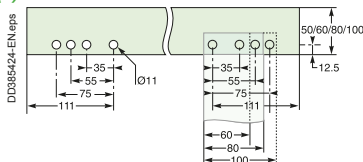
Busbar supports		Description	
		3 fixed supports are compulsory to hold the busbar in position. If more than 3 supports are needed, use free supports (in addition). The bottom wedge support is used to place the busbar and ensure it is in the correct position. It does not count as a busbar support.	
Number of supports depending on l _{cw} (kA rms/1 s)	≤ 15	3	3
	≤ 25	3+2	3
	≤ 30	3+2	3
	≤ 40	3+4	3+2
	≤ 50		3+2
	≤ 60		3+4
	≤ 65		3+4
	≤ 75		3+6
≤ 85		3+4	
Cat. no. of supports depending on distance between bars and duct depth	Spacial SFP duct W300, D500	NSYBVS500 (fixed) + NSYBSA (free) + NSYAS500 (spacer) ⁽²⁾	
	75 mm distance between bars W300, D600	NSYBVS600 (fixed) + NSYBSA (free) + NSYAS600 (spacer) ⁽²⁾	
	Spacial SFP duct W300, D800	NSYBVS800 (fixed) + NSYBSA (free) + NSYAS800 (spacer) ⁽²⁾	
	115 mm distance between bars W300, D800	NSYBVS800L (fixed) + 04678 (free) + NSYAS800L (spacer) ⁽²⁾	

(1) Copper bar without holes.

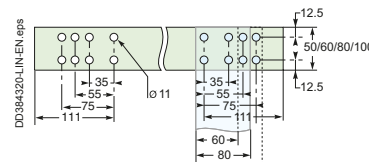
(2) If using a 100 x 10 bars, add a pack of screws ref. 04671 for each fixed support and free support.

Connections to the Linery BS horizontal busbar		Characteristics	
		For a busbar with 75 mm distance between bars, the bars must be completely covered. Staggered assembly points between one bar and the next, to maintain the necessary clearance distances. ⁽³⁾	
		References 04636 , 04637 , 04638 are supplied individually: 1 connection per phase. Reference 04642 consists of 2 M8 x 140 screws which can replace the original M8 x 120 screws.	
1 vertical bar per phase 60 x 5 80 x 5		2 vertical bars per phase 60 x 5 80 x 5	
1 vertical bar per phase 50 x 10 60 x 10 80 x 10		2 vertical bars per phase 50 x 10 60 x 10 80 x 10 100 x 10	
Cat. no. of the connection piece depending on horizontal busbar size	≤ 80 mm	04645	04636 04637 04637 04645
	> 80 mm	04645	04636 + 04642 04637 + 04642 04637 + 04642 04645

(3) Drill hole dimensions for 5 mm thick horizontal busbars.








Drill hole dimensions for 10 mm thick horizontal busbars.



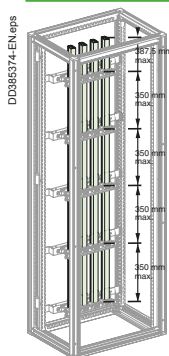
Prisma functional system

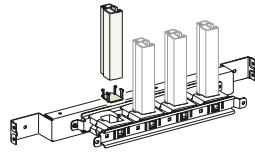
Power busbars

Linery LGYE - Rear profiles up to 1600 A

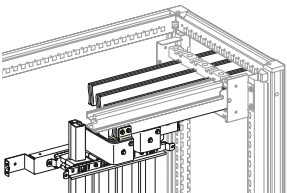
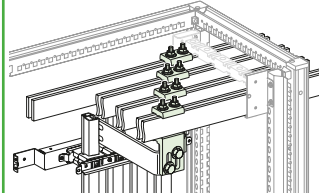
		Up to 1600 A				
At the rear of a Spacial SFP cubicle		W700				
Linery profile, 1670 mm length						
		DD381233-LIN_7.eps	DD381234-LIN_7.eps	DD381235-LIN_7.eps	DD381236-LIN_7.eps	DD381237-LIN_7.eps
Permissible current for an ambient temp. of 35 °C around the switchboard		630 A	800 A	1000 A	1250 A	1600 A
Number of profiles per phase	IP ≤ 31	680 A	840 A	1040 A	1290 A	1650 A
	IP > 31	590 A	760 A	950 A	1170 A	1480 A
Cat. no.		04502	04503	04504	04505	04506

Busbar supports

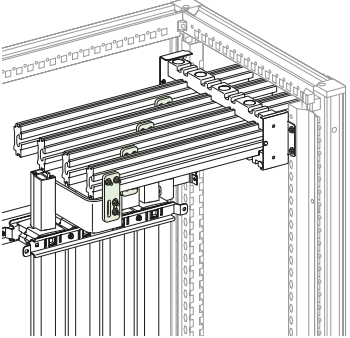


		Fixed support 04652				
Number depending on l _{cw} (kA _{rms} /1 s)	≤ 25	3				
	≤ 30	4				
	≤ 40	5				
	≤ 50			7		
Characteristics				An end stop must be fitted on the bottom support 01109 (sold in lots of 12)		
Cat. no.		04652				

Connections to the Linery BS horizontal flat busbar

			
		DD385372.eps	DD385373.eps
		04635 connection to 5 mm thick horizontal busbar	04636 connection to 10 mm thick horizontal busbar
Characteristics		Fixings supplied, order 1 connection per phase. For part of the connection, flexible insulated busbars are needed.	
Cat. no. according to horizontal busbar size		5 mm thick	
		10 mm thick	Width ≤ 80 mm
		thick	Width > 80 mm
		04635	04636
		04636 + 04642	

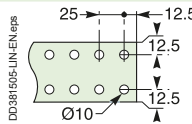
Connections to the Linery LGYE horizontal flat busbar

		
		DD385375.eps
		04602 connection to the Linery LGYE horizontal flat busbar
Characteristics		Fixings supplied, order 1 connection per phase. For part of the connection, flexible insulated busbars are needed.
Cat. no.		04602

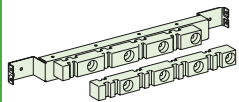
Prisma functional system

Power busbars

Linery LGYE - Rear flat busbars up to 1600 A

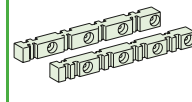
		Up to 1600 A					
At the rear of a Spacial SFP cubicle		W700					
Pre-slotted copper, 1670 mm length							
Permissible current for an ambient temperature of 35 °C around the switchboard	IP ≤ 31	800 A	1000 A	1400 A	1000 A	1200 A	1600 A
	IP > 31	800 A	1000 A	1400 A	-	-	-
Busbar cross-section (mm)		60 x 5	80 x 5	60 x 5	50 x 10	60 x 10	80 x 10
Number of busbars per phase		1		2	1		
Cat. no.		04516	04518	04516	04525	04526	04528

Busbar supports



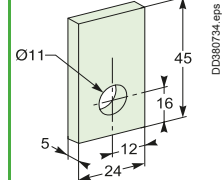
DD380732-LIN.eps

Fixed busbar support **04653**



DD381652-LIN.eps

Busbar free support **NSYBSA**



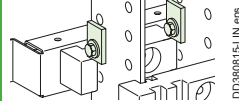
DD380734.eps

Mounting chocks **04669**

Characteristics

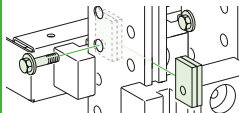
3 fixed supports ref. 04653 are compulsory to keep the busbar vertical.
 If more than 3 supports are needed, use free support ref. NSYBSA (in addition).
 Metal shim ref. 04669 (sold in lots of 100), 5 mm thick, is screwed onto the busbar.
 It rests on a fixed support and is used to wedge the busbar in position.

Wedging: 1 busbar/phase



DD380815-LIN.eps

Wedging: 2 busbars/phase

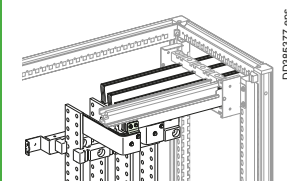


DD380733-LIN.eps

Number depending on Icw (kA rms/1 s)	≤ 15	3	3
	≤ 25	3+2	3
	≤ 30	3+2	3+2
	≤ 40	3+4	3+2
	≤ 50	3+4	3+2
	≤ 60		3+4
	≤ 65		3+4
	≤ 75		3+4
	≤ 85		3+6

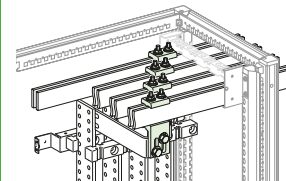
Cat. no. **04653 (fixed) + NSYBSA (free) + 04669 (spacer)**

Connections to the Linery BS horizontal flat busbar



DD386377.eps

04635 connection to horizontal busbar
5 mm thick



DD386378.eps

04636 connection to horizontal busbar
10 mm thick

Characteristics

For part of the connection, flexible insulated busbars are needed.
 References **04635**, **04636** are supplied individually = 1 connection per phase.
 Reference **04642** consists of 2 M8 x 140 screws which can replace the original M8 x 120 screws.

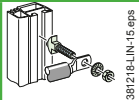
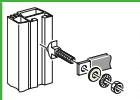

Cat. no. according to horizontal busbar size	5 mm thick	04635	
	10 mm thick	Width ≤ 80 mm	04636 ⁽¹⁾
		Width > 80 mm	04636 + 04642 ⁽¹⁾

⁽¹⁾ To be made.

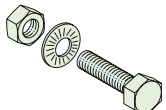
Prisma functional system

Power busbars


Linery LGYE - Accessories

		 DD381216-LIN-15.eps	 DD381216-LIN-15.eps	 DD381222-LIN-10.eps
Linery screw	Characteristics	Sold in lots of 20: 20 screws + 20 nuts + 20 contact washers, class 8.8. The screws slide into the profile and are then locked in the desired position.		
	Cat. no.	25 mm length		
		39 mm length		
Steel plain washers	Characteristics	M8 sold in lots of 20		
	Cat. no.	ext. Ø20 mm	04772	
		ext. Ø24 mm	04773	
		ext. Ø28 mm	04774	
Brass plain washers	Characteristics	M8 sold in lots of 20 for connection of ≤ 25 mm ² lugs to Linery		
	Cat. no.	ext. Ø20 mm	04775	
Identification	Characteristics	12 clip-on supports + N, L1, L2, L3, PE, PEN labels		
	Cat. no.	04794		
	Characteristics	Linery LGYE busbar screw plate kit after sales service		
	Cat. no.	01130		

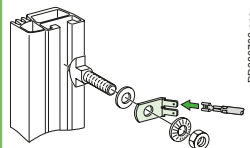
M8 bolts

		 DD380737.eps
Linery BS, 20 bolts 8.8 class	Characteristics	Set of 20 bolts + 20 nuts + 40 contact washers.
	Cat. no.	M8 x 20 04782
		M8 x 25 04783
		M8 x 30 04784
		M8 x 35 04785
		M8 x 40 04786
		M8 x 45 04787
		M8 x 50 04788






Torque nuts

		 DD380735.eps
20 M8 torque nuts	Characteristics	Can be used to obtain the correct tightening torque (28 Nm) recommended by then manufacturer, without using a torque wrench. Torque nuts may be used for all electrical connections.
	Cat. no.	04759

Voltage tap-offs

		 DD380736.eps
20 M10 voltage tap-offs for two 6.35 mm tab connectors	Characteristics	For small lugs (on low-current cables or measurement tap-offs), insert a conducting washer (cat. no. 04775) between the busbar and the lug.
	Cat. no.	04229

★ Connections on Linery LGYE & LGY

InA (A)		Connection on Linery	Utilisation	Cat. no.	
0 to 630	Cable Insulated flexible bar	Use the 25 mm Linery screw	Recommended	04766	
		Use the 39 mm Linery screw	Possible	04767 ⁽¹⁾	
800 to 1250	5 mm thick bar	Use the 25 mm Linery screw	Recommended	04766	
		Use the 39 mm Linery screw	Possible	04767 ⁽¹⁾	
		Use the flat plate screw with 2 studs	Possible	04768	
1600 to 2500	5 or 10 mm thick bar	Use the flat plate screw with 2 studs	Recommended	04768	
		Use the 39 mm Linery screw	Possible	04767 ⁽¹⁾	
3200 to 4000	10 mm thick bar	Use the flat plate screw with 3 studs	Recommended	04769	

⁽¹⁾ **04767** is only compatible with Linery LGY.

Prisma functional system

Characteristics

Form 1 partitioning



Presentation

Decisions concerning the Form of separation and the degree of protection are the subject of an agreement between the manufacturer and the user.

In most installations, Spacial SFP cubicles do not require partitioning. In this case, the switchboard is a Form 1.

Safety being one of its foremost goals, Schneider Electric offers options and features that go well beyond the recommendations of the standard.

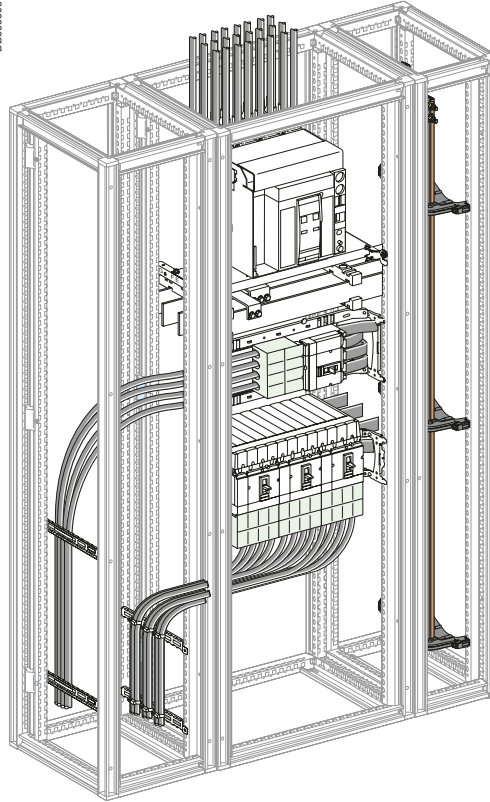
The protection of life and property is a standard feature due to:

- > front plates that require a tool to be removed
- > keylocks on doors, some of which provide access to live parts
- > the systematic installation of terminal shields on Compact NSX circuit breakers and Compact INS and INV switch-disconnectors.

What is more, Spacial SFP offers different levels of partitioning to create separations inside the cubicles and thus create Form 2b, 3b, 4a & 4b electrical switchboards.

Electrical switchboards must meet the degree of protection IP2X to comply with standard IEC 61439-2.

DD3885393



The protection of life and property is ensured by the systematic installation of terminal shields on Compact NSX circuit breakers and on Compact INS and INV switch-disconnectors (see the pages on the functional units).

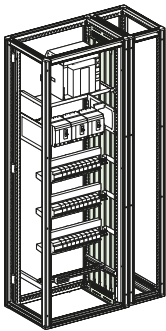
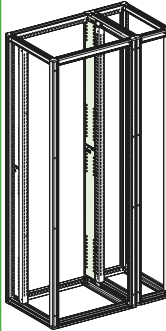
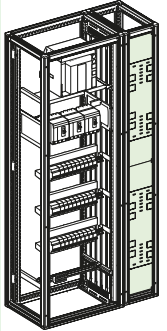
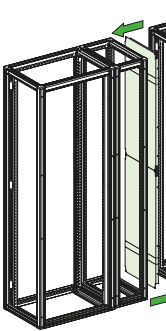
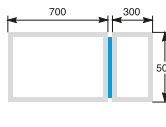
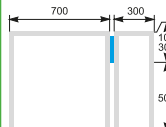

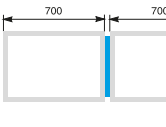
Prisma functional system

Characteristics

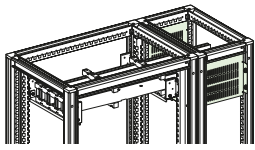
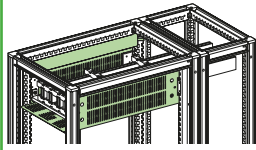
Form 2b partitioning

Separation of busbars from the functional units:

- protection against contact with live parts upstream of the outgoing circuits
- protection against penetration of foreign solid bodies.

	Lateral partitioning	Form 2 restoration for side-barrier cut-out	Partitioning extension	Front and rear barrier	Inter-cubicle partitioning
					
					
Characteristics	<ul style="list-style-type: none"> ■ Vertical barrier made of insulating slats. ■ Can be installed on both sides of Linergy and lateral busbars. ■ The space between the slats is sufficient for prefabricated connections (one copper bar, 5 or 10 mm thick, or insulated flexible bars) or for cables up to 35 mm², while maintaining the degree of protection IP2X compliance with standard IEC 60695.2.1 concerning withstand to fire. 	<ul style="list-style-type: none"> ■ This kit enables passage of the connection between a device > 1600 A (NW, INS) and lateral vertical busbars. ■ It is made up of an insulated plate (six modules H 300 mm) that can be cut as required, supplied with supports and the necessary hardware. 	<ul style="list-style-type: none"> ■ For the Spacial SFP system switchboards 600 and 800 mm depth, a partitioning extension is required. 	<ul style="list-style-type: none"> ■ Front protection is realized by the association of the door W300 and this barrier. Metallic barrier, composed of 2 parts H850, pre-cut at both ends. ■ Rear protection, a barrier is required at the rear of the busbar compartment in cubicles that are 800, 1000 and 1300 mm deep. 	<ul style="list-style-type: none"> ■ Metal partition, used to separate two adjacent cubicles. ■ It is made up of two panels, each 850 mm high. ■ The top and bottom ends have knock-outs for horizontal busbars. ■ Supplied with the necessary supports and hardware, the partition is mounted on the framework and does not hinder installation of the functional mounting plates.
Referencias	06545	04924	D600: 06541 D800: 06543	06540	D500: 06555 D600: 06555 + 06541 D800: 06555 + 06543

Partitioning of horizontal busbars

	W300			W700		
						
Designation	<ul style="list-style-type: none"> ■ Set of two barriers (front and rear), plus a slotted rear panel for efficient natural convection in the switchboard. ■ The set can be used to partition horizontal busbars installed at the top or bottom of the cubicle. ■ The space required for the busbars is not increased. 					
For Depth	D500	D600	D800	D500	D600	D800
Cat. no. for 3M busbar	06560	06561	06563	06570	06570	06570
Cat. no. for 4M busbar	06568	06568	06568	06567	06567	06567

Note: when the busbars are at the bottom of the cubicle, gland plates are mandatory.

Prisma functional system

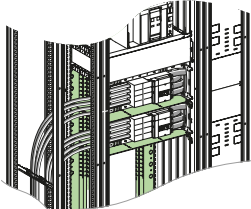
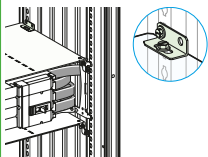
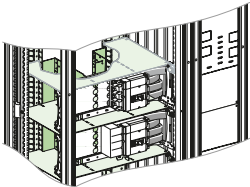
Characteristics

Form 3b partitioning

Separation of busbars from the functional units and separation of all functional units from one another.

Separation of the terminals for external conductors from the functional units, but not from each other.

- protection against contact with live parts
- reduction in the risk of faults between the functional units (propagation of electrical arcs, etc.).

Front connection		Rear connection		
 <p style="font-size: 8px; transform: rotate(-90deg); position: absolute; left: -40px; top: 50px;">DD384420.eps</p>	 <p style="font-size: 8px; transform: rotate(-90deg); position: absolute; left: -40px; top: 50px;">DD384422.eps</p>	 <p style="font-size: 8px; transform: rotate(-90deg); position: absolute; left: -40px; top: 50px;">DD384421.eps</p>		
Horizontal metal partition, W650 mm	Rear support for partitions, W650 mm	6 universal angle brackets	Rear connection	
<p>Characteristics</p> <ul style="list-style-type: none"> ■ A horizontal metal partition can be used to physically separate functional units from one another. 	<ul style="list-style-type: none"> ■ It is fixed at the rear by a support (two uprights) secured to the framework (500 mm deep) or to the intermediate uprights (800 mm deep frameworks). 	<ul style="list-style-type: none"> ■ A set of brackets can be used to install partial Form 3 partitioning in the cubicle. ■ It does not take up any useful space in the switchboard. 	<ul style="list-style-type: none"> ■ Vertical partitions (two cat. no. per functional unit) <p>3 to 4 modules 5 to 6 modules</p>	
Cat. no.	04901	04943	03583	04955 04956

Prisma functional system

Characteristics

Form 4 partitioning

- Separation of busbars from the functional units and separation of all functional units from one another, including the terminals for external conductors which are an integral part of the functional unit.
- Protection against contacts with live parts and reduction in the risk of faults between the functional units (propagation of electrical arcs, etc.).
- Form 4a: terminal for external conductors in the same compartment as the associated.
- Form 4b: Terminals for external conductors not in the same compartment as the associated functional unit, but in individual, separate, enclosed protected spaces or compartments.

Form 4a partition

Form 4a partition																
For front connection																
	<table border="1"> <tr> <td>Form 4a backplate (one cat. no. per cubicle)</td> <td>Form 4a gland plate</td> </tr> <tr> <td> <ul style="list-style-type: none"> ■ a backplate (one cat. no. per cubicle) made up to two metal half panels mounted on the rear supports for Form 3 partitions. This backplate is not indispensable for 500 mm deep frameworks. </td> <td> <ul style="list-style-type: none"> ■ a plastic gland plate that can be easily cut out (one for each functional unit) and is mounted on the framework. </td> </tr> <tr> <td></td> <td> <table border="1"> <tr> <td>3 or 4 modules</td> <td>5 or 6 modules</td> </tr> </table> </td> </tr> <tr> <td>Characteristics</td> <td></td> </tr> <tr> <td>Cat. no.</td> <td> <table border="1"> <tr> <td>04946</td> <td>04951</td> <td>04952</td> </tr> </table> </td> </tr> </table>	Form 4a backplate (one cat. no. per cubicle)	Form 4a gland plate	<ul style="list-style-type: none"> ■ a backplate (one cat. no. per cubicle) made up to two metal half panels mounted on the rear supports for Form 3 partitions. This backplate is not indispensable for 500 mm deep frameworks. 	<ul style="list-style-type: none"> ■ a plastic gland plate that can be easily cut out (one for each functional unit) and is mounted on the framework. 		<table border="1"> <tr> <td>3 or 4 modules</td> <td>5 or 6 modules</td> </tr> </table>	3 or 4 modules	5 or 6 modules	Characteristics		Cat. no.	<table border="1"> <tr> <td>04946</td> <td>04951</td> <td>04952</td> </tr> </table>	04946	04951	04952
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Form 4b partition

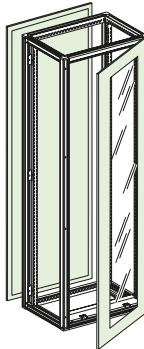
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Prisma functional system

Selection guide

Common characteristics

- Roof characteristics:
 - equipped with a factory-mounted polyurethane (PUR) gasket
 - supplied with mounting hardware
 - with markings for clear identification of cable-running zones
- The cables compartment can be mounted on the right or left.
- Can be combined side-by-side or back-to-back.
- Receive the IP55 (according to IEC 60529) cover panels.

Mounting	W700			W300		
	 DD385545.eps			 DD385546.eps		
Depth	D500	D600	D800	D500 (1)	D600 (1)	D800 (1)
Assembled enclosures H2000 Plain door	NSYSFP20750	NSYSFP20760	NSYSFP20780	NSYSF20350	NSYSF20360	NSYSF20380
Assembled enclosures H2000 Glazed door	NSYSFP20750T	NSYSFP20760T	NSYSFP20780T	-	-	-
Adapter uprights for busbar installation in vertical on Linergy LGY	-	-	-	NSYSFPA	NSYSFPA + NSYSUCR40200	NSYSFPA + NSYSUCR40200
 06502.eps Side panel (Set of 2) (2)	NSY2SP205	NSY2SP206	NSY2SP208	NSY2SP205	NSY2SP206	NSY2SP208
 DD384425.eps Pivoting frame (3)	08566	08566	08566	-	-	-
 DD381324.eps						

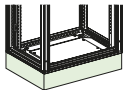
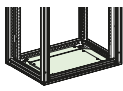
(1) For cables and to install Linergy LGYE, BS busbar.

(2) An earthing braid must be installed between the lateral panels and the frame.


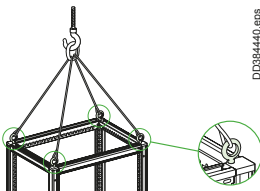
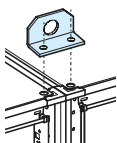



(3) Reversible for left or right-hand opening.

Prisma functional system

Selection guide

Accessories							
Width	W700			W300			
Depth	D500	D600	D800	D500	D600	D800	
 DD394426.eps	Plinth H100 (1)	Front and rear cross-pieces	NSYSPPF7100	NSYSPPF7100	NSYSPPF7100	NSYSPPF3100	NSYSPPF3100
		Lateral cross-pieces	NSYSPPS5100	NSYSPPS6100	NSYSPPS8100	NSYSPPS5100	NSYSPPS6100
 DD394427.eps	Plinth H200 (1)	Front and rear cross-pieces	NSYSPPF7200	NSYSPPF7200	NSYSPPF7200	NSYSPPF3200	NSYSPPF3200
		Lateral cross-pieces	NSYSPPS5200	NSYSPPS6200	NSYSPPS8200	NSYSPPS5200	NSYSPPS6200
	1 entrie gland-plates		NSYEC751	NSYEC761	NSYEC781	NSYEC351	NSYEC361

(1) The plinth is made up of two catalogue numbers: front and rear cross-pieces + lateral cross-pieces.

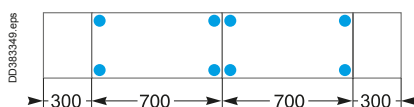
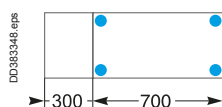
Other accessories						
	 DD385544.eps	 DD394440.eps	 NSYFELB.eps		 DD384368.eps	 UE_L1_1_2R.eps
	Coupling kit	4 lifting rings	4 lifting brackets	Set of 20 screws + M6 nuts	Earthing wire, 6 mm²	Earthing braid (3)
Description	<ul style="list-style-type: none"> side-by-side combination back-to-back combination (2): <ul style="list-style-type: none"> - D500+D500 - D800+D500 	<ul style="list-style-type: none"> Use a set of lifting rings for each framework (4) (W700 mm) containing devices. 	<ul style="list-style-type: none"> When two cubicles with devices have been combined, use a lifting beam. 		<p>The wire is equipped with a 4 mm diameter lug at one end and a 6 mm diameter lug on the other.</p> <p>The earthing wire is used to earth:</p> <ul style="list-style-type: none"> a door or wicket door with devices a front-plate support frame equipped with switchgear in a cubicle. 	<ul style="list-style-type: none"> For NSYEL166D8: Length 160 mm, Section 6 mm², Terminal 8.3 mm. For NSYEL3525D8: Length 350 mm, Section 25 mm², Terminal 8.3 mm.
Cat. No.	NSYSFBK19	NSYSFEB	NSYFELB	06461	08911	NSYEL166D8 / NSYEL3525D8

(2) Back to back association must be shipped individually and combined during on-site installation.

(3) An earthing braid must be installed between the roof and the frame.

(4) For one framework

For two frameworks



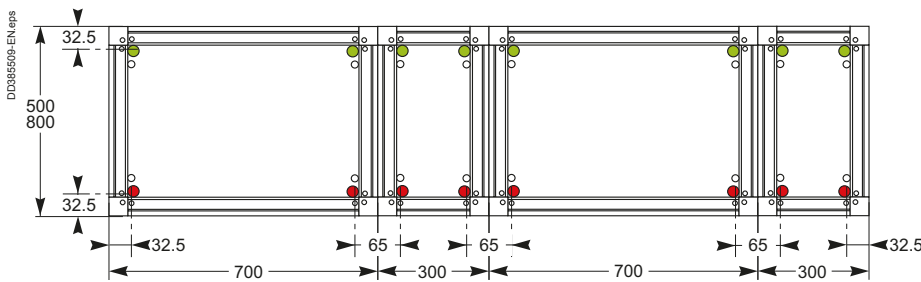
Seismic application 3G withstand					
		1600 A configuration (1)		3200 A configuration	
		Spacial SFP	Busbar duct	Spacial SFP	Busbar duct
Nominal dimensions	Height	2000	2000	2000	2000
	Width	700	300	700	300
	Depth	500	500	800	800
Additional dummy load (kg)		350	350	450	450
Seismic plinth H100 mm - Cat. no.		NSYS5GPC75	NSYS5GPC35	NSYS5GPC78	NSYS5GPC38

Note: incoming by pre-fabricated busbar trunking is forbidden for seismic application.

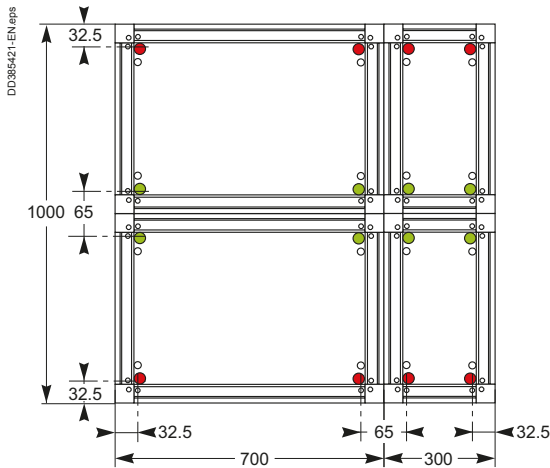
(1) Not compatible for depth 600 mm.

Ground fastening

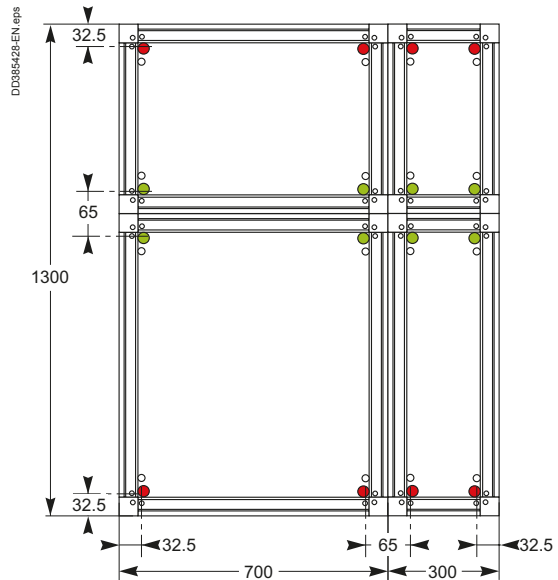
■ Front connection (example: device cubicle W700 mm + compartment W300 mm)



■ Rear connection D1000 (example: device cubicle + compartment D500 + D500 mm)



■ Rear connection D1300 (example: device cubicle + compartment D800 + D500 mm)



- compulsory fixing point
- optional fixing point

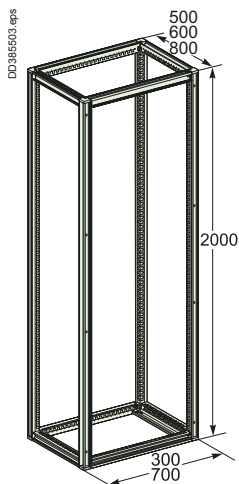
- 8.8-class screws: screw M10 TH
- + washers (external Ø 25 mm, thickness 3 mm)
- + CS contact washers Ø 10 mm.

Prisma functional system

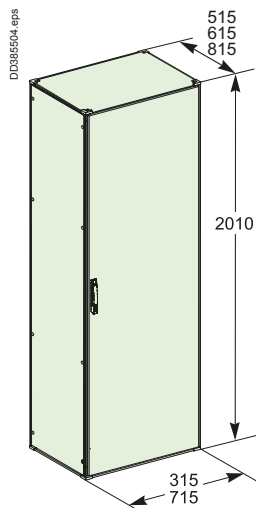
Dimensions

Cubicles

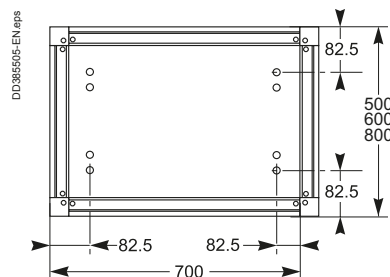
Profile



Cover panels, plain or transparent door, lateral panels

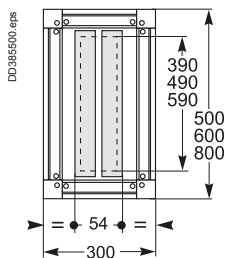


Standard plinth

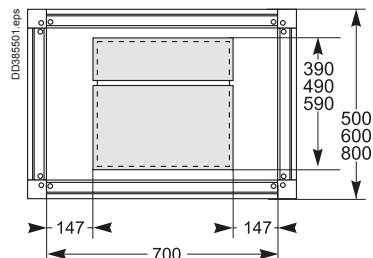


Gland plates

W300

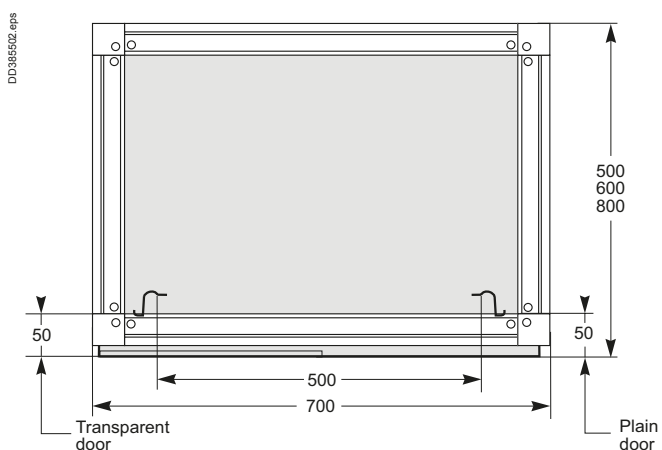


W700



Functional system in Spacial SFP switchboards, cubicle mounting

D500, D600, D800



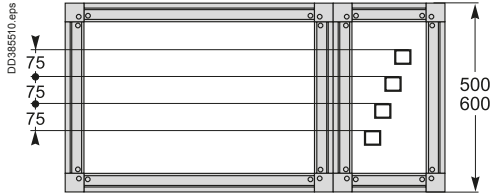
Prisma functional system

Dimensions

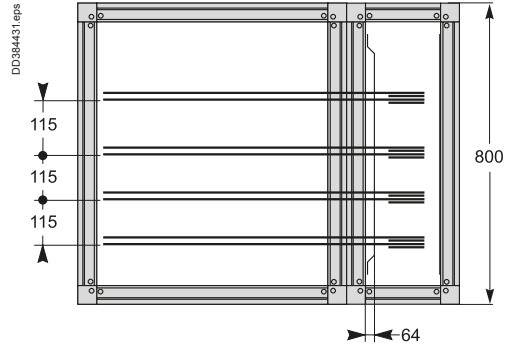
Ground fastening

Busbars mounting, Lateral vertical busbars

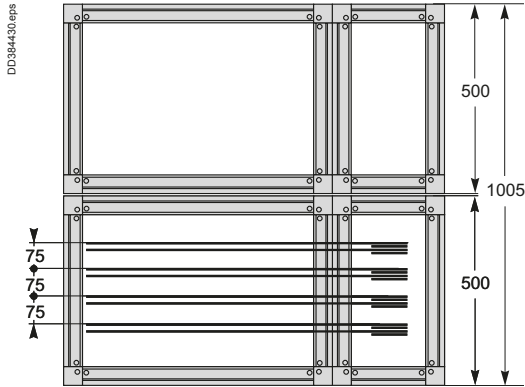
1600 A



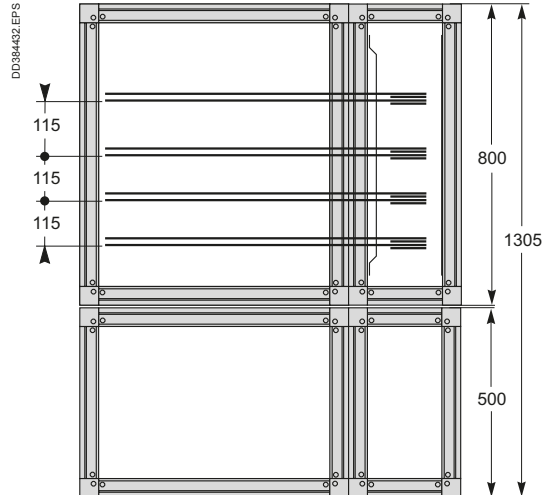
2500 A



2000 A



3200 A



Compartmentalised enclosure for Motor Control Centres

Fixed compartmentalised switchboards for Motor Control Centres

The Spacial SFM compartmentalised functional fixed system can be used for motor control centres in industrial environments.

It has been tested taking into account device characteristics.

This ensures a high degree of reliability in system operation and optimum safety.

Devices can be mounted on universal mounting plates on a workcut-out to simplify installation in the switchboard.

Fixed functional system for Motor Control

The fixed functional system for Motor Control Centres is designed for installation of motor starters up to 250 kW.



PB502888-75

Compartmentalised enclosure for Motor Control Centres

Motor protection

In addition to the motor power and the starter type (direct, reversing, star-delta...), 4 main criteria have to be taken into account when choosing a motor starter:

- the operational voltage,
- the type of thermal protection, electro-mechanical or electronic,
- the type of magnetic protection, according to the switchboard's Isc,
- the type of installation, according to the required availability level.

Operational voltage

Network's operational voltage is a decisive parameter in the choice of motor protection. Indeed, the operational voltage will have an impact on the device's performances and the installation constraints.

For instance, the voltage will influence:

- the breaking performances,
- the safety areas.

Motor protection

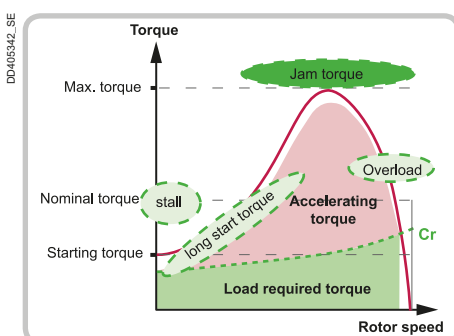
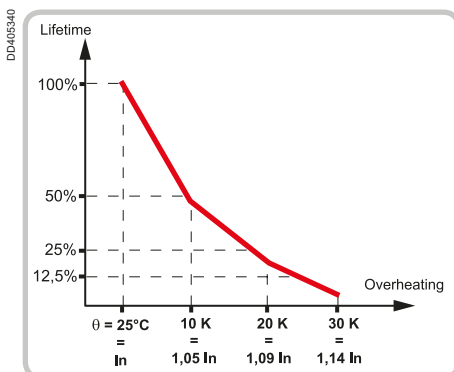
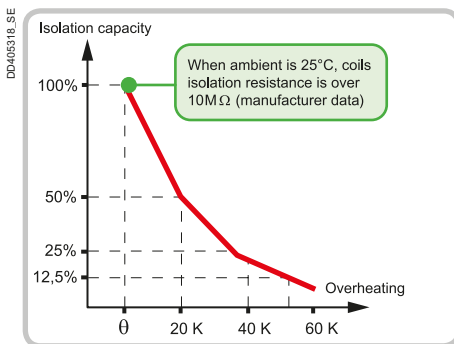
Protecting the motors to extend their lifetime

- Overheating in electrical motors is caused by copper and ferro-magnetic losses:
 - the current I is proportional to the motor's load. Copper losses are proportional to I^2 (stator and rotor),
 - hysteresis cycles in ferro-magnetic materials and the induced Foucault currents cause overheating, which is in particular proportional to frequency.
- The consequence of abnormal overheatings is a reduced isolation capacity of the materials, thus leading to a significant shortening of the motor lifetime, as shown in the opposite diagram.
- In continuous or semi-continuous processes, availability is a major issue. It is therefore decisive to observe accurately the operating conditions of the motors.
- Motor protection relays are the components dedicated to this task. They provide various levels of accuracy and functionalities, in order to meet the expectations of the process manager.

Supervising finely the motors to improve process availability

■ An electrical motor transforms electrical energy in mechanical energy. When the voltage, current and frequency change, the speed and torque of the motor change too. And conversely, any changes in charge have a direct impact on the electrical parameters.

- **Electromechanical thermal relays** protect the motor against overloads.
- **Electronical relays** protect the motor against overloads, on the basis of very sophisticated and highly accurate thermal patterns.
 - These relays are able to make out several cases of motor overload, and to transmit the information, thus allowing the operator to have a better understanding of the true nature of the problem,
 - These relays report for many complementary parameters, providing useful informations to the operator, therefore giving him the opportunity to avoid motor stops, or to re-start quickly if a stop has occurred.
 - Examples:
 - motor under-load can be the signal of a pump cavitation,
 - phase inversion can be the indication of a maintenance error, that should be hard to diagnose without that sign.
 - In addition to the observation of currents, the electronic relays can monitor the voltage, and consequently the power and the power factor. They can also watch the leakage currents and measure the actual coil temperature whenever it has a built-in sensor.
- All these informations give an additional level of anticipation and shrewdness to help coping with problems.
- Finally, electronic relays can take on information-processing functions, like state and faults statistics. They are also able to suggest logical solutions, and to react in a process-specific way.



Compartmentalised enclosure for Motor Control Centres

Motor protection

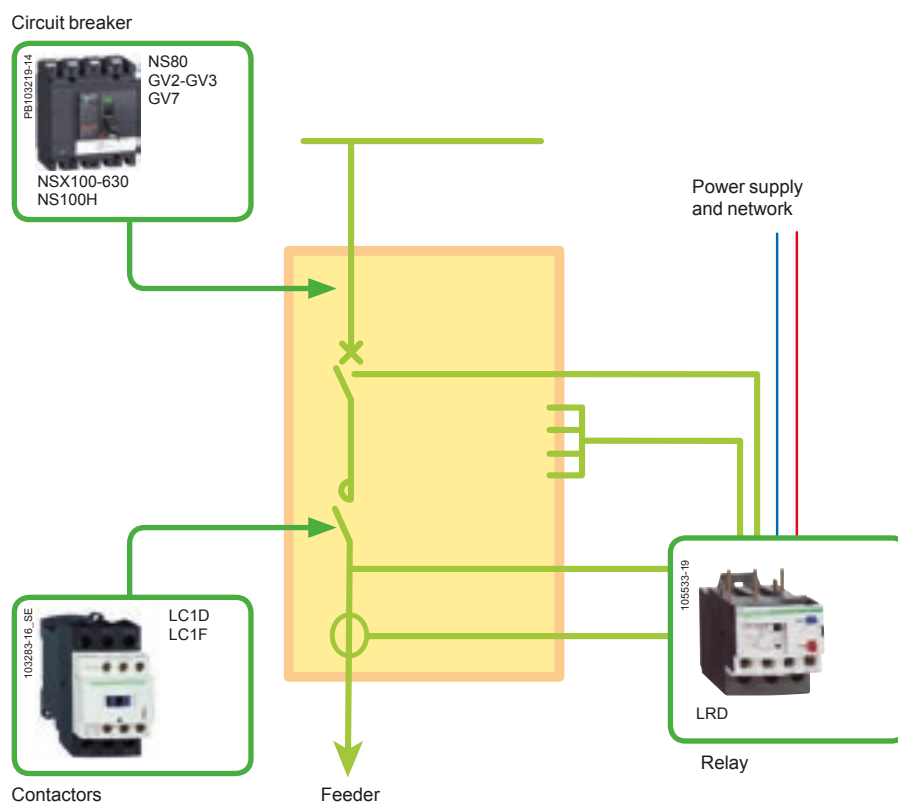
Magnetic protection: circuit-breakers and fuses

Schneider Electric have chosen to put forward circuit-breakers each time it is possible, as they have advantages in terms of maintenance and capacity of quick re-operating.

The advantages of magnetic circuit breakers over fuses are listed below:

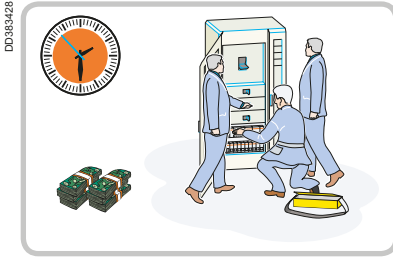
- universal solution that can be exported to all countries, unlike the fuses, which standards are not coordinated,
- reduced dimensions,
- limited temperature rise,
- faster maintenance,
- no risk of over-rating the fuse cartridge (causing the motor destruction) or underrating (untimely tripping).

Spacial SFM: a combination for control motor starter

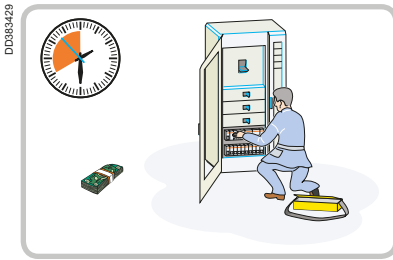


Compartmentalised enclosure for Motor Control Centres

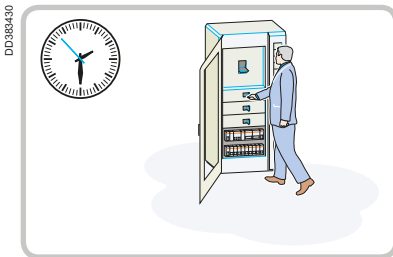
Coordination



Type 1 coordination



Type 2 coordination



Total coordination

Coordination, what is it about?

A "motor starter" can be made up of 1, 2, or 3 different devices. They have to be coordinated in a way they ensure an optimal operation of the installation.

Aims of coordination

In case of a fault, the coordination's purposes are:

- to protect of the people and the equipment,
- to permit continuity of service,
- to reduce maintenance costs (manpower and replacement equipment).

Types of coordination as per IEC 60947-4-1

- Type 1 coordination: basic solution
 - no continuity of service,
 - important maintenance costs in case of a fault (manpower and equipment).
- Type 2 coordination: solution ensuring continuity of service
 - reduced machine shutdown time,
 - reduced cost of replacement equipment.
- Total coordination: withdrawable solutions as per IEC 60947-6-2:
 - no damage nor resetting of devices following a fault,
 - installation immediate return to operation.

Schneider Electric's choice as regards coordination

For applications in Spacial SFM high availability switchboard, Schneider Electric has **accepted**:

> **type 2 coordination** on grounds of:

- a low cost for repairing the equipment,
- a reduced machine shutdown time,

and **dismissed**:

> **type 1 coordination and non-coordinated feeders** because of:

- an expensive return to operation,
- a long machine shutdown time.

Compartmentalised enclosure for Motor Control Centres

Motor starter solutions



2-component motor starter

Thermomagnetic circuit-breaker + contactor

■ Advantages

- Very economic solutions.
- Suitable for all types of diagrams.
- Manual reset following a thermal fault.
- Type 2 coordination.

■ Applications

- Manufacturing and continuous and semi-continuous processes.



3-component motor starter

■ Advantages

- Wide choice of solutions.
- Suitable for all types of diagrams.
- Manual or automatic reset following a thermal fault.
- 2 starting classes (10 and 20).
- Type 2 coordination.
- Segregation of thermal and magnetic faults.

■ Magnetic circuit-breaker + contactor + thermal protection

- For manufacturing and continuous and semi-continuous processes.

■ Switch-disconnector fuse + contactor + thermal protection

- For all types of machines.
- For manufacturing and continuous and semi-continuous processes.

Compartmentalised enclosure for Motor Control Centres Enclosures

PB502887-70



Presentation

The Spacial SFM compartmentalised enclosures system used for MCC are based on the Spacial SF range.

They offer the same functions:

- Different possible configurations, combined side-by-side or back-to-back.
- The built-in partial doors and panels design allow to meet the required degree of protection.

And the same advantages:

- Save time through all assembly phases.
- Enclosure robustness.

Modularity and Versatility

They offer 36 vertical modules, each 50 mm high, of useful space.

They have 4 different enclosure dimensions and 2 additional chambers for distribution busbars or cabling management.

They can also be coupled with Spacial SFP for power distribution switchboards.

PB502885-32



The functional system

A metal structure

The switchboard is made up of one or more frameworks combined side-by-side or back-to-back, on which a complete selection of cover panels and partial doors can be mounted.

They are used to build IP54 according to IEC 60529 configurations and see ClimaSys offer options for ventilation.

Electrical continuity is achieved using earthing braids.

Plain partial doors are reversible for quick left or right-hand mounting by a single person, 120° opening.

The robustness of the locking system allows naturally the good alignment of the assembly. From 1 to 4 locking points system with 5 mm double-bar insert as standard supply with possibility to replace it by other shape insert.

A distribution system

Vertical busbars positioned in a lateral compartment and horizontal busbars are used to distribute electricity throughout the switchboard.

Complete functional units

The functional unit need to be composed by:

- motor control and protection devices,
- a dedicated plain mounting plate for device installation,
- up to form 4b thanks to the gland boxes for the terminal isolation on the back of the switchboard or on the side of the cabling chamber,
- devices for on-site connections.

The functional units are modular and designed for installation one on top of another. The system includes everything required for functional unit mounting, supply and onsite connection.

The components of the Spacial SFM compartmentalised system and those of the functional units in particular have been designed and tested taking into account device characteristics. This design approach ensures a high degree of reliability in system operation and optimum safety for personnel.

Electrical switchboards built using Schneider Electric recommendations fully comply with international standard IEC 61439-2 and IEC 62208.

Compartmentalised enclosure for Motor Control Centres Enclosures

Withstand to the most demanding environments

- IP54 degree of protection for the dusty and/or damp industrial environments.
- Seismic withstand.
- Optional forced ventilation for environments with ambient temperatures hotter than 45°C or for devices with considerable heat loss (see ClimaSys offer options).

✓ Type tested

Spacial SFM compartmentalised is totally type-tested in accordance with IEC 61439-2.

- Certified by independent lab.
- As well as by a permanent control in Schneider Electric test laboratories.
- Type-tests are carried out:
 - temperature-rise limit,
 - dielectric properties,
 - short-circuit withstand,
 - effectiveness of the protective circuit,
 - conformity of the clearance and creepage distances,
 - mechanical operation,
 - degree of protection.

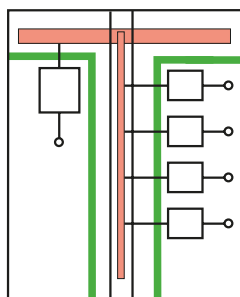
Partitioning

Partitioning is essential to ensure the utmost protection of the installation and personnel carrying out work in the switchboard. Used in conjunction with the standard protection (terminal shields, factory-built connections), partitioning prevents any direct contact with live parts.

PB50298842

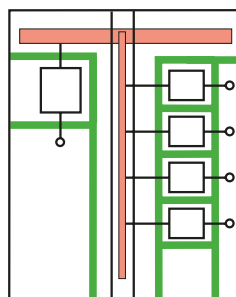


Form 2b



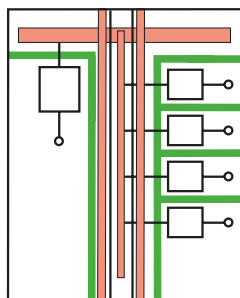
- Terminals for external conductors separated from busbars.
- The functional units and the terminals are separated from the busbars.

Form 3b



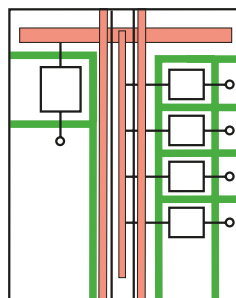
- Terminals for external conductors separated from busbars.
- The functional units are separated from each other and from the busbars.
- The terminals are separated from the busbars, but not from each other.

Form 4a



Terminals for external conductors in the same compartment as the associated functional unit.

Form 4b



Terminals for external conductors not in the same compartment as the associated functional unit, but in individual, separate, enclosed protected spaces or compartments.

Compartmentalised enclosure for Motor Control Centres

Fix enclosures

PB602998-71



General data

Applications	MCC
Standards	IEC 61439-2
Internal arc	No
Seismic	3G
Installation	Indoor

Mechanical data

Cable inlet	Top / Bottom
Access	Front / Rear Side
IP	54
IK	10
Form	4b type 7
Withdrability	FFF
Dimensions	H 2000 / W 600 & 800 / D 600 & 800
Color	RAL 7035

Electrical data

Insulation voltage (Ui)	1000 V
Voltage rating (Ue)	415 V
Coordination	Type 2
Frequency	50/60 Hz
Degree of pollution	3
Rated current (IP>31)	2500 A (with Copper & Linergy)
Short circuit (Icw - 1s)	85 kA

Compartmentalised enclosure for Motor Control Centres

Mounting plates for fixed MCC switchboards

PB502985-60



PB502980-58



PB502981-46



Motor control functional units

The plain mounting plates can be used to install all the devices making up an MCC motor starter on a single support.

Easy installation

Motor feeders can be prepared on a bench making the cut-outs needed. The quick-fixing system allows to hold the mounting plate during device installation and wiring. The mounting plate can be fixed on the side partitions in adjustable depth with a pitch of 50 mm.

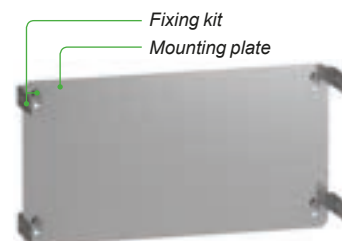
Switchboard upgradeability

- Functional units with form partitioning 3b and 4b.
- Sides and Rear accessibility.
- Separation panels with pre-cuts for cable-glands ref. 01215.

Functional unit reliability

- The unit of height for the mounting plates is the 50 mm module.
- 3 to 24 module (150 to 1200 mm) mounting plates are installed in 600 and 800 mm wide cubicles.
- Capacity of Spacial SFM cubicles: 36 modules (50 mm each).
- Cables are run in dedicated 300 or 400 mm wide lateral compartments.

Plain mounting plates



Dimension of the compartment			References	
Number of modules	Rate (mm)	Width (mm)	Mounting plate	Fixing kit
3M	150	600	NSYMP3M6	NSYMPFIX
		800	NSYMP3M8	
4M	200	600	NSYMP4M6	
		800	NSYMP4M8	
5M	250	600	NSYMP5M6	
		800	NSYMP5M8	
6M	300	600	NSYMP6M6	
		800	NSYMP6M8	
8M	400	600	NSYMP8M6	
		800	NSYMP8M8	
9M	450	600	NSYMP9M6	
		800	NSYMP9M8	
12M	600	600	NSYMP12M6	
		800	NSYMP12M8	
16M	800	600	NSYMP16M6	
		800	NSYMP16M8	
18M	900	600	NSYMP18M6	
		800	NSYMP18M8	
20M	1000	600	NSYMP20M6	
		800	NSYMP20M8	
24M	1200	600	NSYMP24M6	
		800	NSYMP24M8	

Compartmentalised enclosure for Motor Control Centres

2-component motor starter

Direct on line and reversing GV2, GV3 and GV7

Selection of recommended combinations

Iq (kA)		Motor characteristics		Motor starter solution		Mounting plate Number of modules (1M = 50 mm)	
Without limiter	With GV1L3	P max (kW)	I max (A)	Circuit breaker	Contactor (1)	DOL	Reversing
GV2							
85	-	0.18	0.6	GV2-P04	LC1D09	3M	3M
85	-	0.25	0.9	GV2-P05	LC1D09	3M	3M
85	-	0.37	1.1	GV2-P06	LC1D09	3M	3M
85	-	0.55	1.5	GV2-P06	LC1D09	3M	3M
85	-	0.75	1.8	GV2-P07	LC1D09	3M	3M
85	-	1.1	2.6	GV2-P08	LC1D09	3M	3M
85	-	1.5	3.4	GV2-P08	LC1D09	3M	3M
85	-	2.2	4.8	GV2-P10	LC1D09	3M	3M
85	-	3	6.5	GV2-P14	LC1D09	3M	3M
85	-	4	8.2	GV2-P14	LC1D18	3M	3M
50	85	5.5	11	GV2-P16	LC1D25	3M	3M
50	85	7.5	14	GV2-P20	LC1D25	3M	3M
50	85	10	19	GV2-P21	LC1D32	3M	3M
50	85	11	21	GV2-P22	LC1D32	3M	3M
50	85	15	28	GV2-P32	LC1D32	3M	3M
50	-	18.5	34	GV3-P40	LC1D50A	3M	4M
50	-	22	40	GV3-P50	LC1D50A	3M	4M
50	-	30	55	GV3-P65	LC1D65	3M	4M
70	-	15	28	GV7-RS40	LC1D40	3M	6M
70	-	18.5	34	GV7-RS40	LC1D50	3M	6M
70	-	22	40	GV7-RS50	LC1D80	3M	6M
70	-	30	55	GV7-RS80	LC1D80	3M	6M
70	-	37	66	GV7-RS80	LC1D80	3M	6M
70	-	45	80	GV7-RS100	LC1D115	4M	9M
70	-	55	100	GV7-RS150	LC1D150	6M	9M
70	-	75	135	GV7-RS150	LC1F185	9M	12M
70	-	90	160	GV7-RS220	LC1F225	9M	12M
70	-	110	200	GV7-RS220	LC1F265	9M	12M

(1) 2xLC1-D for reversing

Selection of the mounting plate

Dimension of the compartment			References	
Number of modules	Rate (mm)	Width (mm)	Mounting plate	Fixing kit
3M	150	600	NSYMP3M6	NSYMPFIX
		800	NSYMP3M8	
4M	200	600	NSYMP4M6	
		800	NSYMP4M8	
6M	300	600	NSYMP6M6	
		800	NSYMP6M8	
9M	450	600	NSYMP9M6	
		800	NSYMP9M8	
12M	600	600	NSYMP12M6	
		800	NSYMP12M8	

Compartmentalised enclosure for Motor Control Centres

3-component motor starter

Direct on line and reversing GV2 and GV3

Ue	IP	Ambiant temperature
415 V	≤ IP54	35°C

Selection of recommended combinations

Iq (kA)		Motor characteristics		Motor starter solution			Mounting plate Number of modules (1M = 50 mm)	
Without limiter	With LA9LB920	P max (kW)	I max (A)	Circuit breaker	Contactora (1)	Thermal relay	DOL	Reversing
85	-	0.18	0.6	GV2-L04	LC1D09	LRD04	3M	3M
85	-	0.25	0.9	GV2-L05	LC1D09	LRD05	3M	3M
85	-	0.37	1.1	GV2-L06	LC1D09	LRD06	3M	3M
85	-	0.55	1.5	GV2-L06	LC1D09	LRD06	3M	3M
85	-	0.75	1.8	GV2-L07	LC1D09	LRD07	3M	3M
85	-	1.1	2.6	GV2-L08	LC1D09	LRD08	3M	3M
85	-	1.5	3.4	GV2-L08	LC1D09	LRD08	3M	3M
85	-	2.2	4.8	GV2-L10	LC1D09	LRD10	3M	3M
85	-	3	6.5	GV2-L14	LC1D09	LRD12	3M	3M
85	-	4	8.2	GV2-L14	LC1D18	LRD14	3M	3M
50	85	5.5	11	GV2-L16	LC1D25	LRD16	3M	3M
50	85	7.5	14	GV2-L20	LC1D25	LRD21	3M	3M
50	85	10	19	GV2-L21	LC1D32	LRD22	3M	3M
50	85	11	21	GV2-L22	LC1D32	LRD22	3M	3M
50	85	13	24	GV2-L32	LC1D32	LRD32	3M	3M
50	-	18.5	34	GV3-L40	LC1D50A	LRD340	3M	4M
50	-	22	40	GV3-L50	LC1D50A	LRD350	3M	4M
50	-	26	49	GV3-L65	LC1D65A	LRD365	3M	4M

(1) 2xLC1-D for reversing.

Selection of the mounting plate

Dimension of the compartment			References	
Number of modules	Rate (mm)	Width (mm)	Mounting plate	Fixing kit
3M	150	600	NSYMP3M6	NSYMPFIX
		800	NSYMP3M8	
4M	200	600	NSYMP4M6	
		800	NSYMP4M8	

Compartmentalised enclosure for Motor Control Centres

3-component motor starter

Direct on line and reversing NS80H and NSX

Ue	IP	Ambiant temperature
415 V	≤ IP54	35°C

Selection of recommended combinations

Iq (kA)	Motor characteristics		Motor starter solution			Mounting plate Number of modules (1M = 50 mm)	
	P max (kW)	I max (A)	Circuit breaker	Contactor (1)	Thermal relay	DOL	Reversing
70	18.5	34	NS80H-MA	LC1D50	LRD3355	3M	6M
70	22	40	NS80H-MA	LC1D50	LRD3357	3M	6M
70	30	55	NS80H-MA	LC1D65	LRD3359	3M	6M
70	37	66	NS80H-MA	LC1D80	LRD3363	3M	6M
(2)	18.5	34	NSX100• MA	LC1D80	LRD3355	3M	6M
(2)	22	40	NSX100• MA	LC1D80	LRD3357	3M	6M
(2)	30	55	NSX100• MA	LC1D80	LRD3359	3M	6M
(2)	37	64	NSX100• MA	LC1D80	LRD3363	3M	6M
(2)	45	80	NSX100• MA	LC1D115	LR9D5367	6M	9M
(2)	55	100	NSX160• MA	LC1D150	LR9D5369	6M	9M
(2)	75	135	NSX160• MA	LC1F185	LR9F5369	9M	12M
(2)	90	160	NSX250• MA	LC1F225	LR9F5371	9M	12M
(2)	100	187	NSX250• MA	LC1F265	LR9F5371	9M	12M
(2)	132	230	NSX400• 1.3-M	LC1F330	LR9F7375	12M	16M
(2)	160	270	NSX400• 1.3-M	LC1F330	LR9F7375	12M	16M
(2)	200	361	NSX630• 1.3-M	LC1F500	LR9F7379	16M	16M
(2)	220	380	NSX630• 1.3-M	LC1F500	LR9F7379	16M	16M
(2)	250	430	NSX630• 1.3-M	LC1F500	LR9F7379	16M	16M

(1) 2xLC1-D for reversing

(2) NSX...F = 36 kA

NSX...N = 50 kA

NSX...H = 70 kA

NSX...S = 85 kA

NSX400L = 150 kA

NSX630L = 150 kA

Selection of the mounting plate

Dimension of the compartment			References	
Number of modules	Rate (mm)	Width (mm)	Mounting plate	Fixing kit
3M	150	600	NSYMP3M6	NSYMPFIX
		800	NSYMP3M8	
6M	300	600	NSYMP6M6	
		800	NSYMP6M8	
9M	450	600	NSYMP9M6	
		800	NSYMP9M8	
12M	600	600	NSYMP12M6	
		800	NSYMP12M8	
16M	800	600	NSYMP16M6	
		800	NSYMP16M8	

Compartmentalised enclosure for Motor Control Centres

2-component motor starter
Star-delta GV2, GV3 and GV7

Ue	IP	Ambiant temperature
415 V	≤ IP54	35°C

Selection of recommended combinations

Iq (kA)		Motor characteristics		Motor starter solution		Mounting plate Number of modules (1M = 50 mm)
Without limiter	With GV1L3	P max (kW)	I max (A)	Circuit breaker	Contactors	Star-delta
85	-	0.37	1.1	GV2-P06	3xLC1D09	4M
85	-	0.55	1.5	GV2-P06	3xLC1D09	4M
85	-	0.75	1.8	GV2-P07	3xLC1D09	4M
85	-	1.1	2.6	GV2-P08	3xLC1D09	4M
85	-	1.5	3.4	GV2-P08	3xLC1D09	3M
85	-	2.2	4.8	GV2-P10	3xLC1D18	4M
85	-	3	6.5	GV2-P14	3xLC1D18	3M
85	-	4	8.2	GV2-P14	3xLC1D18	4M
50	85	5.5	11	GV2-P16	3xLC1D25	4M
50	85	7.5	14	GV2-P20	3xLC1D25	4M
50	85	10	19	GV2-P21	3xLC1D32	5M
50	85	11	21	GV2-P22	3xLC1D32	4M
35	85	15	28	GV2-P32	3xLC1D32	4M
50	-	18.5	34	GV3-P40	3xLC1D50A	5M
50	-	22	40	GV3-P50	3xLC1D50A	5M
50	-	30	55	GV3-P65	3xLC1D65A	5M
70	-	15	28	GV7-RS40	3xLC1D80	9M
70	-	18.5	34	GV7-RS40	3xLC1D50	9M
70	-	22	40	GV7-RS50	3xLC1D80	9M
70	-	30	55	GV7-RS80	3xLC1D80	9M
70	-	45	80	GV7-RS100	3xLC1D115	12M
70	-	55	100	GV7-RS150	3xLC1D150	12M
70	-	75	135	GV7-RS150	3xLC1F185	16M
70	-	90	160	GV7-RS220	3xLC1F225	16M
70	-	110	200	GV7-RS220	3xLC1F265	16M

Selection of the mounting plate

Dimension of the compartment			References	
Number of modules	Rate (mm)	Width (mm)	Mounting plate	Fixing kit
3M	150	600	NSYMP3M6	NSYMPFIX
		800	NSYMP3M8	
4M	200	600	NSYMP4M6	
		800	NSYMP4M8	
5M	250	600	NSYMP5M6	
		800	NSYMP5M8	
9M	450	600	NSYMP9M6	
		800	NSYMP9M8	
12M	600	600	NSYMP12M6	
		800	NSYMP12M8	
16M	800	600	NSYMP16M6	
		800	NSYMP16M8	

Compartmentalised enclosure for Motor Control Centres

3-component motor starter
Star-delta GV2 and GV3

Ue	IP	Ambiant temperature
415 V	≤ IP54	35°C

Selection of recommended combinations

Iq (kA)		Motor characteristics		Motor starter solution			Mounting plate Number of modules (1M = 50 mm)
Without limiter	With LA9LB920	P max (kW)	I max (A)	Circuit breaker	Contactora	Thermal relay	Star-delta
85	-	0.37	1.1	GV2-L06	3xLC1D09	LRD06	4M
85	-	0.55	1.5	GV2-L06	3xLC1D09	LRD06	4M
85	-	0.75	1.8	GV2-L07	3xLC1D09	LRD07	4M
85	-	1.1	2.6	GV2-L08	3xLC1D09	LRD08	4M
85	-	1.5	3.4	GV2-L08	3xLC1D09	LRD08	4M
85	-	2.2	4.8	GV2-L10	3xLC1D18	LRD10	4M
85	-	3	6.5	GV2-L14	3xLC1D18	LRD12	4M
85	-	4	8.2	GV2-L14	3xLC1D18	LRD14	4M
50	85	5.5	11	GV2-L16	3xLC1D25	LRD16	4M
50	85	7.5	14	GV2-L20	3xLC1D25	LRD21	4M
50	85	10	19	GV2-L21	3xLC1D32	LRD22	4M
50	85	11	21	GV2-L22	3xLC1D32	LRD22	4M
35	85	15	24	GV2-L32	3xLC1D32	LRD32	4M
50	-	18.5	34	GV3-L40	3xLC1D50A	LRD340	5M
50	-	22	40	GV3-L50	3xLC1D50A	LRD350	5M
50	-	30	49	GV3-L65	3xLC1D65A	LRD365	5M

Selection of the mounting plate

Dimension of the compartment			References	
Number of modules	Rate (mm)	Width (mm)	Mounting plate	Fixing kit
4M	200	600	NSYMP4M6	NSYMPFIX
		800	NSYMP4M8	
5M	250	600	NSYMP5M6	
		800	NSYMP5M8	

Compartmentalised enclosure for Motor Control Centres

3-component motor starter Star-delta NS80H and NSX

Ue	IP	Ambiant temperature
415 V	≤ IP54	35°C

Selection of recommended combinations

I _q (kA)	Motor characteristics		Motor starter solution			Mounting plate Number of modules (1M = 50 mm)
	P max (kW)	I max (A)	Circuit breaker	Contactors	Thermal relay	Star-delta
70	18.5	34	NS80H-MA	3xLC1D50	LRD3355	9M
70	22	40	NS80H-MA	3xLC1D50	LRD3357	9M
70	30	55	NS80H-MA	3xLC1D65	LRD3359	9M
70	37	66	NS80H-MA	3xLC1D80	LRD3363	9M
(1)	18.5	34	NSX100• MA	3xLC1D80	LRD3355	9M
(1)	22	40	NSX100• MA	3xLC1D80	LRD3357	9M
(1)	30	55	NSX100• MA	3xLC1D80	LRD3359	9M
(1)	37	64	NSX100• MA	3xLC1D80	LRD3363	9M
(1)	45	80	NSX100• MA	3xLC1D115	LR9D5367	12M
(1)	55	100	NSX160• MA	3xLC1D150	LR9D5369	12M
(1)	75	135	NSX160• MA	3xLC1F185	LR9F5369	16M
(1)	90	160	NSX250• MA	3xLC1F225	LR9F5371	16M
(1)	110	187	NSX250• MA	3xLC1F265	LR9F5371	16M
(1)	132	230	NSX400• 1.3-M	3xLC1F330	LR9F7375	20M
(1)	160	270	NSX400• 1.3-M	3xLC1F330	LR9F7375	20M
(1)	200	361	NSX630• 1.3-M	3xLC1F500	LR9F7379	24M
(1)	220	380	NSX630• 1.3-M	3xLC1F500	LR9F7379	24M
(1)	250	430	NSX630• 1.3-M	3xLC1F500	LR9F7379	24M

(1) NSX...F = 36 kA
 NSX...N = 50 kA
 NSX...H = 70 kA
 NSX...S = 85 kA
 NSX400L = 150 kA
 NSX630L = 150 kA

Selection of the mounting plate

Dimension of the compartment			References	
Number of modules	Rate (mm)	Width (mm)	Mounting plate	Fixing kit
9M	450	600	NSYMP9M6	NSYMPFIX
		800	NSYMP9M8	
12M	600	600	NSYMP12M6	
		800	NSYMP12M8	
16M	800	600	NSYMP16M6	
		800	NSYMP16M8	
20M	1000	600	NSYMP20M6	
		800	NSYMP20M8	
24M	1200	600	NSYMP24M6	
		800	NSYMP24M8	

Compartmentalised enclosure for Motor Control Centres

Linery distribution systems

Linery LGYE-LGY

a breakthrough in busbar systems

**Safe, reliable,
flexible, and
flexible with
the highest
level of
performance**

The Linery LGYE-LGY busbar system now includes horizontal busbars, for greater electrical switchboard enclosure performance, reliability, and costeffectiveness.

Manufactured using a revolutionary process, patented Linery busbars are unique on the market, taking your electrical switchboard installations a giant leap into the future.



Discover how Linery LGYE-LGY can place the next generation of low-voltage switchboards in your hands.



Compartmentalised enclosure for Motor Control Centres

Lineryy distribution systems

Innovative technology from an energy expert you can trust

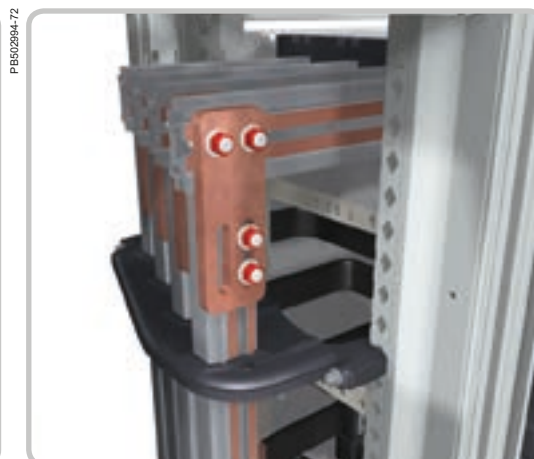
Patented Lineryy LGYE-LGY is backed by Schneider Electric's decades of expertise in electrical distribution systems and is certified IEC 61439-2 compliant by ASEFA.

Lineryy unique profile was designed with the ratings you need, a commitment to performance backed by regular testing up to 4000 A.

Heat is dissipated by conduction and radiation for performance only a market leader can bring you.

Lineryy LGYE-LGY busbars performances are identical or better than traditional all Lineryy BS busbars.

Unlike tin-plated aluminum busbars, rugged Lineryy LGYE-LGY busbars are resistant to scratching during assembly to ensure optimal connection quality and reliability.



High Velocity Oxy-Fuel, unique on the busbar market

Patented Lineryy LGYE-LGY uses a supersonic high-temperature coating process for a robust copper contact surface.

Compartmentalised enclosure for Motor Control Centres

Linery distribution systems

A revolutionary design for greater efficiency

The Linery line now includes horizontal busbars, helping you achieve better electrical switchboard performance while optimizing busbar layout and facilitating assembly.

Schneider Electric™ has drawn upon 30 years of expertise in electrical distribution systems and a decade of hands-on experience with the proven and reliable Linery line of products. It brings you a revolutionary design featuring a high-quality copper contact surface that delivers even better results than traditional Linery BS-to-Linery BS connections.

Linery LGYE-LGY busbars offer a number of benefits to help you enhance performance and boost your competitiveness.

Lightweight

Linery is half the weight of equivalent-rated Linery BS bars for more fuel-efficient transport, easier handling, and smoother installation.

Higher-capacity

A single Linery LGYE bar can withstand ratings up to 2500 A. It would take two or three Linery BS bars per pole to achieve similar ratings.

Robust and flexible

Linery LGYE bars are extruded for a unique profile that includes both closed and ribbed sections, improving rigidity, thermal dissipation, and resistance to short circuits, with a shortcircuit withstand capacity (Icw) of 85 kA/1s for SFM and 100 kA / 1s for Spacial SFP.

Attractive

The revolutionary copper contact strips, anodized aluminum surface, and unique shapes give a modern appearance and a soft touch.

IEC standards-compliant

The latest standards were factored in from the early design stages to ensure that temperatures are kept below the IEC61439-2 standard requirements, for optimal performance regardless of the switchboard configuration.

Environmentally-friendly

Instead of increasingly-scarce copper, Linery LGYE is made from 70% recycled raw materials offering the same performance as primary raw materials.

Cost-effective

Linery LGYE-LGY helps you achieve cost savings now and provides protection against fluctuating copper prices in the future, plus all the advantages of a raw material that is easy to purchase and store.



Linery LGYE
is **50%**
lighter than
Linery BS

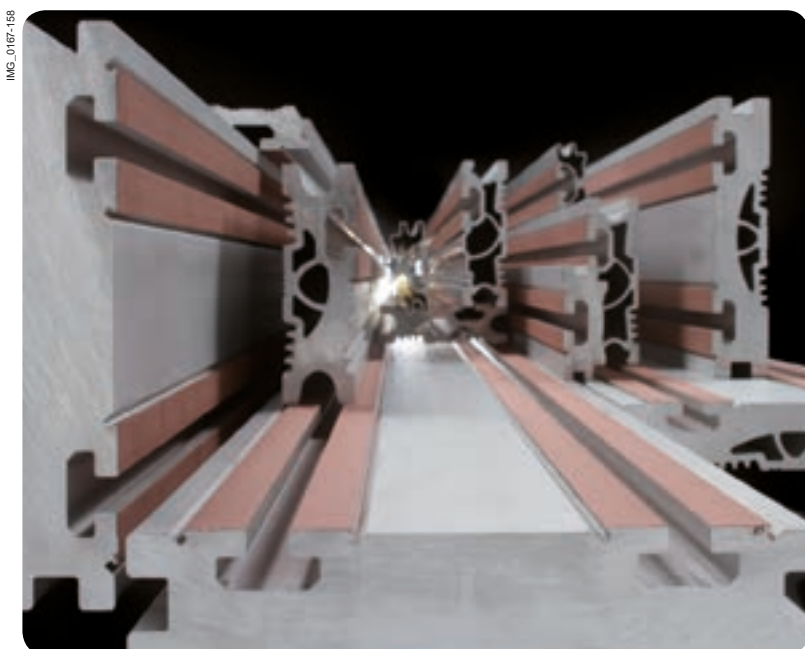
Reduce **Costs**
and assembly
times over
Linery BS busbars

Compartmentalised enclosure for Motor Control Centres

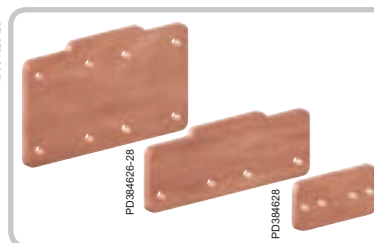
Linery distribution systems

Linery accessories are also evolving!

Linery LGYE is a full-featured busbar system that includes all the connections, screws, bolts, isolating supports, and other accessories you need for drill-free assembly.



IMG_01167-158



Panel builders, we've thought of everything to make your life easier!



IMG_9957-48

- Linery LGYE-LGY busbars are lightweight, making them easy to transport and handle in the workshop.
- With Linery LGYE-LGY, you can continue to use the familiar Spacial SFP busbar supports you already know for Linery BS bars. There's no new system to learn.
- Linery LGYE-LGY offers single bars for each rating, making handling during installation faster and more convenient.
- Linery LGYE-LGY bars are fast and easy to position without drilling, thanks to a sliding bolt and track system.
- Linery screws let you add extra outgoing connections without drilling new holes or dismantling previous connections or busbar supports, saving you time and giving you greater flexibility in the event of last-minute changes.
- Linery LGYE-LGY busbars offer a unique shape with no sharp edges for safer, smoother handling and installation the bars simply slide right in to the busbar supports.
- Existing Linery LGY vertical busbars are easy to connect to Linery LGYE with ready-to-install accessories like vertical connectors.
- Linery materials are easy to recycle via well-established aluminum recycling services already in use for materials like aluminum cans, coffee capsules, door and window frames, and engine blocks.

Compartmentalised enclosure for Motor Control Centres

Lineryy distribution systems

Lineryy also offers the most **advanced busbar solutions** while remaining **simple**.

PBS02895-140



Lineryy LGYE / LGY / BS

Power busbars

- > Solutions available up to 2500 A for Spacial SFM up to 4 000 A for Spacial SFP.
- > Connection everywhere without drilling (with LGY and LGYE profile).

Compartmentalised enclosure for Motor Control Centres

Linery distribution systems

Lateral Linery busbars up to 1600 A

Busbar calculation

The following table indicates:

- the catalogue numbers of the bars to be used, depending on the permissible current level in the busbars,
- the number of supports required, depending on the rated short-time withstand current (I_{cw} in kA rms / 1 second).

Linery busbars	Cat. no.	Permissible current at 35 °C for switchboard		No. of supports I_{cw} (kA effrms / 1 s)								
		IP ≤ 31	IP > 31	≤ 25	≤ 30	≤ 40	≤ 50	≤ 60	≤ 65	≤ 75	≤ 85	
Linery 630	04502	680	590									
Linery 800	04503	840	760									
Linery 1000	04504	1040	950		3							
Linery 1250	04505	1290	1170				4	5				
Linery 1600	04506	1650	1480							7	8	

Note: the permissible current values for the busbars are given for an ambient temperature of 35°C around the switchboard.

The bottom support also maintains the bars in position.

Each catalogue number represents one bar.

Busbar selection

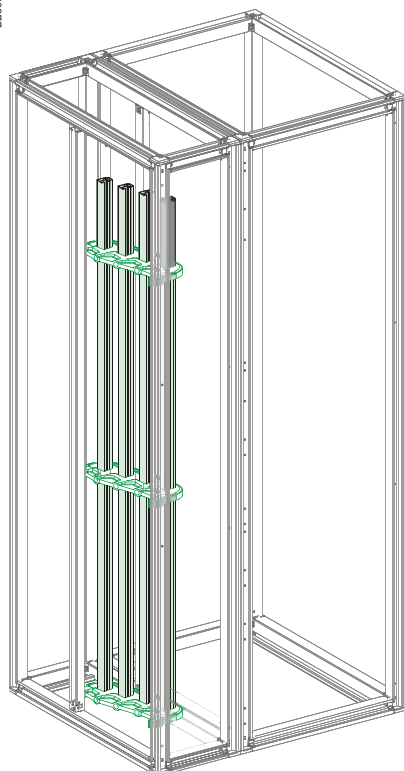
Linery busbars, L = 1670 mm

Cat. no. selection

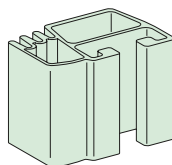
See the table below.

Each bar is supplied with a stop for the bottom support.

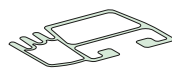
DE300922



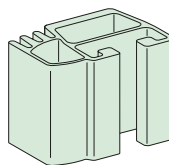
DD384147b



Bar 630 A.
Cat. no. 04502



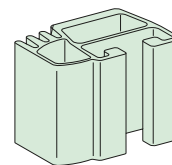
DD384148b



Bar 800 A.
Cat. no. 04503



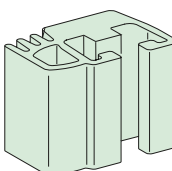
DD384149b



Bar 1000 A.
Cat. no. 04504



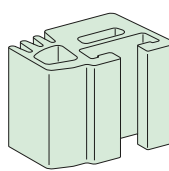
DD384150b



Bar 1250 A.
Cat. no. 04505



DD384151b



Bar 1600 A.
Cat. no. 04506








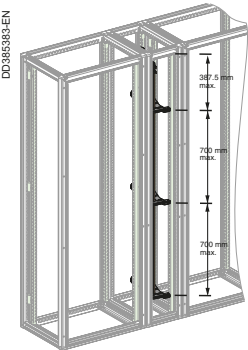
Busbars up to 1600 A.
The bottom support is used in wedging busbars in position.

Compartmentalised enclosure for Motor Control Centres

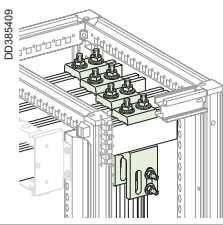
Linery distribution systems

Linery LGY - Lateral profiles up to 1600 A

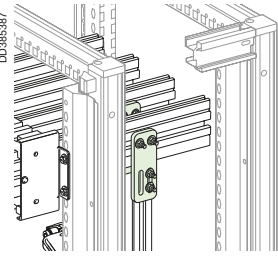
Linery LGY profiles		Up to 1600 A (single busbar)				
In Spacial SF busbar chamber		W300				
Linery profile, 1670 mm length						
		DD381233-LIN-7	DD381234-LIN-7	DD381235-LIN-7	DD381236-LIN-7	DD381237-LIN-7
Permissible current for an ambient temp. of 35°C around the switchboard		630 A	800 A	1000 A	1250 A	1600 A
IP y 31		680 A	840 A	1040 A	1290 A	1650 A
IP > 31		590 A	760 A	950 A	1170 A	1480 A
Number of profiles per phase		1				
Cat. no.		04502	04503	04504	04505	04506

Busbar supports		Busbar supports				
	Description	The bottom wedge support is used to place the busbar and ensure it is in the correct position. It is count as a busbar support (included in the number of supports).				
	Characteristics	Fixed support 04651 An end stop must be fitted on the bottom support: 01109 (sold in lots of 12)				
Number of supports depending on lcw (kA rms/1 s)	y 25	3				
	y 30	3				
	y 40	3				
	y 50	4				
	y 60	5				
	y 65	5				
	y 75	7				
	y 85	8				
Cat. no.		04651 (set of 2 upright adapters NSYSFPA and set of 2 40 mm universal cross-rail NSYSUCR40200 for installation in Spacial SF busbar chamber)				

Connections to the Linery BS horizontal busbar

			
Characteristics		Supplied with mounting hardware. Reference include 1 connection only. Order 1 connection per phase.	
Cat. no according to horizontal busbar size	5 mm thick	04634	04635
	10 mm thick Width y 80 mm	04636	

Connections to the Linery LGYE horizontal busbar

			
		y 1600 A	
Characteristics		Supplied with mounting hardware. Reference include 1 connection only. Order 1 connection per phase.	
Cat. no.		04602 (vertical connection) 04603 (vertical shifted connection)	

Compartmentalised enclosure for Motor Control Centres

Linergy distribution systems

Linergy LGEY - Horizontal profiles up to 2500 A

Linergy LGEY profiles								
Installation in Spacial SFM compartmentalised		Up to 1600 A					Up to 2500 A	
Linergy profile, 2000 mm length								
		630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A
Permissible current for an ambient temp. of 35°C around the switchboard		530 A	680 A	850 A	1050 A	1480 A	1650 A	2100 A
Number of profiles per phase		1					3	
Total number of vertical modules (50 mm)		3					3	
Cat. no.		04560	04561	04562	04563	04564	04565	04566
Busbar supports								
Characteristics		2 fixed supports for Spacial SF wide cubicle are compulsory according compartment depth (400 or 500 mm). 1 fixed support for Spacial SF 300/400 wide chamber are compulsory. Fixed directly on framework. If more supports are needed, add free supports.						
In cubicle SFM: W600/800 Busbar supports 75 mm distance between bars	Number of supports	y 15	2					
	depending on l _{cw}	y 25	2					
	(kA rms/1 s)	y 30	2					
		y 40	-			2		
		y 50	-			2		
		y 60	-			2+1		2
		y 65	-			2+1		
		y 75	-			2+1		
	y 85	-			2+1			
Cat. no.	Fixed support	D400	NSYBHS4					
		D500	NSYBHS5					
	Free support	NSYBSA						
In busbar chamber SF: W300/400 Busbar supports 75 mm distance between bars	Number of supports	y 15	1					
	depending on l _{cw}	y 25	1					
	(kA rms/1 s)	y 30	1					
		y 40	-			1		
		y 50	-			1		
		y 60	-			1		
		y 65	-			1+1		
		y 75	-			1+1		
	y 85	-			1+1			
Cat. no.	Fixed support	D600	NSYBHS600				NSYBHS600	
		D800	NSYBHS800				NSYBHS800	
	Free support	NSYBSA						
Joints								
		Up to 1600 A					Up to 2500 A	
		630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A
		04620					04621	
Cat. no.		3 x 04620 (3P) 4 x 04620 (4P)					3 x 04621 (3P) 4 x 04621 (4P)	

Note: for accessories, see page 373.

Compartmentalised enclosure for Motor Control Centres

Linery distribution systems

Linery BS - Lateral flat busbars up to 2500 A

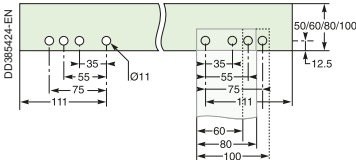
Flat busbars		Up to 1600 A				Up to 2500 A					
In Spacial SF busbar chamber		W300 D500/600/800				W300 D500/600/800					
Pre-slotted copper, 1675 mm length											
Permissible current for an ambient temp. of 35°C around the switchboard		750 A	900 A	1250 A	1600 A	1080 A	1250 A	1600 A	1850 A	2000 A	2500 A
Busbar cross-section (mm)		60 x 5	80 x 5	60 x 5	80 x 5	50 x 10	60 x 10	80 x 10	50 x 10	60 x 10	80 x 10
Number of busbars per phase		1		2		1		2			
Cat. no.		04516	04518	04516	04518	04525	04526	04528	04525	04526	04528

Busbar supports		Description	
		3 fixed supports are compulsory to hold the busbar in position. If more than 3 supports are needed, use free supports (in addition). The bottom wedge support is used to place the busbar and ensure it is in the correct position. It does not count as a busbar support.	
Number of supports depending on Icw (kA rms/1 s)	y 15	3	3
	y 25	3+2	3
	y 30	3+2	3
	y 40	3+4	3+2
	y 50	3+4	3+2
	y 60	3+4	3+2
	y 65	3+4	3+2
	y 75	3+6	3+4
y 85	3+4	3+4	
Cat. no. of supports depending on distance between bars and busbar chamber depth	Spacial SF busbar chamber	W300, D600	NSYBVS600 (fixed) + NSYBSA (free) + NSYAS600 (end stop support)
	75 mm distance between bars	W300, D800	NSYBVS800 (fixed) + NSYBSA (free) + NSYAS800 (end stop support)

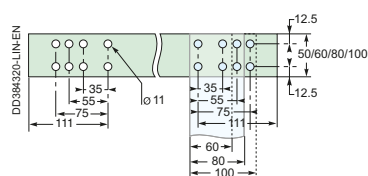
Connections to the Linery BS horizontal busbar

Characteristics		For a busbar with 75 mm distance between bars, the bars must be completely covered. Staggered assembly points between one bar and the next, to maintain the necessary clearance distances. ⁽¹⁾	
		References 04636 , 04637 are supplied individually: 1 connection per phase. Reference 04642 consists of 2 M8 x 140 screws which can replace the original M8 x 120 screws.	
		1 vertical bar per phase	2 vertical bars per phase
		60 x 5	80 x 5
		60 x 5	80 x 5
		50 x 10	60 x 10
		80 x 10	50 x 10
		60 x 10	80 x 10
Cat. no. of the connection piece depending on horizontal busbar size		≤ 80 mm	04645
		04636	04637
		04637	04637

(1) Drill hole dimensions for 5 mm thick horizontal busbars.



Drill hole dimensions for 10 mm thick horizontal busbars.



Compartmentalised enclosure for Motor Control Centres

Linergy distribution systems

Linergy BS - Horizontal flat busbars up to 2500 A

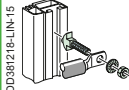
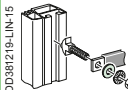
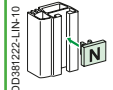
Flat busbars								
Installation in Spacial SFM compartmentalised	Hasta 1600 A				Hasta 2500 A			
Copper bar, 2000 mm length								
Permissible current for an ambient temp. of 35°C around the switchboard	750 A	900 A	1250 A	1600 A	1600 A	1850 A	2000 A	2500 A
Busbar cross-section (mm)	60 x 5	80 x 5	60 x 5	80 x 5	80 x 10	50 x 10	60 x 10	80 x 10
Number of busbars per phase	1	1	2	2	1	2	2	2
Total number of vertical modules (50 mm)	3							
N° cat.	04536	04538	04536	04538	04548	04545	04546	04548
Busbar supports								
 Fixed support	 Free support							
In cubicle SFM: W600/800 with 75 mm distance between bars	Characteristics	2 fixed supports for Spacial SF wide cubicle are compulsory according compartment depth (400 or 500 mm). 1 fixed support for Spacial SF 300/400 wide chamber are compulsory. Fixed directly on framework. If more supports are needed, add free supports.						
	Number of supports	y 15	2					
	depending on l _{cw} (kA rms/1 s)	y 25	2+1	2				
		y 30	2+1	2				
		y 40	2+1		2			
		y 50	-	2+1	2			
		y 60	-		2+1			
		y 65	-		2+1			
		y 75	-		2+2		2+1	
		y 85	-		-		2+1	2+1
	Cat. no.	Fixed support	NSYMBHS4 (D400) or NSYMBHS5 (D500)					
		Free support	NSYBSA					
In busbar chamber SF: W300/400 with 75 mm distance between bars	Number of supports	y 30	1					
	depending on l _{cw} (kA rms/1 s)	y 50	1+1		1			
		y 85	-		2			
	Cat. no.	Fixed support	NSYBHS600 (D600) or NSYBHS800 (D800)		NSYBHS600 (D600) or NSYBHS800 (D800)			
		Free support	NSYBSA		NSYBSA			
Joints								
Installation in Spacial SFP	Up to 1600 A				Up to 2500 A			
	1 vertical bar per phase		2 vertical bars per phase		1 vert. bar per phase		2 vertical bars per phase	
Busbar cross-section (mm)	60 x 5	80 x 5	60 x 5	80 x 5	80 x 10	50 x 10	60 x 10	80 x 10
Sliding joints with self-breaking lock nut	04640				04641			
Cat. no.	04640	04641	04640	04641	04641	04640	04640	04641

Note: When installed at the bottom of a cubicle, the busbar must be partitioned.

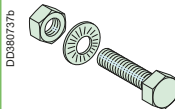
Compartmentalised enclosure for Motor Control Centres

Linery distribution systems Accessories


Accessories

		 DD381218-LIN-15 Linery screw	 DD381219-LIN-15 Plain washer	 DD381222-LIN-10 Identification
Linery screw	Characteristics	Sold in lots of 20: 20 screws + 20 nuts + 20 contact washers, class 8.8. The screws slide into the profile and are then locked in the desired position.		
	Cat. no.	25 mm length 39 mm length	see the table "Connections on Linery LGYE & LGY" below	
Steel plain washers	Characteristics	M8 sold in lots of 20.		
	Cat. no.	ext. Ø20 mm ext. Ø24 mm ext. Ø28 mm	04772 04773 04774	
	Characteristics	M8 sold in lots of 20 for connection of γ 25 mm ² lugs to Linery.		
Brass plain washers	Characteristics	M8 sold in lots of 20 for connection of γ 25 mm ² lugs to Linery.		
	Cat. no.	ext. Ø20 mm	04775	
	Characteristics	12 clip-on supports + N, L1, L2, L3, PE, PEN labels.		
Identification	Characteristics	12 clip-on supports + N, L1, L2, L3, PE, PEN labels.		
	Cat. no.	04794		
	Characteristics	Linery LGYE busbar screw plate kit after sales service.		
	Cat. no.	01130		

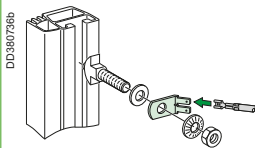
M8 bolts

		 DD380737b
Linery BS, 20 bolts 8.8 class	Characteristics	Set of 20 bolts + 20 nuts + 40 contact washers.
	Cat. no.	M8 x 20 M8 x 25 M8 x 30 M8 x 35 M8 x 40 M8 x 45 M8 x 50
		04782 04783 04784 04785 04786 04787 04788




Torque nuts

		 DD380735b
20 M8 torque nuts	Characteristics	Can be used to obtain the correct tightening torque (28 Nm) recommended by then manufacturer, without using a torque wrench. Torque nuts may be used for all electrical connections.
	Cat. no.	04759

Voltage tap-offs

		 DD380736b
20 M10 voltage tap-offs for two 6.35 mm tab connectors	Characteristics	For small lugs (on low-current cables or measurement tap-offs), insert a conducting washer (cat. no. 04775) between the busbar and the lug.
	Cat. no.	04229

★ Connections on Linery LGYE & LGY

InA (A)		Connection on Linery	Utilisation	Cat. no.	
0 to 630	Cable Insulated flexible bar	Use the 25 mm Linery screw	Recommended	04766	
		Use the 39 mm Linery screw	Possible	04767 ⁽¹⁾	
800 to 1250	5 mm thick bar	Use the 25 mm Linery screw	Recommended	04766	
		Use the 39 mm Linery screw	Possible	04767 ⁽¹⁾	
		Use the flat plate screw with 2 studs	Possible	04768	
1600 to 2500	5 or 10 mm thick bar	Use the flat plate screw with 2 studs	Recommended	04768	
		Use the 39 mm Linery screw	Possible	04767 ⁽¹⁾	

(1) **04767** is only compatible with Linery LGY.

Compartmentalised enclosure for Motor Control Centres

Partitioning Form 2

Partitioning Form 2

Separation of busbars from the functional units:

- protection against contact with live parts upstream of the outgoing circuits,
- protection against penetration of foreign solid bodies.

Form 2 partitioning

	Lateral partitioning	Rear partitioning	
Diagramas			
Características	<ul style="list-style-type: none"> ■ Set of 2 vertical metallic separation which guarantees good insulation of the sides of the compartment (IP2x). ■ Top and bottom ends have knock-outs for installation of horizontal busbars and pre-cuts of 40 x 70 mm for cable-glands using grommets ref 01215 when Form 4b is required. ■ Partition extension required for D800 mm. ■ Direct fixing on structure of enclosure. 	<ul style="list-style-type: none"> ■ Vertical metallic separation which guarantee good insulation of the back of the compartment (IP2x). ■ Pre-cuts of 40 x 70 mm for cable-glands using grommets ref 01215 when Form 4b is required on back installation. ■ Direct fixing on structure of enclosure. 	
N° cat.	D600: NSYMSC206 D800: NSYMSC206 + NSYMSC202 + NSYSUCR40200	W600: NSYMBC206 W800: NSYMBC208	
	Front and Rear busbar barrier	Horizontal busbar barriers	
Diagramas			
Características	<ul style="list-style-type: none"> ■ Front protection is realized by the association of the door W300 and this barrier. Metallic barrier, composed of 2 parts H850, pre-cut at both ends ■ Rear protection is realized by the association of the back panel of the enclosure. 	<p>W600 W800</p> <ul style="list-style-type: none"> ■ Horizontal protection by the association of slotted front barrier and horizontal partition for efficient natural convection in the switchboard. ■ The set can be used to partition horizontal busbar at the top or bottom of the cubicle. ■ The space required for the busbars is not increased. 	<p>W300 W400</p> <ul style="list-style-type: none"> ■ Set of 2 slotted barriers (front & rear), plus horizontal panel to be used when busbars cross the cable chamber.
N° cat.	W300: 06540 W400: NSYVPF2B4	D600 ⁽¹⁾ : NSYHPF2B3M64 D800 ⁽¹⁾ : NSYHPF2B3M65	D600 ⁽¹⁾ : NSYHPF2B3M84 D800 ⁽¹⁾ : NSYHPF2B3M85


Note: when the busbars are at the bottom of the cubicle, gland plates are mandatory.

⁽¹⁾ For an enclosure with depth of 600 mm the compartment depth is 400 mm.
For an enclosure with depth of 800 mm the compartment depth is 500 mm.

Compartmentalised enclosure for Motor Control Centres

Partitioning Form 3

Accessories for partitioning Form 2 & 3

External claddings	
	Intermediate Crossbar 
Characteristics	<ul style="list-style-type: none"> ■ It is mounted between partial doors, guaranteeing good sealing. ■ To be used in the absence of the partition tray. ■ Direct fixing to the structure. ■ Available in 2 widths (mm).
Supply	2 crossbars with fixing elements
N° cat.	W600: NSYMIC6 W800: NSYMIC8

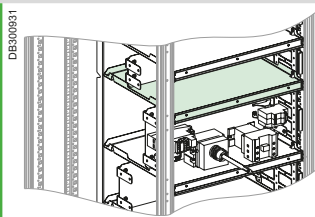
Partitioning Form 3

Separation of busbars from the functional units and separation of all functional units from one another.
 Separation of the terminals for external conductors from the functional units, but not from each other.

- protection against contact with live parts
- reduction in the risk of faults between the functional units (propagation of electrical arcs, etc.).

Form 3 partitioning

Horizontal partitioning



	W600	W800
Characteristics	<ul style="list-style-type: none"> ■ A horizontal metal partition to separate functional units from one another and guarantees insulation of the compartments (IP2x). ■ It is fixed to the front uprights of the enclosure and the side partitions. ■ Quick fixing system with intermediate crossbar to ensure the degree of protection of the partial doors. ■ Order by multiples of 2 (2, 4, 6...). 	
Cat. no.	D600 ⁽¹⁾ : NSYMTR64 D800 ⁽¹⁾ : NSYMTR65	D600 ⁽¹⁾ : NSYMTR84 D800 ⁽¹⁾ : NSYMTR85

⁽¹⁾ For an enclosure with depth of 600 mm the compartment depth is 400 mm.
 For an enclosure with depth of 800 mm the compartment depth is 500 mm.

Compartmentalised enclosure for Motor Control Centres

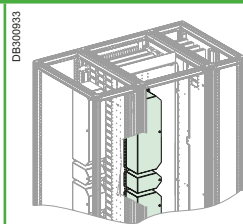
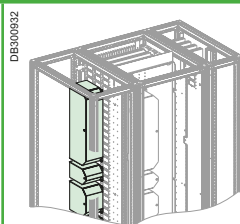
Partitioning Form 4

Partitioning Form 4

Separation of busbars from the functional units and separation of all functional units from one another, including the terminals for external conductors which are an integral part of the functional unit:

- Protection against contacts with live parts and reduction in the risk of faults between the functional units (propagation of electrical arcs, etc.).
- Form 4a: terminal for external conductors in the same compartment as the associated.
- Form 4b: Terminals for external conductors not in the same compartment as the associated functional unit, but in individual, separate, enclosed protected spaces or compartments.

Form 4b boxes



Characteristics	<ul style="list-style-type: none"> ■ Metallic plain box composed by 2 parts that can be easily installed for side or rear connection to separate the terminals for external conductors of the functional unit. ■ Quick fixing system on the side or on the back partition. ■ Available in 6 heights: 					
-----------------	---	--	--	--	--	--

Cat. no.	3M: NSYBF4B3M	4M: NSYBF4B4M	5M: NSYBF4B5M	6M: NSYBF4B6M	8M: NSYBF4B8M	9M: NSYBF4B9M
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Other universal common accessories

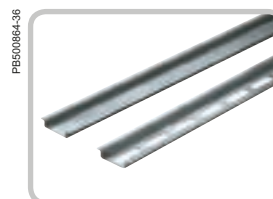
Rail support bracket



Characteristics	<ul style="list-style-type: none"> ■ Bracket for fixing rails at an angle of 45°. ■ Reference by unit. Order by multiples of 10 (10, 20, 30...).
-----------------	--

Cat. no.	NSYFB45
----------	---------

Mounting & Cable management acc.





Cat. no.	See on Universal Enclosure catalogue
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Compartmentalised enclosure for Motor Control Centres

Selection of Spacial enclosures

Common characteristics

- Spacial SFM framework with compartmentalised system that can be combined side-by-side with busbar and cable chambers.
- Receive the cover panels and partial doors IP54 according to IEC 60529.
- Material: steel.
- Finish: structured finish, epoxy-polyester powder.
- Colour: RAL 7035 grey.
- Possibility to order it assembled or kit supply.

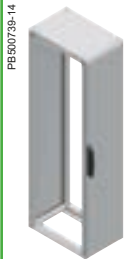

Compartmentalised enclosure				
	Assembled supply		Kit supply	
				
	W600	W800	W600	W800
Characteristics	<ul style="list-style-type: none"> ■ Structure: Top and bottom frame and vertical uprights H2000 mm. ■ Useful height for doors H1800 mm /36M, when are installed the top and bottom fix panels for modularity (mandatory for installation of partial doors). ■ Equipped with removable roof, external fixing rear panel and top & bottom fixed panels (H100 mm) to allow modularity of partial doors. ■ 4 dimensions available. 			
Cat. no.	D600: NSYSF20660M D800: NSYSF20680M	D600: NSYSF20860M D800: NSYSF20880M	-	-
Vertical uprights H2000 mm	-	-	NSYSFV20	NSYSFV20
Top & Bottom frame with roof	-	-	D600: NSYSFC66 D800: NSYSFC68	D600: NSYSFC86 D800: NSYSFC88
Rear panel	-	-	NSYBP206	NSYBP208
Fixed panels for modularity H100 mm /2M (intermediate crossbars included)	-	-	See table below	See table below

External claddings					
	Front Fix panel for modularity		Frontal partial doors		Side panels
					
	W600	W800	W600	W800	D600 D800
Characteristics	<ul style="list-style-type: none"> ■ Top & bottom fix panel to obtain modularity required to install partial doors. ■ If there is no horizontal partitioning on top or bottom, the intermediate crossbar has to be ordered separately, ref. NSYMIC6 (W600 mm) or NSYMIC8 (W800 mm). ■ 2M fixed panels are delivered as standard for the compartmentalized enclosure. ■ Possibility to order it separately for Spacial SFM framework in kit supply. ■ Available in 2 heights (M) (1). 		<ul style="list-style-type: none"> ■ Plain partial door with lock 5 mm double-bar insert. ■ They are fixed to the uprights of the framework by means of hinges. ■ Drilling template for uprights ref. NSYMDT (2) (Only 1 drilling template by order is needed). ■ Opening to right or left. ■ 1, 2 or 4 locking points according different heights. ■ Possibility to replace locking insert (see page 379). ■ Available in following heights (M) (1). 		<ul style="list-style-type: none"> ■ Set of 2 side panels fixed to the outside of the enclosure. ■ Captive screws pre-mounted on the panels. ■ Available in 2 depths (mm).
Cat. no.	2M: NSYMF2M6 (3) 5M: NSYMF5M6 (3)	2M: NSYMF2M8 (3) 5M: NSYMF5M8 (3)	3M: NSYMPD3M6 4M: NSYMPD4M6 5M: NSYMPD5M6 6M: NSYMPD6M6 8M: NSYMPD8M6 9M: NSYMPD9M6 12M: NSYMPD12M6 16M: NSYMPD16M6 18M: NSYMPD18M6 20M: NSYMPD20M6 24M: NSYMPD24M6	3M: NSYMPD3M8 4M: NSYMPD4M8 5M: NSYMPD5M8 6M: NSYMPD6M8 8M: NSYMPD8M8 9M: NSYMPD9M8 12M: NSYMPD12M8 16M: NSYMPD16M8 18M: NSYMPD18M8 20M: NSYMPD20M8 24M: NSYMPD24M8	NSY2SP206 NSY2SP208

(1) Heights according modularity (1M = 50 mm).
 (2) Only 1 drilling template NSYMDT by order is needed.
 (3) Each reference contains 2 units.

Compartmentalised enclosure for Motor Control Centres

Selection of Spacial enclosures for Motor Control Centres

Busbar & cabling chambers				
	Assembled supply		Kit supply	
	 PB500793-14		 PB500127-13 PB500128-16 PB500129-7 PB500130-7	
	W300	W400	W300	W400
Characteristics	<ul style="list-style-type: none"> ■ Structure: Top and bottom frame and vertical uprights H2000 mm. ■ Equipped with removable roof, external fixing rear panel and front plain door with 4 point locking system with handle and DB 5 mm insert. ■ 4 dimensions available. 			
Cat. no.	D600: NSYSF20360 D800: NSYSF20380	D600: NSYSF20460 D800: NSYSF20480	-	-
Vertical uprights H2000 mm	-	-	NSYSFV20	NSYSFV20
Top & Bottom frame with roof	-	-	D600: NSYSFC36 D800: NSYSFC38	D600: NSYSFC46 D800: NSYSFC48
Rear panel	-	-	NSYBP203	NSYBP204
Front plain door	-	-	NSYSFD203	NSYSFD204

Compartmentalised enclosure for Motor Control Centres

Spacial accessories

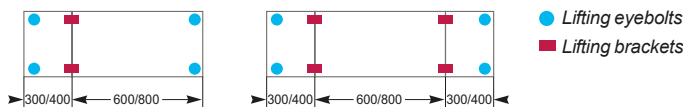
Other composition accessories

			Cable-gland plates			Plinth (100 mm height)		Plinth (200 mm height)	
H (mm)	W (mm)	D (mm)	Plain	1 entry	2 entries	Front kit	Side kit	Front kit	Side kit
2000	600	600	NSYEC66	NSYEC661	NSYEC662	NSYSPPF6100	NSYSPS6100	NSYSPPF6200	NSYSPS6200
2000	600	800	NSYEC68	NSYEC681	NSYEC682	NSYSPPF6100	NSYSPS8100	NSYSPPF6200	NSYSPS8200
2000	800	600	NSYEC86	NSYEC861	NSYEC862	NSYSPPF8100	NSYSPS6100	NSYSPPF8200	NSYSPS6200
2000	800	800	NSYEC88	NSYEC881	NSYEC882	NSYSPPF8100	NSYSPS8100	NSYSPPF8200	NSYSPS8200
2000	300	600	NSYEC36	NSYEC361	-	NSYSPPF3100	NSYSPS6100	NSYSPPF3200	NSYSPS6200
2000	300	800	-	NSYEC381	-	NSYSPPF3100	NSYSPS8100	NSYSPPF3200	NSYSPS8200
2000	400	600	NSYEC64	NSYEC461	-	NSYSPPF4100	NSYSPS6100	NSYSPPF4200	NSYSPS6200
2000	400	800	NSYEC84	NSYEC481	-	NSYSPPF4100	NSYSPS8100	NSYSPPF4200	NSYSPS8200

	Coupling kit	4 lifting eyebolts	4 lifting brackets	Earth braids	Earthing cables
Characteristics	<ul style="list-style-type: none"> Side-by-side combination. Back-to-back combination ⁽²⁾. 	<ul style="list-style-type: none"> Use a set of lifting eyebolts rings for each framework ⁽³⁾. 	<ul style="list-style-type: none"> When two cubicles with devices have been combined, use a lifting brackets. 	<ul style="list-style-type: none"> NSYEB1516D8: <ul style="list-style-type: none"> Length 155 mm, Section 16 mm², Terminal 8.5 mm. NSYEB2025D8: <ul style="list-style-type: none"> Length 200 mm, Section 25 mm², Terminal 8.5 mm. NSYEB2050D8: <ul style="list-style-type: none"> Length 200 mm, Section 50 mm², Terminal 8.5 mm. 	<ul style="list-style-type: none"> NSYEL166D8: <ul style="list-style-type: none"> Length 160 mm, Section 6 mm², Terminal 8.3 mm. NSYEL2225D8: <ul style="list-style-type: none"> Length 220 mm, Section 25 mm², Terminal 8.3 mm. NSYEL3525D8: <ul style="list-style-type: none"> Length 350 mm, Section 25 mm², Terminal 8.3 mm.
Cat. no.	NSYSFBK19	NSYSFEB	NSYSFELB	NSYEB1516D8 NSYEB2025D8 NSYEB2050D8	NSYEL166D8 NSYEL2225D8 NSYEL3525D8

⁽²⁾ Back to back association must be shipped individually and combined during on-site installation.

⁽³⁾ For 2 columns:
For 3 columns:



For more than 3 columns, lengths > 1600 mm, see Lifting bars options on Universal Enclosures catalogue.

Locks for partial doors

Locks for partial doors		
Possibility to replace standard insert by one from the table below (CRN range) and by keeping the standard latch.		
Type of lock	Insert references	Key references
3 mm double bar	NSYTDBCRN*	NSYLDB5
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.

Thalassa PHD Spacial S3HD - SFHD

Outdoor Heavy Duty enclosures Introduction

➤ Thalassa PHD is suitable for outdoor public areas thanks to its multiple virtues:

- pressure and shock resistant (IEC 61439-5),
- anti-posting thanks to its special ribbed-surface door,
- insulated (ready to be Class II according to IEC 61439-1: 2011).

PB502630-28

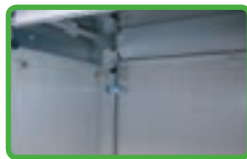


➤ Spacial S3HD and SFHD are designed for outdoor private areas. They are engineered to resist aggressive environments (anti-corrosion certification class C4H, ISO 12944:1999).

PB502602-28



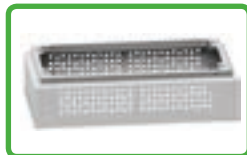
PB502611-34



Tough

PHD: Heavy Duty polyester reinforced with a double layer of fiberglass in structural parts. Ultra-resistant, anti-vandalism.

PB502673-29



Heavy Duty accessories

Dedicated accessories to resist outdoor, harsh environments.

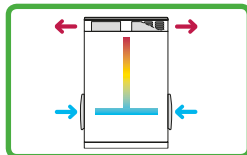
PB502648-11



Simplicity

Installation simplified: easy to be lifted with up to 1000 kg-loaded equipment. HD lifting accessories also available.

DBE300824-120



Thermal management solutions

3 ventilation architectures studied to help protect the equipment installed inside from overheating and humidity.

PB502662-30



Fully equipped

Standard, pre-installed equipment includes:

- a curved canopy to avoid water stagnation
- a door retainer to keep the door open even with strong wind or when a vehicle passes by
- an aluminium cable gland plate to easily drill holes and avoid corrosion
- a document pocket to stock your documents in a practical place.

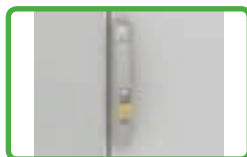
PB502670-29



Upper ventilation module

The newly engineered roof ventilation accessory helps to prevent creation of condensation (one of the causes of corrosion).

PB502674-25



Anti-vandalism

PHD and SFHD: the handle with keylock and additional padlock hole (padlock not included) helps to secure the equipment inside. It is standard equipment.



Prolonged exposure to UV radiation, wind and rain can cause aesthetics changes in the external surface of the enclosure. Without affecting the technical properties according to IEC 62208. For long exposure applications, it is recommended to use coloured enclosures available through the P&S offer.

This range can be configured according to your needs

4 different services available:



Assemble to order



Mounting of standard accessories



Painting



Machining

See page 496 for details or consult our web site www.se.com

Outdoor Heavy Duty enclosures

Characteristics

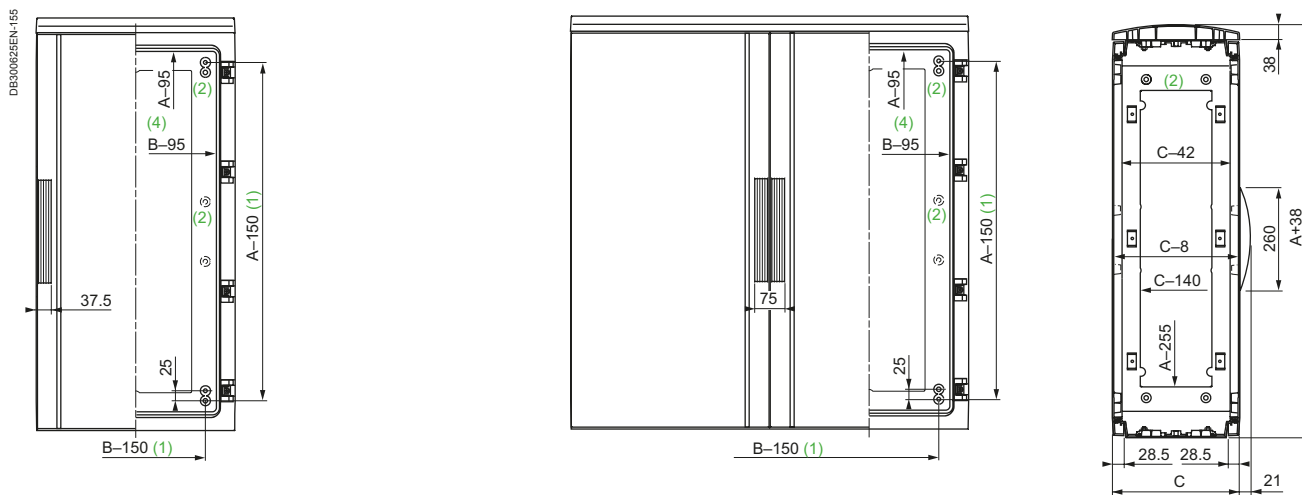


Characteristics	Polyester outdoor Heavy Duty enclosures		Steel outdoor Heavy Duty enclosures	
	Wall-mounting enclosure	Floor-standing enclosure	Wall-mounting enclosure	Floor-standing enclosure
	Outdoor Heavy Duty (HD) enclosures made of polyester insulating material. Suitable to be installed in public areas thanks to its features: <ul style="list-style-type: none"> ■ anti-pressure and shock resistant ■ anti-posting ■ insulated. 		Outdoor Heavy Duty (HD) enclosures made of coated steel. Suitable to be installed in private areas with harsh environments thanks to its capacity to resist: <ul style="list-style-type: none"> ■ corrosion (up to C4H level according to ISO 12944:1999) ■ UV. 	
Material	HD Polyester reinforced with fiberglass to meet the standard EN 439-5		HD steel with anti-corrosive coating	
Finish	-		Structured finish, 100 % polyester powder	
Colour	RAL 7035 grey		RAL 7035 grey	
Conditions of use	Outdoor and/or harsh environments		Outdoor and/or harsh environments	
Temperature range	-40...80°C		-40...80°C	
Ingress protection rating	IP65 according to IEC 60529	IP55 according to IEC 60529	IP66 according to IEC 60529	IP55 according to IEC 60529
Mechanical protection rating	IK10 according to IEC 62262		IK10 according to IEC 62262	
Standards	IEC 61439-5: 2010, IEC 62208: 2011, IEC 61439-1: 2011, IEC 61969-3: 2011, IEC 60297-3-100: 2009		IEC 61439-5: 2010, IEC 62208: 2011, IEC 61969-3: 2011, IEC 60297-3-100: 2009, ISO 12.944: 1999 (C4H)	
Certifications	See table page 392		See table page 392	
Fixing	On wall by means of optional wall fixing accessory	2 options for installation on floor: <ul style="list-style-type: none"> ■ with floor fixing kit NSYMF2PLAZ4 or NSYMF2PLAZ6 for integrated plinth (50 mm) ■ with additional ZZ plinths (ventilated or non-ventilated) available as accessory (200 mm) (see page 385) 	<ul style="list-style-type: none"> ■ On wall by means of optional stainless steel wall fixing lugs ■ On post by means of optional HD post-fixing device 	<ul style="list-style-type: none"> ■ Directly on floor by means of optional plinth (see page 387)
Maximum load according to IEC 62208	500 kg		200 kg	1000 kg
Other characteristics	<ul style="list-style-type: none"> ■ Fire resistant (EN 1794-2:2011) ■ Lifting possible from top with eyebolt accessory ■ New dedicated ventilation solutions to be integrated in roof, lateral or plinth. 3 ventilation architectures proposed (see page 390 et 391) 		New dedicated ventilation solutions to be integrated in roof, side or plinth	
Options	Plain door or ribbed door		-	
Supply	<ul style="list-style-type: none"> ■ Curved canopy ■ Handle with keylock (1242E type) and padlock ■ Door retainer ■ Plastic document pocket (A4 size) 	<ul style="list-style-type: none"> ■ Curved canopy ■ Integrated plinth ■ Handle with keylock (1242E type) and padlock ■ Aluminium cable gland plate ■ Door retainer ■ Plastic document pocket (A4 size) 	<ul style="list-style-type: none"> ■ Curved canopy ■ 3-mm double-bar lock ■ Plastic document pocket (A4 size) ■ Door retainer ■ Aluminium cable gland plate 	<ul style="list-style-type: none"> ■ Curved canopy ■ Rear panel ■ Handle with keylock (1242E type) and padlock ■ Aluminium cable gland plate ■ Door retainer ■ Plastic document pocket (A4 size)

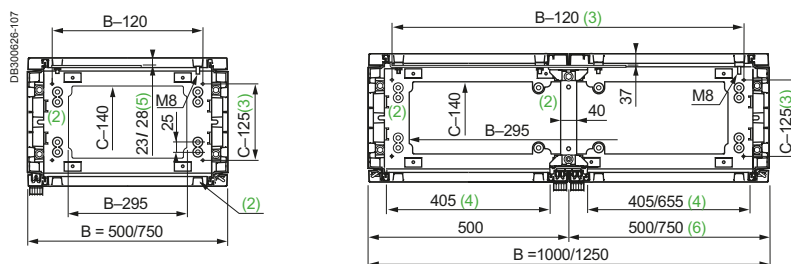
Outdoor Heavy Duty enclosures

Dimensions

Enclosure with airing canopy



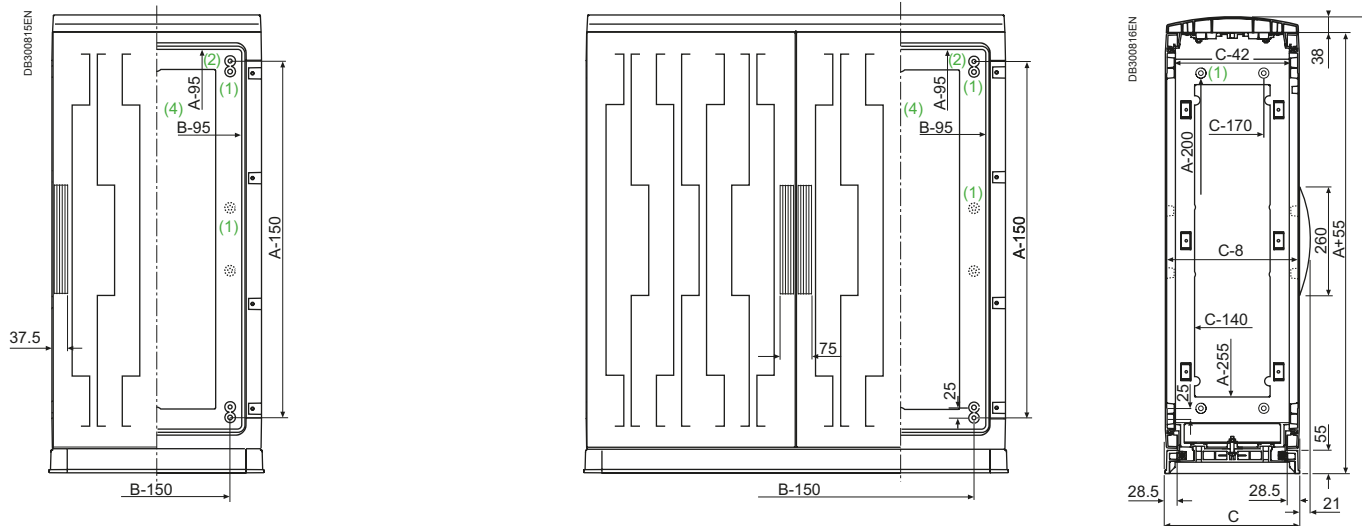
Common top views



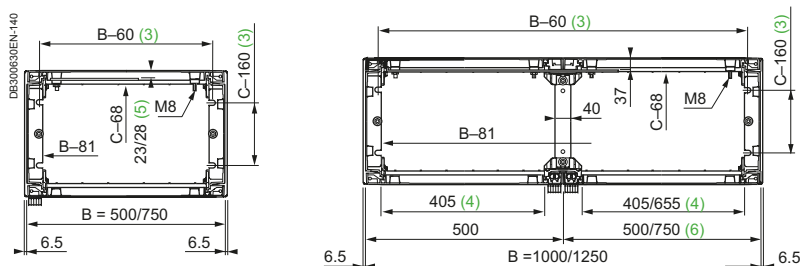
Outdoor Heavy Duty enclosures

Dimensions

Enclosure with airing 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.

Outdoor Heavy Duty enclosures

Selection guide and accessories

Polyester outdoor HD enclosures



Characteristics					Polyester enclosure		Eyebolts	Wall fixing accessory	Floor fixing kit
					Anti-posting door	Plain door			
							Top lifting accessory for polyester outdoor Heavy Duty enclosure. ■ Maximum load per enclosure: 500 kg.	Wall fixing support for polyester outdoor Heavy Duty enclosure. No change in ingress protection rate. ■ Maximum load per enclosure: 180 kg.	To fix the enclosure on the floor without a plinth.
Material					Glass reinforced polyester	Glass reinforced polyester	Galvanised cast steel	Zinc coated steel	Steel
Finish							-	Zinc coating	Insulating coating
Colour					RAL 7035	RAL 7035	-	-	-
Installation							-	-	On dry concrete
Supply							4	4	1
Height (mm)	Width (mm)	Depth (mm)	No. of doors	References					
Wall-mounted enclosure									
538	500	320	1	NSYPHDT553	NSYPHDT553P	-		NSYFMPHD	-
788	500	320	1	NSYPHDT753	NSYPHDT753P	-		NSYFMPHD	-
Floor-standing enclosure									
843	750	420	1	NSYPHDZT774	NSYPHDZT774P	NSYPLHD	-		NSYMF2PLAZ4
	750	620	1	NSYPHDZT776	NSYPHDZT776P	NSYPLHD	-		NSYMF2PLAZ6
1093	500	420	1	NSYPHDZT1054	NSYPHDZT1054P	NSYPLHD	-		NSYMF2PLAZ4
	750	420	1	NSYPHDZT1074	NSYPHDZT1074P	NSYPLHD	-		NSYMF2PLAZ4
1343	500	420	1	NSYPHDZT1254	NSYPHDZT1254P	NSYPLHD	-		NSYMF2PLAZ4
		420	1	NSYPHDZT1274	NSYPHDZT1274P	NSYPLHD	-		NSYMF2PLAZ4
		620	1	NSYPHDZT1276	NSYPHDZT1276P	NSYPLHD	-		NSYMF2PLAZ6
	1250	420	2	NSYPHDZT12124	NSYPHDZT12124P	NSYPLHD	-		NSYMF2PLAZ4
		620	2	NSYPHDZT12126	NSYPHDZT12126P	NSYPLHD	-		NSYMF2PLAZ6
		620	2	NSYPHDZT12126	NSYPHDZT12126P	NSYPLHD	-		NSYMF2PLAZ6
1593	750	420	1	NSYPHDZT1574	NSYPHDZT1574P	NSYPLHD	-		NSYMF2PLAZ4
		620	1	NSYPHDZT1576	NSYPHDZT1576P	NSYPLHD	-		NSYMF2PLAZ6
	1250	420	2	NSYPHDZT15124	NSYPHDZT15124P	NSYPLHD	-		NSYMF2PLAZ4
		620	2	NSYPHDZT15126	NSYPHDZT15126P	NSYPLHD	-		NSYMF2PLAZ6
2093	750	420	2*	NSYPHDZT2074	NSYPHDZT2074P	NSYPLHD	-		NSYMF2PLAZ4

* Vertical doors.

Outdoor Heavy Duty enclosures

Selection guide and accessories



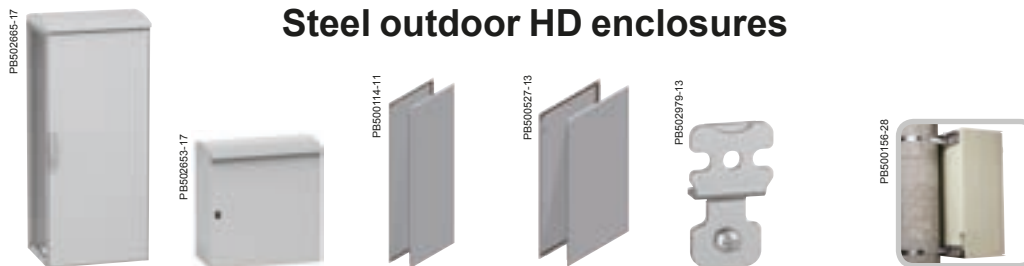
Ventilated ZZ plinth 200 mm**	ZZ plinth 200 mm**	Plain mounting plate	Roof ventilation module	Anti-burglary accessory
Height: 200 mm. The front part can be removed with a 1242 key. Includes a polyester anti-insect filter.	Height: 200 mm. The front and back plates can only be removed from the inside. It is provided with one or two reinforcement cross-rails, adjustable to adapt to the position of the cables.	The enclosures with height of ≥ 1000 mm have intermediate bosses to fix the mounting plate (M8 inserts, ref. NSYTEX8 , to be ordered separately).	Ventilation module to enable airing from the top of the enclosure (H = 95 mm).	Anti-burglary accessory for polyester outdoor Heavy Duty in accordance with ENV 1627-1630:2011 class 2. It keeps the Insulation Class II according to IEC 61439-1:2011.
Glass-reinforced polyester	Glass-reinforced polyester	Galvanised steel	Steel with anti-corrosive coating (C4H according ISO 12.944: 1999)	Steel with anti-corrosive coating (C4H according ISO 12.944: 1999)
-	-	-	Structured finish, 100 % polyester powder	Structured finish, 100 % polyester powder
RAL 7035 grey	RAL 7035 grey	-	RAL 7035 grey	RAL 7035 grey
-	-	<ul style="list-style-type: none"> ■ Direct installation on M8 inserts at the rear of the enclosure or on step slides for depth adjustment (see page 203) ■ In the 2-door enclosures, it is possible to install 1 complete mounting plate or 2 individual mounting plates 	-	Easy installation on the outside of the enclosure
1	1	1	1	1
-	-	NSYPMM55	-	-
-	-	NSYPMM75	-	-
NSYZZ274VHD	NSYZZ274G	NSYPMM77	NSYPCVR74HD	NSYBGN774HD
NSYZZ276VHD	NSYZZ276G	NSYPMM77	NSYPCVR76HD	NSYBGN776HD
NSYZZ254VHD	NSYZZ254G	NSYPMM105	NSYPCVR54HD	NSYBGN1054HD
NSYZZ274VHD	NSYZZ274G	NSYPMM107	NSYPCVR74HD	NSYBGN1074HD
NSYZZ254VHD	NSYZZ254G	NSYPMM125	NSYPCVR54HD	NSYBGN1254HD
NSYZZ274VHD	NSYZZ274G	NSYPMM127	NSYPCVR74HD	NSYBGN1274HD
NSYZZ276VHD	NSYZZ276G	NSYPMM127	NSYPCVR76HD	NSYBGN1276HD
NSYZZ2124VHD	NSYZZ2124G	NSYPMM1212	NSYPCVR124HD	NSYBGN12124HD
NSYZZ2126VHD	NSYZZ2126G	NSYPMM1212	NSYPCVR126HD	NSYBGN12126HD
NSYZZ274VHD	NSYZZ274G	NSYPMM157	NSYPCVR74HD	NSYBGN1574HD
NSYZZ276VHD	NSYZZ276G	NSYPMM157	NSYPCVR76HD	NSYBGN1576HD
NSYZZ2124VHD	NSYZZ2124G	NSYPMM1512	NSYPCVR124HD	NSYBGN15124HD
NSYZZ2126VHD	NSYZZ2126G	NSYPMM1512	NSYPCVR126HD	NSYBGN15126HD
NSYZZ274VHD	NSYZZ274G	NSYPMM207 or 2 x NSYPMM107	NSYPCVR74HD	NSYBGN2074HD

** The coupling kit NSYMUPLA*** is not applicable for enclosures using ZZ or ZH type plinths.

Outdoor Heavy Duty enclosures

Selection guide and accessories

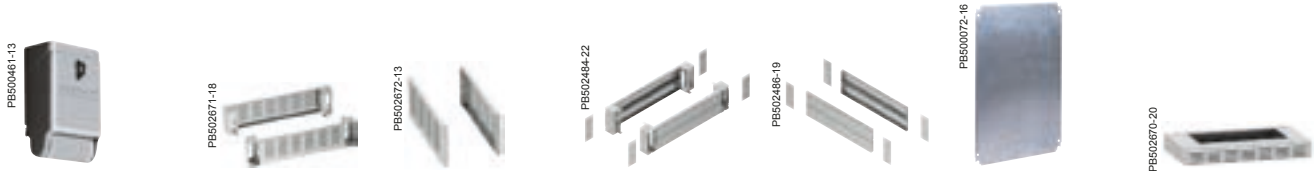
Steel outdoor HD enclosures



Characteristics				Steel enclosure	Side panels		Stainless steel wall fixing lugs	Heavy duty post-fixing device
					For floor-standing enclosures Side panel fixing for SFHD.		For wall-mounting enclosures Vertical position only. Do not use for dynamic loads.	
Material					Steel with anti-corrosive coating (C4H according ISO 12.944: 1999)		Stainless-steel AISI 304L	Steel
Finish					Structured finish, 100 % polyester powder		-	Zinc coating
Colour					RAL 7035 grey		-	-
Installation					-		Mounted directly on the rear of the enclosure, in vertical position	On posts with diameter 150 to 210 mm.
Maximum load					-		250 kg	100 kg
Supply					2 side panels with fixing elements and sealing gasket		Set of 4 wall-fixing lugs with fixings and gasket	1
Height (mm)	Width (mm)	Depth (mm)			External fixing	Internal fixing		
Wall-mounting enclosure								
343	200	180	NSYS3HD3215	-	-		NSYAEFPFXSC	-
448	300	230	NSYS3HD4320	-	-		NSYAEFPFXSC	NSYSFPSC30HD
548	400	230	NSYS3HD5420	-	-		NSYAEFPFXSC	NSYSFPSC40HD
653	400	280	NSYS3HD6425	-	-		NSYAEFPFXSC	NSYSFPSC40HD
658	600	330	NSYS3HD6630	-	-		NSYAEFPFXSC	NSYSFPSC60HD
753	500	280	NSYS3HD7525	-	-		NSYAEFPFXSC	NSYSFPSC50HD
858	600	330	NSYS3HD8630	-	-		NSYAEFPFXSC	NSYSFPSC60HD
862	800	430	NSYS3HD8840	-	-		NSYAEFPFXSC	NSYSFPSC80HD
1062	600	430	NSYS3HD10640	-	-		NSYAEFPFXSC	NSYSFPSC60HD
	800	430	NSYS3HD10840	-	-		NSYAEFPFXSC	NSYSFPSC80HD
Floor-standing enclosure								
1262	600	430	NSYSFHD12640	NSY2SPHD124	NSY2SPIHD124	-	-	-
	800	430	NSYSFHD12840	NSY2SPHD124	NSY2SPIHD124	-	-	-
	1200	430	NSYSFHD1212402D	NSY2SPHD124	NSY2SPIHD124	-	-	-
1281	600	630	NSYSFHD12660	NSY2SPHD126	NSY2SPIHD126	-	-	-
	800	630	NSYSFHD12860	NSY2SPHD126	NSY2SPIHD126	-	-	-
	1200	630	NSYSFHD1212602D	NSY2SPHD126	NSY2SPIHD126	-	-	-
1662	800	430	NSYSFHD16840	NSY2SPHD164	NSY2SPIHD164	-	-	-
	1200	430	NSYSFHD1612402D	NSY2SPHD164	NSY2SPIHD164	-	-	-
1681	600	630	NSYSFHD16660	NSY2SPHD166	NSY2SPIHD166	-	-	-
	800	630	NSYSFHD16860	NSY2SPHD166	NSY2SPIHD166	-	-	-
	1200	630	NSYSFHD1612602D	NSY2SPHD166	NSY2SPIHD166	-	-	-
2062	800	430	NSYSFHD20840	NSY2SPHD204	NSY2SPIHD204	-	-	-

Outdoor Heavy Duty enclosures

Selection guide and accessories





	Heavy Duty padlockable double lock	Stainless-steel plinths 200 mm				Plain mounting plate	Roof ventilation module
		Ventilated plinths		Standard plinths			
	For wall-mounting enclosures	Front and rear kit	Lateral kit	Front and rear kit	Lateral kit		
	Easy mounting instead of the standard lock.	The front and rear of the plinth consists of 4 corners with 2 panels.	They are fixed to the corner of the plinth by fixing screws.	The front and rear of the plinth consists of 4 corners with 2 panels.	They are fixed to the corner of the plinth by fixing screws.	-	Ventilation module to enable airing from the top of the enclosure (H = 95 mm).
	Zamak	Stainless-steel AISI 304L	Stainless-steel AISI 304L	Stainless-steel AISI 304L	Stainless-steel AISI 304L	Galvanised steel	Steel with anti-corrosive coating
	Anti-corrosive coating	Scotch-Brite® brushing				-	Structured finish, 100 % polyester powder
	-	-	-	-	-	-	RAL 7035 grey
	-	<ul style="list-style-type: none"> For wall-mounting enclosure: it is necessary to order separately the plinth fixing kit (ref. NSYAPFXWM) composed by fixing hardware and drilling template For floor-standing enclosure: mounting in the holes for fixing the enclosures to the floor 				-	-
	Delivered with 3 mm double-bar metal key	1 kit	1 kit	1 kit	1 kit	1 mounting plate and fixing elements	1
	NSYAEDLPADS3DHD	-	-	-	-	NSYMM32	-
	NSYAEDLPADS3DHD	-	-	-	-	-	-
	NSYAEDLPADS3DHD	-	-	-	-	NSYMM54	-
	NSYAEDLPADS3DHD	-	-	-	-	NSYMM64	-
	NSYAEDLPADS3DHD	NSYSPFVX6200	NSYSPLVX3200	NSYSPFX6200	NSYSPSX3200	NSYMM66	-
	NSYAEDLPADS3DHD	-	-	-	-	NSYMM75	-
	NSYAEDLPADS3DHD	NSYSPFVX6200	NSYSPLVX3200	NSYSPFX6200	NSYSPSX3200	NSYMM86*	-
	NSYAEDLPADS3DHD	NSYSPFVX8200	NSYSPLVX4200	NSYSPFX8200	NSYSPSX4200	NSYMM88	NSYS3CVR84HD
	NSYAEDLPADS3DHD	NSYSPFVX6200	NSYSPLVX4200	NSYSPFX6200	NSYSPSX4200	NSYMM106	NSYS3CVR64HD
	NSYAEDLPADS3DHD	NSYSPFVX8200	NSYSPLVX4200	NSYSPFX8200	NSYSPSX4200	NSYMM108*	NSYS3CVR84HD
	-	-	-	NSYSPFX6200	NSYSPSX4200SF	NSYMP126	NSYSFCVR64HD
	-	NSYSPFVX8200	NSYSPLVX4200SF	NSYSPFX8200	NSYSPSX4200SF	NSYMP128	NSYSFCVR84HD
	-	NSYSPFVX12200	NSYSPLVX4200SF	NSYSPFX12200	NSYSPSX4200SF	NSYMP1212	NSYSFCVR124HD
	-	NSYSPFVX6200	NSYSPLVX6200SF	NSYSPFX6200	NSYSPSX6200SF	NSYMP126	NSYSFCVR66HD
	-	NSYSPFVX8200	NSYSPLVX6200SF	NSYSPFX8200	NSYSPSX6200SF	NSYMP128	NSYSFCVR86HD
	-	NSYSPFVX12200	NSYSPLVX6200SF	NSYSPFX12200	NSYSPSX6200SF	NSYMP1212	NSYSFCVR126HD
	-	NSYSPFVX8200	NSYSPLVX4200SF	NSYSPFX8200	NSYSPSX4200SF	NSYMP168	NSYSFCVR84HD
	-	NSYSPFVX12200	NSYSPLVX4200SF	NSYSPFX12200	NSYSPSX4200SF	NSYMP1612	NSYSFCVR124HD
	-	NSYSPFVX6200	NSYSPLVX6200SF	NSYSPFX6200	NSYSPSX6200SF	NSYMP166	NSYSFCVR66HD
	-	NSYSPFVX8200	NSYSPLVX6200SF	NSYSPFX8200	NSYSPSX6200SF	NSYMP168	NSYSFCVR86HD
	-	NSYSPFVX12200	NSYSPLVX6200SF	NSYSPFX12200	NSYSPSX6200SF	NSYMP1612	NSYSFCVR126HD
	-	NSYSPFVX8200	NSYSPLVX4200SF	NSYSPFX8200	NSYSPSX4200SF	NSYMP208	NSYSFCVR84HD

Anti-vandalism kit for plinths

Fixings that help to prevent to open the plinths from the outside with standard tools.

- Material: stainless-steel.

References

	16 anti-vandalism screws for stainless-steel plinth	NSYSKAV
	Key for anti-vandalism screws for stainless-steel plinth	NSYKSKAV

* 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 or H 400 x W 600 mm.
For plain and silkscreened mounting plates: 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 **NSYDRSDCR** (more information on page 218).

Outdoor Heavy Duty enclosures

Accessories overview

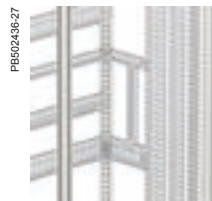
Installation accessories

Mounting acc.



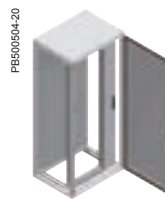
Polyester: Page 240
Steel: Page 220

Telequick system



Polyester: Page 227
Steel: Page 219

19" accessories



Steel: Page 432

Outdoor Heavy Duty enclosures

Thermal accessories



Characteristics	Fanbox	Filter	Roof filter for fanbox	IP55 HD Metal Grille	Anti-vandalism kit for HD metal grille																		
	<ul style="list-style-type: none"> Free flow rate: 550 m³/h (50/60 Hz). Minimal depth inside the enclosure (90 mm). Allows multiple cooling architectures (see page 390 et 391). 	Replacement G3 M1 type synthetic filter for HD metal grille. Dimensions: 215 x 215 mm.	Roof G2 round synthetic filter designed to cover the fanbox. Covers completely the fanbox and helps to protect it from dust and humidity. Mandatory for fanbox installation in the Roof ventilation module for IP55 configurations.	Slim grille (35 mm external depth). Includes a G3 M1 filter.	Fixings that help to prevent to open the grille from the outside with standard tools (EN 1627-1630:2011 Class 2). Quick installation without tools.																		
Material	-	100 % polyester fibres	100 % polyester fibres	Steel with anti-corrosive coating + plastic PA6 / GF25 for fixing frame	Steel with anti-corrosive coating + plastic for fixing screws																		
Finish	-	-	-	Structured finish, 100 % polyester powder	-																		
Colour	RAL 7016 dark grey	White	White	RAL 7035 grey	-																		
Ingress protection rating	-	-	-	IP55 according to IEC 60529	-																		
Mechanical protection rating	-	-	-	IK10 according to IEC 62262	-																		
Supply	1 (grille not included)	5	1	1 grille delivered with G3 M1 type synthetic filter (215 x 215 mm) and fixings	<ul style="list-style-type: none"> 4 grip knob 4 clip nuts 																		
	<table border="1"> <thead> <tr> <th>Voltage</th> <th>References</th> </tr> </thead> <tbody> <tr> <td>24 V DC</td> <td>NSYCVF550M24FB</td> </tr> <tr> <td>48 V DC</td> <td>NSYCVF550M48FB</td> </tr> <tr> <td>115 V AC</td> <td>NSYCVF550M115FB</td> </tr> <tr> <td>230 V AC</td> <td>NSYCVF550M230FB</td> </tr> </tbody> </table>	Voltage	References	24 V DC	NSYCVF550M24FB	48 V DC	NSYCVF550M48FB	115 V AC	NSYCVF550M115FB	230 V AC	NSYCVF550M230FB	<table border="1"> <thead> <tr> <th>Reference</th> </tr> </thead> <tbody> <tr> <td>NSYCAF223T</td> </tr> </tbody> </table>	Reference	NSYCAF223T	<table border="1"> <thead> <tr> <th>Reference</th> </tr> </thead> <tbody> <tr> <td>NSYCAF190</td> </tr> </tbody> </table>	Reference	NSYCAF190	<table border="1"> <thead> <tr> <th>Reference</th> </tr> </thead> <tbody> <tr> <td>NSYCAG223LFHD</td> </tr> </tbody> </table>	Reference	NSYCAG223LFHD	<table border="1"> <thead> <tr> <th>Reference</th> </tr> </thead> <tbody> <tr> <td>NSYCAAPVHD*</td> </tr> </tbody> </table>	Reference	NSYCAAPVHD*
Voltage	References																						
24 V DC	NSYCVF550M24FB																						
48 V DC	NSYCVF550M48FB																						
115 V AC	NSYCVF550M115FB																						
230 V AC	NSYCVF550M230FB																						
Reference																							
NSYCAF223T																							
Reference																							
NSYCAF190																							
Reference																							
NSYCAG223LFHD																							
Reference																							
NSYCAAPVHD*																							

* not compatible with NSYSPLA150

Outdoor Heavy Duty enclosures

Ventilation architectures

- ① IP55 metal grille
- ② Fanbox
- ③ Roof ventilated module
- ④ Ventilated plinths
- ⑤ IP54 grille



	S-Line				T-Line			
Architecture benefits	<ul style="list-style-type: none"> ■ Most common and competitive architecture ■ Maximum heat dissipation to extract 800 W-1000 W ■ ΔT° of 5°C ■ Easy access to mount-dismount fanbox ■ Air flow in horizontal axis 				<ul style="list-style-type: none"> ■ High capacity of extraction calories up to 1500 W ■ Noise level with 1 fan: 55 dB when installed inside the upper ventilation module ■ ΔT° of 5°C ■ Air flow in vertical axis 			
	IP55 metal grille		Fanbox		IP55 metal grille		Fanbox (1 filter NSYCAF190 for each Fanbox)	Roof ventilation module
	Door	Side	Door	Side	Door	Side		

Polyester outdoor HD enclosure

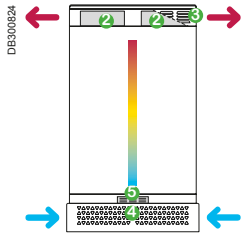
References	Amount to be installed				Amount to be installed				References
NSYPHDT553	-	-	-	-	-	-	-	-	-
NSYPHDT553P	-	-	-	-	-	-	-	-	-
NSYPHDT753	-	-	-	-	-	-	-	-	-
NSYPHDT753P	1 to 2	-	1 to 2	-	1 to 2	-	-	-	-
NSYPHDZT774	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	NSYPCVR74HD
NSYPHDZT774P	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1	NSYPCVR74HD
NSYPHDZT776	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	NSYPCVR76HD
NSYPHDZT776P	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1	NSYPCVR76HD
NSYPHDZT1054	-	1	-	1	-	1	1	1	NSYPCVR54HD
NSYPHDZT1054P	1 to 2	1	1 to 2	1	1 to 2	1	1	1	NSYPCVR54HD
NSYPHDZT1074	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	NSYPCVR74HD
NSYPHDZT1074P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	NSYPCVR74HD
NSYPHDZT12124	-	1 to 3	-	1 to 3	-	1 to 3	1 to 3	1	NSYPCVR124HD
NSYPHDZT12124P	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	NSYPCVR124HD
NSYPHDZT12126	-	1 to 3	-	1 to 3	-	1 to 3	1 to 3	1	NSYPCVR126HD
NSYPHDZT12126P	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	NSYPCVR126HD
NSYPHDZT1254	-	1	-	1	-	1	1	1	NSYPCVR54HD
NSYPHDZT1254P	1 to 3	1	1 to 3	1	1 to 3	1	1	1	NSYPCVR54HD
NSYPHDZT1274	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	NSYPCVR74HD
NSYPHDZT1274P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	NSYPCVR74HD
NSYPHDZT1276	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	NSYPCVR76HD
NSYPHDZT1276P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	NSYPCVR76HD
NSYPHDZT15124	-	1 to 3	-	1 to 3	-	1 to 3	1 to 3	1	NSYPCVR124HD
NSYPHDZT15124P	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	NSYPCVR124HD
NSYPHDZT15126	-	1 to 3	-	1 to 3	-	1 to 3	1 to 3	1	NSYPCVR126HD
NSYPHDZT15126P	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	NSYPCVR126HD
NSYPHDZT1574	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	NSYPCVR74HD
NSYPHDZT1574P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	NSYPCVR74HD
NSYPHDZT1576	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	NSYPCVR76HD
NSYPHDZT1576P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	NSYPCVR76HD
NSYPHDZT2074	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	NSYPCVR74HD
NSYPHDZT2074P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	NSYPCVR74HD

Steel outdoor HD enclosure

References	Amount to be installed				Amount to be installed				References
NSYS3HD8630	1 to 2	-	1 to 2	-	1 to 2	-	-	-	-
NSYS3HD8840	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1	NSYS3CVR84HD
NSYS3HD10640	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1	1	NSYS3CVR64HD
NSYS3HD10840	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	NSYS3CVR84HD
NSYSFHD12640	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1	1	NSYSFCVR64HD
NSYSFHD12660	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1	1	NSYSFCVR66HD
NSYSFHD12840	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 2	1	NSYSFCVR84HD
NSYSFHD12860	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 2	1	NSYSFCVR86HD
NSYSFHD16660	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1	1	NSYSFCVR66HD
NSYSFHD16840	1 to 4	1 to 4	1 to 4	1 to 3	1 to 4	1 to 3	1 to 2	1	NSYSFCVR84HD
NSYSFHD16860	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 2	1	NSYSFCVR86HD
NSYSFHD20840	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 2	1	NSYSFCVR84HD
NSYSFHD1212402D	1 to 4	1 to 3	1 to 4	1 to 2	1 to 4	1 to 2	1 to 3	1	NSYSFCVR124HD
NSYSFHD1212602D	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 2	1 to 3	1	NSYSFCVR126HD
NSYSFHD1612402D	1 to 4	1 to 4	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	NSYSFCVR124HD
NSYSFHD1612602D	1 to 4	1 to 4	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	NSYSFCVR126HD

Outdoor Heavy Duty enclosures

Ventilation architectures



This table helps to configure thermal architectures, but it is highly recommended to use ProClima Software to ensure the right thermal solution according to the selected architecture.

I-Line

- Integrated architecture particularly suitable for public areas
- High capacity of extraction calories up to 1500 W
- Noise level with 1 fan: 55 dB when installed inside the upper ventilation module
- Good extraction flow rate power
- Air flow in vertical axis

IP54 outlet grille (NSYCAAG223LPF + G3 filter NSYCAF223T)	Ventilated plinths	Fanbox (1 filter NSYCAF190 for each Fanbox)	Roof ventilation module
---	---------------------------	---	--------------------------------

Amount to be installed		References		Amount to be installed		References	
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	-
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	-
1 to 2	1	NSYZZ276VHD	-	1 to 2	1	NSYPCVR76HD	-
1 to 2	1	NSYZZ276VHD	-	1 to 2	1	NSYPCVR76HD	-
1	1	NSYZZ254VHD	-	1	1	NSYPCVR54HD	-
1	1	NSYZZ254VHD	-	1	1	NSYPCVR54HD	-
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	-
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	-
1 to 3	1	NSYZZ2124VHD	-	1 to 3	1	NSYPCVR124HD	-
1 to 3	1	NSYZZ2124VHD	-	1 to 3	1	NSYPCVR124HD	-
1 to 3	1	NSYZZ2126VHD	-	1 to 3	1	NSYPCVR126HD	-
1 to 3	1	NSYZZ2126VHD	-	1 to 3	1	NSYPCVR126HD	-
1	1	NSYZZ254VHD	-	1	1	NSYPCVR54HD	-
1	1	NSYZZ254VHD	-	1	1	NSYPCVR54HD	-
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	-
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	-
1 to 2	1	NSYZZ276VHD	-	1 to 2	1	NSYPCVR76HD	-
1 to 2	1	NSYZZ276VHD	-	1 to 2	1	NSYPCVR76HD	-
1 to 3	1	NSYZZ2124VHD	-	1 to 3	1	NSYPCVR124HD	-
1 to 3	1	NSYZZ2124VHD	-	1 to 3	1	NSYPCVR124HD	-
1 to 3	1	NSYZZ2126VHD	-	1 to 3	1	NSYPCVR126HD	-
1 to 3	1	NSYZZ2126VHD	-	1 to 3	1	NSYPCVR126HD	-
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	-
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	-
1 to 2	1	NSYZZ276VHD	-	1 to 2	1	NSYPCVR76HD	-
1 to 2	1	NSYZZ276VHD	-	1 to 2	1	NSYPCVR76HD	-
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	-
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	-

Amount to be installed		References		Amount to be installed		References	
1	1	NSYSPFVX6200	NSYSPSX3200	-	-	-	-
1 to 2	1	NSYSPFVX8200	NSYSPLVX4200	1 to 2	1	NSYS3CVR84HD	-
1	1	NSYSPFVX6200	NSYSPLVX4200	1	1	NSYS3CVR64HD	-
1	1	NSYSPFVX8200	NSYSPLVX4200	1 to 2	1	NSYS3CVR84HD	-
1	1	NSYSPFVX6200	NSYSPLVX4200	1	1	NSYSFCVR64HD	-
1	1	NSYSPFVX6200	NSYSPLVX6200	1	1	NSYSFCVR66HD	-
1 to 2	1	NSYSPFVX8200	NSYSPLVX4200	1 to 2	1	NSYSFCVR84HD	-
1 to 2	1	NSYSPFVX8200	NSYSPLVX6200	1 to 2	1	NSYSFCVR86HD	-
1	1	NSYSPFVX6200	NSYSPLVX6200	1	1	NSYSFCVR66HD	-
1 to 2	1	NSYSPFVX8200	NSYSPLVX4200	1 to 2	1	NSYSFCVR84HD	-
1 to 2	1	NSYSPFVX8200	NSYSPLVX6200	1 to 2	1	NSYSFCVR86HD	-
1 to 2	1	NSYSPFVX8200	NSYSPLVX4200	1 to 2	1	NSYSFCVR84HD	-
1 to 3	1	NSYSPFVX12200	NSYSPLVX4200	1 to 3	1	NSYSFCVR124HD	-
1 to 3	1	NSYSPFVX12200	NSYSPLVX6200	1 to 3	1	NSYSFCVR126HD	-
1 to 3	1	NSYSPFVX12200	NSYSPLVX4200	1 to 3	1	NSYSFCVR124HD	-
1 to 3	1	NSYSPFVX12200	NSYSPLVX6200	1 to 3	1	NSYSFCVR126HD	-

Outdoor Heavy Duty enclosures Certifications

Test description	Standard	Standard title	Certification	Declaration
POLYESTER				
Thalassa PHD				
IP55, IK10, lifting: 500 kg max. (IP65 for wall-mounting)	IEC 62208: 2011	Empty enclosures for low-voltage switchgear and controlgear assemblies - General requirements	●	-
Class II Insulation	IEC 61439-1: 2011	Low-voltage switchgear and controlgear assemblies Part 1: general rules	-	✓
Strength of materials and parts	IEC 61439-5: 2010	Low-voltage switchgear and controlgear assemblies Part 5: assemblies for power distribution in public networks	●	-
Corrosion resistance C4H*	ISO 12.944: 1999	Paints and varnishes-corrosion protection of steel structures by protective paint systems Part 6: laboratory performance testing methods	-	✓
Climatic test, Biological Test, Resistance against chemically and mechanical active substances. Mechanical test, Lifting and stiffness test	IEC 61969-3: 2011	Electronic "Mechanical structures for electronic equipment - Outdoor enclosures" Part 3: environmental requirements, tests and safety aspects	●	-
Space for electronics	IEC 60297-3-100: 2009	Mechanical structures for electronic equipment Dimensions of mechanical structures of the 482.6 mm (19 in) series - Part 3-100: basic dimensions of front panels, subracks, chassis, racks and cabinets	-	✓
Dimensional	EIA-310-E	Cabinets, Racks, Panels, and associated equipment	-	✓
Fire resistance	EN 1794-2:2011	Vandalism: fire resistance	-	✓
Posting	Internal test	Door anti-posting internal test	-	✓
Single door: types 1, 2, 3, 3R, 4, 4X, 5, 12 & 13 Double door: types 1, 2, 3, 3R, 5, 12 & 13	UL 508 A: 2007	Standard for Industrial Control Panels	●	-
STEEL				
Spacial SFHD (floor-standing enclosures)				
IP55, IK10, lifting: 1000 kg max.	IEC 62208: 2011	Empty enclosures for low-voltage switchgear and controlgear assemblies - General requirements	●	-
Strength of materials and parts	IEC 61.439-5: 2010	Low-voltage switchgear and controlgear assemblies Part 5: Assemblies for power distribution in public networks	●	-
Corrosion resistance C4H	ISO 12.944: 1999	Paints and varnishes-corrosion protection of steel structures by protective paint systems Part 6: laboratory performance testing methods	●	-
Climatic test, Biological Test, Resistance against chemically and mechanical active substances. Mechanical test, Lifting and stiffness test	IEC 61969-3: 2011	Electronic "Mechanical structures for electronic equipment - Outdoor enclosures" Part 3: environmental requirements, tests and safety aspects	●	-
Space for electronics	IEC 60297-3-100: 2009	Mechanical structures for electronic equipment Dimensions of mechanical structures of the 482.6 mm (19 in) series - Part 3-100: basic dimensions of front panels, subracks, chassis, racks and cabinets	-	✓
Dimensional	EIA-310-E	Cabinets, Racks, Panels, and associated equipment	-	✓
Single door: types 1, 3R, 12 Double door: types 1, 3R, 12	UL 508 A: 2007	Standard for Industrial Control Panels	●	-
Spacial S3HD (wall-mounting enclosures)				
IP66, IK10, lifting: 200 kg max.	IEC 62208: 2011	Empty enclosures for low-voltage switchgear and controlgear assemblies - General requirements	●	-
Strength of materials and parts	IEC 61.439-5: 2010	Low-voltage switchgear and controlgear assemblies Part 5: Assemblies for power distribution in public networks	●	-
Corrosion resistance C4H	ISO 12.944: 1999	Paints and varnishes-corrosion protection of steel structures by protective paint systems Part 6: laboratory performance testing methods	●	-
Climatic test, Biological Test, Resistance against chemically and mechanical active substances. Mechanical test, Lifting and stiffness test	IEC 61969-3: 2011	Electronic "Mechanical structures for electronic equipment - Outdoor enclosures" Part 3: environmental requirements, tests and safety aspects	●	-
Space for electronics	IEC 60297-3-100: 2009	Mechanical structures for electronic equipment Dimensions of mechanical structures of the 482.6 mm (19 in) series - Part 3-100: basic dimensions of front panels, subracks, chassis, racks and cabinets	-	✓
Dimensional	EIA-310-E	Cabinets, Racks, Panels, and associated equipment	-	✓
Single door: types 1, 2, 3, 3R, 4, 4X, 5, 12 & 13	UL 508 A: 2007	Standard for Industrial Control Panels	●	-

* It affects the painted accessories (ventilated roof, anti-burglary kit). All other metallic parts have special treatment to pass the same test.

Outdoor Heavy Duty enclosures

Certifications

Test description	Standard	Standard title	Certification	Declaration
HD ACCESSORIES				
HD THERMAL MANAGEMENT				
Fanbox				
NSYCVF Series are intended for mounting on the flat surface of a Type 12 enclosure	UL 508A CAN/CSA-C22.2 No. 14, CAN/CSA C22.2 No. 94-M91 CAN/CSA C22.2 No. 73	Industrial Control Panels Industrial Control Equipment Special Purpose Enclosures Electrically Equipped Machine Tools	●	-
IP55 HD Metal grille (NSYCAG223LFHD)				
IP55 (in conditions of use)	IEC 60529: 2013	Degrees of protection provided by enclosures (IP Code)	-	✓
Corrosion resistance C4H	ISO 12.944: 1999	Paints and varnishes-corrosion protection of steel structures by protective paint systems - part 6: laboratory performance testing methods	●	-
Anti-vandalism kit for HD metal grille (NSYCAAPVHD)				
Resistance Class 2	ENV 1627:2011	Burglar resistance - Requirements and classification	●	-
Upper ventilation module (PHD / SFHD / S3HD)				
IP55 (in conditions of use)	IEC 60529: 2013	Degrees of protection provided by enclosures (IP Code)	-	✓
Corrosion resistance at level C4H	ISO 12.944: 1999	Paints and varnishes-corrosion protection of steel structures by protective paint systems Part 6: laboratory performance testing methods	●	-
HD POLYESTER ENCLOSURES				
Anti-burglary accessory (NSYBGN***HD)				
Resistance Class 2	ENV 1627:2011	Burglar resistance - Requirements and classification	●	-
Corrosion resistance at level C4H	ISO 12.944: 1999	Paints and varnishes-corrosion protection of steel structures by protective paint systems Part 6: laboratory performance testing methods	●	-
ZZ plinths (NSYZZ*** & NSYZZ***VHD)				
ZZ Plinth: IP44 (in conditions of use) Ventilated ZZ Plinth: IP43 (in conditions of use)	IEC 60.529:2013	Degrees of protection provided by enclosures (IP Code)	-	✓
Eyebolts (NSYPLHD)				
Maximum load 500Kg	IEC 62208: 2011	Empty enclosures for low-voltage switchgear and controlgear assemblies - General requirements	-	✓
HD STEEL ENCLOSURES				
Stainless steel plinths (NSYSPFVX*** / NSYSPLVX*** / NSYSPSX*** / NSYSPSX***)				
Ventilated plinth: IP20 (in conditions of use) Standard plinth: IP30 (in conditions of use)	IEC 60.529:2013	Degrees of protection provided by enclosures (IP Code)	-	✓

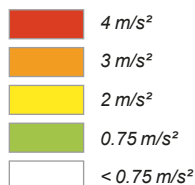
Seismic and nuclear enclosures

Introduction

New

SF

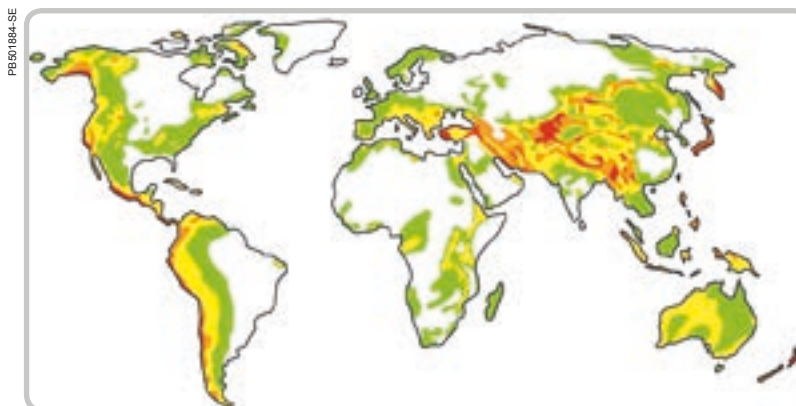
S3D



The seismic risk

No point of the globe is immune to an earthquake. However, the probability of being subjected to an earthquake of a given intensity varies from one location to another.

The map below, taken from IEC 60721-2-6 (Figure 5), shows the distribution of the seismic risk on the 5 continents.



Spacial enclosures faced with seismic risk

■ Spacial standard range solutions

The Spacial standard offers have been qualified for use in areas subject to medium intensity earthquakes (ground acceleration $\leq 3 \text{ m/s}^2$).

For details of the seismic resistance of the standard offers, see in each chapter for the following offers:

- S3D, CRN, CRNG et 19" wall mounting enclosures,
- SBM industrial boxes,
- SF enclosures (automation and monitoring/control),
- SFP enclosures (functional system for low-voltage electricity distribution),
- 19" SF enclosures (pivoting rack).

■ Enclosures for strong earthquakes

In order to meet the requirements of high-seismic zones (ground acceleration $\geq 4 \text{ m/s}^2$), Schneider Electric has developed 3 offers:

- floor-standing enclosures SF 6G and SFP 5G,
- wall-mounting enclosure S3D 6G,
- wall-mounting enclosure S3D 6G K3 meeting the requirements of the nuclear power industry specified by EDF (Electricité de France) and the ASN (Agence de Sûreté Nucléaire).

■ Certifications

All tests have been performed according to the following technical regulations:

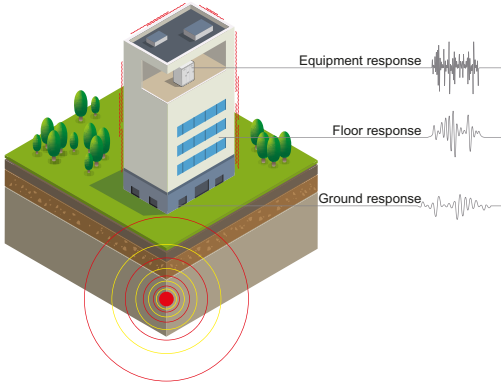
- IEC 60068-3-3 (first edition): International standard. Environmental testing – Part 3 : Guidance – Seismic test methods for equipment
 - CRT 91-C-112-00: Seismic resistance of equipment
- Generic provisions for bi-axial testing using accelerograms
- IEC 60980: Recommended practices for seismic qualification of electrical equipment of the safety system for nuclear generating stations

Seismic and nuclear enclosures

Introduction

New

SF S3D



Technical information

Seismic standards

There is no single international standard. The standards depend on each country/ zone and are linked to civil engineering standards.

The main ones are:

- International Building Code (I.B.C. Ex UBC)
- IEC 60068-3-3,
- EDF specification CRT 91C11200 (ex-HN-20-E-53)
- GR CORE 63 Telcordia

The Spacial enclosures have been tested according to standards IEC 60068-3-3 and CRT 91-C-112-00.

CRT 91-C-112-00 is one of the most restrictive specifications, and for which it is therefore more difficult to obtain certification.

To define the seismic resistance of equipment, it is necessary to take into account the geological characteristics of the earthquake and the behavior of the building, and compare these with the equipment's seismic performance.

Definitions

Ground acceleration: Ground acceleration resulting from an earthquake.

Note: In practice, ground acceleration can be broken down into horizontal and vertical components.

Floor acceleration : Ground acceleration measured on a particular floor in a building (at the location of an equipment item).

Note: In practice, floor acceleration can be broken down into horizontal and vertical components.

Required response spectrum (RRS): Representation of the amplification of the ground acceleration caused by the structure or equipment according to the wave frequency. Used for determining equipment dimensions and qualifying the equipment.

Test response spectrum (TRS): Representation of the amplification of tested products during tests on vibrating table.

Two parts are defined in the response spectra:

■ **Floor part:** On the product zone in contact with the vibrating table there is no amplification of the acceleration. The acceleration value recorded for the spectrum is that measured on the ground.

■ **Strong part:** The acceleration value recorded for the spectrum is the maximum amplified acceleration expected at the center of gravity of the equipment. This is not a measurable quantity but a mathematical representation.

Conclusion: The TRS values are to be compared with the RRS values. If they are greater, the equipment will resist the effects of the earthquake.

1 • Geology

Equivalence between scales characterizing the earthquake

MSK	Richter	IEC 60068-3-3 (ground acc.)
<VIII	< 5,5	2 m/s ²
VIII to IX	≥ 5,5 and ≤ 7	3 m/s ²
>IX	> 7	5 m/s ²

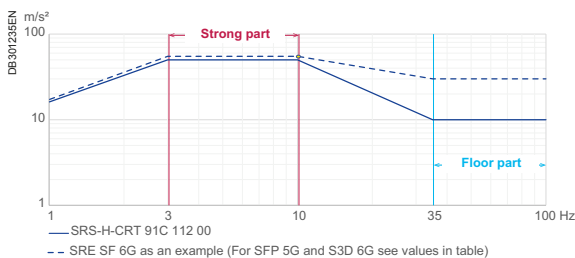
* Anticipating the possible rise in the RRS level in a subsequent revision of CRT 91 C 112.

2 • Civil engineering

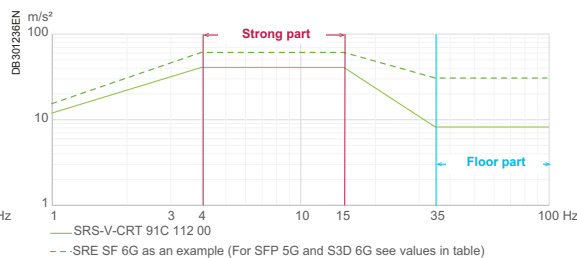
Example acceleration levels on the floor of a building (RRS)

All types of building (IEC 60068-3-3)	EDF specification for nuclear power plant ⁽¹⁾
6 m/s ²	
9 m/s ²	10 m/s ² - 8 m/s ²
15 m/s ²	20 m/s ² - 24 m/s ² *

3 • Equipment performance tested according to CRT 91 C 112 00



Products	Floor part acc	Strong part acc
SFP 5G	20 m/s ²	50 m/s ²
SF 6G*	30 m/s ²	50 m/s ²
S3D 6G*	30 m/s ²	55 m/s ²



Products	Floor part acc	Strong part acc
SFP 5G	20 m/s ²	40 m/s ²
SF 6G*	30 m/s ²	60 m/s ²
S3D 6G*	40 m/s ²	80 m/s ²

Seismic and nuclear enclosures

Introduction

New

SF

> The **Spacial SF 6G** enclosures have been designed to withstand earthquakes corresponding to UBC Zone 4.



Spacial SF 6G for seismic risks

PB503482



Panel mounting

- 12 fastening points by M6 screws per panel.

PB503489



Plinths

- Enhanced mechanical strength (monobloc structure).
- Assembled on the enclosure.
- Floor fixing: 10 fastening points by M12 screws.

PB502834-17



PB503461



Security locking system

- Seismic locking system.
- Special connecting rods and handle to prevent any accidental door opening under severe vibration conditions.

PB503483



Multi-purpose corners

- To strengthen the enclosure and respond to seismic risks.
- To strengthen fastening of the side panels and rear panel.
- To fasten the door connecting rods.

Seismic and nuclear enclosures

Characteristics

New

SF

Spacial SF 6G for seismic risks



Characteristics	Spacial SF 6G
	Enclosures designed to be installed in UBC Zone 4. They have been tested with a plain mounting plate and 19" rack. Integrated plinth.
Material	Steel
Supply	<p>Framework</p> <ul style="list-style-type: none"> ■ 1 upper frame with roof ■ 1 lower frame ■ 1 rear panel ■ 4 uprights ■ 8 multi-purpose reinforcement corners ■ 8 cross rails fastened to the framework contributing to the seismic resistance (3 left, 3 right, 2 rear) <p>Plinth</p> <ul style="list-style-type: none"> ■ Monobloc base 4 mm thick, 100 mm high <p>Door</p> <ul style="list-style-type: none"> ■ Plain door with EDF 1600 captive key lock □ 3 fastening points with connecting rods □ Door hinges on right (opposite direction available on request) <p>Coupling</p> <ul style="list-style-type: none"> ■ Possibility to couple SF 6G enclosures with the coupling kits ref. NSYSFBK19 + NSYSFBKR ■ Possibility to couple plinth with the ref. NSYPLK6G
Ingress protection rating	IP55 according to IEC 60529
Mechanical protection rating	IK10 according to IEC 62262
Maximum load	80 kg/m ² on plain mounting plate 250 kg on 19" fixed uprights in compliance with the IEC 61587-2 standard
Standards	IEC 62208 (enclosure) - IEC 60068-3-3 (seismic methods to apply for materials)
Certifications	6G certification as per CRT 91-C-112-00 (EDF) - UL 508 types 1, 3R, 12
Dimensions H x W x D (mm)	References
2000 x 600 x 400	NSYSF6G20640
2000 x 600 x 600	NSYSF6G20660
2000 x 600 x 800	NSYSF6G20680
2000 x 800 x 400	NSYSF6G20840
2000 x 800 x 600	NSYSF6G20860
2000 x 800 x 800	NSYSF6G20880

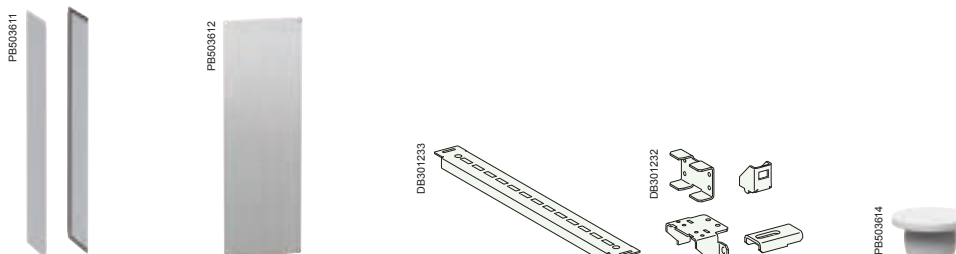
Seismic and nuclear enclosures

Characteristics and accessories

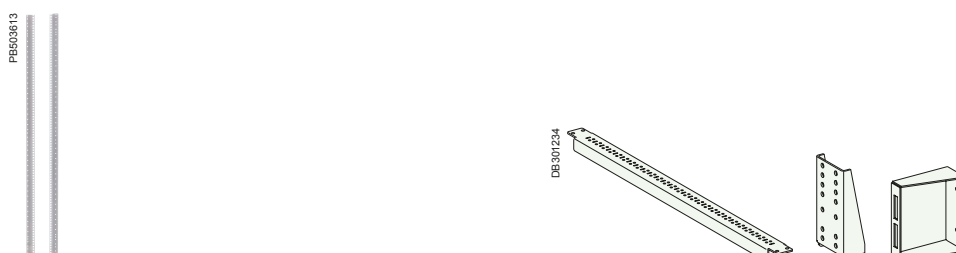
New

SF

Spacial SF 6G for seismic risks



Characteristics	Side panels	Mounting plate	Reinforced fixing kit for mounting plate		Trim cap for SF 6G panels
	Specific panels for Spacial SF 6G. Direct fastening from the outside.	-			Trim cap for side and rear panels, external fastening.
Material	Steel	Galvanised steel	Zinc-coated steel	Steel	Plastic
	12 fastening points	Mounting plate to be installed with NSYSFPB6G fastening kit + NSYHLCR cross-rails			-
Supply	2 side panels and fasteners	1 mounting plate and sliding shoes	2 cross rails and fixing elements	<ul style="list-style-type: none"> ■ 6 anti-vibration supports ■ 4 mounting brackets ■ 4 supports ■ 2 connectors and fixing elements 	50 units
Dimensions H x W x D (mm)	References				
2000 x 600 x 400	NSY6G2SP204	NSYMP206	NSYHLCR40	NSYSFPB6G	NSYCSP6G
2000 x 600 x 600	NSY6G2SP206		NSYHLCR60		
2000 x 600 x 800	NSY6G2SP208		NSYHLCR80		
2000 x 800 x 400	NSY6G2SP204	NSYMP208	NSYHLCR40		
2000 x 800 x 600	NSY6G2SP206		NSYHLCR60		
2000 x 800 x 800	NSY6G2SP208		NSYHLCR80		



Characteristics	19" fixed uprights	Reinforced fixing kit for 19" fixed uprights
	Uprights designed to be assembled on enclosures 800 mm wide and 800 mm deep.	-
Material	Zinc-coated steel	Steel
Fixing	To fasten the 19" uprights, it is necessary to use the fixing kit NSYRCK19KIT6G	-
Supply	2 uprights and fasteners	<ul style="list-style-type: none"> ■ 4 cross rails ■ 8 fastening brackets ■ 4 reinforcements ■ Fixing elements
Dimensions H x W x D (mm)	References	
2000 x 800 x 800	NSYRCK42 (1)	NSYRCK19KIT6G

(1) Set of 2 uprights. For a 19" seismic configuration, 4 uprights must be used.

Seismic and nuclear enclosures

Characteristics and accessories

New

SF

Spacial SF 6G for seismic risks



Characteristics	Optional locks for cubicle
	With captive key.
Material	Polyamide handle, metal connecting rods and cam
Supply	3-point lock with 1 lock button and 1 cremone bolt
References	
EDF 900	NSYAEDLEDF9K33
EDF 1300	NSYAEDLEDF13K33
EDF 1400	NSYAEDLEDF14K33
1242E	NSYAEDL1242K33
405E	NSYAEDL405K33
455E	NSYAEDL455K33

Local seismic standards: conformity with acceleration severity levels

Standards	Specifications
EDF book of technical rules CRT 91C11200	"Large equipment" MRI RRS: <ul style="list-style-type: none"> ■ Horizontal: <ul style="list-style-type: none"> □ Floor acceleration = 2 g □ Amplified max. acceleration at center of gravity = 5 g ■ Vertical: <ul style="list-style-type: none"> □ Floor acceleration = 2.4 g □ Amplified max. acceleration at center of gravity = 6 g
EAK 2000 Greece	Seismic risk zone: IV Importance category: S4
ENDESA 1986	All seismic categories Ground acceleration = 0.5 g
RPA 99 2003 Algeria	All types of soil class Ground acceleration factor A = 0.36 Behavior factor R = 2 Quality factor Q = 1.35
Core GR 63	Zone 4
Turkish Seismic Code 2009	All types of site class Importance factor = 1.5 Ground acceleration factor: A0 = 0.4
GOST 17516.1-90 Russia	Civil market: MSK intensity 9, level 3. Nuclear market: MSK intensity 9, level 2.
IEEE 693-2005	High level
Eurocode 8	All soil types agR = 3 m/s ² Importance factor = 1.3

Seismic and nuclear enclosures

Customized offer

New

SF

Spacial SF 6G for seismic risks

1 > Special dimensions available on demand

Busbar compartment enclosure

Height

2200	600
2000	500/600/800, 400/500/600/800
1800	400/500/600
1600	
1400	
1200	

Available depths

300	400	600	800
-----	-----	-----	-----

Width

Enclosure equipped with plain mounting plate

Height

2200	600/800, 600/800
2000	500, 500
1800	400/500/600/800, 400/500/600
1600	600/800, 600/800
1400	400, 400
1200	400/600, 400/600

Available depths

300	400	600	800
-----	-----	-----	-----

Width

Enclosure equipped with 19" fixed rack

Height

2200	800
2000	
1800	600
1600	800
1400	
1200	

Available depths

300	400	600	800
-----	-----	-----	-----

Width

Seismic and nuclear enclosures

Customized offer

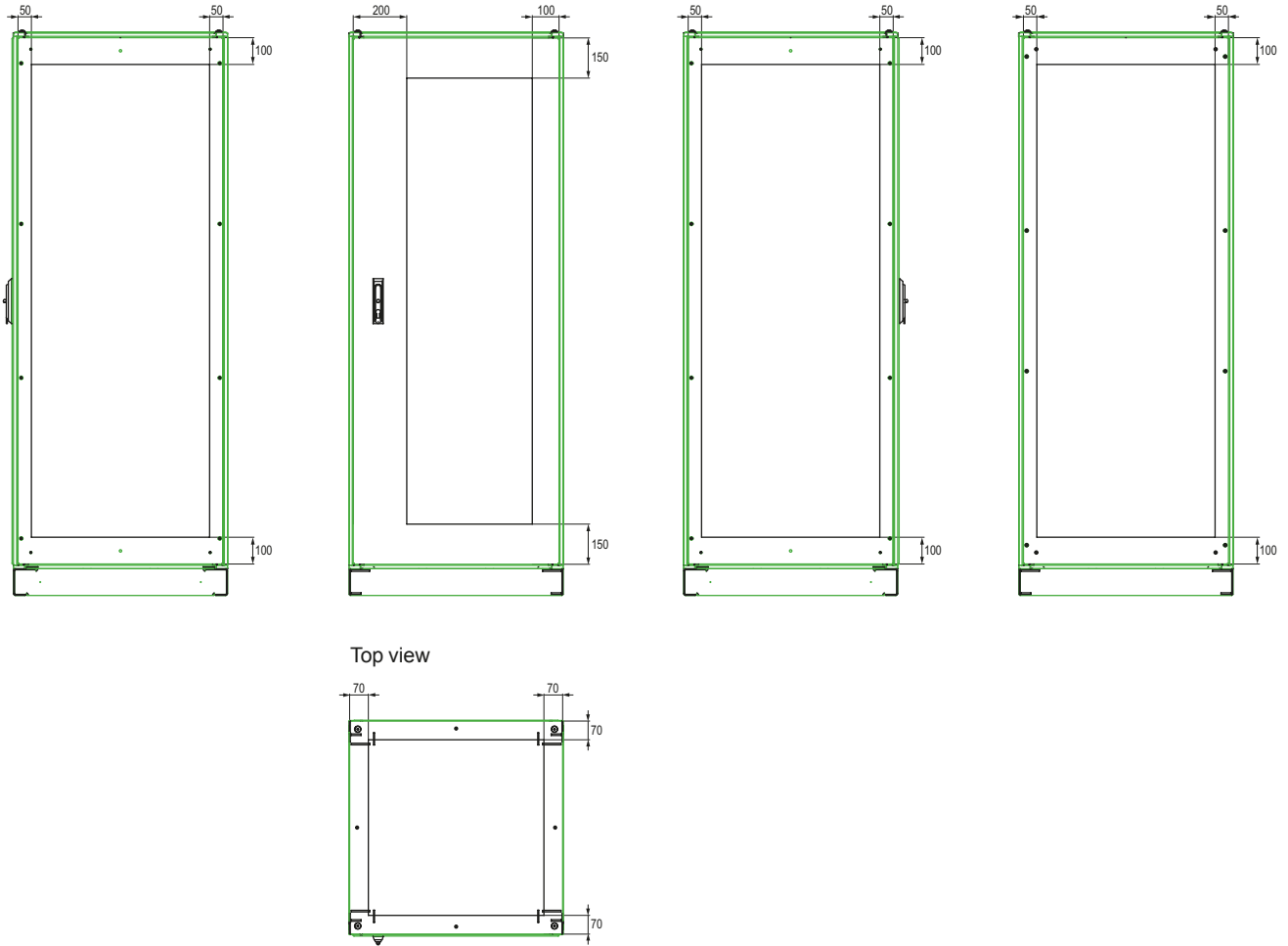
New

SF

Spacial SF 6G for seismic risks

2 > Cut-outs

Customization areas guaranteeing 6G resistance



Seismic and nuclear enclosures

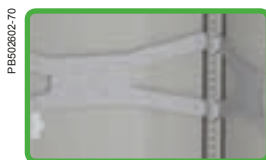
Introduction

SF

> The **Spacial SFP 5G** enclosures (functional system for low-voltage electricity distribution) have been designed to withstand earthquakes corresponding to UBC Zone 4.



Spacial SFP 5G for seismic risks



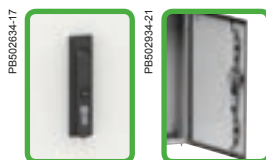
Reinforced crosspieces

- Two reinforced crosspieces ensure the structure's mechanical strength.



Panel mounting

- Mounting systems prevent loosening of the screws.



Security locking system

- Seismic locking system.
- Special bars and handle to prevent any accidental door opening under severe vibration conditions.



Reinforced plinths

- New reinforced monobloc plinths.



Tested with Schneider Electric devices

Seismic and nuclear enclosures

Characteristics

SF

Spacial SFP 5G for seismic risks



Characteristics		Spacial SFP 5G			
		Enclosures designed to be installed in UBC Zone 4. Monobloc base to enhance the structure's mechanical strength. 2 configurations with devices have been tested: 1600 A and 3200 A.			
Material		Steel			
Supply		Framework <ul style="list-style-type: none"> ■ Reinforcing cross for improved structural strength ■ 4 uprights fitted with Rivkle nuts 			
Ingress protection rating		IP55 according to IEC 60529			
Mechanical protection rating		IK10 according to IEC 60262			
Maximum load		350 kg for configuration 1800 A 450 kg for configuration 3200 A			
Standards		IEC 62208 (enclosure) - IEC 60068 (seismic methods to apply for materials)			
Certifications		6G certification as per CRT 91-C-112-00 (EDF) - UL 508 types 1, 3R, 12			
Cubicle dimensions		Configuration		References	
H x W x D (mm)	(A)	Enclosure with plain door	Compartment for busbars with plain door	Side panels	100 mm plinth
2000 x 700 x 500	1600	NSYSFP5G20750	-	NSY5G2SP205	NSYS5GPC75
2000 x 300 x 500	1600	-	NSYSF5G20350	NSY5G2SP205	NSYS5GPC35
2000 x 700 x 800	3200	NSYSFP5G20780	-	NSY5G2SP208	NSYS5GPC78
2000 x 300 x 800	3200	-	NSYSF5G20380	NSY5G2SP208	NSYS5GPC38

NB: - The width (300 mm) of the Spacial SFP 5G cubicle for the busbar duct is not compatible with the Spacial SF 5G cubicle.
- The customer must ensure good cubicle/base connection.

Seismic and nuclear enclosures

Characteristics

SF

Spacial SFP 5G for seismic risks

Local seismic standards: conformity with acceleration severity levels

Standards or specifications	Specifications
EDF book of technical rules CRT 91C11200	Required response spectrum: <ul style="list-style-type: none"> ■ Horizontal: <ul style="list-style-type: none"> □ Floor acceleration = 1 g □ Amplified max. acceleration at center of gravity = 5 g ■ Vertical: <ul style="list-style-type: none"> □ Floor acceleration = 0,8 g □ Amplified max. acceleration at center of gravity = 4 g
EAK 2000 Greece	Seismic risk zone: IV Importance category: S4
ENDESA 1986	All seismic categories Ground acceleration = 0.5 g
RPA 99 2003 Algeria	All types of soil class Ground acceleration factor A = 0.36 Behavior factor R = 2 Quality factor Q = 1.35
Core GR 63	Zone 4
Turkish Seismic Code 2009	All types of site class Importance factor = 1.5 Ground acceleration factor: A0 = 0.4
GOST 17516.1-90 Russia	Civil market: MSK intensity 9, level 2. Nuclear market: MSK intensity 9, level 0.
IEEE 693-2005	High level
Eurocode 8	All soil types agR = 3 m/s ² Importance factor = 1.3

Seismic and nuclear enclosures

Accessories

SF

SF enclosures for seismic risks

Compatibility of accessories

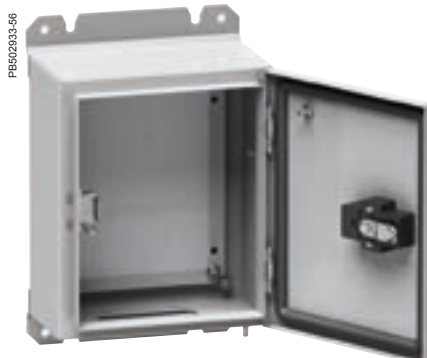
Accessories		SF 6G compatibility	SFP 5G compatibility	Comments
Trade references impacted	Description		(Prisma system)	
NSYSDT●	Folding mounting shelf	Please contact us	Compatible	Depends on size
NSYSDP●M	Metal document holder	Please contact us	Compatible	Depends on size
NSYDPA●●	Plastic document holder	Compatible	Compatible	-
NSYMP●●●	Mounting plate	Compatible	-	Position 200 mm mini from the rear panel
NSYSUCR●●	Universal cross rail	Compatible	-	-
NSYSQCR●●	Quick cross rail	Compatible	-	-
NSYSICR●●	Integrated cross rail	Compatible	-	-
NSYHLCR●●	Cross rail for heavy loads	Compatible	-	-
NSYSLCR●●	Light cross rail	Compatible	-	-
NSYFXT●●●●	Fixed Trays	Compatible	-	-
NSYSPMP●	Partial plain mounting plate	Compatible	-	-
NSYSTMP●●	Telequick mounting plate	Compatible	-	-
NSYSDCR●●	Door cable-guide cross-rail	Compatible	Compatible	Select the smaller-sized cross rail

Seismic and nuclear enclosures

Introduction

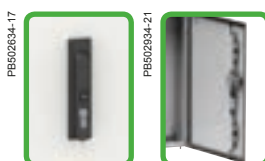
S3D

> **Spacial S3D 6G** cubicles are designed to withstand earthquakes up to UBC zone 4.



Strength

- Panel thickness:
- Casing + door: 20/10 mm;
- Entry flange: 15/10 mm.



Security locking system

- EDF 1600 security locking system with captive key.



Reinforced mounting plate

- Mounting plate reinforcement.
- Increased number of attachment points.



Wall mounting

- Reinforced bracket for wall mounting.

Seismic and nuclear enclosures

Characteristics, accessories

S3D

Spacial S3D 6G solutions for seismic risks



Characteristics	Spacial S3D 6G
	Seismic applications up to UBC zone 4.
Material	Steel
Supply	Body <ul style="list-style-type: none"> ■ Monobloc casing (cross structure). Gutter-shaped front profile. Flat back ■ M6 x 16 earthing screws and earth strap for equipotential connection between the cubicle door and casing ■ Entry flange ■ Maximum load: 10 kg Door <ul style="list-style-type: none"> ■ Plain door with EDF 1600 captive key lock □ H < 600: 1 fastening point □ H ≥ 600: 3 fastening points ■ Non-reversible door (for reversibility, please contact us) ■ M6 x 16 earthing screws and earth strap for equipotential connection between the cubicle door and casing ■ 120° door opening ■ Maximum load: 10 kg Mounting plate <ul style="list-style-type: none"> ■ Mounting plate galvanized before mounting ■ Maximum load: 80 kg/m² Two wall mounting brackets
Ingress protection rating	IP65 according to IEC 60529
Mechanical protection rating	IK10 according to IEC 62262
Standards	IEC 62208 (enclosure) - IEC 60068-3-3 (seismic methods to apply for materials)
Certifications	6G certification as per CRT 91-C-112-00 (EDF)
Dimensions H x W x D (mm)	References
300 x 250 x 150	NSYS3D6G32515P
400 x 300 x 200	NSYS3D6G4320P
600 x 500 x 250	NSYS3D6G6525P
700 x 500 x 250	NSYS3D6G7525P
800 x 600 x 300	NSYS3D6G8630P
1200 x 800 x 400	NSYS3D6G12840P

NB: The customer must ensure good cubicle/base connection.



Characteristics	Locks for cubicle		Padlocking lug
	≤ H 600	> H 600	
	With captive key.	With captive key.	Securing of cubicle access.
Material	Zamak lock and metal cam	Polyamide handle, metal connecting rods and cam	White galvanized steel
Supply	1- or 3-point lock with 1 lock button and 1 cremone bolt	3-point lock with 1 lock button and 1 cremone bolt	-
References			NSYAEDLPADS3DK3
-	-	-	-
EDF 900	NSYAEDLEDF9K31	NSYAEDLEDF9K33	-
EDF 1300	NSYAEDLEDF13K31	NSYAEDLEDF13K33	-
EDF 1400	NSYAEDLEDF14K31	NSYAEDLEDF14K33	-
1242E	NSYAEDL1242K31	NSYAEDL1242K33	-
405E	NSYAEDL405K31	NSYAEDL405K33	-
455E	NSYAEDL455K31	NSYAEDL455K33	-

Seismic and nuclear enclosures

Characteristics

S3D

Local seismic standards: conformity with acceleration severity levels

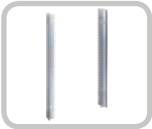

Standards	Specifications
EDF book of technical rules CRT 91C11200	"Large equipment" MRI RRS: <ul style="list-style-type: none"> ■ Horizontal: <ul style="list-style-type: none"> □ Floor acceleration = 2 g □ Amplified max. acceleration at center of gravity = 5 g ■ Vertical: <ul style="list-style-type: none"> □ Floor acceleration = 2.4 g □ Amplified max. acceleration at center of gravity = 6 g
EAK 2000 Greece	Seismic risk zone: IV Importance category: S4
ENDESA 1986	All seismic categories Ground acceleration = 0.5 g
RPA 99 2003 Algeria	All types of soil class Ground acceleration factor A = 0.36 Behavior factor R = 2 Quality factor Q = 1.35
Core GR 63	Zone 4
Turkish Seismic Code 2009	All types of site class Importance factor = 1.5 Ground acceleration factor: A0 = 0.4
GOST 17516.1-90 Russia	Civil market: MSK intensity 9, level 3. Nuclear market: MSK intensity 9, level 2.
IEEE 693-2005	High level
Eurocode 8	All soil types agR = 3 m/s ² Importance factor = 1.3

Seismic and nuclear enclosures

Accessories

S3D

Table of Compatibility of accessories in 6G seismic S3D cubicles

Accessories		Compatibility	Comments
Trade references impacted	Description		
 <p>PB500322-11</p>	<p>NSYVDM●●●●</p> <p>19" rack</p>	Limited	Conditions: Drilling by customization department to be provided for
 <p>ISPA011_010-43</p>	<p>NSYINLCRN</p> <p>Door switch</p>	Limited	Conditions: Drilling by customization department to be provided for
 <p>PB500083-29</p>	<p>NSYDPA●●</p> <p>Diagram holder</p>	Yes	-
 <p>PB500338-24</p>	<p>NSYAELYTCRG8</p> <p>Lifting rings</p>	Limited	Conditions: Drilling by customization department to be provided for

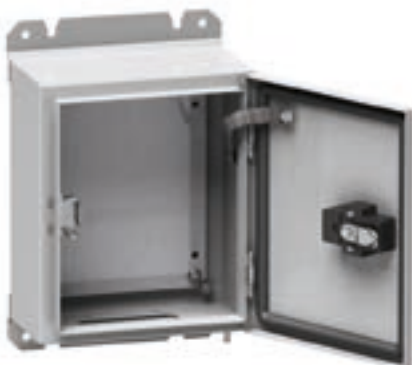
Comment: None of the accessories are certified 6G.

Seismic and nuclear enclosures

Introduction

➤ The **Spacial S3D 6G K3** cubicle meets K3 requirements in accordance with RCCE 2012.

PB502761SE-56



PB502767-58



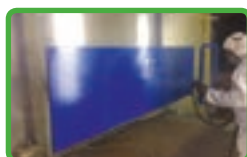
PB502761SE-102



Strength

- Panel thickness:
- Casing + door: 20/10 mm;
- Entry flange: 15/10 mm.

PB502773-32



Decontaminatable smooth paint, PID 100 series

- In compliance with CCTR 91.C.031.06 Two coats of paint (minimum thickness: 60 μ).
- Epoxy-polyester powder, PID 100 series.
- PIA-PIC 100 on request.

PB502634-17



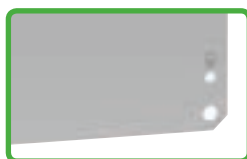
PB502769-8



Security locking system

- EDF 1600 security locking system with captive key.

PB502766-41



Reinforced mounting plate

- Mounting plate reinforcement.
- Increased number of attachment points.

PB502770-36



Earth continuity

Earth continuity between the interior and exterior of the cubicle is provided by 2 opposite welded studs (external earth screw principle).

PB502761SE-56



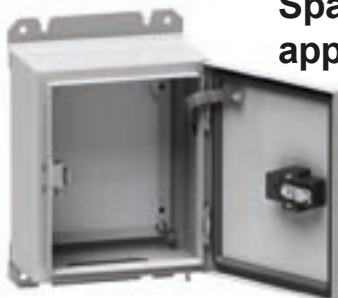
Wall mounting

- Reinforced bracket for wall mounting.

Seismic and nuclear enclosures

Characteristics, accessories

PB50276 SE-46



Spacial S3D 6G K3 solutions for nuclear applications

Characteristics	Spacial S3D 6G K3
	Seismic application for nuclear power station.
Material	Steel
Supply	Body <ul style="list-style-type: none"> ■ Monobloc casing (cross structure). Gutter-shaped front profile. Flat back ■ M6 x 16 earthing screws and earth strap for equipotential connection between the cubicle door and casing ■ Entry flange ■ Maximum load: 10 kg Door <ul style="list-style-type: none"> ■ Plain door with EDF 1600 captive key lock □ H < 600: 1 fastening point □ H ≥ 600: 3 fastening points ■ Non-reversible door (for reversibility, please contact us) ■ M6 x 16 earthing screws and earth strap for equipotential connection between the cubicle door and casing ■ 120° door opening ■ Maximum load: 10 kg Mounting plate <ul style="list-style-type: none"> ■ Mounting plate galvanized before mounting ■ Maximum load: 80 kg/m² Two wall mounting brackets
Ingress protection rating	IP65 according to IEC 60529
Mechanical protection rating	IK10 according to IEC 62262
Standards	IEC 62208 - IEC 60068-3-3
Certifications	<ul style="list-style-type: none"> ■ 6G certification as per CRT 91-C-112-00 (EDF) ■ Meets K3 requirements in accordance with RCCE 2012 ■ EDF reference documents: <ul style="list-style-type: none"> □ CCTR paint and FNP file; □ RCC-E: Electrical equipment construction code; □ Packaging technical specification; □ "PMUC" (products and materials used in nuclear generating stations)
Dimensions H x W x D (mm)	References
300 x 250 x 150	NSYS3D32515PK3
400 x 300 x 200	NSYS3D4320PK3
600 x 500 x 250	NSYS3D6525PK3
700 x 500 x 250	NSYS3D7525PK3
800 x 600 x 300	NSYS3D8630PK3
1200 x 800 x 400	NSYS3D12840PK3

PB502763-10



PB502764-6



PB502765

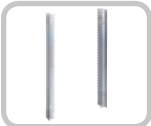





Characteristics	Locks for cubicle		Padlocking lug
	≤ H 600	> H 600	
	With captive key.	With captive key.	Securing of cubicle access.
Material	Zamak lock and metal cam	Polyamide handle, metal connecting rods and cam	White galvanized steel
Supply	1- or 3-point lock with 1 lock button and 1 cremone bolt	3-point lock with 1 lock button and 1 cremone bolt	-
References			NSYAEDLPADS3DK3
-	-	-	-
EDF 900	NSYAEDLEDF9K31	NSYAEDLEDF9K33	-
EDF 1300	NSYAEDLEDF13K31	NSYAEDLEDF13K33	-
EDF 1400	NSYAEDLEDF14K31	NSYAEDLEDF14K33	-
1242E	NSYAEDL1242K31	NSYAEDL1242K33	-
405E	NSYAEDL405K31	NSYAEDL405K33	-
455E	NSYAEDL455K31	NSYAEDL455K33	-

Seismic and nuclear enclosures

Accessories

Table of Compatibility of accessories in S3D 6G K3 cubicles

Accessories		Compatibility	Comments	
	Trade references impacted	Description		
PB500322-11	 NSYVDM●●●●	19" rack	Limited	Conditions: Drilling by customization department to be provided for
ISPA011_010-43	 NSYINLCRN	Door switch	Limited	Conditions: Drilling by customization department to be provided for
PB500063-29	 NSYDPA●●	Diagram holder	Yes	-
PB500338-24	 NSYAELYTCRG8	Lifting rings	Limited	Conditions: Drilling by customization department to be provided for

Comment: None of the accessories are certified 6G K3.

Seismic and nuclear enclosures

Customized offer

1 > Special dimensions

We meet the K3 requirements as per RCCE 2012 for the special dimensions mentioned below. These dimensions appear in the Reference File.

Height	Available depths						200/250/300/400		200/250/300			
1200												
1000												
800							200/250/300		200/250/300			
700							200/250/300		200/300			
600							200/250/300		200/300			
500	150/200		150/200/250		200/250/300		200/250/300					
400	150/200		150/250									
300	200		150/200/250									
	250		300		400		500		600		800	

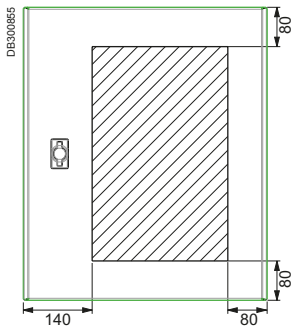
Width

2 > Cut-outs

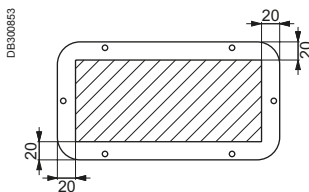
We meet the K3 requirements as per RCCE 2012 for the cut-outs mentioned below. These cut-outs appear in the Reference File.

Customization areas ensuring K3 certification

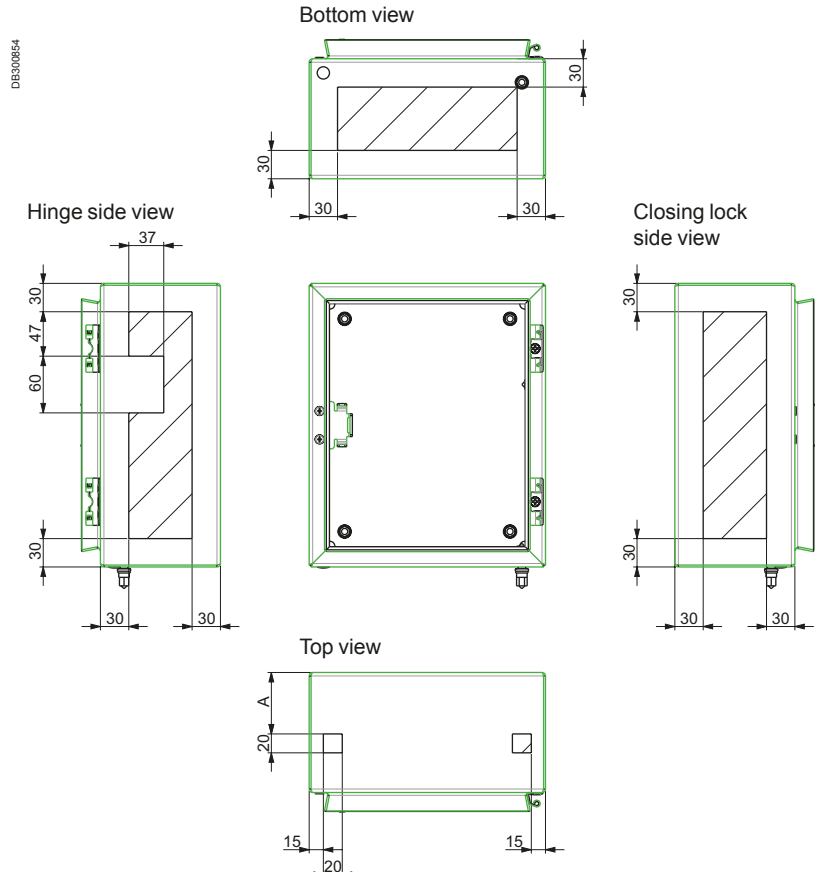
Door



Entry flange



Casing



Depth	A
150	65
200	82
250	98
300	115
400	148

Seismic and nuclear enclosures

Customized offer

3 > Paints

Referencing of the following paints in the FNP (national paint file):

AFNOR / RAL	Colors of PIA-PID 100 series
AFNOR	1550
	1570
	2550
	2570
RAL	1003
	5005
	5024
	7036

AFNOR / RAL	Colors of PIC 100 series
AFNOR	1550
	1570
	2550
	2570
RAL	1003
	5005
	5024
	7036

Others colors available: consult us.

4 > Packaging

We can produce a special corrosion protection packaging (Gardac type).



Seismic and nuclear enclosures

A demanding nuclear market



Our range of **Spacial S3D nuclear** cubicles meets the K3 requirements of RCCE 2012. The Schneider Electric cubicle production plant has established processes to ensure K3 certification.

- > Establishment of a line architecture adapted to the requirements mentioned in RCCE 2012, implying:
 - Hold points;
 - Check points;
 - Control of "AIP" activities that are important for protection

- > Manufacturing completion report with:
 - Declaration of conformity.
 - Monitoring document.
 - Report and test report.

- > Establishment of a Particular Quality Assurance Plan (PQAP)

- > Reference documents for the nuclear industry: RCC-E, CCTR, FNP, packaging technical specification, "PMUC" (products and materials used in nuclear generating stations), SGAQ-2013-03, Arrêté INB 2012

Seismic and nuclear enclosures

A demanding nuclear market

Nuclear safety has 3 objectives

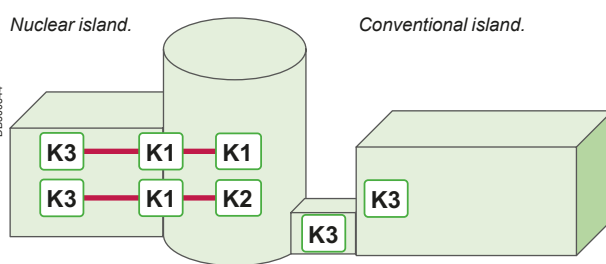


Technical choices and safety rules

The technical choices and safety rules are stipulated by the operator with full responsibility relative to the French nuclear safety authority (ASN) (representing the state) depending on the location in the installation and whether or not they form part of the safety circuits. The products undergo tests to ensure their operation in accidental conditions.



A safety circuit consists of several equipment items. Their certification depends on their location. Equipment interfacing between the core and the other buildings is always K1 (risk of radioactive leakage).



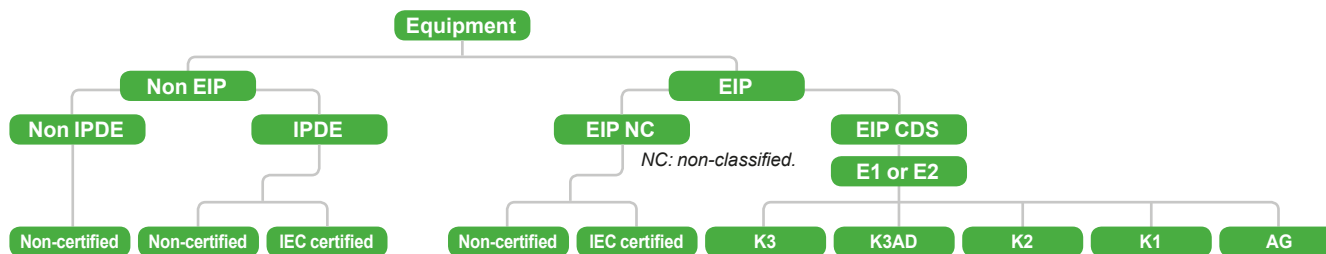
Certifications necessary to work in the nuclear industry

2 certifications are necessary to work in the nuclear industry

- 1• Product and equipment certifications imply demanding performances validated by technical documents and by tests. In the event of a change in the product, it must be **explained and justified** that the initial certification is maintained.
- 2• Certifications of industrial organizations and services related to products and equipment.

The products equipping French nuclear facilities in this catalogue comply with the RCC-E 2012 standard.

Terminology of equipment classifications used in nuclear power stations



EIP: Equipment Important for Protection.
 IPDE: Important for operating availability.
 CDS: safety-classified.
 Schneider is concerned only by E1 (elec. classification).

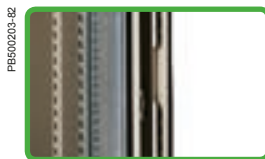
Tests corresponding to specific classifications for EIP equipment

- K3 > ref. tests + functional operating limits + ageing + earthquake
- K3AD > K3 + environmental resistance (irradiation, heat, spraying)
- K2 > K3 + resistance to ageing irradiation (250 Kgy)
- K1 > K2 + resistance to accidental irradiation (600 Kgy) + ADR
- AG > K1 reinforced only for EPR power stations

Electronic application

Introduction

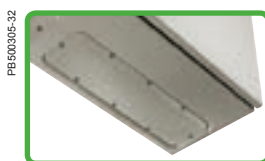
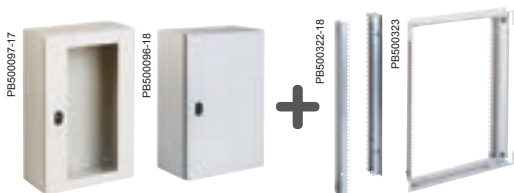
> Spacial VDM



Simplified installation

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.

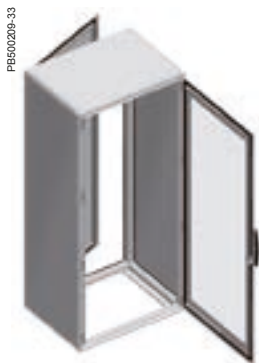
> Spacial S3D



Practical

Cable-gland plates at top and bottom:
 ■ on the rear part (2-bodies enclosure),
 ■ on the body (1-body enclosure).

> Spacial SF



Suitable metal enclosure

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 432.

This range can be configured according to your needs

4 different services available:



Assemble to order



Mounting of standard accessories



Painting



Machining

See page 496 for details or consult our web site www.se.com

Electronic application

Characteristics

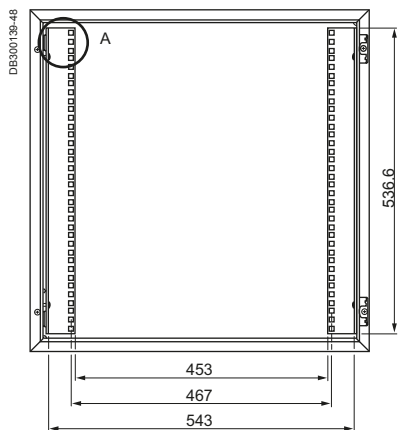


Characteristics				Spacial VDM 19"		
				1-body	2-bodies	
				<ul style="list-style-type: none"> Single-piece body, folded and welded. Front rail with double sheet thickness, gutter-shaped. Perforated rails on the door, with drill holes of Ø 4.2 mm in steps of 25 mm. Transparent door, Securit® glass, 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. Polyurethane gasket. 6 mm² earth connection placed between the door and the body of the enclosure. 		
Material				Steel		
Finish				Structured finish, epoxi-polyester powder		
Colour				RAL 7035 grey		
Ingress protection rating				IP66 according to IEC 60529		
Mechanical protection rating				IK08 according to IEC 62262		
Maximum load				3 kg per unit		2 kg per unit
Other characteristics				<ul style="list-style-type: none"> Enclosure in 2 pieces: body + door Cable-gland plate at the bottom of the enclosure Fixed rack depth-adjustable in steps of 25 mm using the step slides 		Rear <ul style="list-style-type: none"> 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 on the rear part Body <ul style="list-style-type: none"> Usable depth of 183 or 283 mm Two 19" uprights made from treated steel, installed 65 mm back from the front panel Intermediate body installed on the rear with 120° hinge
Supply				Wall-mounting enclosure supplied with 3-mm double-bar lock as standard		Wall-mounting enclosure supplied with 3-mm double-bar lock as standard
Height (mm)	Width (mm)	Depth (mm)	Number of U	Fixed rack	Swing rack	Fixed rack
300	600	380	5	-	-	NSYVD2M5U4
		400	4	-	NSYVDM4U4P	-
		400	5	NSYVDM5U4F	-	-
		480	5	-	-	NSYVD2M5U5
		500	5	-	-	-
400	600	380	8	-	-	NSYVD2M8U4
		400	7	-	NSYVDM7U4P	-
		400	8	NSYVDM8U4F	-	-
		480	8	-	-	NSYVD2M8U5
		500	8	-	-	-
500	600	380	10	-	-	NSYVD2M10U4
		400	9	-	NSYVDM9U4P	-
		400	10	NSYVDM10U4F	-	-
		480	10	-	-	NSYVD2M10U5
		500	10	-	-	-
700	600	380	14	-	-	NSYVD2M14U4
		400	13	-	NSYVDM13U4P	-
		400	14	NSYVDM14U4F	-	-
		480	14	-	-	NSYVD2M14U5
		500	14	-	-	-
800	600	380	17	-	-	NSYVD2M17U4
		400	16	-	NSYVDM16U4P	-
		400	17	NSYVDM17U4F	-	-
		480	17	-	-	NSYVD2M17U5
		500	17	-	-	-

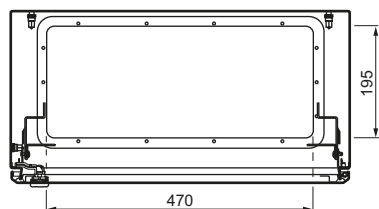
Electronic application Dimensions

1-body 19" enclosure

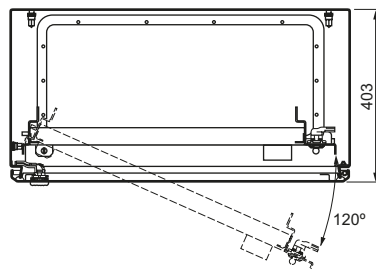
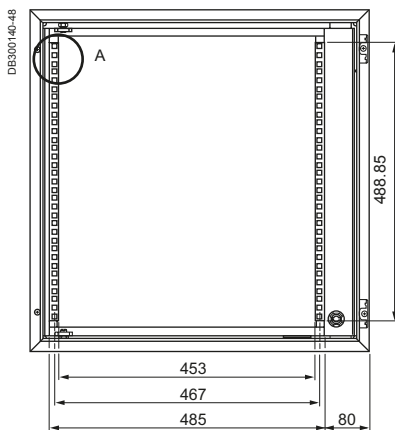
Fixed chassis



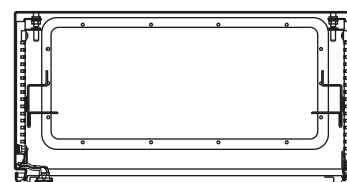
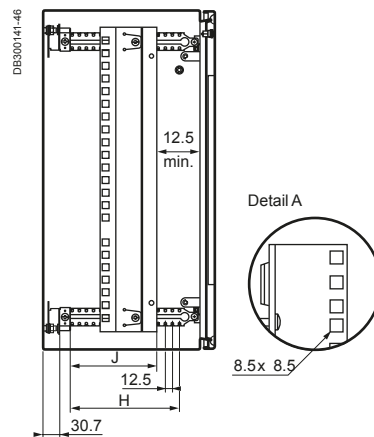
Top view



Swing chassis



Fixed chassis mounted on the step slides



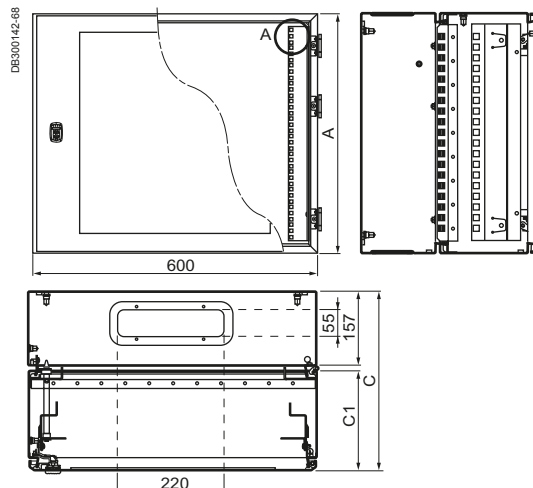
Cable-gland plate 495 x 220 mm.

H (bars) (mm)	J (travel) (mm)
200	100
250	150
300	200
400	300

2-body 19" enclosure

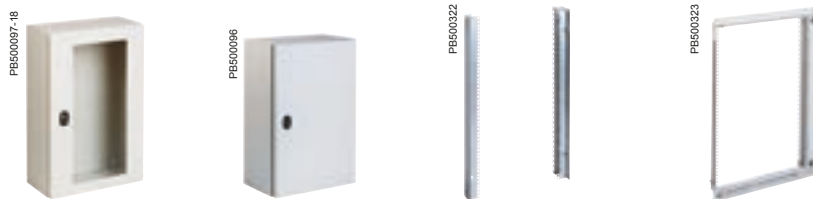
A (mm)	C (mm)	C1 (mm)	References
300	373	183	NSYVD2M5U4
400	373	183	NSYVD2M5U5
500	373	183	NSYVD2M8U4
700	373	183	NSYVD2M8U5
800	373	183	NSYVD2M10U4
300	473	283	NSYVD2M10U5
400	473	283	NSYVD2M14U4
500	473	283	NSYVD2M14U5
700	473	283	NSYVD2M17U4
800	473	283	NSYVD2M17U5

Cable-gland plate S3D type dimensions 245 x 80 mm.



Electronic application

Characteristics



Characteristics			Spacial S3D					
			Empty enclosure		Fixed rack (1)		Swing rack (1)	
			<ul style="list-style-type: none"> Single-piece body (cross-shaped structure). Gutter-shaped front profile with double fold. Flat rear. 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. Glazed door, 4-mm-thick 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 (2). Door opening to 180° with optional hinges (page 66). 		19" fixed chassis composed by 2 19" uprights with fixing hardware. <ul style="list-style-type: none"> Thickness: 20/10° mm. Adjustable in depth by fixing on the step slides in accessories (see page 52). 		19" swing chassis opening to 120° with closure by 3 mm double bar insert.	
Material	Steel		Galvanized steel		Steel			
Finish	Structured finish, epoxy-polyester powder		-		Epoxy-polyester powder			
Colour	RAL 7035 grey		-		RAL 7035 grey			
Ingress protection rating according to IEC 60529	<ul style="list-style-type: none"> IP66 for the single-door enclosures IP55 for the double-door enclosures 		-		-			
Mechanical protection rating according to IEC 62262	<ul style="list-style-type: none"> IK10 for the plain-door enclosures IK08 for the glazed-door enclosures 		-		-			
Maximum load	50 kg/m ²		3 kg per unit		3 kg per unit			
Fixing	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 58)		-		-			
Other characteristics	<ul style="list-style-type: none"> For heights from 600 mm, three locking points with linkage, with a single control point. Simple reversal of linkage A handle is delivered which provides 2 functions: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 2 vertical rails from the height of 400 mm 2 vertical rails and 2 horizontal rails from the width of 800 mm 		-		-			
Supply	Wall-mounting enclosure supplied with 3-mm double-bar lock as standard		-		-			
Height (mm)	Width (mm)	Depth (mm)	Glazed door	Plain door	Number of U		Number of U	
400	600	200	NSYS3D4620T	NSYS3D4620	8	NSYVDM8UF	7	NSYVDM7UP
		250	NSYS3D4625T	NSYS3D4625	8	NSYVDM8UF	7	NSYVDM7UP
600	600	200	NSYS3D6620T	NSYS3D6620	12	NSYVDM12UF	11	NSYVDM11UP
		250	NSYS3D6625T	NSYS3D6625	12	NSYVDM12UF	11	NSYVDM11UP
		300	NSYS3D6630T	NSYS3D6630	12	NSYVDM12UF	11	NSYVDM11UP
		400	NSYS3D6640T	NSYS3D6640	12	NSYVDM12UF	11	NSYVDM11UP
800	600	200	NSYS3D8620T	NSYS3D8620	17	NSYVDM17UF	16	NSYVDM16UP
		250	NSYS3D8625T	NSYS3D8625	17	NSYVDM17UF	16	NSYVDM16UP
		300	NSYS3D8630T	NSYS3D8630	17	NSYVDM17UF	16	NSYVDM16UP
		400	NSYS3D8640T	NSYS3D8640	17	NSYVDM17UF	16	NSYVDM16UP
1000	600	250	NSYS3D10625T	NSYS3D10625	21	NSYVDM21UF	20	NSYVDM20UP
		300	NSYS3D10630T	NSYS3D10630	-	-	-	-
		400	NSYS3D10640T	NSYS3D10640	21	NSYVDM21UF	20	NSYVDM20UP
	800	250	NSYS3D10825T	NSYS3D10825	-	-	20	NSYVDM20U8P
		300	NSYS3D10830T	NSYS3D10830	-	-	20	NSYVDM20U8P
		400	NSYS3D10840T	NSYS3D10840	-	-	20	NSYVDM20U8P
1200	800	300	NSYS3D12830T	NSYS3D12830	-	-	25	NSYVDM25U8P
		400	NSYS3D12840T	NSYS3D12840	-	-	25	NSYVDM25U8P

(1) The racks are to be ordered separately.

(2) From the height of 800 mm.

Electronic application

Accessories overview

Composition accessories

Fixing lugs



Page 58

Post-fixing device



Page 59

Door accessories

Inserts



Page 64

Handle with keys



Page 64

Other locking systems



Page 65

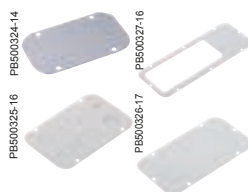
Hinges



Page 66

Cable-entry accessories

Cable-gland plates for Spacial S3D enclosure



Page 68

ISO cable glands



Page 266

Multiple cable entry



Page 259

Electronic application Accessories overview

Composition accessories

Plinth-fixing device



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Page 61

Canopy



PB500329-35

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Door accessories

Door retainer



PB500223-41

Page 282

Door switch



PB501638-28

Page 280

Door rails



PB500333-30

Page 269

Earthing systems



PB500407-42

Page 285

Mounting accessories

19" fixed and swing racks



PB500323-18

Page 421

Thermal accessories

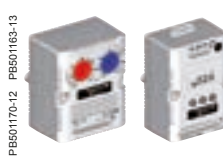
Airing systems



PB500769-36

Page 534

Thermal control



PB501163-13

Page 571

Ventilation systems



PB501021-37

Page 506

Insulated resistance heaters

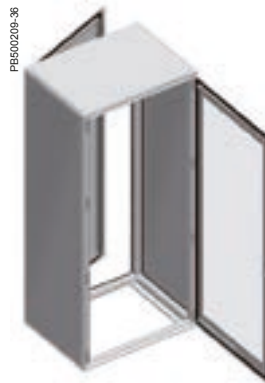


PB501026-16

Page 566

Electronic application

Characteristics



Characteristics	Spacial SF 19" electronic enclosure
-----------------	-------------------------------------

- Structure: top and bottom frame and vertical uprights.
- Transparent front door with Securit® glass.
- Plain rear door.
- Standard locking system with handle and 5-mm double-bar insert.
- Removable roof.
- External fixing side panels 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.

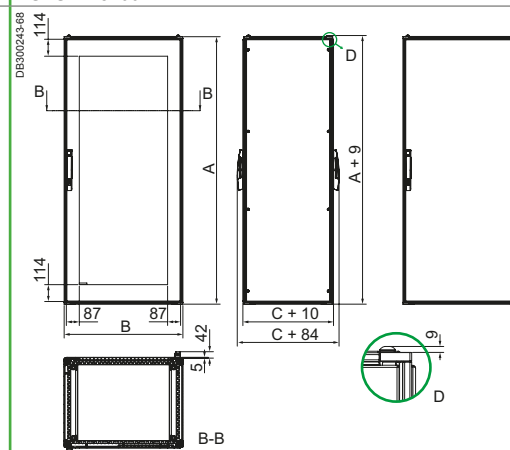
Material: Steel

Finish: Structured finish, epoxy-polyester powder

Colour: RAL 7035 grey

Certifications: UL 508A Types 1, 12 and CUL

Height (A)	Width (B)	Depth (C)	References
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



Electronic application

Accessories

Door



Characteristics		Single ventilated door for 19" racks
		<ul style="list-style-type: none"> ■ 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°. ■ Standard locking system with handle and 5-mm double-bar insert.
Material		Steel
Finish		Structured finish, epoxy-polyester powder
Colour		RAL 7035 grey
Supply		1 ventilated door for racks
Height (mm)	Width (mm)	Single ventilated door
1200	600	NSYPCVD126
	800	NSYPCVD128
1400	800	NSYPCVD148
1600	800	NSYPCVD168
1800	800	NSYPCVD188
2000	600	NSYPCVD206
	800	NSYPCVD208
2200	600	NSYPCVD226
	800	NSYPCVD228

Electronic application Accessories

Plinth

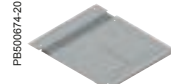
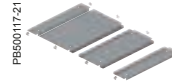
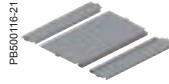
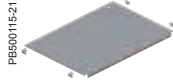


Characteristics	Front plinth	Plinth side panels	Ventilated front plinth	Ventilated plinth side panels			
	The front and rear of the plinth consists of 4 corners with 2 or 4 panels.	They are fixed to the corner of the plinth by 2 fixing screws.	The front and rear of the ventilated plinth is made up of 4 corners with 2 front panels.	They are fixed to the corner of the plinth by fixing screws.			
Material	Folded sheet steel, corner with a thickness of 25/10° mm	Folded sheet steel	Folded sheet steel, corner with a thickness of 25/10° mm	Folded sheet steel			
Finish	Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder			
Colour	RAL 7022 grey	RAL 7022 grey	RAL 7022 grey	RAL 7022 grey			
Ingress protection rating	IP30 according to IEC 60529	IP30 according to IEC 60529	IP20 according to IEC 60529	IP20 according to IEC 60529			
Mechanical protection rating	IK10 according to IEC 62262	IK10 according to IEC 62262	IK10 according to IEC 62262	IK10 according to IEC 62262			
Supply	<ul style="list-style-type: none"> ■ 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 	<ul style="list-style-type: none"> ■ 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 	<ul style="list-style-type: none"> ■ Height 100 mm: 4 corners, 2 ventilated panels (front and rear), 4 corner covers and fixing elements 	<ul style="list-style-type: none"> ■ Height 100 mm: 2 ventilated side panels, 4 corner covers and fixing elements 			
References							
Width (mm)	Depth (mm)	100 mm	200 mm	100 mm	200 mm	100 mm	100 mm
600	600	NSYSPF6100	NSYSPF6200	NSYSPS6100	NSYSPS6200	NSYSPFV6100	NSYSPV6100
	800			NSYSPS8100	NSYSPS8200		NSYSPV8100
	1000			NSYSPS10100	NSYSPF10200		-
800	600	NSYSPF8100	NSYSPF8200	NSYSPS6100	NSYSPS6200	NSYSPFV8100	NSYSPV6100
	800			NSYSPS8100	NSYSPS8200		NSYSPV8100
	1000			NSYSPS10100	NSYSPF10200		-

Electronic application

Accessories

Cable-gland plates



Characteristics	Plain	With 1 entry	With 2 entries	Ventilated	
	Maximum compact water/dustproof design.	Facilitates the entry of cables thanks to a longitudinal opening.	Cable entry for very deep enclosures (600 and 800 mm). Two longitudinal openings allowing a large number of cables through.	Plates for cable entry from the bottom of the enclosure. 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).	
Material	Galvanised steel			Galvanised steel	
Thickness	15/10° mm			15/10° mm	
Fixing	Fixing by C-shaped clip, fixed with screws, providing electrical continuity through the clip				
Ingress protection rating	< IP55				
Supply	Plain plate and fixing elements	Plate with 1 entry; self-extinguishing polyurethane adhesive gasket with cross-section of 15 x 25 mm (guarantees good sealing) and fixing elements	1 plate with 2 entries; polyurethane adhesive gasket with cross-section of 15 x 25 mm (guarantee good sealing) and fixing elements	Ventilated plate with 1 entry, self-extinguishing polyurethane adhesive gasket with cross-section of 15 x 25 mm, and fixing elements	
Width (B)	Depth (C)	References			
600	600	NSYEC66	NSYEC661	NSYEC662	NSYECV661
	800	NSYEC68	NSYEC681	NSYEC682	NSYECV681
	1000	NSYEC610	NSYEC6101	NSYEC6102	NSYECV6101
800	600	NSYEC86	NSYEC861	NSYEC862	NSYECV861
	800	NSYEC88	NSYEC881	NSYEC882	NSYECV881
	1000	NSYEC810	NSYEC8101	NSYEC8102	NSYECV8101

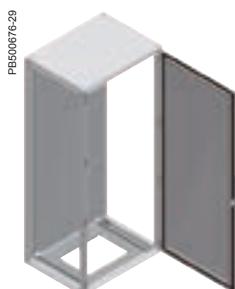
Electronic application

Accessories

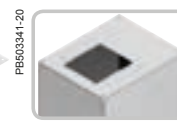
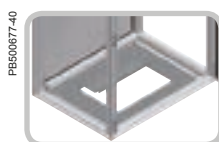
Top and bottom cable-gland plate supports



Enclosure width 600 mm.



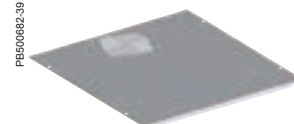
Enclosure width 800 mm.



Characteristics		Cable-gland support for Actassi plate	Roof for Actassi plates
		Support for cable entry from the bottom of the enclosure. Allows the installation of Actassi cable-gland accessories.	Roof prepared for installing Actassi roof accessories. Suitable for enclosures with widths of 800 mm.
Material		Galvanised steel	Steel
Finish		-	Structured finish, epoxy-polyester powder
Colour		-	RAL 7035 grey
Thickness		15/10 ^ø mm	-
Fixing		Fixing by C-shaped clip, fixed with screws, providing electrical continuity through the clip. <ul style="list-style-type: none"> ■ Enclosure width 600 mm: the Actassi plate is fixed by C-shape clips directly to the enclosure. ■ Enclosure width 800 mm: the Actassi plate is fixed on the support plate. 	-
Supply		<ul style="list-style-type: none"> ■ Enclosure width 600 mm: 2 plates and fixing elements ■ Enclosure width 800 mm: 1 support plate and fixing elements 	1 roof with central cut-out and side pre-cuts
Width (B) (mm)	Depth (C) (mm)	References	
-	-	-	
600	600	NSYCECS66	
	800	NSYCECS68	
	1000	NSYCECS610	
800	600	NSYCECS86	
	800	NSYCECS88	
	1000	NSYCECS810	

Electronic application Accessories

Top and bottom cable-gland plate solutions



Actassi plain plate for roof	Actassi plate with brush gasket for roof	Actassi ventilated plate for roof
Removable plate made from folded sheet steel, to be installed on roof ref. NSYSRSYS8• . Option of installing roof elevators for aeration, ref. NSYEX206 , and cable glands.	Removable folded sheet-steel plate, equipped with a gasket with cable-gland brush, to be installed on roof ref. NSYSRSYS8• . Optional installation of roof elevators for aeration, ref. NSYEX206 , and cable-gland plates.	Removable plate made from folded sheet steel, to be installed on roof ref. NSYSRSYS8• . Optional installation of roof elevators for aeration, ref. NSYEX206 , cable-gland plates and fans.
Steel	Steel	Steel
Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder
RAL 7035 grey	RAL 7035 grey	RAL 7035 grey
-	-	-
-	-	-
1 plain plate and fixing elements	1 plate with brush gasket and fixing elements	1 ventilated plate and fixing elements

NSYTSPC450	NSYTSP450	NSYTSPV450
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

PB500344-32



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...).

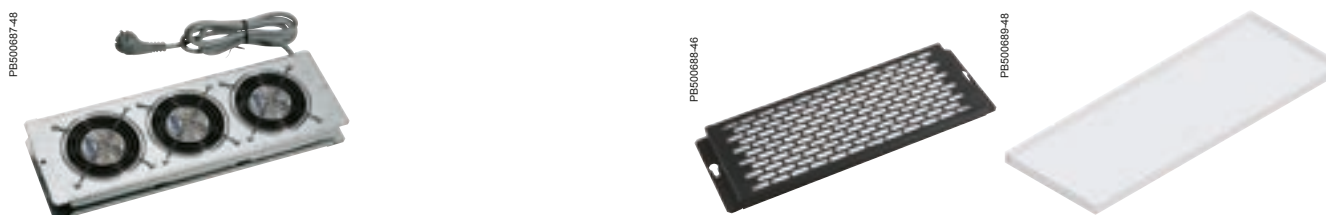
Reference
NSYEX206

Electronic application Accessories

Top and bottom cable-gland plate solutions



Characteristics	Actassi plain cable-gland plate	Actassi cable-gland plate with brush	Actassi self-ventilated cable-gland plate
Material	Galvanised steel	Galvanised steel	Galvanised steel
Fixing	<ul style="list-style-type: none"> Fixing on the outside of the roof and bottom support plate Can be combined with other types of cable-gland plates 	<ul style="list-style-type: none"> Fixing on the outside of the roof and bottom support plate Can be combined with other types of cable-gland plates 	<ul style="list-style-type: none"> Fixing on the outside of the roof and bottom support plate Can be combined with other types of cable-gland plates
Supply	1 plain cable-gland plate and fixing elements	1 cable-gland plate with brush and fixing elements	1 self-ventilated cable-gland plate and fixing elements
References	NSYEC440	NSYEC440	NSYEC440



Characteristics	Actassi ventilation plate with or without fans, symbol diameter before 120 mm	Actassi ventilated support with filter	Spare filter for Actassi ventilated support												
Fixing	<ul style="list-style-type: none"> Fixing on the outside of the roof and bottom support plate Can be combined with other types of cable-gland plates 	To be mounted on the cable-gland plate with or without fan or on the self-ventilated cable-gland plate.	-												
Other characteristics	Sound level: 34 dB (A)	Colour RAL 9011	-												
Supply	<ul style="list-style-type: none"> 1 cable-gland plate with or without fans, 2-m power cord (version with fans) and fixing elements Versions with 2 or 3 fans: each of them 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 	1 mounting support and filter	5 units												
References	<table border="1"> <thead> <tr> <th>Description</th> <th>References</th> </tr> </thead> <tbody> <tr> <td>No fans, 3 positions</td> <td>NSYECVT3440</td> </tr> <tr> <td>With 3 fans</td> <td>NSYECVT3V440</td> </tr> <tr> <td>No fans, 2 positions</td> <td>NSYECVT2440</td> </tr> <tr> <td>With 2 fans</td> <td>NSYECVT2V440</td> </tr> </tbody> </table>	Description	References	No fans, 3 positions	NSYECVT3440	With 3 fans	NSYECVT3V440	No fans, 2 positions	NSYECVT2440	With 2 fans	NSYECVT2V440	<table border="1"> <thead> <tr> <th>References</th> </tr> </thead> <tbody> <tr> <td>NSYFECVT440</td> </tr> </tbody> </table>	References	NSYFECVT440	NSYCEFILS
Description	References														
No fans, 3 positions	NSYECVT3440														
With 3 fans	NSYECVT3V440														
No fans, 2 positions	NSYECVT2440														
With 2 fans	NSYECVT2V440														
References															
NSYFECVT440															

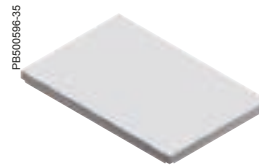


Examples of possible combinations Actassi cable-gland plates for the roof and bottom support

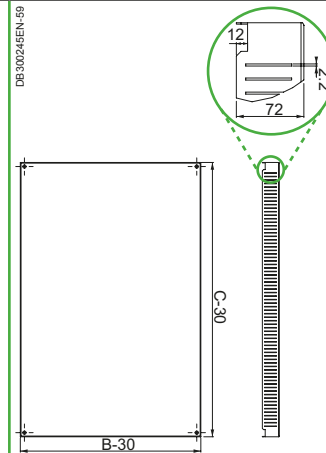
Spacial SF dimensions		Combination 1	Combination 2
Width (mm)	Depth (mm)		
600/800	600		
	800		
	1000		

Electronic application Accessories

Top and bottom cable-gland plate solutions

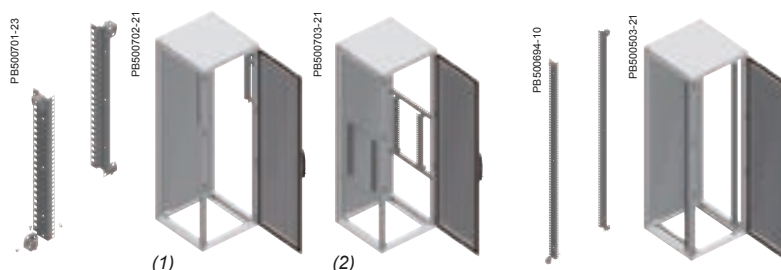


Characteristics		Ventilated roof
		Roof for providing natural ventilation for the enclosure, with IP30 protection. Height: an extra 63 mm in relation to the structure.
Material		Steel
Finish		Structured finish, epoxy-polyester powder
Colour		RAL 7035 grey
Supply		1 ventilated roof and fixing elements
Width (B) (mm)	Depth (C) (mm)	References
600	600	NSYSVR606
	800	NSYSVR608
800	600	NSYSVR806
	800	NSYSVR808



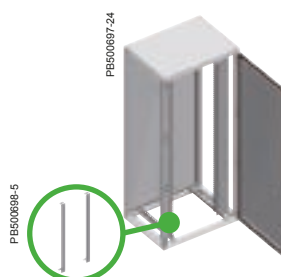
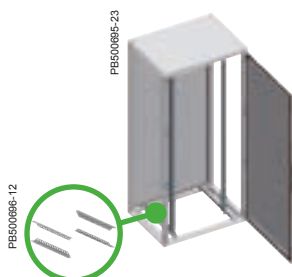
Electronic application Accessories

Mounting accessories

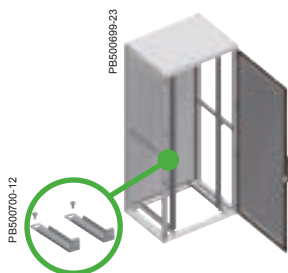


Characteristics	Partial 19" fixed rack	19" fixed rack		
	Rack designed for coupling in enclosures with a width of 600 mm. Adjustable depth with a pitch of 25 mm.	Rack designed for installation in enclosures with a width of 600 mm. Adjustable depth with a pitch of 25 mm.		
Material	Zinc-coated steel	Zinc-coated steel		
Installation	<p>Installation options:</p> <ul style="list-style-type: none"> ■ Spacial SF: <ul style="list-style-type: none"> □ Installation at the top front of the enclosure, no cross rails needed (1) □ Depth adjustment of the partial rack: two cross rails need to be installed, see page 231 □ For installation at any other height, four cross rails are required (2) ■ Spacial SM: <ul style="list-style-type: none"> □ At the front of the enclosure (1): install two front vertical adaptation profiles, see page 235 □ For depth adjustment (2): install two front vertical adaptation profiles, see page 235 and two rear vertical 40 mm (1 row) cross-rails and four cross-rails, see page 231 	<p>Installation options:</p> <ul style="list-style-type: none"> ■ Spacial SF: direct fixing on the structure of the enclosures: <ul style="list-style-type: none"> □ 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. 		
Maximum load	2 kg/U	400 kg		
Supply	2 uprights and fixing elements	2 uprights and fixing elements		
Height (H) (mm)	No. of units	References	No. of units	References
200	4	NSYRCKP4	-	-
400	8	NSYRCKP8	-	-
600	12	NSYRCKP12	-	-
800	17	NSYRCKP17	-	-
1000	21	NSYRCKP21	-	-
1200	26	NSYRCKP26	24	NSYRCK24
1400	-	-	29	NSYRCK29
1600	-	-	33	NSYRCK33
1800	-	-	38	NSYRCK38
2000	-	-	42	NSYRCK42
2200	-	-	47	NSYRCK47

Mounting accessories

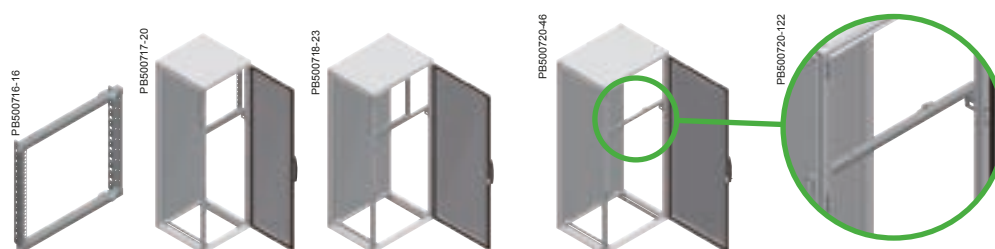


Characteristics		Support brackets for 19" fixed rack with a width of 800 mm	Side plates of the centred fixed rack for a width of 800 mm
		Support brackets for coupling the fixed rack to enclosures with a width of more than 600 mm. They allow the depth of the fixed rack to be adjusted with a pitch of 25 mm. The fixed amounts are delivered in pairs.	Side plates for coupling to the fixed rack in enclosures with a width of 800 mm. Direct installation on the rack by screws. The fixed amounts are delivered in pairs.
Material		Zinc-coated steel	Steel
Finish		-	Structured finish, epoxy-polyester powder
Colour		-	RAL 7035 grey
Maximum load		400 kg	-
Supply		4 support brackets and fixing elements	2 side plates and fixing elements
Height (H) (mm)	Depth (mm)	References	References
1200	-	-	NSYRC12
1400	-	-	NSYRC14
1600	-	-	NSYRC16
1800	-	-	NSYRC18
2000	-	-	NSYRC20
2200	-	-	NSYRC22
-	600	NSYRCKS6	-
-	800	NSYRCKS8	-
-	1000	NSYRCKS10	-



Characteristics		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 233.
Material		Zinc-coated steel
Supply		2 supports and fixing elements
References		NSYRCK19KIT

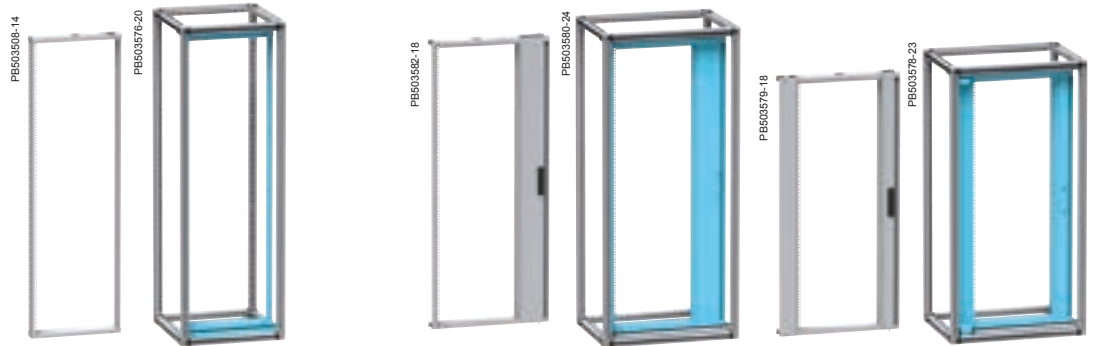
Mounting accessories



Characteristics	Partial 19" swing rack for 600 and 800 mm enclosures	Partial 19" swing rack support for 600 and 800 mm enclosures
	<p>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 offcentre. Maximum opening: 120°. 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.</p>	<p>Supports for coupling the partial swing rack to enclosures with widths of 600 and 800 mm. 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.</p> <ul style="list-style-type: none"> ■ Spacial SF: direct fixing to the structure. ■ Spacial SM: fixing to the enclosure by means of the vertical adaptation profile, see page 235.
Material	Zinc-coated steel	Zinc-coated steel
Installation	<ul style="list-style-type: none"> ■ Spacial SF: <ul style="list-style-type: none"> □ To install at the front at any height of the enclosure: directly to the framework by rack fixing elements □ For depth adjustment: install two (for top height) or four (for any height) 65 mm (2 rows) cross rails, see page 231 ■ Spacial SM: <ul style="list-style-type: none"> □ To install at the front at any height of the enclosure: install two front vertical adaptation profiles, see page 235 □ For depth adjustment: install two front vertical adaptation profiles, see page 235 and two rear vertical 40 mm cross-rails and four 65 mm (2 rows) cross-rails, see page 231 	Installation of the rack in centred or off-centre position, for enclosures with a width of 800 mm
Maximum load	2 kg/U	-
Supply	1 partial 19" swing rack	2 supports and fixing elements
Dimensions	No. of units (H)	References
Height (mm)		References
355	6	NSYRSWP6
468	9	NSYRSWP9
601	12	NSYRSWP12
735	15	NSYRSWP15
868	18	NSYRSWP18
1002*	21	NSYRSWP21
Width (mm)		
600	-	-
800	-	-
	<p>Partial 19" swing rack for enclosures with a width of 600 mm.</p> <p>Partial 19" swing rack, off-centre and centred, for enclosures with a width of 800 mm.</p>	<p>19" multiple bracket</p> <ul style="list-style-type: none"> ■ 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: 4 brackets and fixing elements. <p>Reference NSYMBR19</p>

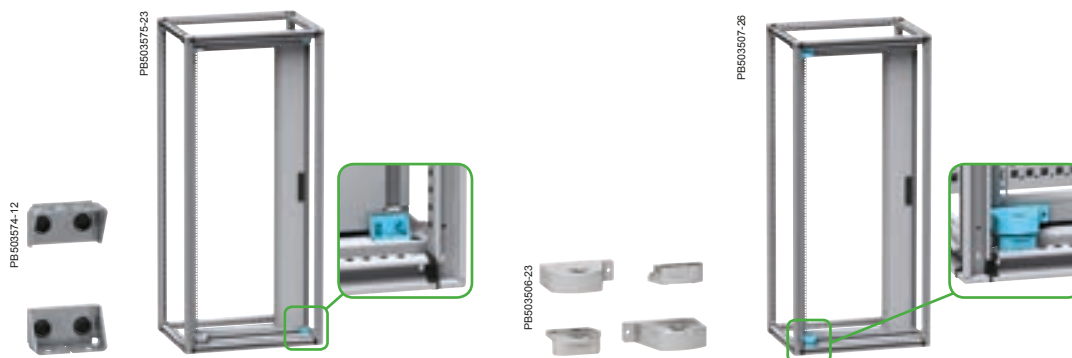
* Optional installation in enclosures with height of 1200 mm.

Mounting accessories



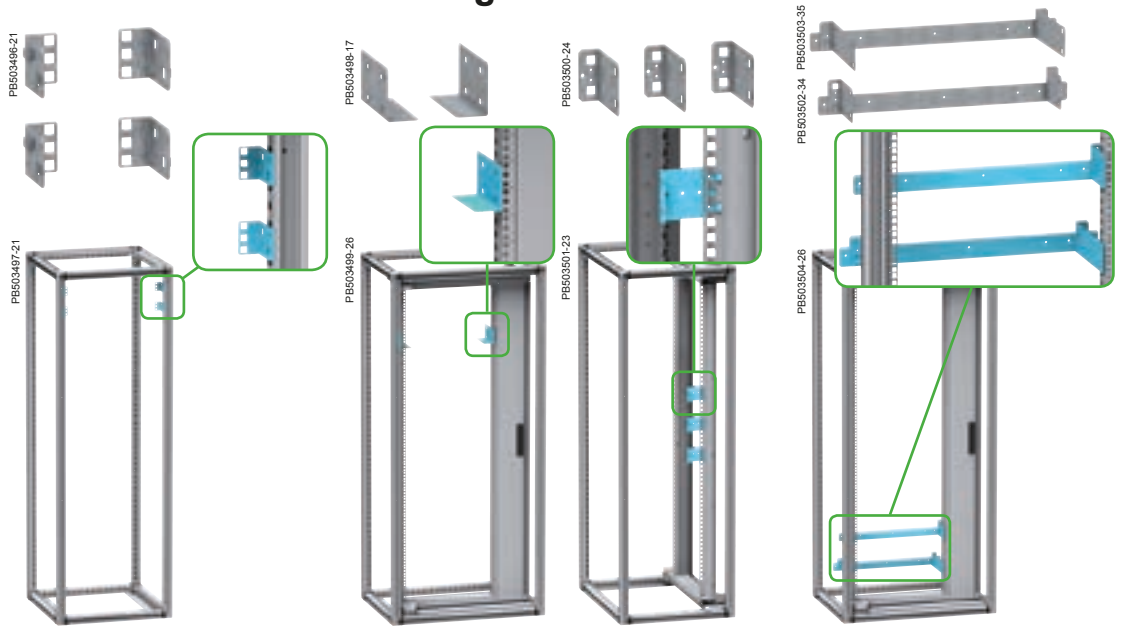
Characteristics		19" swing rack for 600 mm enclosures		19" swing racks for 800 mm enclosures	
		To be coupled to enclosures with widths of 600 mm. Can be moved depthwise with a pitch of 25 mm. Reversible opening direction: left/right. Locking system, top and bottom, with 5-mm double-bar key. <ul style="list-style-type: none"> ■ Maximum opening: 130°. ■ Maximum equipment installation depth: 180 mm. ■ Fixing to the enclosure structure: <ul style="list-style-type: none"> □ Spacial SF: fixing to the enclosure structure. □ Spacial SM: fixing to the enclosure on top/bottom adjustment rails. ■ Components: <ul style="list-style-type: none"> □ Zinc-coated steel central structure. □ Mounting cross-rail on structure made from steel painted with epoxy-polyester resin, textured RAL 7035 grey. Fixed to the central structure by screws. 		To be coupled to enclosures with widths of 800 mm. Can be moved depthwise with a pitch of 25 mm. Reversible opening direction: left/right. Locking system, top and bottom, with 5-mm double-bar key. <ul style="list-style-type: none"> ■ Maximum opening: 130° (possibility of opening to 180° using 180° hinges). ■ Maximum equipment installation depth: <ul style="list-style-type: none"> □ Off-centre 19" swing rack: 470 mm □ Centred 19" swing rack: 390 mm ■ Fixing to the enclosure structure: <ul style="list-style-type: none"> □ Spacial SF: fixing to the entire height of the enclosure structure. □ Spacial SM: fixing to the enclosure on top/bottom adjustment rails. ■ Components: <ul style="list-style-type: none"> □ Zinc-coated steel central structure. □ Mounting cross-rail on structure made from steel painted with epoxy-polyester resin, textured RAL 7035 grey. Fixed to the central structure by screws. □ Side plate made from steel painted with epoxy-polyester resin, textured RAL 7035 grey. Fixed to the central structure by screws. 	
Material		Zinc-coated steel and steel painted			
Installation		Spacial SF - SM : other mounting options: consult us			
Maximum load		3.75 kg/unit with a max of 150 kg			
Supply		1 19" swing rack with no panels			
		Centred and off-centre 19" swing rack: hinged rack, 800-mm swing rack supports, side plates with locking system double-bar and fixing elements			
Dimensions	No. of units	References	No. of units	Off-centre 19" hinged rack	Centred 19" hinged rack
Height (mm)					
1400	27	NSYRSW627	27	NSYRSW27	NSYRSWC27
1600	31	NSYRSW631	31	NSYRSW31	NSYRSWC31
1800	36	NSYRSW636	36	NSYRSW36	NSYRSWC36
2000	40	NSYRSW640	40	NSYRSW40	NSYRSWC40
2200	45	NSYRSW645	45	NSYRSW45	NSYRSWC45

Mounting accessories



Characteristics	19" swing rack kit transportation	180° hinge
	To carry an enclosure in vertical position with 19" chassis installed and equipped.	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: <ul style="list-style-type: none"> □ off-centre 19" swing rack: 425 mm, □ centred 19" swing rack: 345 mm.
Material	Zinc-coated steel	Zamak 5
Supply	2 slide brackets and fixing elements	2 hinges and fixing elements
References	NSYTRSW	NSYRSWH180

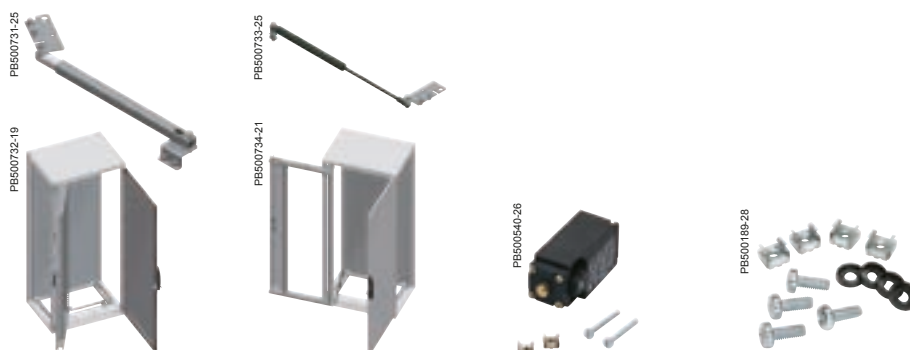
Mounting accessories



Characteristics	1 U / 3 U support	19" partial single slides	Fixing of cable ducts on 19" racks	Rear cable-guide support	
	Support prepared for installing equipment 1 U or 3 U high. Designed with quick locking for easy installation. <ul style="list-style-type: none"> ■ Spacial SF: direct fixing to the structure. ■ Spacial SM: fixing to the enclosure by means of the vertical adapter section, see page 235. 	Rails for installation on fixed or swing racks. Direct fixing on the structure of the enclosure, by quick locking.	Allows vertical fixing of cable ducts for cable guide. Service depth: 150 mm. Fixed by quick locking to the 19" rack profile.	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	Zinc-coated steel	Zinc-coated steel	Zinc-coated steel	
Thickness	-	12/10 ⁶ mm	-	-	
Maximum load	-	15 kg	-	-	
Supply	4 1 U/3 U supports (2 units right and 2 units left) and fixing elements	2 rails and fixing elements	3 units and fixing elements	2 cable-guide supports, crossbar and fixing elements	
References				Service depth (mm)	References
NSYRC1U		NSYGB140	NSYRCDFIX	150	NSYRCSUP15
				250	NSYRCSUP25

Electronic application Accessories

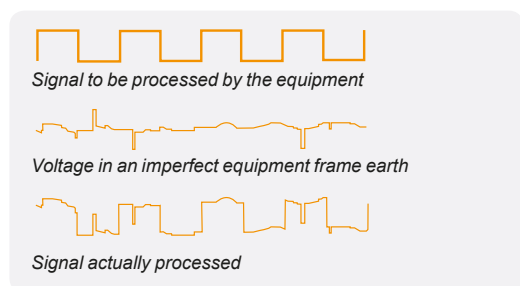
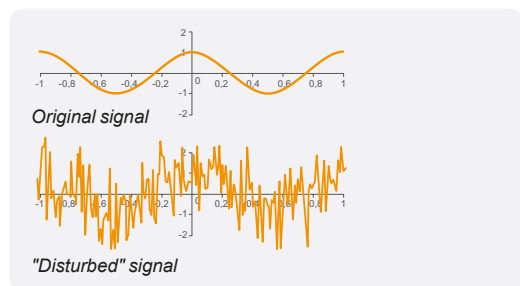
Swing rack accessories



Characteristics	120° mechanical retainer	180° pneumatic retainer	Switch for swing 19" rack	Fixing elements for 19"
	Retainer for installation on the swing racks. Maximum opening: 120°.	Retainer for installation on the swing racks installed with 180° hinges, in enclosures with a depth of 600, 800 or 1000 mm. Maximum opening: 180°.	Switch for direct fixing on the bottom or top support of the swing rack. M20 connection. Open + closed contact, 10 A/500 V.	Elements required for fixing switchgear on 19" racks, made up of: ■ Screws. ■ Washers. ■ Nuts.
Fixing	Direct fixing to the rack support and the 19" rack	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.	-	-
Supply	1 mechanical door stop and fixing elements	1 pneumatic door stop and fixing elements	1 19" rack switch and fixing elements	50 units of each. Reference by unit. Order by multiples of 50 (50, 100, 150...)
References	NSYRCDR12	NSYRCDR18	NSYRCINT	Thread type M5 M6
				References NSYGFR95M55 NSYGFR95M65

Electromagnetic protected steel enclosures

Introduction



Electromagnetic interference

Introduction

LV networks are highly polluted and subject to a large number of aggressions. Electrotechnical equipment and in particular electronic devices, that are increasingly numerous and process ever lower signals, must withstand a harsh electromagnetic environment. At the same time availability requirements, whether for production, management or commerce, are increasingly great.

Definition

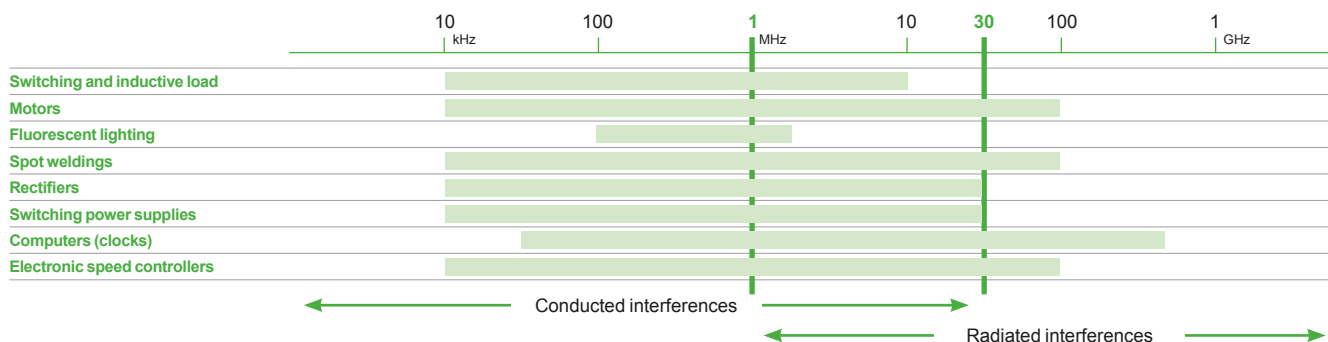
Any electromagnetic phenomenon capable of impairing the performance of a device, equipment or system, etc.

An electromagnetic disturbance can be electromagnetic noise, an unwanted signal or a change in the propagation medium itself.

An electromagnetic disturbance, as its name suggests, consists of an electric field \vec{E} generated by a potential difference and a magnetic field \vec{H} difference caused by the flow of a current I along a conductor.

"Unwanted" electromagnetic interference is simply an unwanted electrical signal that is added to the useful signal. This unwanted signal is propagated by conduction in conductors and by radiation in air, etc.

Example of devices generating interference



The regulations

The standards define electromagnetic compatibility (EMC) as "the ability of a device, equipment or a system to function satisfactorily in its electromagnetic environment without introducing intolerable disturbances to that environment or to other equipment".

Classification

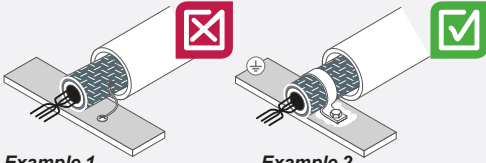
In an electrical switchboard, the signals coming from these sources of disturbance will coexist with more sensitive devices. These signals may be classified as follows (Sources: IEC 61000-5-2 and IEC 60364-4-44 standards):

Class	Examples
1 Sensitive	<ul style="list-style-type: none"> Low-level circuits with analog output units, sensors... Instrument circuits (probe, sensors...)
2 Not very sensitive	<ul style="list-style-type: none"> Control/command circuits with resistive load Digitalized low-level circuits (Bus...) Low-level circuits with on-off output unit (sensors...) Low-level direct power supply
3 Not very disturber	<ul style="list-style-type: none"> Control/command circuits with inductive load (relay, contactors, coils, inverter...) with adapted protection Alternating power supply Main power supply connected to power devices
4 Disturber	<ul style="list-style-type: none"> Welding machines Power circuit Drive, switch mode power supplies...

Electromagnetic protected steel enclosures

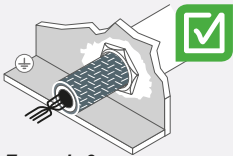
Introduction

Connect the shielding



Example 1
Shielding connected to frame earth by a wire (pigtail) and no mechanical fastener.
Arrangement to be avoided.

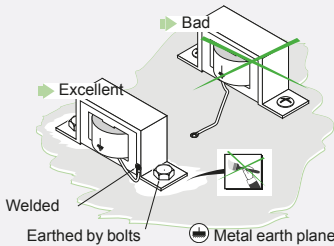
Example 2
Shielding connected to frame earth over its entire circumference, but no mechanical fastener.
Acceptable arrangement.



Example 3
Shielding connected to frame earth over its entire circumference, and a mechanical fastener.
Recommended arrangement.

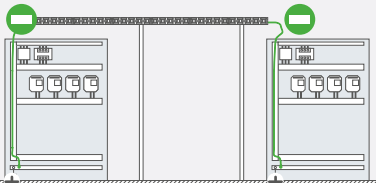
Isolation transformers

DB300008SE-39

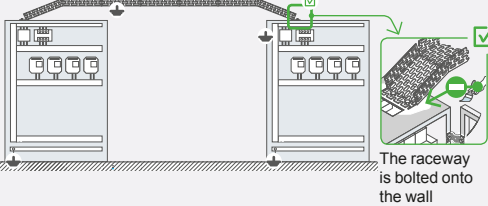


Earth connection of metal raceways

DB404757

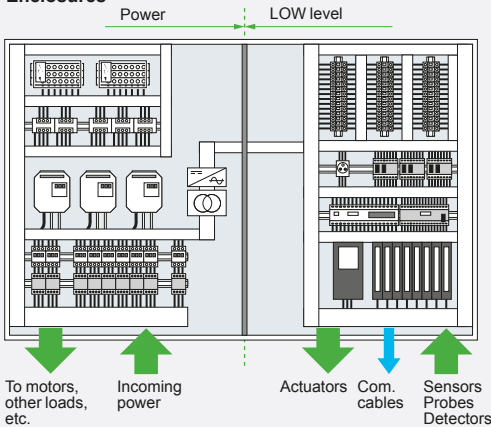


DB404758
DB404759



Enclosures

DB404750



How to obtain EMC

Rules to be followed: general description

The electromagnetic interference generated by devices is classified in 2 categories according to its frequency:

- Low frequency (up to 30 MHz): interference conducted by sensor cables;
- High frequency (above 1 MHz): interference radiated by a device.

The rules to be followed concern the selection and installation of the electrical installation's components. Overall, they break down as follows:

Conducted interferences

- Importance of the choice of architecture for the power supplies and associated protective devices.
- Use of a filter.

Radiated interferences

- Importance of the choice of installation rules:
 - grounding, length and cross section of cables,
 - cabling rules, choice of cable tray, connections,
 - choice and installation of the enclosure.
- Use of filters.

Connect the shielding

This connection can remove interference to earth.

The decision to connect one or both ends to earth means priority is given to protection against low or high frequencies:

- at a single end, 50 Hz stray currents cannot flow, moderate HF protection;
- at both ends, possible presence of 50 Hz current, but the barrier against higher frequencies is strengthened.

Isolation transformers

Isolation transformers are used to guard against high-frequency disturbances generated by the network power supply (primary circuit). An electrostatic shield is connected to earth by a short link.

This link must be free of paint and any other insulating material. Physical separation of the cables of the primary circuit (network power supply) and those of the secondary circuit (power distribution) is also essential.

Earth connection of metal raceways

Increasing the efficiency of the shielding on highly disturbing cables

The radiation from a shielded variable speed drive/motor connecting cable will be further reduced if it runs in a closed metal raceway or, even better, in a metal conduit. The raceway and tube need to be connected to earth at either end.

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" - ref. UE17MK08FR.

Electromagnetic protected steel enclosures

Introduction

EMC offer of Schneider Electric

Spacial S3HF wall-mounting enclosure IP55 IK10

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.
- Ingress protection rating: IP55.
- Mechanical protection rating: IK10.
- Structured finish, exclusively epoxy-polyester paint on the outside
- RAL 7035 grey colour.

P850205-46



Spacial SFHF suitable enclosure IP55 IK10

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.
- Ingress protection rating: IP55.
- Mechanical protection rating: IK10.
- Structured finish, exclusively epoxy-polyester paint on the outside
- RAL 7035 grey colour.

P8501682-46



This range can be configured according to your needs

4 different services available:



Assemble
to order



Mounting
of standard
accessories



Painting



Machining

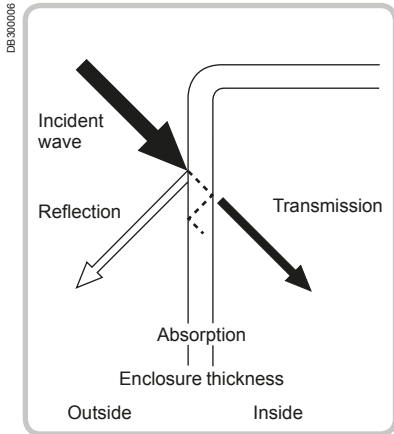
See page 496 for details or consult our web site www.se.com

Electromagnetic protected steel enclosures

Introduction

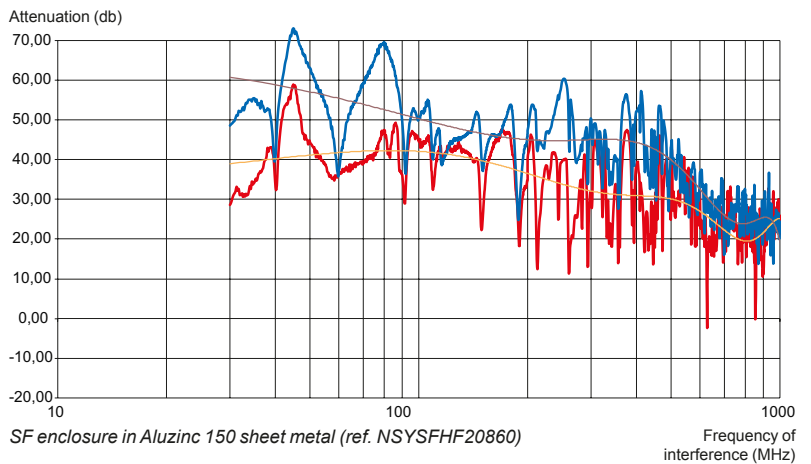
Attenuation of electromagnetic interference

The next illustrations indicates the attenuation (dB) curves related to the frequency (MHz).



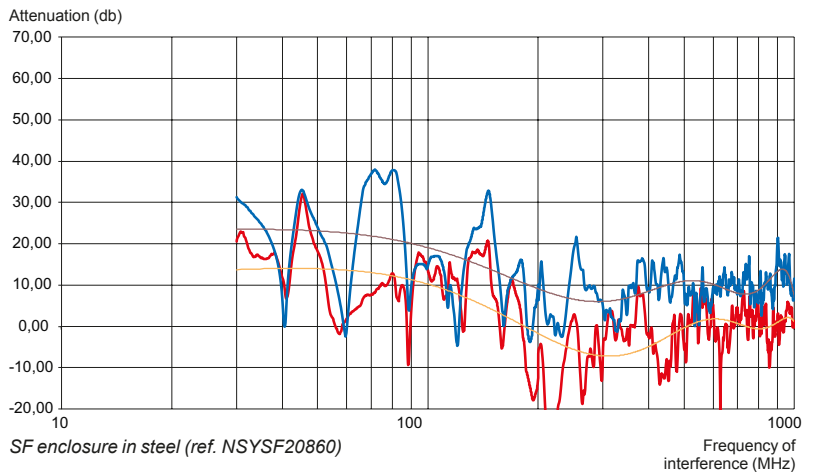
The presence of 55 % aluminium on the surface of the sheet metal ensures good reflection of electromagnetic waves.

Attenuation of the Spacial S3HF enclosure



Attenuation of the Spacial SFHF suitable enclosure

Enclosure is tested with its sides panels and earth braids mounted on all claddings (Test performed following IEC 61587-3).



Attenuation curves
— Horizontal attenuation — Vertical attenuation
Trend curves (polynomial of order 6)
— Horizontal attenuation — Vertical attenuation

Electromagnetic protected steel enclosures

Characteristics



PB50005-38

Characteristics			Spacial S3HF		
			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.		
			<ul style="list-style-type: none"> ■ Body <ul style="list-style-type: none"> □ 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, □ its low resistivity promotes earth continuity, □ direct fixing or using wall-fixing lugs, ref. NSYPFCR (to be ordered separately). ■ Door <ul style="list-style-type: none"> □ 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). ■ Enclosure delivered with galvanised mounting plate. Other sizes: consult us.		
Finish			Structured finish, epoxy-polyester powder (inside not painted)		
Colour			RAL 7035 grey		
Ingress protection rating			IP55 according to IEC 60529		
Mechanical protection rating			IK10 according to IEC 62262		
Certifications and declarations			UL, CE declaration		
Fixing			Fixing lugs, ref. NSYPFCR to be ordered separately (1 set of 4 lugs)		
Height (mm)	Width (mm)	Depth (mm)	Fig.	Weight (kg)	References
400	300	200	1	7.5	NSYS3HF4320P
	600	200	1	13.0	NSYS3HF4620P
500	400	200	2	11.5	NSYS3HF5420P
600	400	200	2	13.0	NSYS3HF6420P
	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

Characteristics		Support bracket for enclosure with anti-tilt kit and reinforcement
		The support bracket is used when the S3HF enclosure cannot be hung from a wall or a post. Suitable for outdoor use. Maximum enclosure dimensions: 1000 x 800 x 300 mm. Floor attachment by standard M12 fastenings.
Material		Steel
Finish		Painted
Colour		RAL 7035 grey
Maximum load		120 kg
Height (mm)		References
1400		NSYCOCNS1400
1800		NSYCOCNS1800

PB501821-18



Electromagnetic protected steel enclosures

Characteristics



Characteristics			Spacial SFHF	
			<ul style="list-style-type: none"> ■ Structure <ul style="list-style-type: none"> □ galvanised-steel structure, □ top and bottom frame, vertical upright. ■ Claddings <ul style="list-style-type: none"> □ 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, □ special gasket (IP + EMC) between body, door and panels. ■ 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). 	
Finish			Epoxy-polyester paint on the outside (inside not painted)	
Colour			RAL 7035 grey	
Ingress protection rating			IP55	
Mechanical protection rating			IK10	
Certifications			RoHS compliant	
Fixing			-	
Height (mm)	Width (mm)	Depth (mm)	Enclosure references	Side panel references
1800	600	600	NSYSFHF18660	NSY2SPHF186
		800	NSYSFHF18840	NSY2SPHF184
	600	600	NSYSFHF18860	NSY2SPHF186
2000	600	400	NSYSFHF20640	NSY2SPHF204
		600	NSYSFHF20660	NSY2SPHF206
		800	NSYSFHF20680	NSY2SPHF208
	800	1000	NSYSFHF206100	NSY2SPHF2010
		400	NSYSFHF20840	NSY2SPHF204
		600	NSYSFHF20860	NSY2SPHF206
		800	NSYSFHF20880	NSY2SPHF208
		1000	NSYSFHF208100	NSY2SPHF2010
		600	NSYSFHF20860	NSY2SPHF206
2200	600	600	NSYSFHF22660	NSY2SPHF226
		800	NSYSFHF22860	NSY2SPHF226
	600	800	NSYSFHF22880	NSY2SPHF228

Electromagnetic protected steel enclosures

Dimensions

Spacial S3HF

A: Height.
B: Width.
C: Depth.

Fig. 1

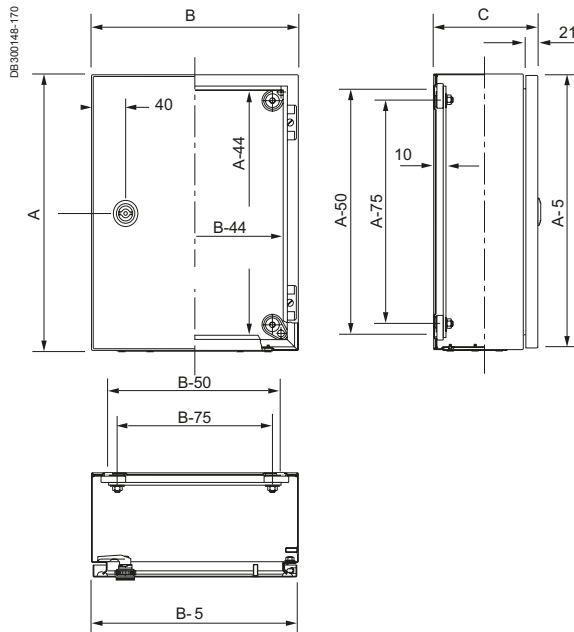
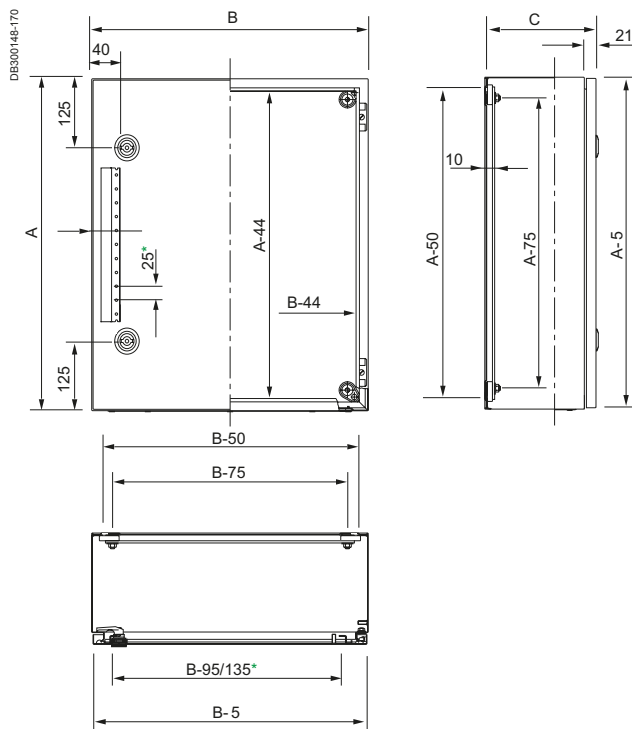


Fig. 2



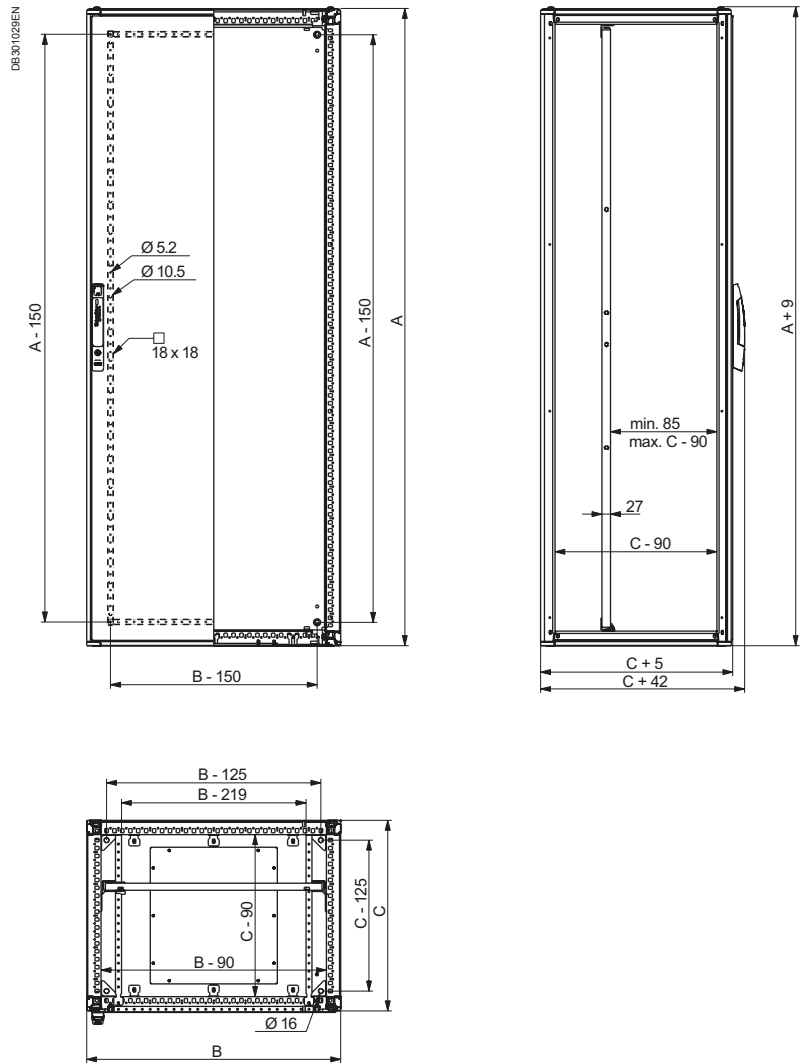
* Model 1200 x 800.

Electromagnetic protected steel enclosures

Dimensions

Spacial SFHF

A: Height.
B: Width.
C: Depth.



Electromagnetic protected steel enclosures

Accessories



All mounting accessories are compatible with the SF standard range.

- Mounting plate (see page 220).
- Rails (see page 229).
- 19" frame (fixed and swinging) (see page 432).



For NSYEB2050D8.



For all other references.

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).

Length (mm)	Width (mm)	Section (mm ²)	Terminal Ø (mm)	References
150	12	6	6.5	NSYEB156D6
	17	10	6.5	NSYEB1510D6
155	17	16	8.5	NSYEB1516D8
200	27	25	8.5	NSYEB2025D8
	33	50	8.5	NSYEB2050D8

EMC coupling kit

- Used to join enclosures side-by-side or depthwise.

Special gasket for EMC solution.

Attenuation level is decreased by 5 db when enclosures are joined (please consult us).

- **Ingress protection rating:** IP55.

Height (mm)	Depth (mm)	Ref. SM EMC
1800	400	NSYSFHFBK184
	600	NSYSFHFBK186
2000	400	NSYSFHFBK204
	600	NSYSFHFBK206
	800	NSYSFHFBK208
	1000	NSYSFHFBK2010
2200	600	NSYSFHFBK226
	800	NSYSFHFBK228

New

EMC cable gland with contact spring

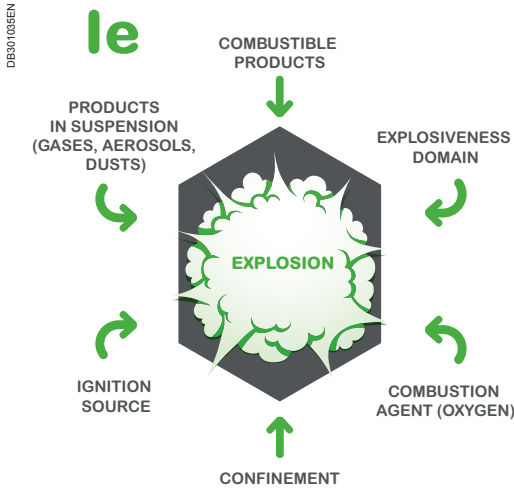
PB503628



Characteristics	EMC cable gland with contact spring					
Thread type	<ul style="list-style-type: none"> ■ Metric EN 60423 ■ Other types are available on demand 					
Material	Nickel-plated brass, neoprene gasket					
Ingress protection rating	IP66					
Flame resistance	V2 depending on UL94					
Temperature range	-20°C to + 100°C					
Cable type	Unshielded					
Supply	<ul style="list-style-type: none"> ■ The cable-glands are supplied with nuts ■ Pack of 10 (M12 and M16), of 5 (M20 and M25), of 4 (M32 and M40) 					
Dimensions (mm)						References
Ø	Ø min/max	Drill Ø	TD	TL	Wrench width	
M12	3/6.5	12 to 12.2	12	6	14	NSYCGHF12
M16	5/10	16 to 16.2	16	7	20	NSYCGHF16
M20	6/12	20 to 20.2	20	8	22	NSYCGHF20
M25	11/17	25 to 25.2	25	8	27	NSYCGHF25
M32	15/21	32 to 32.3	32	8	34	NSYCGHF32
M40	19/28	40 to 40.3	40	9	43	NSYCGHF40

Enclosures for explosive atmospheres

Introduction



Explosion hexagon

Potentially explosive atmospheres (or ATEX)

> Process leading to an explosion in an explosive atmosphere

- For an explosion to occur, six conditions must be met simultaneously (see explosion hexagon opposite). The process is as follows:
 - mix combustible substances (gases, dusts) with air whose oxygen acts as combustion agent;
 - dose combustible products and combustion agents in precise proportions; you thus obtain a potentially explosive atmosphere;
 - confine the explosive atmosphere thus obtained in a place conducive to explosion;
 - place it in contact with an ignition source having sufficient energy to cause an explosion.

> ATEX regulations

Two EU directives and an international standard regulate potentially explosive atmospheres :

- The objective of the two EU directives (the so-called ATEX directives) is to enhance protection from explosions by making various technical and organizational measures compulsory:

- the 2014/34/EU directive (a revision of the 94/9/EC directive) came into application on 20 April 2016. It describes the requirements that must be met by protection devices and systems, and the conformity assessment procedures;
- the 99/92/EC directive, a labour relations supplement to the preceding one, presents the minimum requirements to be met to improve the protection of workers liable to be exposed to ATEX-related risks.

- An IEC international standard harmonized with the European standard EN:
 - IEC 60079: electrical equipment for potentially explosive gaseous atmospheres.

> Classification

Locations liable to be in the presence of an explosive atmosphere have been classified according to 2 criteria:

- the probability assessed on a scale comprising 3 levels;
- the nature of the combustible product.

The following 6 ATEX zones are obtained:

Probability of an explosive atmosphere	Gas / Vapour or mist	Dust
Place in which an explosive atmosphere is present constantly , or for long periods or frequently	Zone 0	Zone 20
Place in which an explosive atmosphere is likely to occur occasionally in normal operation	Zone 1	Zone 21
Place in which an explosive atmosphere is not likely to occur in normal operation or, if it does occur, will persist for a short period only	Zone 2	Zone 22

★ Definition



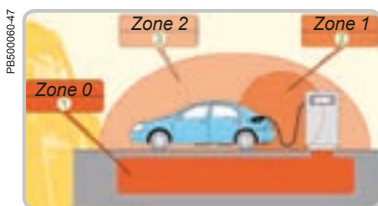
Product directive 2014/34/UE: defines the manufacturers' obligations.



Personal protection directive 99/92/CE: defines the users' obligations.

Degree of protection:

In hazardous areas, equipment is required to offer a minimum degree of protection of IP54, but it can be tested or certified with a higher degree of protection.



Equipment installed in an explosive atmosphere zone must be protected against the risk of explosion. Three levels of protection have been defined, corresponding to the three probabilities of existence of an explosive atmosphere. They are broken down into 5 categories depending on the type of industry.

Protection of equipment against explosions			ATEX	
Group *	Category	Level	Probability	Zone
I	M1	Very high	Permanent	0 / 20
	M2	High	Occasional	1 / 21
II	1	Very high	Permanent	0 / 20
	2	High	Occasional	1 / 21
	3	Normal	Accidental	2 / 22

* I = equipment designed to be used in the mining and quarrying industries
 II = equipment designed to be used in surface industries

Enclosures for explosive atmospheres

Introduction

> Protection of electrical equipment

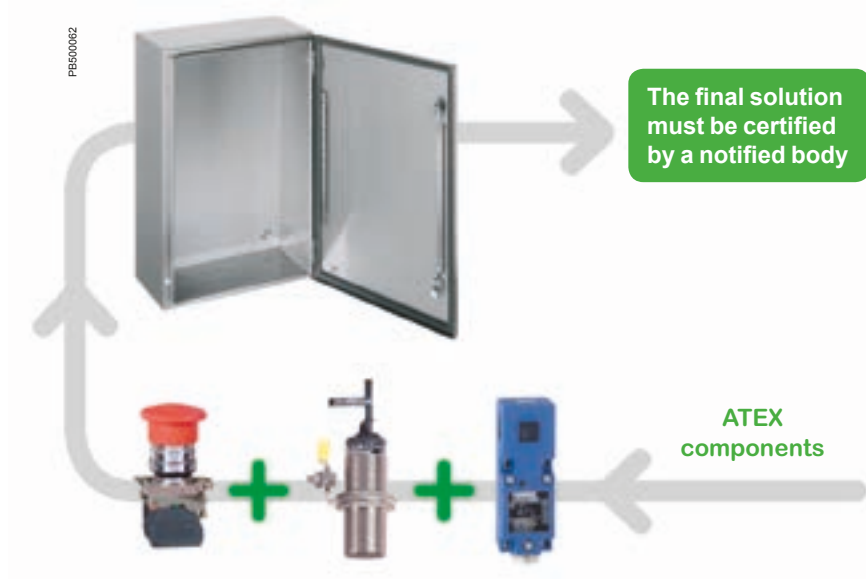
The standards have defined various methods of protection for electrical equipment depending on whether it is located in gaseous or dusty explosive atmospheres.

Electrical equipment		ATEX	Methods of protection	
CENELEC	IEC		Symbol	Title
EN 50015	IEC 60079-6	G, D	o	Immersion in oil
EN 50016	IEC 60079-2	G, D	p	Enclosures with internal overpressure
EN 50017	IEC 60079-5	G, D	q	Filling with powder product
EN 60079-1	IEC 60079-1	G, D	d	Explosion-proof enclosures
EN 60079-7	IEC 60079-7	G, D	e	Enhanced safety "e"
EN 50020	IEC 60079-11	G, D	i	Intrinsic safety
EN 60079-15	IEC 60079-15	G, D	n	Product design
EN 60079-31	IEC 60079-31	G, D	tD	Protection by enclosure "t"

* G = gas / vapour or mist
D = dust

> ATEX certification of electrical switchboards

- Since 1 July 2003, the European Union has made it compulsory to use certified equipment (electrical or non-electric) when it is to be installed in areas where the atmosphere is potentially explosive.
- The certification must be established by an approved organization in accordance with the 2014/34/EU directive.
- The organization certifies that the product complies with the health and safety requirements defined in the European directive and the international standards.
- The certificate indicates, via the marking, the product's category and accordingly the zone and the atmosphere in which it can be used.
- Cubicles are certified as components. They will be assembled with other ATEX components (electrical, pneumatic, hydraulic, etc.), to form an end solution which must itself be ATEX certified and covered by a declaration of conformity.



Enclosures for explosive atmospheres

Introduction

ATEX cubicles from Schneider Electric

Steel

Steel enclosures

- All the wall-mounting enclosures presented in this brochure comply with standards for protection against the potential risk of explosion in atmospheres charged with gas (G) or dust (D).
- The Schneider Electric offer, designed to be used in group II, is classified as category 2.

Protection of equipment against explosions			ATEX	
Group *	Category	Level	Probability	Zone
I	M1	Very high	Permanent	0 / 20
	M2	High	Occasional	1 / 21
II	1	Very high	Permanent	0 / 20
	2	High	Occasional	1 / 21
	3	Normal	Accidental	2 / 22

* I = equipment designed to be used in the mining and quarrying industries

II = equipment designed to be used in surface industries

Zone of application of Schneider Electric ATEX wall-mounting enclosures.

- Category 2 products can be used as category 3.
- Our products are certified:
 - for gaseous atmospheres: in enhanced safety "e" (Ex e) but not in explosion-proof safety "d" (Ex d);
 - for dusty atmospheres: in protection by enclosure "t" or "tb".
- The wall-mounting enclosures offer a degree of protection IP66 according to IEC 60529, exceeding the recommendations of the ATEX directive.
- Certification of our production sites and inspection procedures guarantees observance and consistency of the quality level.

PB501817-54



> Industrial environments, equipment rooms

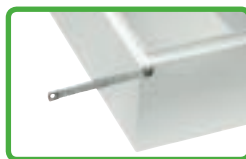
Spacial S3DEX steel enclosure

- The **Spacial S3DEX steel enclosure** is certified by the LCIE with no. LCIE 02ATEX0037U (component certification).
- Ten sizes: from 300 x 200 x 150 mm to 1000 x 800 x 300 mm.
- Degree of protection: IP66.
- Ambient temperature limits: $-20^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$.
- Resistance to external mechanical impacts: IK10.
- Structured finish, epoxy-polyester paint, RAL 7035 grey colour.

Enclosures for explosive atmospheres

Introduction

PB500411-32



Personnel safety

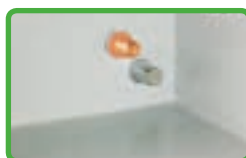
Blind nut for external earth connection.

PB500407-32



Earthing studs welded to the door and inside the body.

PB502596-32



Robust

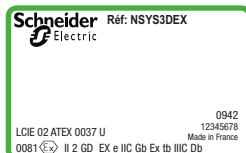
The chassis is mounted on four 10-mm shouldered backstuds.

PB500413-32



The 4 fixing holes are blocked by 4 crimped blind nuts.

DB300871



Label

Example of specific ATEX marking (description: page 593).

DB300073-12



Easy handling

- Reusable, eco-friendly packaging.
- No sharp corners.

[!] In accordance with the ATEX directive

- The enclosures bear the marking shown page 593.
- The enclosures offer a degree of protection of IP66 according to IEC 60529, 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.

Protective of all applications in ATEX II2 or II3 areas –surface installations with occasional or accidental – thanks to ATEX-certified steel.

Enclosures for explosive atmospheres

Characteristics

PB500086-14



Characteristics	Spacial S3DEX
	<p>Protection for users</p> <ul style="list-style-type: none"> ■ Earthing: The Spacial S3DEX steel cubicles are provided with M6 x 16 earth studs welded to the casing and door for equipotential connection. Earth strap to be ordered separately. ■ Closing: Above a height of 600 mm the cubicles are provided with three fastening points with connecting rods, with a single control point preventing the cubicles from being left half-open. <p>Casing</p> <ul style="list-style-type: none"> ■ Monobloc casing (cross structure). Gutter-shaped front profile. ■ 4 bottom shoulder studs M8 x 25 for mounting the chassis and notched bars to provide a space of 10 mm at the rear. <p>Door</p> <ul style="list-style-type: none"> ■ Standard fastening by 3 mm double-bar lock ■ Polyurethane door seal ■ Double-thickness 20 mm return conferring excellent rigidity; ■ 2 invisible hinges (3 above H = 800 mm) facilitate dismantling and reversibility of the door. Opening angle: 120° ■ Maximum load: 50 kg/m². ■ Pierced sections on the door, with holes of diameter 4.2 mm every 25 mm for mounting accessories: <ul style="list-style-type: none"> <input type="checkbox"/> 2 vertical sections as of H = 400 mm; <input type="checkbox"/> 2 vertical sections and 2 horizontal sections as of L = 800 mm. <p>Specific ATEX features</p> <ul style="list-style-type: none"> ■ 4 fastening holes stopped up by 4 crimped blind nuts. ■ One crimped M8 blind nut for an external frame earth link (strap not provided) ■ Ambient temperature: -20°C ≤ Ta ≤ +40°C ■ Marking: see page 593.
Material	Steel
Finish	Structured finish, epoxy-polyester paint
Colour	RAL 7035 grey
Ingress protection rating	IP66 (enclosures with single door) according to IEC 60529
Mechanical protection rating	IK10 (enclosures with plain door) according to IEC 62262
Fixing	<ul style="list-style-type: none"> ■ Wall-fixing lugs: <ul style="list-style-type: none"> <input type="checkbox"/> Passivated zinc-coated steel: reference NSYAEFPFSC. <input type="checkbox"/> 304L stainless-steel: reference 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.

PB500086-14



Characteristics			Spacial S3DEX
Dimensions (mm)			
Height	Width	Depth	Références
300	200	150	NSYS3DEX3215
		200	NSYS3DEX3320
400	300	200	NSYS3DEX4320
	400	200	NSYS3DEX4420
500	400	200	NSYS3DEX5420
600	400	200	-
		250	NSYS3DEX6425
		250	NSYS3DEX6625
700	500	250	NSYS3DEX7525
800	600	250	-
		300	NSYS3DEX8630
1000	800	300	NSYS3DEX10830

Enclosures for explosive atmospheres

Accessories



Accessories for Thalassa PLM enclosures can be installed in Thalassa PLMEX enclosures. However, plastic accessories should not be used, due to the risk of a static charge.

PB500072-12



PB500100-12



PB500101-18



PB500102-16



PB500104-16



PB500136-19



Characteristics			Accessories					
Dimensions (mm)			Mounting plates				Mixed symmetrical chassis	Step slides
Height	Width	Depth	Plain	Silkscreened	Microperforated	Telequick		
300	200	150	NSYMM32	-	-	NSYMR32	-	-
	300	200	NSYMM33	-	NSYMF33	NSYMR33	NSYMD33	NSYSDCR200
308	255	160	NSYMM3025	-	-	NSYMR3025	-	-
400	300	200	NSYMM43	NSYMS43	NSYMF43	NSYMR43	NSYMD43	NSYSDCR200
		400	NSYMM44	NSYMS44	NSYMF44	-	-	NSYSDCR200
430	330	200	NSYMM43	NSYMS43	NSYMF43	NSYMR43	-	NSYDPLM200
500	400	200	NSYMM54	NSYMS54	NSYMF54	NSYMR54	NSYMD54	NSYSDCR200
530	430	200	NSYMM54	NSYMS54	NSYMF54	NSYMR54	-	NSYDPLM200
600	400	200	NSYMM64	NSYMS64	NSYMF64	NSYMR64	NSYMD64	NSYSDCR200
		250	NSYMM64	NSYMS46	NSYMF64	NSYMR64	NSYMD64	NSYSDCR250
	600	250	NSYMM66	NSYMS66	NSYMF66	NSYMR66	NSYMD66	NSYSDCR250
647	436	250	NSYMM64	NSYMS64	NSYMF64	NSYMR64	-	NSYDPLM250
700	500	250	NSYMM75	NSYMS75	NSYMF75	NSYMR75	NSYMD75	NSYSDCR250
747	536	300	NSYMM75	NSYMS75	NSYMF75	NSYMR75	-	NSYDPLM300
800	600	250	NSYMM86	NSYMS86	NSYMF86	NSYMR86	NSYMD86	NSYSDCR250
		300	NSYMM86	NSYMS86	NSYMF86	NSYMR86	NSYMD86	NSYSDCR300
847	636	300	NSYMM86	NSYMS86	NSYMF86	NSYMR86	-	NSYDPLM300
1000	800	300	NSYMM108	-	NSYMF108	NSYMR108	NSYMD108	NSYSDCR300
1056	852	350	NSYMM108	-	NSYMF108	NSYMR108	-	NSYDPLM350

Enclosures for explosive atmospheres

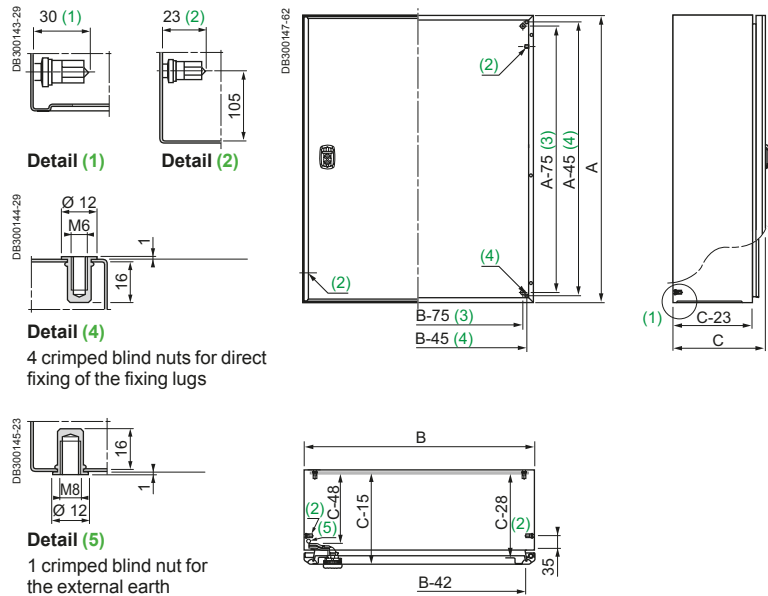
Dimensions

Spacial S3DEX

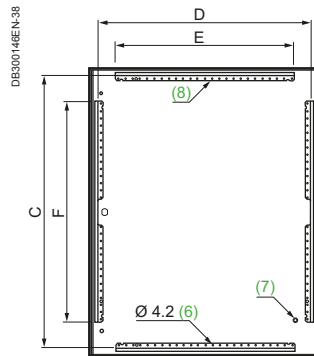
1-door enclosure

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.



Perforated rails on the door



- (6) Perforations with a pitch of 25 mm.
- (7) 1 M6 x 17.5 mm earthing stud.
- (8) The doors of enclosures with dimensions of less than 800 x 600 mm do not have horizontal wire guides.

Enclosure (8)		Perforated rails on the door (mm)			
Height (A) (mm)	Width (B) (mm)	Vertical		Horizontal	
		F	D	E	C
400	300	320	237	-	-
	400	320	337	-	-
600	400	370	337	-	-
	600	370	537	-	-
700	500	470	437	-	-
800	600	570	537	-	-
1000	800	770	737	620	949

Human-Machine Interface Solutions

Steel

> Indoor non-clean industrial environment

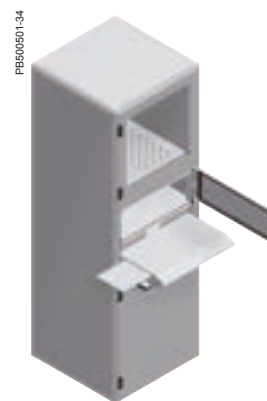
Control enclosure with suspension system



Control Desks



PC racks



Stainless-steel

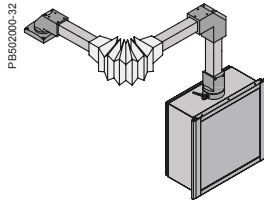
> Demanding industrial environment

Control Desks



PC racks





PB502000-32

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 458



PB500086-61

Spacial SD Control desks

The range of Spacial SD control desks provides all the functions required of a workstation intended for industrial 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 IP55 and IK10, which guarantee the safety and the protection of the installed devices.

> See page 468



PB502208-16

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 484



PB501287-30

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 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 469



PB501223-55

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 488

Human-Machine Interface

Introduction

➤ 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.



Human-Machine Interface Solutions

PB500433-33



Robust

- 2 tube sizes in extruded steel, 50 and 80 mm square, thickness 40/10° mm.
- Top wall reinforced by a plate with a thickness of 30/10° mm.

PB500418-29



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.

PB500446-37



Ergonomics

Frame designed for handling the enclosure and facilitating the usage by the operator.

PB500439-21

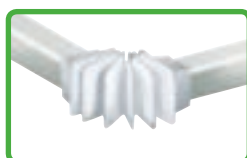


Easy

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.

PB500300



Flexibility

Rotation through 170°; complete range of joints, fixed or rotating.

This range can be configured according to your needs

4 different services available:



Assemble to order



Mounting of standard accessories



Painting



Machining

See page 496 for details or consult our web site www.se.com

Human-Machine Interface Introduction

Every model is suitable for tubes with a square section of:

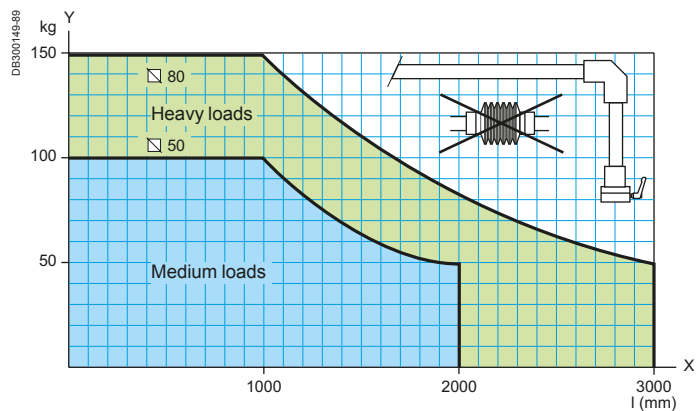
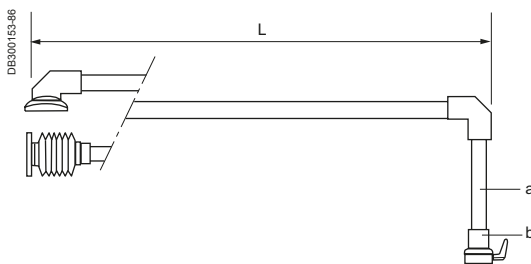
- 50 mm for medium loads,
- 80 mm for heavy loads

(see selection table on page 466).

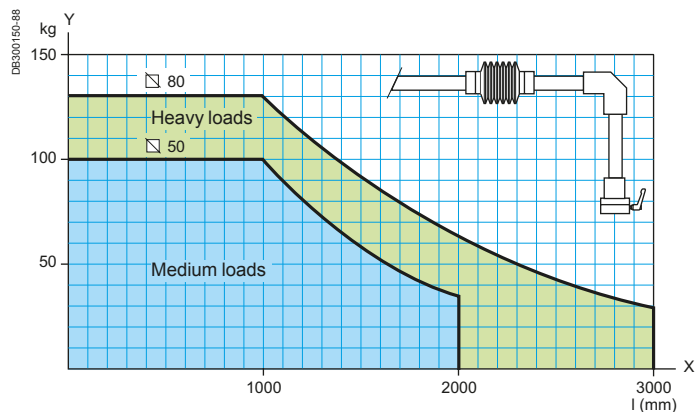
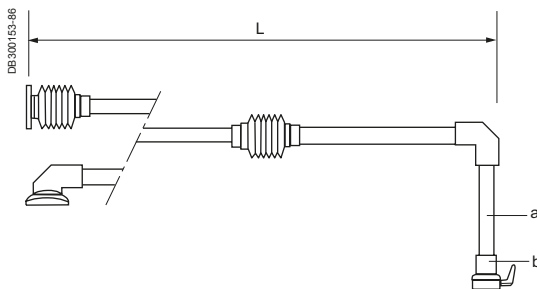
Steps to choose the suspension system (medium or heavy loads)

- 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.

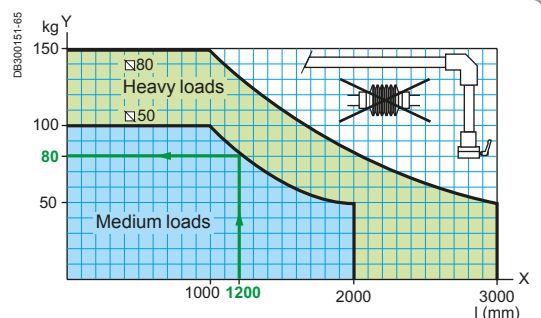


* The load (a + b + enclosure + installed equipment) must be less than the maximum load.

★ Example

- 1 - Total load (kg) = 80 kg.
- 2 - Length (L) = 1200 mm.
- 3 - Suspension system without intermediate joint.

Recommended system > Medium loads □ 50.



Human-Machine Interface

Characteristics



Perforated rails installed on lateral studs.



Rear door with double-bar lock.



Detail of the reinforcement plate.



Fixing of the trim frame by screws.



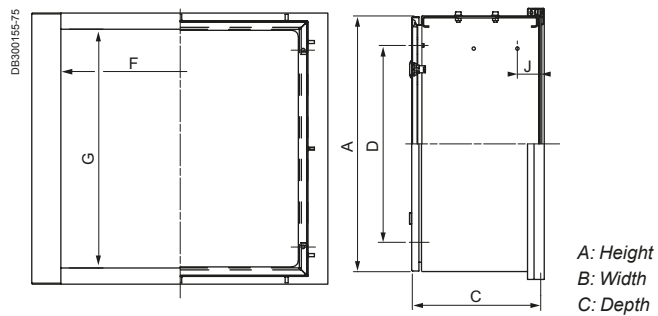
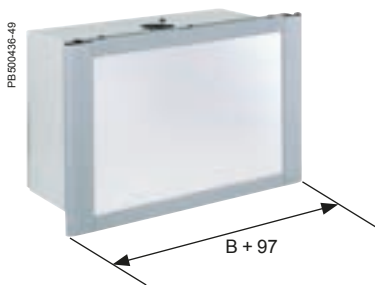
Characteristics		Spacial S3CM			
		The control enclosures consist of:			
		<ul style="list-style-type: none"> ■ A steel body equipped with: <ul style="list-style-type: none"> □ reinforcement plate: the top wall is reinforced by a plate (3 mm) and pierced with a hole Ø 54 or 87 mm (according to the reference) 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): <ul style="list-style-type: none"> □ 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. Structured finish, epoxy-polyester powder, RAL 7040 grey colour (other colours on demand).			
		<ul style="list-style-type: none"> ■ 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. 			
Finish		Structured finish, epoxy-polyester powder			
Colour		RAL 7035 grey			
Ingress protection rating		IP54 according to IEC 60529			
Mechanical protection rating		IK10 according to IEC 62262			
Enclosure dimensions (mm)			Enclosure load (kg)	Tube section (mm)	References
Height	Width	Depth			
300	300	200	8.6	50	NSYS3CM303020
	400	200	9.5	50	NSYS3CM304020
400	400	200	11.4	50	NSYS3CM404020
	600	250	17.9	50	NSYS3CM406025*
500	500	250	20.2	50	NSYS3CM505025
600	600	200	26.5	50	NSYS3CM606020*
	800	300	34.9	80	NSYS3CM608030
800	600	300	33.6	80	NSYS3CM806030*

* Enclosure equipped with a cable-gland plate.

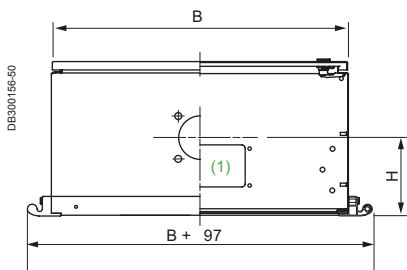
Human-Machine Interface Dimensions

Enclosure dimensions (mm)								Cable-gland plate	Ø Top hole (mm)	Fig.	Enclosure
Height (A)	Width (B)	Depth (C)	D	F	G	H	J				References
300	300	200	162	262	262	100	45	-	54	1	NSYS3CM303020
	400	200	162	362	262	100	45	-	54	1	NSYS3CM304020
400	400	200	262	362	362	100	45	-	54	1	NSYS3CM404020
	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*
	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.



W600 enclosure + box-keyboard installation



(1) Cable-gland plate.

Figure 1
Enclosure depth from 200 to 250

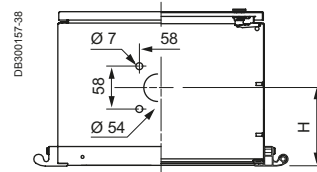
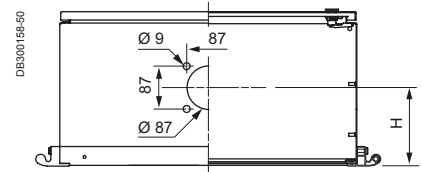


Figure 2
Enclosure depth 300



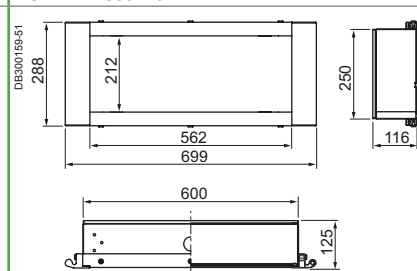
Human-Machine Interface

Specific accessories

Box-keyboard for control enclosure



Characteristics	Box-keyboard for control enclosure
	<p>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. The box for the keyboard consists of:</p> <ul style="list-style-type: none"> ■ 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.
Ingress protection rating	IP54 according to IEC 60529
Mechanical protection rating	IK10 according to IEC 62262
Weight	8 kg
Reference	
Height (mm)	Width (mm)
250	600
Depth (mm)	NSYCMT2560110



Support

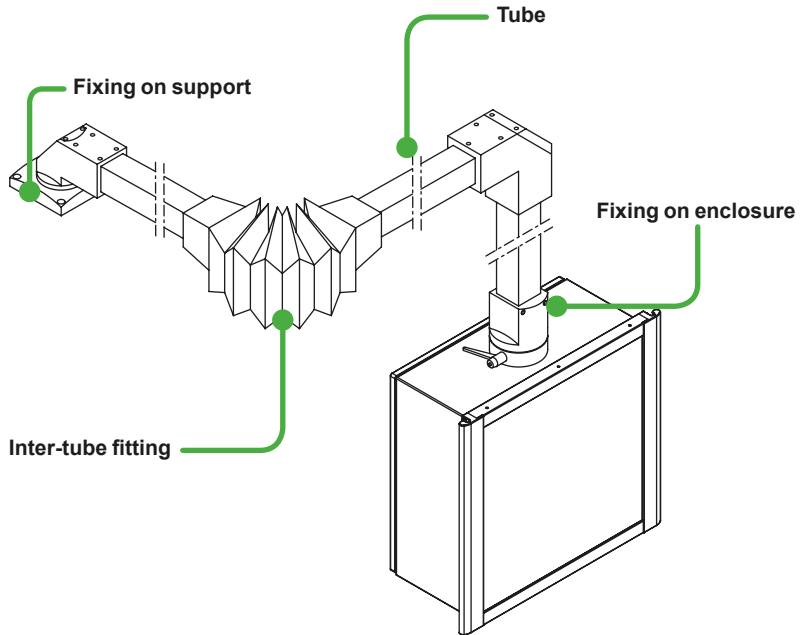


Characteristics	Support	
	Laptop computer	Keyboard
	Installation on the left or right rail of the frame of the control enclosure.	
Material	Steel	
Finish	Structured finish, epoxy-polyester powder	
Colour	RAL 7035 grey	
Thickness	15/10° mm	15/10° mm
Weight	2.04 kg	2.16 kg
References		
Height (mm)	Width (mm)	Depth (mm)
315	230	-
-	350	310
-	500	200
	NSYCMBPC	NSYCMBPT

Human-Machine Interface

Specific accessories

Suspension system

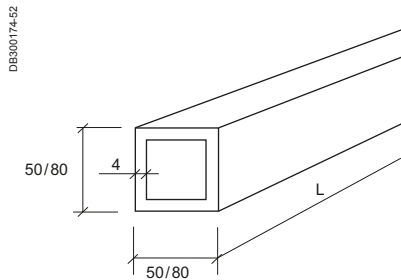


P850042

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.
- **Finish:** structured finish, powder.
- **Colour:** RAL 7035 grey.
- **Thickness:** 40/10° mm.
- **Weights:**
 - 50 x 50: 6.5 kg/m,
 - 80 x 80: 10.5 kg/m.

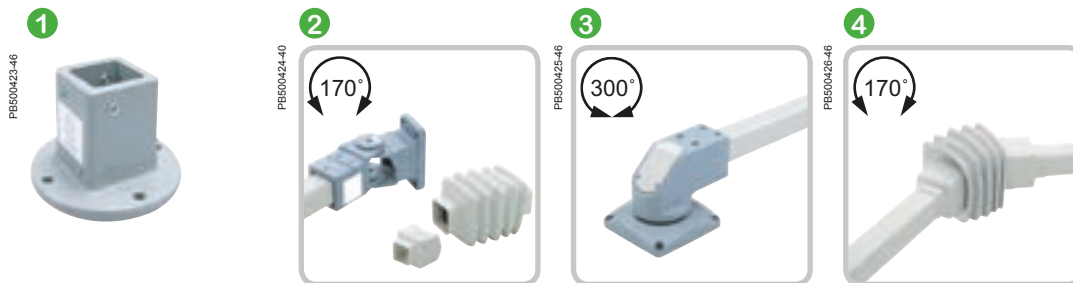
Length (m)	50 mm square	80 mm square
Length (m)	References	
0.5	NSYCMT5005	NSYCMT8005
1	NSYCMT5010	NSYCMT8010
1.5	NSYCMT5015	NSYCMT8015
2	NSYCMT5020	NSYCMT8020



DB300174-52

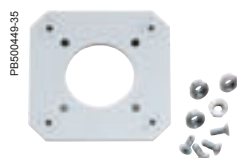
Human-Machine Interface Accessories

Suspension system



Characteristics	Fixed base		Wall fixing with joint		Rotating straight fitting		Horizontal inter-tube joint	
	Support foot for direct horizontal or vertical connection.		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.		Device allowing the fixing and rotation through 300° of tubes, with a square section of 50 or 80 mm, in horizontal position. Without blocking the chosen position. Fixing by 4 screws, not included.		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		Moulded steel		Moulded steel		Moulded steel	
Colour	RAL 7040 grey		RAL 7040 grey		RAL 7040 grey		RAL 7040 grey	
Weight (kg)	3.25	7	4.35	9.45	5.4	15.7	4.25	10
Dimensions (mm)								
∅ A	50 mm square	80 mm square	50 mm square	80 mm square	50 mm square	80 mm square	50 mm square	80 mm square
B	42	72	92	115	50	74	42	72
C	105	134	118	160	68	98	236	320
D	11	11	42	72	42	72	67	94
E	125	173	85	130	30	45	148	190
F	152	201	11	11	96	144	-	-
G	-	-	148	190	96	141.5	-	-
H	72	111	80	115	134	195.5	-	-
I	97	126	130	175	140	210	-	-
J	-	-	55	90	120	180	-	-
K	-	-	68	103	9	13	-	-
L	110	140	105	150	55	84	-	-
S	15	16	-	-	-	-	-	-

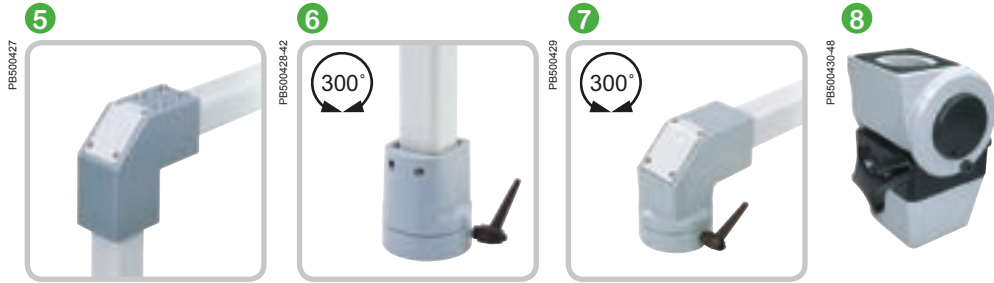
References	NSYCMUMR50	NSYCMUMR80	NSYCMUMA50	NSYCMUMA80	NSYCMUMC50	NSYCMUMC80	NSYCMUIA50	NSYCMUIA80



Adapter part for enclosure D300 / Ø 80 mm

Reference
NSYCMUCPAD87

Suspension system

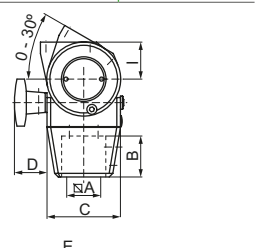
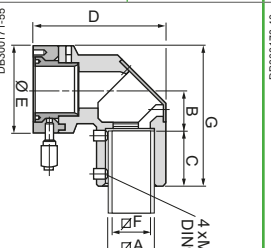
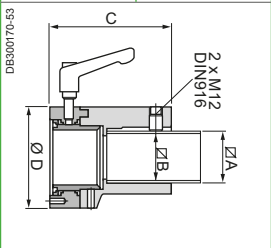
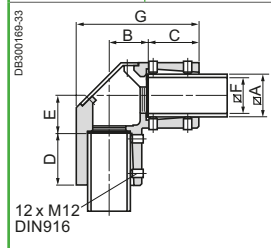


Characteristics	Fixed bracket	Rotating fixing on enclosure	Rotating fixing in bracket on enclosure	Tilting fixing on enclosure
	Our system of tubes and joints, fixed or rotating, enables all the solutions to respond to the installation needs of the control enclosures for human-machine dialogue. Device allowing the combination and fixing of a horizontal tube with a vertical tube.	Device allowing the fixing and rotation through 300° of tubes, with a square section of 50 or 80 mm, in vertical position. System for blocking in the chosen position. Fixing through the support surface by 4 screws.	Devices allowing the fixing and rotation through 300° of tubes, with a square section of 50 or 80 mm, in horizontal position. System for blocking in the chosen position. Fixing through the support surface by 4 screws.	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.
Material	Aluminium	Aluminium	Aluminium	Aluminium + PA
Colour	RAL 7040 grey	RAL 7040 grey	RAL 7040 grey	RAL 7040 grey + PA black
Weight (kg)	1.35 2.4	1.25 3.1	2 6.55	2.98 3.10

Dimensions (mm)										
∅ A	50 mm square		80 mm square		50 mm square		80 mm square		50 mm square	
B	46	56	42	72	46	56	55	55	55	55
C	60	83	115	145	60	83	100	100	100	100
D	60	83	96	139	147	190	44	44	44	44
E	46	56	52.3	85	96	139	121	121	121	121
F	42	70	58	87	42	72	182	182	182	182
G	144	193	-	-	154	208.5	50	50	50	50
H	-	-	-	-	42	70	100	100	100	100
I	-	-	-	-	58	87	50	50	50	50
M	-	-	M6	M8	M6	M8	-	-	-	-

References

NSYCMUTC50	NSYCMUTC80	NSYCMUCR50	NSYCMUCR80	NSYCMUCC50	NSYCMUCC80	NSYCMUCP50	NSYCMUCP80
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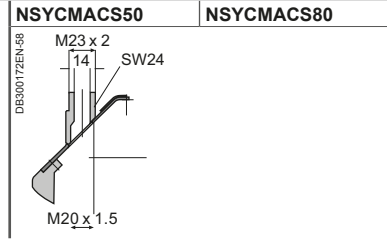


Adapter for signalling beacon

■ It is installed on fixed brackets ref. **NSYCMUTC50** and **NSYCMUTC80**.
 ■ **Material:** aluminium.
 ■ **Finish:** structured finish, powder.
 ■ **Colour:** RAL 7040 grey.











Weight	0.025 kg	0.08 kg
∅ A	50 mm square	80 mm square

References



Human-Machine Interface

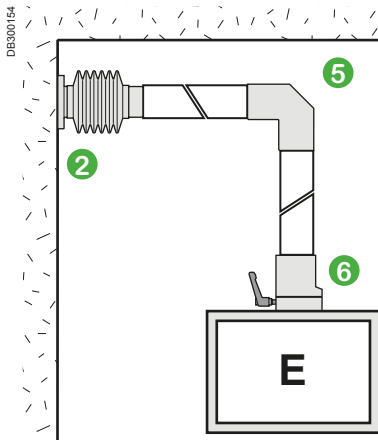
Selection guide

Enclosure		References	
	H x W x D (mm) top wall	Tube section ∅ 50 mm	∅ 80 mm
	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		References	
	Length (m)	Tube section ∅ 50 mm	∅ 80 mm
	0.5	NSYCMT5005	NSYCMT8005
	1	NSYCMT5010	NSYCMT8010
	1.5	NSYCMT5015	NSYCMT8015
	2	NSYCMT5020	NSYCMT8020
Fixing on support (steel material)		References	
	① Fixed base	Tube section ∅ 50 mm	∅ 80 mm
		NSYCMUMR50	NSYCMUMR80
			② Wall fixing with joint
	③ Rotating straight fitting		
		Inter-tube fitting (aluminium material)	
	④ Horizontal inter-tube joint	Tube section ∅ 50 mm	∅ 80 mm
		NSYCMUIA50	NSYCMUIA80
	⑤ Fixed bracket	NSYCMUTC50	NSYCMUTC80
Fixing on enclosure (aluminium material)		References	
	⑥ Rotating fixing on enclosure	Tube section ∅ 50 mm	∅ 80 mm
		NSYCMUCR50	NSYCMUCR80
			⑦ Rotating fixing in bracket on enclosure
	⑧ Tilting fixing on enclosure		

* Enclosure equipped with a cable-gland plate.

(1) Installation on an enclosure D300 requires plate ref. NSYCMUCPAD87 (see page 464).

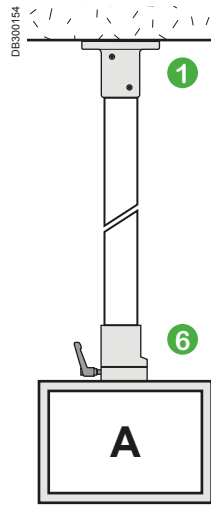
Human-Machine Interface Examples



Fixing on support
 2 See page 464

Inter-tube fitting
 5 See page 465

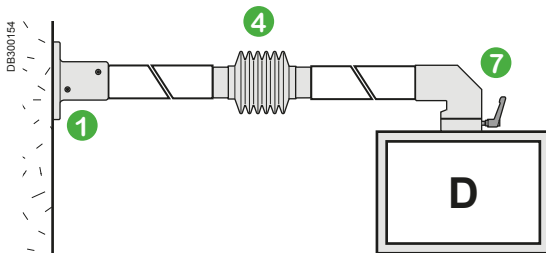
Fixing on enclosure
 6 See page 465



Fixing on support
 1 See page 464

Inter-tube fitting
 -

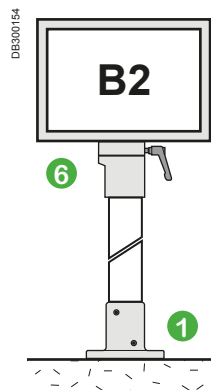
Fixing on enclosure
 6 See page 465



Fixing on support
 1 See page 464

Inter-tube fitting
 4 See page 464

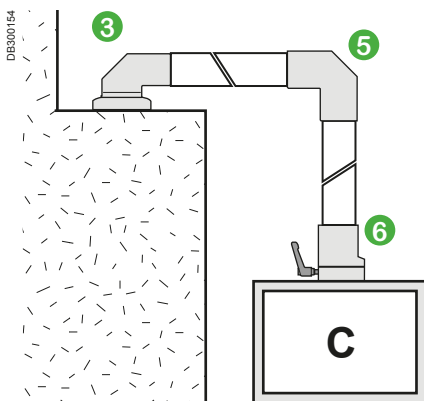
Fixing on enclosure
 7 See page 465



Fixing on support
 1 See page 464

Inter-tube fitting
 -

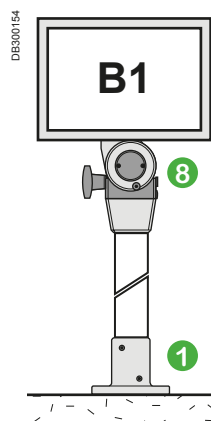
Fixing on enclosure
 6 See page 465



Fixing on support
 3 See page 464

Inter-tube fitting
 5 See page 465

Fixing on enclosure
 6 See page 465



Fixing on support
 1 See page 464

Inter-tube fitting
 -

Fixing on enclosure
 8 See page 465

Human-Machine Interface

Introduction

SD

> The range of **Spacial SD** control desks provides all the functions required of a workstation intended for industrial and infrastructure applications.



Steel control desks

PB501202-16



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.

PB501197-32



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.

PB501189-14



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.

PB501194-19



Compatibility

Furthermore, the Spacial SD control desk is compatible with most of the accessories of the Spacial SF and SM ranges.

This range can be configured according to your needs

4 different services available:



Assemble to order



Mounting of standard accessories



Painting



Machining

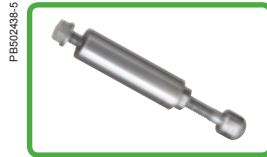
See page 496 for details or consult our web site www.se.com

SDX

> 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.



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, adjustable between 140 mm and 200 mm height, make it easier to clean under the enclosures.



Resistance to corrosion

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



Compatibility with the other ranges

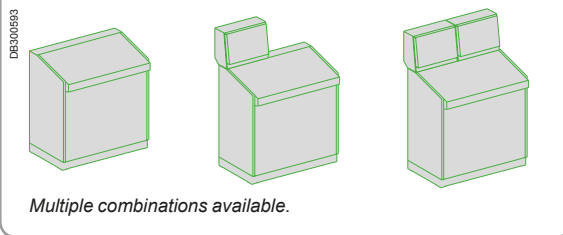
- Stainless-steel accessories:
 - plinths, locks.
- Accessories of the steel control desks offer:
 - mounting plate, pneumatic opening stay, etc.



Convenient

The 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 Consoles and control desks



This range can be configured according to your needs

4 different services available:



Assemble to order



Mounting of standard accessories



Painting



Machining

See page 496 for details or consult our web site www.se.com

Human-Machine Interface

Characteristics



Characteristics	Compact control desk	Control desk with console
	<p>This range is available in 4 widths with fixed rear panel. Full accessibility is provided from the front (no central upright).</p> <p>Easy removable and reversible door opening to 120°.</p> <p>Locking by 3-mm double-bar lock (other inserts or cylinders also available, to be ordered separately, see page 480).</p> <p>Desk lid equipped with a pneumatic opening stay. Opens to 75°. Perforated reinforcement rails with a pitch of 25 mm.</p> <p>Control desk equipped with adjustment rails with a pitch of 25 mm and brackets allowing adjustment of the mounting plate depth.</p> <p>Cable-gland plate with 2 adjustable parts, with polyurethane gasket.</p> <p>M8 x 18-mm earthing bolt for equipotential connection between the door and the body.</p>	<p>Full accessibility is provided from the front and rear.</p> <p>Easy removable and reversible front door, opening to 120°.</p> <p>Locking by two-point locks with 3-mm double-bar insert.</p> <p>Desk lid equipped with a pneumatic opening stay. Opens to 75°.</p> <p>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.</p> <p>Hinged console cover equipped with a pneumatic opening stay. Opens to 75°.</p> <p>Locking by two-point locks with 3-mm double-bar insert.</p> <p>Easy removable and reversible rear door, opening to 120°.</p> <p>Locking by three-point lock with flat escutcheon, 5-mm double-bar insert.</p> <p>One entry cable-gland plate, with polyurethane gasket.</p> <p>Control desk equipped with adjustment rails with a pitch of 25 mm and brackets allowing adjustment of the mounting plate depth.</p> <p>M8 x 18-mm earthing bolt for equipotential connection between the door and the body.</p>
Material	Welded folded steel	Welded folded steel
Finish	Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder
Colour	RAL 7035 grey	RAL 7035 grey
Thickness	15/10 ⁶ mm	15/10 ⁶ mm
Ingress protection rating according to IEC 60529	IP55	IP55
Mechanical protection rating according to IEC 62262	IK10	IK10
Options	It can also be equipped with a mounting plate, see page 482	Plinth options see page 478. It can also be equipped with a mounting plate, see options page 482. Locking system: other inserts or cylinders also available, see page 480. The console can support the installation of a 14" screen with an optional PC support plate, see page 482.

References

Dimensions (mm)		Door number	No. Front doors	No. Rear doors	No. cable gland plates	
Width (B)	Height					
600	1000	1	-	-	-	-
		2				
		NSYS D6				
800	1000	1	-	-	-	-
		2				
		NSYS D8				
	1400	1	1	1	NSYS D F88	
		2	1	1	NSYS D F810	
		NSYS D10				
1000	1000	1	-	-	-	-
		2				
		NSYS D12				
	1400	1	2	2	1	NSYS D F108
		2	2	2	1	NSYS D F1010
		NSYS D10				
1200	1000	1	-	-	-	-
		2				
		NSYS D12				
	1400	1	2	2	1	NSYS D F128
		2	2	2	1	NSYS D F1210
		NSYS D10				
1600	1400	1	2	2	2	NSYS D F168
		2	2	2	2	NSYS D F1610

Human-Machine Interface Characteristics

SD



SDX



Compact control desk with rear panel

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.
 Easy removable and reversible door, opening to 120°. Locking by 3-mm doublebar lock (other inserts or cylinders also available, to be ordered separately, see page 480).
 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.

Welded folded steel	304L stainless-steel
Structured finish, epoxy-polyester powder paint	Scotch-Brite® brushed finish
RAL 7035 grey	-
15/10° mm	15/10° mm
IP55	IP55
IK10	IK10
Modular consoles to be installed on top of compact control desk. See details and combinations page 476. It can also be equipped with a mounting plate, see page 482.	Stainless-steel modular consoles to be installed on top of compact control desk. See details and combinations page 476. It can also be equipped with a mounting plate, see page 482.

Door number		Door number	
1	2	1	2
-	-	-	-
-	-	NSYSDX6	-
NSYSD6R	-	-	-
-	-	-	-
-	-	NSYSDX8	-
NSYSD8R	-	-	-
-	-	-	-
-	-	-	-
-	-	-	NSYSDX10
-	NSYSD10R	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	NSYSDX12
-	NSYSD12R	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Human-Machine Interface Dimensions

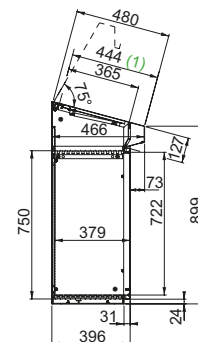
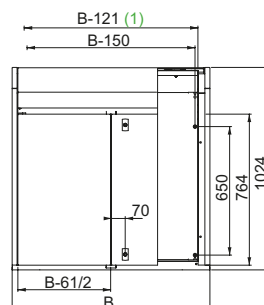
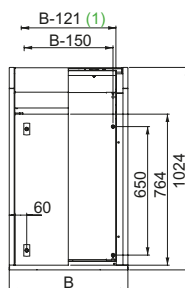
SD

Compact control desk

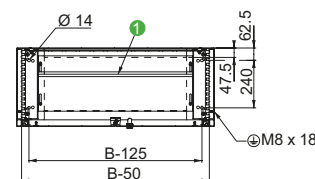
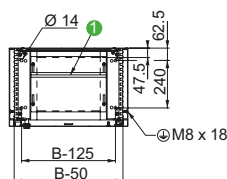
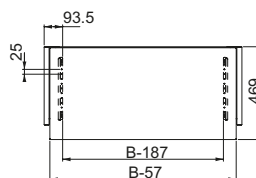
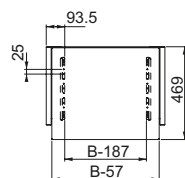
1 door

2 doors

DB30055REN-102



Common side view.
(1) Useful clearance.



Cable-gland plate clearance dimensions (mm)

Width	Maximum opening
B-280	56

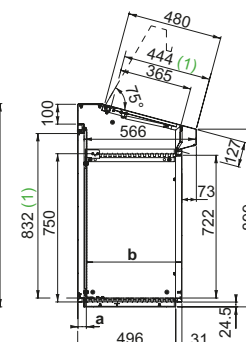
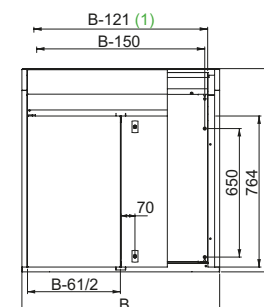
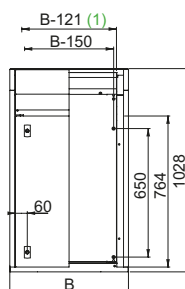
SD

Compact control desks with rear panel

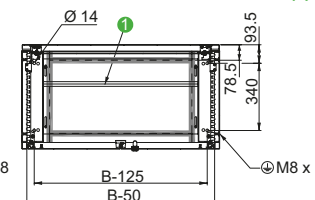
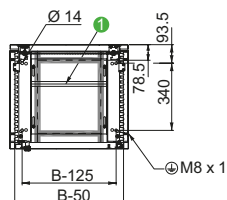
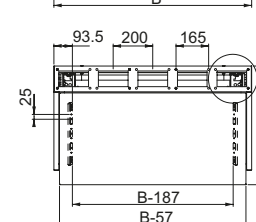
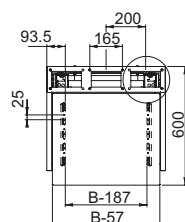
1 door

2 doors

DB300557EN-108



Common side view.
(1) Useful clearance.



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

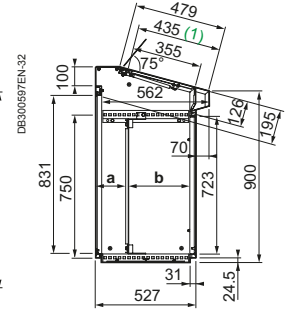
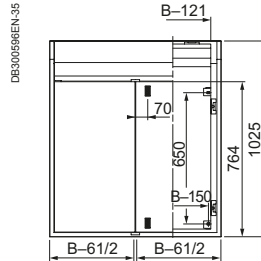
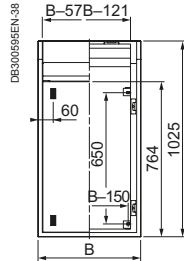
Human-Machine Interface Dimensions

SDX

Compact control desks with rear panel

1 door

2 doors



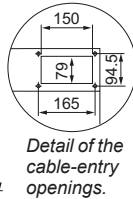
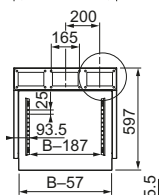
Common side view.
(1) Useful clearance.

Cable-gland plate clearance dimensions (mm)

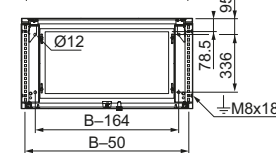
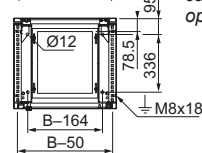
Width	Maximum opening
B-280	370

Adjustment of the depth of the mounting plate (mm)

Depth	Min.	Max.
a	45	395
b	126	476



Detail of the cable-entry openings.

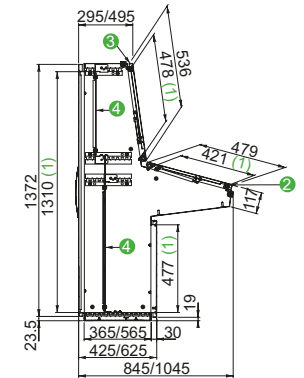
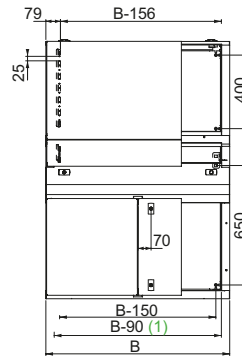
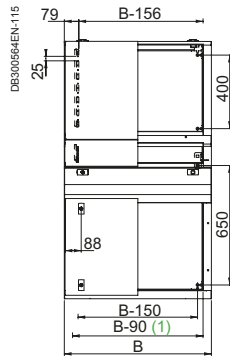


SD

Control desk with console

1 door

2 doors



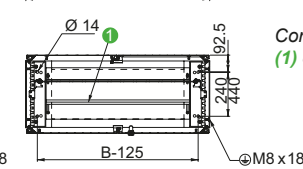
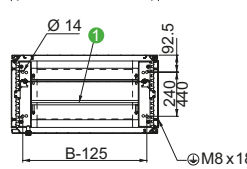
Common side view.
(1) Useful clearance.

Cable-gland plate clearance dimensions (mm)

Width	Maximum opening
B-280	56

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 482



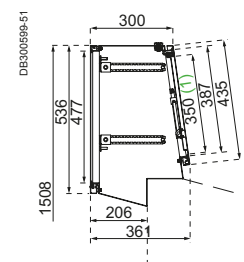
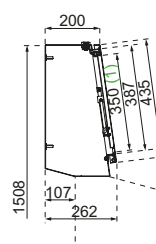
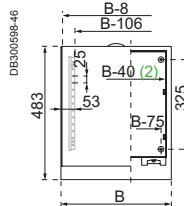
SD

SDX

Modular console

Depth 200 mm

Depth 300 mm



(1) Useful clearance.
(2) Same dimensions for the rear panel.

Human-Machine Interface

Specific accessories overview

PB501614-77



Composition accessories

Modular consoles



Page 476

Floor



Page 478

Door



Page 479

Locking system



Page 480

Windows



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Installation accessories

Mounting acc.



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Human-Machine Interface

Common accessories overview

PB502439-65



Cable management

Cable holding

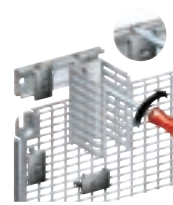
PB500986-40



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Cable ducting

PB500959-22



Page 271

Thermal management

Heaters

PB502050-29



Page 564

Ventilation

PB501044-26



Page 506

Others

Earthing

PB500948-88 PB500217-18 PB500084-24



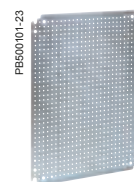
Page 285

Human-Machine Interface Accessories

Modular consoles



Characteristics			Modular consoles			
			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 480). Screw fixed rear panel equipped with step slides in the version with a depth of 300 mm.			
Material	Welded folded steel		304L stainless-steel			
Finish	Structured finish, epoxy-polyester powder		Scotch-Brite® brushed finish			
Colour	RAL 7035 grey		-			
Thickness	15/10° mm		15/10° mm			
Ingress protection rating	IP55 according to IEC 60529		IP55 according to IEC 60529			
Mechanical protection rating	IK10 according to IEC 62262		IK10 according to IEC 62262			
Options	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.					
References						
Dimensions (mm)			No. of cable entry cut-outs			
Width (B)	Height	Depth	2	3	2	3
400	483	200	NSYSDC42	-	NSYSDCX42	-
		300	NSYSDC43	-	NSYSDCX43	-
600	483	200	-	NSYSDC62	-	NSYSDCX62
		300	-	NSYSDC63	-	NSYSDCX63



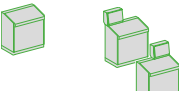


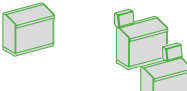



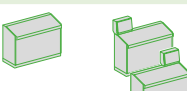

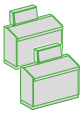




Characteristics			Blanking cover		Mounting plates for modular consoles			
			To conceal the free space of the control desk when the width of the console or consoles is less than the width of the control desk. In any case, it is necessary to previously remove the top plate delivered with the control desk.		Steel mounting plates can be installed at the back of modular consoles (F). See more information about the mounting plates page 214.			
Material	Steel		304L stainless-steel		Galvanized Steel			
Finish	Structured finish, epoxy-polyester powder		-		-			
Colour	RAL 7035 grey		-		-			
Thickness	15/10° mm		15/10° mm		-			
Fixing	Fixing by screws		Fixing by screws		-			
References								
Blanking cover length (mm)								
200			NSYRP2		NSYRPX2		-	
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
		325	-		NSYMM64		NSYMF64	NSYMR64
600	625	325	-					
					<p>Example installation of a mounting plate in a console depth 200 mm.</p>		<p>Example installation of a mounting plate in a console depth 300 mm.</p>	

Human-Machine Interface

Accessories

Modular consoles

Combination examples of modular consoles installation	Compact control desk		Modular console		Blanking cover	
	Spacial SD	Spacial SDX	Spacial SD	Spacial SDX	Spacial SD	Spacial SDX
W600 mm						
	NSYSD6R	NSYSDX6	NSYSDC42 / NSYSDC43	NSYSDCX42 / NSYSDCX43	NSYRP2	NSYRPX2
	NSYSD6R	NSYSDX6	NSYSDC62 / NSYSDC63	NSYSDCX62 / NSYSDCX63	-	-
W800 mm						
	NSYSD8R	NSYSDX8	NSYSDC42 / NSYSDC43	NSYSDCX42 / NSYSDCX43	2 x NSYRP2	2 x NSYRPX2
	NSYSD8R	NSYSDX8	2 x NSYSDC42 / 2 x NSYSDC43	2 x NSYSDCX42 / 2 x NSYSDCX43	-	-
	NSYSD8R	NSYSDX8	NSYSDC62 / NSYSDC63	NSYSDCX62 / NSYSDCX63	NSYRP2	NSYRPX2
W1000 mm						
	NSYSD10R	NSYSDX10	NSYSDC42 / NSYSDC43	NSYSDCX42 / NSYSDCX43	3 x NSYRP2	3 x NSYRPX2
	NSYSD10R	NSYSDX10	NSYSDC62 / NSYSDC63	NSYSDCX62 / NSYSDCX63	2 x NSYRP2	2 x NSYRPX2
	NSYSD10R	NSYSDX10	NSYSDC62 / NSYSDC63	NSYSDCX62 / NSYSDCX63	2 x NSYRP2	2 x NSYRPX2
	NSYSD10R	NSYSDX10	NSYSDC42 + NSYSDC62 / NSYSDC43 + NSYSDC63	NSYSDCX42 + NSYSDCX62 / NSYSDCX43 + NSYSDCX63	-	-
W1200 mm						
	NSYSD12R	NSYSDX12	NSYSDC42 / NSYSDC43	NSYSDCX42 / NSYSDCX43	4 x NSYRP2	4 x NSYRPX2
	NSYSD12R	NSYSDX12	NSYSDC62 / NSYSDC63	NSYSDCX62 / NSYSDCX63	3 x NSYRP2	3 x NSYRPX2
	NSYSD12R	NSYSDX12	NSYSDC62 / NSYSDC63	NSYSDCX62 / NSYSDCX63	3 x NSYRP2	3 x NSYRPX2
	NSYSD12R	NSYSDX12	2 x NSYSDC62 / 2 x NSYSDC63	2 x NSYSDCX62 / 2 x NSYSDCX63	-	-
	NSYSD12R	NSYSDX12	NSYSDC42 + NSYSDC62 / NSYSDC43 + NSYSDC63	NSYSDCX42 + NSYSDCX62 / NSYSDCX43 + NSYSDCX63	NSYRP2	NSYRPX2

SD SDX

Floor

For more information, see page 100.

PB602578-30



PB602589-30







PB602800-17



PB602591-18



Characteristics	Front and rear plinth				Plinth side panels			
	The front and rear of the plinth consists of 4 corners with 2 or 4 panels.				They are fixed to the corner of the plinth by 2 fixing screws.			
Material	Folded steel, corner with a thickness of 25/10 ^o mm		304L stainless-steel		Folded steel		304L stainless-steel	
Finish	Painted with epoxy-polyester powder		-		Painted with epoxy-polyester powder		-	
Colour	RAL 7022 grey		-		RAL 7022 grey		-	
Ingress protection rating according to IEC 60529	IP30		IP30		IP30		IP30	
Mechanical protection rating according to IEC 62262	IK10		IK10		IK10		IK10	
Supply	<ul style="list-style-type: none"> ■ 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 ■ The use of 304L stainless-steel plinths on an SD control desk requires an earthing cable reference NSYEL226D13 (description page 286) to be ordered separately. 				<ul style="list-style-type: none"> ■ 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 ■ The use of 304L stainless-steel plinths on an SD control desk requires an earthing cable reference NSYEL226D13 (description page 286) to be ordered separately. 			
Control desk references	Plinths references							
Compact control desks with fixed rear panel	100 mm	200 mm	100 mm	200 mm	100 mm	200 mm	100 mm	200 mm
 NSYSD6	NSYSPPF6100	NSYSPPF6200	NSYSPPFX6100	NSYSPPFX6200	NSYSPS4100SD	NSYSPS4200SD	NSYSPSX5100	NSYSPSX5200
NSYSD8	NSYSPPF8100	NSYSPPF8200	NSYSPPFX8100	NSYSPPFX8200	NSYSPS4100SD	NSYSPS4200SD	NSYSPSX5100	NSYSPSX5200
NSYSD10	NSYSPPF10100	NSYSPPF10200	NSYSPPFX10100	NSYSPPFX10200	NSYSPS4100SD	NSYSPS4200SD	NSYSPSX5100	NSYSPSX5200
NSYSD12	NSYSPPF12100	NSYSPPF12200	NSYSPPFX12100	NSYSPPFX12200	NSYSPS4100SD	NSYSPS4200SD	NSYSPSX5100	NSYSPSX5200
Compact control desks with removable rear panel Sheet steel								
 NSYSD6R	NSYSPPF6100	NSYSPPF6200	NSYSPPFX6100	NSYSPPFX6200	NSYSPS5100SD	NSYSPS5200SD	NSYSPSX5100	NSYSPSX5200
NSYSD8R	NSYSPPF8100	NSYSPPF8200	NSYSPPFX8100	NSYSPPFX8200	NSYSPS5100SD	NSYSPS5200SD	NSYSPSX5100	NSYSPSX5200
NSYSD10R	NSYSPPF10100	NSYSPPF10200	NSYSPPFX10100	NSYSPPFX10200	NSYSPS5100SD	NSYSPS5200SD	NSYSPSX5100	NSYSPSX5200
NSYSD12R	NSYSPPF12100	NSYSPPF12200	NSYSPPFX12100	NSYSPPFX12200	NSYSPS5100SD	NSYSPS5200SD	NSYSPSX5100	NSYSPSX5200
Compact control desks with removable rear panel Stainless-steel								
 NSYSDX6	-	-	NSYSPPFX6100	NSYSPPFX6200	-	-	NSYSPSX5100	NSYSPSX5200
NSYSDX8	-	-	NSYSPPFX8100	NSYSPPFX8200	-	-	NSYSPSX5100	NSYSPSX5200
NSYSDX10	-	-	NSYSPPFX10100	NSYSPPFX10200	-	-	NSYSPSX5100	NSYSPSX5200
NSYSDX12	-	-	NSYSPPFX12100	NSYSPPFX12200	-	-	NSYSPSX5100	NSYSPSX5200
Control desk with console								
 NSYSDF88	NSYSPPF8100	NSYSPPF8200	-	-	NSYSPS4100SD	NSYSPS4200SD	-	-
NSYSDF108	NSYSPPF10100	NSYSPPF10200	-	-	NSYSPS4100SD	NSYSPS4200SD	-	-
NSYSDF128	NSYSPPF12100	NSYSPPF12200	-	-	NSYSPS4100SD	NSYSPS4200SD	-	-
NSYSDF168	NSYSPPF16100	NSYSPPF16200	-	-	NSYSPS4100SD	NSYSPS4200SD	-	-
NSYSDF810	NSYSPPF8100	NSYSPPF8200	-	-	NSYSPS6100SD	NSYSPS6200SD	-	-
NSYSDF1010	NSYSPPF10100	NSYSPPF10200	-	-	NSYSPS6100SD	NSYSPS6200SD	-	-
NSYSDF1210	NSYSPPF12100	NSYSPPF12200	-	-	NSYSPS6100SD	NSYSPS6200SD	-	-
NSYSDF1610	NSYSPPF16100	NSYSPPF16200	-	-	NSYSPS6100SD	NSYSPS6200SD	-	-

Door



PB501213-42

Pneumatic opening stay

- Holds the desk lid in open position at an angle of 75°.
- **Supply:** delivered with fixings.

Nominal load per stay (N)	Max. load on lid (kg)	Control desk references				Standard supply stay
		With fixed rear panel	With removable rear panel		With console	
			Steel	Stainless-steel		
244	13	NSYSD6	NSYSD6R	NSYSDX6	NSYSDF88	NSYPLS24
		NSYSD8	NSYSD8R	NSYSDX8	NSYSDF810	NSYPLS24
300	11	-	-	-	NSYSDF168	NSYPLS30
		-	-	-	NSYSDF1610	NSYPLS30
	15	NSYSD12	NSYSD12R	NSYSDX12	NSYSDF128	NSYPLS30
		-	-	-	NSYSDF1210	NSYPLS30
	17	NSYSD10	NSYSD10R	NSYSDX10	NSYSDF108	NSYPLS30
		-	-	-	NSYSDF1010	NSYPLS30

PB501214



Document lip

- Retaining bar to be fixed on the front of the control desk lid. Prevents documents and equipment from falling.
- **Material:** PVC, RAL 7011 grey.
- **Fixing:** fixing by adhesive.

Control desk width (mm)	References
600	NSYDL6
800	NSYDL8
1000	NSYDL10
1200	NSYDL12
1600	NSYDL16

Locking system



The Control desks are supplied with 3 mm double-bar escutcheon locks as standard.



Characteristics	Shape inserts	Escutcheon with key lock
	Possibility to replace the standard shape insert: <ul style="list-style-type: none"> ■ 8-mm triangular insert, ■ 8-mm male square insert, ■ 7-mm male square insert. 	Insert breakage torque: 15 daN.
Material	Zamack	Polyamide PA 6 material charged with 30 % fibreglass
Colour	-	RAL 7011 grey
Mechanical protection rating according to IEC 62262	-	IK10
Fire resistance	-	650°C
References		
8-mm triangular insert	NSYTT8CRN	-
8-mm male square insert	NSYTC8CRN	-
7-mm male square insert	NSYTC7CRN	-
405E key	-	NSYML405SD
Without insert	-	-

Locking system



PB501217-38

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).
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.

PA 6 charged with 30 % fibreglass

RAL 7011 grey

IK10

650°C

-

-

-

-

NSYSDH

Accessories

PB500614-19



Shape inserts

Shape inserts	References
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
Push button	NSYINPULSD

PB501218



Push button

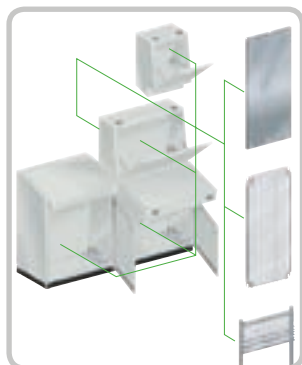
PB500616-18



Cylindrical barrels

Cylindrical barrels	References
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 3131A1 key	NSYIN3131A1
Lock with 3133A key	NSYIN3133A1
Lock with 3422E key	NSYIN3422E1
Lock with 3432E key	NSYIN3432E1
Lock with 6101 key	NSYIN6101
Lock with EDF 1300 key	NSYINF1301
Lock with EDF 1400 key	NSYINF1401
Michelin 8079 keyless lock	NSYINICHEL8791
Michelin 8133 keyless lock	NSYINICHEL8131
Michelin 8376 keyless lock	NSYINICHEL8371
E1 keyless lock	NSYINE11

PB501219-37



Mounting accessories

	Compact control desks				Control desk with console							
Installation type												
Control desk	Mounting plates (1)											
Width (B) (mm)	Plain		Telequick		Plain		Telequick		Plain		Telequick	
	Surface (dm ²)	References	Surface (dm ²)	References	Surface (dm ²)	References	Surface (dm ²)	References	Surface (dm ²)	References	Surface (dm ²)	References
600	42	NSYPMP8560	34	NSYTMP6760	-	-	-	-	-	-	-	-
800	59	NSYPMP8580	48	NSYTMP6780	31	NSYPMP4580	30	NSYTMP4280	49	NSYPMP8580	48	NSYTMP6780
1000	76	NSYPMP85100	61	NSYTMP67100	40	NSYPMP45100	39	NSYTMP42100	63	NSYPMP85100	61	NSYTMP67100
1200	93	NSYPMP85120	75	NSYTMP67120	77	NSYPMP45120	39	NSYTMP42120	77	NSYPMP85120	75	NSYTMP67120
1600	-	-	-	-	67	NSYPMP45160	-	-	105	NSYPMP85160	-	-

	Control desk with console							
Installation type								
Control desk	Mounting plates							
Width (B) (mm)	Plain (1)		Telequick (2)		Plain		Telequick	
	Surface (dm ²)	References	Surface (dm ²)	References	Surface (dm ²)	References	Surface (dm ²)	References
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	-	-

(1) For this installation, order a set of 4 adjustment rails and fixing brackets (see page 483).

(2) For this installation, order a set of 2 uprights ref. NSYTVR14 and set of 4 adjustment rails and 4 fixing brackets.

Mounting accessories

PB501815-24



PB501808-35



PB500483-24



PB501210-32



Characteristics	Fixing brackets	Adjustment rails and fixing brackets	Technical uprights	PC screen support
	Set of 4 fixing brackets. Depth adjustment on 25 mm pitch. Included as standard with desk (all versions). To be ordered separately when required for installation of two back to back mounting plates in control desks with rear access.	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 .	Set of 2 equipment uprights. Support for fixing Telequick mounting plates and rails.	For a control desk with monobloc console with a depth of 600 mm. This support is a galvanised mounting plate, in horizontal position, fixed to the adjustment rails of the console.
Material	Galvanised steel	-	Zinc-coated	-
Thickness	40/10° mm	-	20/10° mm	-
Maximum load	250 kg	-	-	50 kg/m ²
Supply	-	-	-	Delivered with fixings
References				
For desk width (mm)				
600	NSYMPBSD	-	-	-
800	NSYMPBSD	-	-	NSYPCS8
1000	NSYMPBSD	-	-	NSYPCS10
1200	NSYMPBSD	-	-	NSYPCS12
1600	NSYMPBSD	-	-	NSYPCS16
For control desks with console				
Depth (mm)				
400	-	NSYMPB4SD	-	-
600	-	NSYMPB6SD	-	-
For control desk height				
Centre-to-centre distance (mm)				
1000	650	-	NSYTVR8	-
1400	1250	-	NSYTVR14	-

Human-Machine Interface

Introduction

➤ The **Spacial SF PC rack** is designed to protect and control computer equipment in an industrial environments.

PB500501-54



Steel PC racks

PB500684-28



Convenience

- Anti-glare glazed door designed for viewing until 25,5" screens.
- Cable entry made easier by a cable-land plate in 2 pieces.

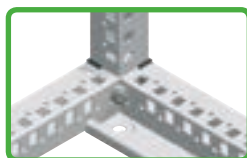
PB500685-28



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.

PB500490-35



Robust

- Structure formed from a single 15/10e-mm galvanised-steel section, with a high rigidity.
- Vertical uprights screwed together with connections of full steel. 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.
- Capable of withstanding 1000 kg distributed in its volume.

PB500485-21



Simple

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

PB500687-35



Locking system

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.

Detail of 5 mm DB lock on rear door.

This range can be configured according to your needs

4 different services available:



Assemble to order



Mounting of standard accessories



Painting



Machining

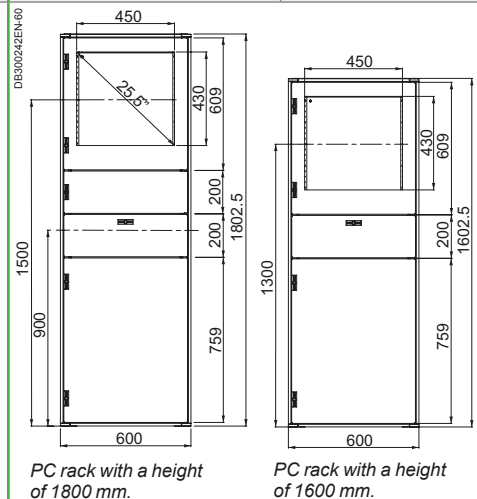
See page 496 for details or consult our web site www.se.com

Human-Machine Interface Characteristics



PB500208-ZT

Characteristics		Spacial SF PC rack		
		<ul style="list-style-type: none"> ■ 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). ■ Roof and side panels fixed from the inside. ■ Cable-gland plate with 1 entry. 		
Finish		Structured finish, epoxy-polyester powder		
Colour		RAL 7035 grey		
Ingress protection rating according to IEC 60529		IP40		
Mechanical protection rating according to IEC 62262		IK10		
Certifications		UL 508A Types 1, 12 and CUL		
Height (mm)	Width (mm)	Depth (mm)	No. of compartments	References
1600	600	600	3	NSYSF16660PC
		800	3	NSYSF16680PC
1800	600	600	4	NSYSF18660PC
		800	4	NSYSF18680PC



Human-Machine Interface

Accessories

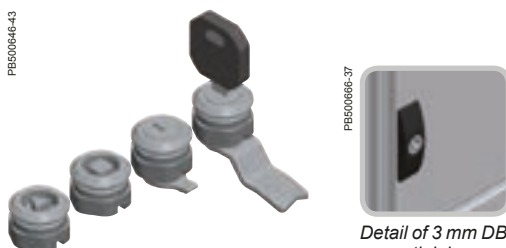
Plinth



Characteristics	Front plinth	Plinth side panels
	The front and rear of the plinth consists of 4 corners with 2 or 4 panels.	They are fixed to the corner of the plinth by 2 fixing screws.
Material	Folded sheet steel, corner with a thickness of 25/10° mm	Folded sheet steel
Finish	Structured finish, epoxy-polyester powder	Structured finish, epoxy-polyester powder
Colour	RAL 7022 grey	RAL 7022 grey
Ingress protection rating	IP30 according to IEC 60529	IP30 according to IEC 60529
Mechanical protection rating	IK10 according to IEC 62262	IK10 according to IEC 62262
Installation	-	-
Supply	<ul style="list-style-type: none"> ■ 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 	<ul style="list-style-type: none"> ■ 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

References					
Width (mm)	Depth (mm)	100 mm		200 mm	
		600	600	NSYSPF6100	NSYSPF6200
	800			NSYSPS8100	NSYSPS8200

Locking system

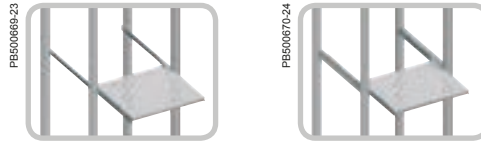
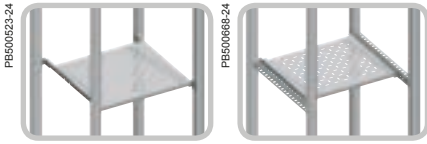


Detail of 3 mm DB lock on partial door.

Characteristics	Locks for partial doors			
	Locks to replace the 3 mm double-bar lock supplied with the partial doors. Models: <ul style="list-style-type: none"> ■ 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	<ul style="list-style-type: none"> ■ 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. 			
References	With 6.5 mm triangular insert for partial and hinged door	With 6 mm square insert for partial and hinged door	With 2233X key for partial door	With 2233X key for hinged keyboard door
	NSYMLT6	NSYMLS6	NSYML23	NSYMLCD23

Human-Machine Interface Accessories

Trays



Fixed Trays				Telescopic Trays					
<ul style="list-style-type: none"> 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: trays, page 236. 									
-				-					
-				-					
-				-					
-				-					
On structure		On cross rails		On structure		On cross rails			
-		-		-		-			
Tray	Tray	Universal cross rail 40 mm (1 row)	Quick cross rail 40 mm (1 row)	Tray	Telescopic rails	Tray	Telescopic rails	Universal cross rail 40 mm (1 row)	Quick cross rail 40 mm (1 row)
NSYFXT6060	NSYFXT6060	NSYSUCR4060	NSYSQCR4060	NSYFXT6060	NSYTTG60	NSYFXT6060	NSYTTG60	NSYSUCR4060	NSYSQCR4060
-	NSYFXT6060	NSYSUCR4080	NSYSQCR4080	-	-	NSYFXT6060	NSYTTG60	NSYSUCR4080	NSYSQCR4080

Other accessories



Characteristics	Handle for telescopic trays
	Handle designed for easy extraction of the sliding trays.
Material	Polyamide 6 (black)
Supply	2 units and fixing elements
Reference	NSY1TH

Human-Machine Interface

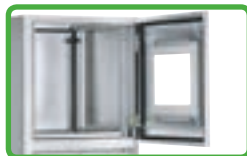
Introduction

> 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.



Stainless-steel monobloc PC racks

PB501223-69



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.

PB501223-108



Sealing

- IP55, even with the keyboard drawer open, thanks to the pivoting Plexiglas shutter.

PB501223



Optional accessories

- Shelf mounted on telescopic rails.

PB501266-32



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.

PB501223-107



Hygiene

- The high quality of the standard finish enables very easy maintenance while avoiding contamination.
- The hygienic feet made from 316L stainless-steel, adjustable between 140 mm and 200 mm height, make it easier to clean under the enclosures, ref. **NSYPHX200**.

More information on page 139 and 279.

PB501233-32



Resistance to corrosion

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

This range can be configured according to your needs

4 different services available:



Assemble to order



Mounting of standard accessories



Painting



Machining

See page 496 for details or consult our web site www.se.com

Human-Machine Interface

Characteristics, accessories



Characteristics			304L stainless-steel PC racks	Front plinth	Plinth side panels							
			<p>Composition</p> <ul style="list-style-type: none"> ■ Top and bottom partial doors on the front side. ■ Pivoting panel for the keyboard. ■ Plain rear door. <p>Monitor-screen compartment</p> <ul style="list-style-type: none"> ■ The anti-glare glazed door is designed for viewing screens: <ul style="list-style-type: none"> □ 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. <p>CPU / keyboard compartment</p> <ul style="list-style-type: none"> ■ 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. <p>Optional accessories</p> <ul style="list-style-type: none"> ■ Hygienic feet H 200 mm: NSYPHX200. ■ Shelf installed on a sliding rail, with adjustable height. ■ Telescopic tray: NSYTTG60. 	<p>The front and rear of the plinth consists of 4 corners with 2 or 4 panels.</p>	<p>They are fixed to the corner of the plinth by 2 fixing screws.</p>							
Material			Monobloc structure in 304L stainless-steel sheet, micro-beaded finish. Can be made in 316L stainless-steel on request	304L stainless-steel	304L stainless-steel							
Ingress protection rating according to IEC 60529			IP55, even with the keyboard drawer open	IP30	IP30							
Mechanical protection rating according to IEC 62262			IK10	IK10	IK10							
Supply			-	<ul style="list-style-type: none"> ■ Height 100 mm: 4 corners, 2 panels (front and rear), 4 corner covers and fixing elements ■ Height 200 mm: 4 corners, 2 panels (front and rear), 4 corner covers and fixing elements 	<ul style="list-style-type: none"> ■ Height 100 mm: 2 side panels, 4 corner covers and fixing elements ■ Height 200 mm: 2 side panels, 4 corner covers and fixing elements 							
Height (mm) (A)	Width (mm) (B)	Depth (mm) (C)	References	100 mm	200 mm	100 mm	200 mm					
1600	600	600	NSYSMX16660PC	NSYSPFX6100	NSYSPFX6200	NSYSPSX6100	NSYSPSX6200					
1800	600	600	NSYSMX18660PC	NSYSPFX6100	NSYSPFX6200	NSYSPSX6100	NSYSPSX6200					
<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>A</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>1600</td> <td>690</td> </tr> <tr> <td>1800</td> <td>890</td> </tr> </tbody> </table> <p>(1) Screwed shelf, adjustable height. (2) Sealed case for keyboard.</p>			A	D	1600	690	1800	890				
A	D											
1600	690											
1800	890											

Variable speed drive flush-mounting kits

Introduction

➤ The variable speed drive flush-mounting kits have been designed to isolate the power part, which is an important source of heat. They are mounted in the Spacial range of steel enclosures (floor-standing and wall-mounting enclosures) and have been approved for Altivar Process variable speed drives in the ATV630 and ATV930 ranges (power range: 0.75 to 45 kW at 200/240 V, 0.75 to 90 kW at 380/480 V).

➤ The kits are available in five sizes and offer two methods of mounting variable speed drives:

- slide-rail mounting for sizes 1, 2 and 3
- bracket mounting for sizes 4 and 5.

➤ The kits can be installed:

- at the back of the enclosure. This installation provides full thermal insulation



PB502941-71

Tightness

IP55 according to IEC 60529 with polyurethane seal provided.



PB502942-39

Ease of installation

Set of slide-rails allowing the variable speed drive to be mounted quickly and efficiently.



PB502943-73

Strength

The rigidity of the kit allows it to be installed on Spacial S3D, SF and SM enclosures.

Earth continuity

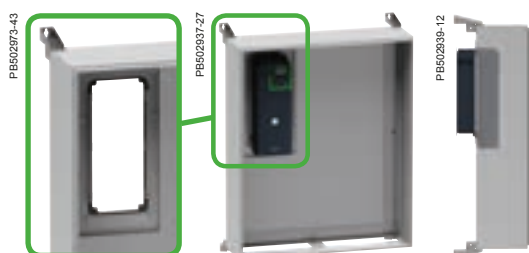
Earth continuity is ensured by tightening the M6 nuts associated with pin washers.



PB502944-42

Maintenance of the variable speed drive fan (kit sizes 4 and 5)

Easy front-panel maintenance for fan servicing.



PB502973-43

PB502937-27

PB502939-12



Configured offer

Services

Possibility of cut-outs (enclosure and frame) by Schneider Electric: no risk of corrosion and cuts (cut-out made before painting).

- inside the enclosure on a mounting plate. This installation may require the addition of a thermal control.



PB502974-42

PB502938-27

PB502940-9

Variable speed drive flush-mounting kits

Characteristics



Sizes 1, 2 and 3.



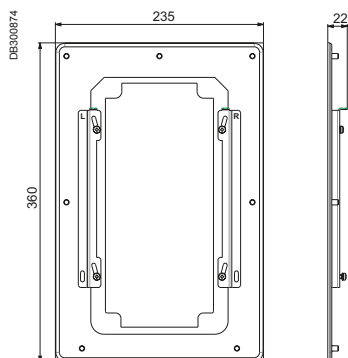
Sizes 4 and 5.

Characteristics					Mounting kits					
					Variable speed drive installation kits allowing the hot part to be isolated.					
Material					Steel					
Finish					■ Structured finish, epoxy-polyester powder					
Colour					RAL 7035 grey					
Ingress protection rating according to IEC 60529					IP55					
Mechanical protection rating according to IEC 62262					-					
Certifications					UL 508A types 1, 3R and 12.					
Supply					Sizes 1, 2 and 3: <ul style="list-style-type: none"> ■ Painted steel plate with cut-out fitted with two slide-rails + adhesive seal + 7 to 9 M6 studs for kit mounting ■ Protection seal profile supplied for frame cut-out ■ Enclosure drilling template Sizes 4 and 5: <ul style="list-style-type: none"> ■ Painted steel plates with cut-out fitted with painted mounting brackets + screws and nuts for fixing the brackets and the kit ■ Protection seal supplied for frame cut-out ■ Enclosure drilling template ■ Fan support for ease of maintenance ■ Protective cover 					
Dimensions (mm)			Sizes	Compatibilities						References Kits
H	L	P		Enclosures	Variable speed drives					
					ATV340 380/480 V	ATV630 200/240 V	380/480 V	ATV930 200/240 V	380/480 V	
360	235	22	1	S3D, SF, SM	-	ATV630U07M3 ATV630U15M3 ATV630U22M3 ATV630U30M3 ATV630U40M3	ATV630U07N4 ATV630U15N4 ATV630U22N4 ATV630U30N4 ATV630U40N4 ATV630U55N4	ATV930U07M3 ATV930U15M3 ATV930U22M3 ATV930U30M3 ATV930U40M3	ATV930U07N4 ATV930U15N4 ATV930U22N4 ATV930U30N4 ATV930U40N4 ATV930U55N4	NSYPTDS1
420	265	22	2	S3D, SF, SM	-	ATV630U55M3	ATV630U75N4 ATV630D11N4	ATV930U55M3	ATV930U75N4 ATV930D11N4	NSYPTDS2
555	295	22	3	S3D, SF, SM	-	ATV630U75M3 ATV630D11M3	ATV630D15N4 ATV630D18N4 ATV630D22N4	ATV930U75M3 ATV930D11M3	ATV930D15N4 ATV930D18N4 ATV930D22N4	NSYPTDS3
800	385	151,5	4	SF, SM	ATV340D30N4E ATV340D37N4E	ATV630D15M3 ATV630D18M3 ATV630D22M3	ATV630D30N4 ATV630D37N4 ATV630D45N4	ATV930D15M3 ATV930D18M3 ATV930D22M3	ATV930D30N4 ATV930D37N4 ATV930D45N4	NSYPTDS4
975	427	205,5	5	SF, SM	ATV340D45N4E ATV340D55N4E ATV340D75N4E	ATV630D30M3 ATV630D37M3 ATV630D45M3	ATV630D55N4 ATV630D75N4 ATV630D90N4	ATV930D30M3 ATV930D37M3 ATV930D45M3	ATV930D55N4 ATV930D75N4 ATV930D90N4	NSYPTDS5

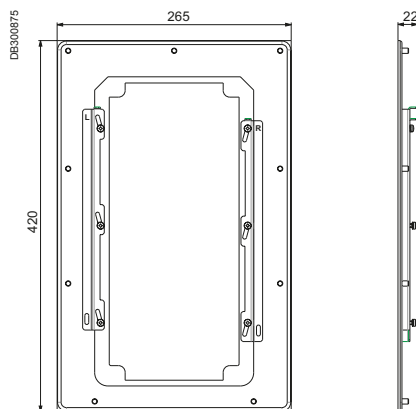
Variable speed drive flush-mounting kits

Dimensions

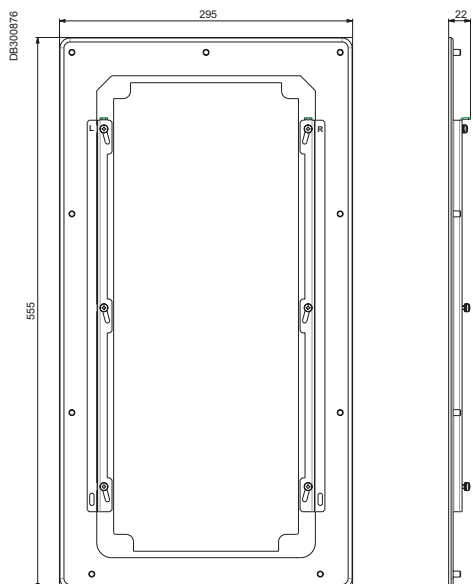
NSYPTDS1



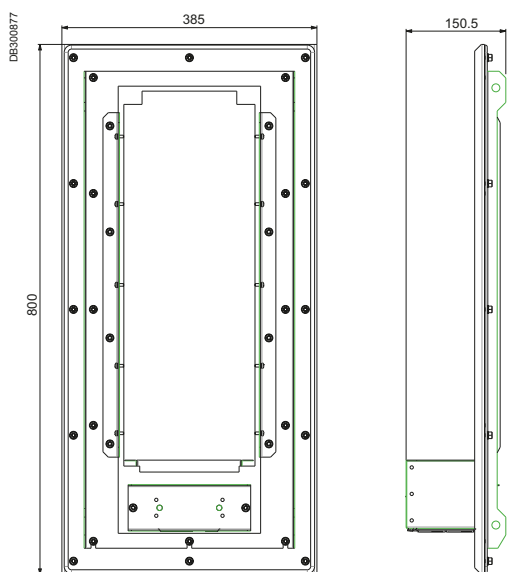
NSYPTDS2



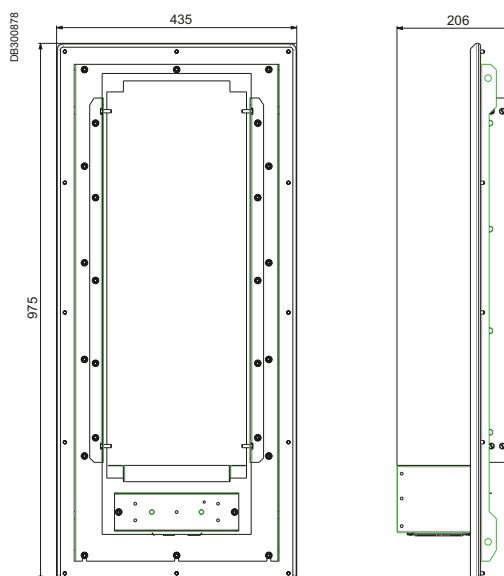
NSYPTDS3



NSYPTDS4



NSYPTDS5



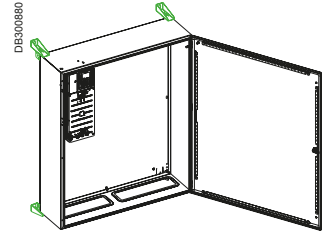
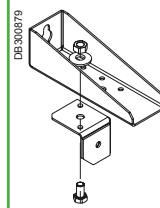
Variable speed drive flush-mounting kits

Mounting accessory

PB502M45-57



Characteristics		Wall-mounting enclosure fixing lug	
Maximum load		105 kg	
Material		Painted steel RAL 7035	
Supply		Set of 4 lugs and brackets + fasteners	
Wall-mounting enclosure Dimensions (mm)		References	
Height	Width	Variable speed drive flush-mounting kits	Fixing lug
≥ 400	≥ 300	NSYPTDS1	NSYAEFPFPTD
≥ 500	≥ 300	NSYPTDS2	
≥ 600	≥ 400	NSYPTDS3	



Automobile application

Introduction

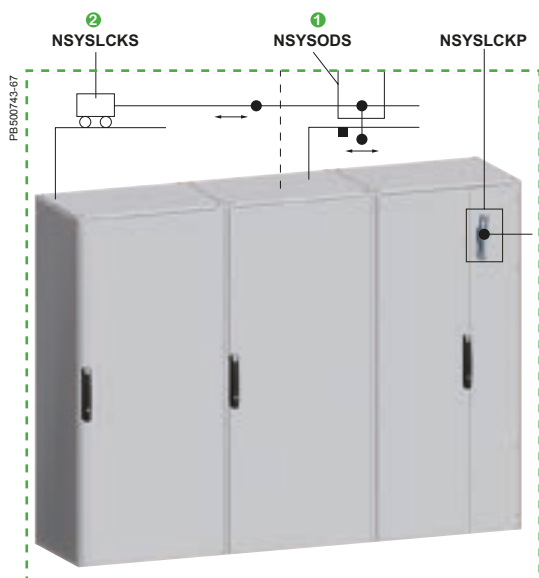
- The door of the "incoming" enclosure is interlocked by the control of the main switch or circuit breaker. A built-in interlocking system with runner rods prevents the opening of the "outgoing" enclosure doors. Access is only allowed when the main switch or circuit breaker is in "O" position and the 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).
 - Schneider Electric.
- The system is limited for configurations up to 4 columns.

PB500745-32



Secure

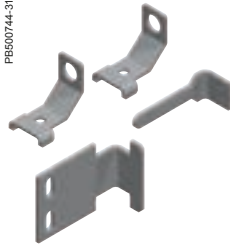
The built-in secure interlocking system for the door (on demand) of the "incoming"/"outgoing" enclosures allows Spacial SF enclosures to be adapted to the requirements of the American car industry.



Automobile application

Characteristics

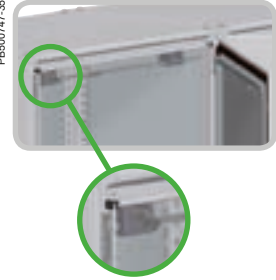
PB500744-31



PB500746-43



PB500747-35



Characteristics	Interlocking for main door	Activation for secondary doors	Interlocking for secondary doors								
	<ul style="list-style-type: none"> ■ System for unlocking the main door adapted to the switches: <ul style="list-style-type: none"> □ 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". ■ The main door interlocking system requires the ordering of both references: <ul style="list-style-type: none"> □ ① Activation for secondary doors. □ ② Interlocking for secondary doors. 	<p>System installed in the main enclosure. Activated by manual operation, preventing the opening of the secondary enclosures connected to one another by runner rods.</p> <p>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.</p>	<p>System for interlocking the outgoing enclosures connected to one another by runner rods that lock their doors.</p>								
Material	Steel	<ul style="list-style-type: none"> ■ Mechanism: zinc-coated steel ■ Activation handle: black plastic 	Steel								
Finish	Zinc-coated	-	Zinc-coated								
Fixing	-	-	Fixing to the structure of the enclosures by screws								
Supply	2 brackets for fixing the configured panel, interlocking elements, switch and fixings. Configured panel and switch not included.	Elements for activating the main door and fixings. For the complete function, both activation ① and interlocking systems ② need to be ordered.	Elements for interlocking the secondary doors and fixings. For the complete function, both activation ① and interlocking systems ② need to be ordered according to the enclosure width.								
References	NSYSLCKP	NSYSODS	<table border="1"> <thead> <tr> <th>Width (mm)</th> <th>References</th> </tr> </thead> <tbody> <tr> <td>600</td> <td>NSYSLCKS6</td> </tr> <tr> <td>800</td> <td>NSYSLCKS8</td> </tr> <tr> <td>1000</td> <td>NSYSLCKS10</td> </tr> </tbody> </table>	Width (mm)	References	600	NSYSLCKS6	800	NSYSLCKS8	1000	NSYSLCKS10
Width (mm)	References										
600	NSYSLCKS6										
800	NSYSLCKS8										
1000	NSYSLCKS10										

PB500745-22



The fixed panel in this example must be ordered through our customised service.

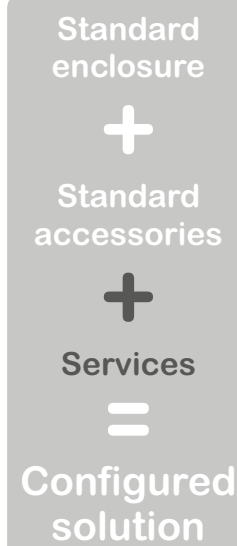
Customised solutions

Configured offer

Introduction



Configured



The configured offer is a standard offer enriched by **4 services**

The customized solutions either Configured or Specific, uses existing ranges from Universal Enclosures standard offer as a base for its development. Depending on the modifications to be done upon enclosures and/or accessories, they could affect the certification/declarations of conformity existing in the standard ranges. Additional certifications & declarations of conformity for customized solutions, must be defined under request prior as part of offering specification stage.



Assemble to order

- Change cladding composition (panels, doors...)
- Merge and assemble several enclosures (only for Spacial SF and Thalassa PLA)
- + Enclosure composition 100 % according to customer needs
- + Avoids need of qualified technicians to merge enclosures



Painting

- Enclosure painting color selection (choice of 38 RAL colours)
- Coating's raw material modification (e.g.: zinc, etc.)
- + Industrial painting ensures the best protection
- + Totally customized



Machining

- Make square and circle cut-outs **before** painting the enclosure (body, cable gland plate, sides) and mounting plates
- + Ensures safety and best protection against rust
- + The enclosure is ready to be equipped



Mounting of standard accessories

- Pre-installation of accessories inside or out-side of the enclosure (ex.: mounting plate, plinth, canopy, etc.)
- + Enclosure ready to be equipped

Minimum order: 1 to 5, depends on type of enclosure.

Manufacturing time: 3 to 10 days, depends on offer type.

Delivery time: It could vary according to destination, please consult us for further information.

Customised solutions

Configured offer

Spacial.conf configuration tool

Spacial.conf is the configuration tool to be used to place your order. It gives you several benefits:

> Consistency & error free

- One configurator for 14 countries & all configurable offers
- Compatibility between enclosure & accessories

> Time saving & flexibility

- Users can indicate machining requests directly on our DXF drawing
- Price optimisation (depends on quantity)
- Manufacturing time adapted to each offer

> Autonomy & facility

- Availability of both on-line & off-line versions
- Illustrated products help you in your choice
- FAQ information for faster understanding

> Information back-up

- All data are provided to registered users (quotation, technical datasheet, etc.)
- Reusable smart code

Your order in 5 steps with Spacial.conf:

1 - Select country & language

- 14 countries
- 4 languages



2 - Select enclosure

- Select product range
- Select material
- Select enclosure type

3 - Select accessories

- Composition accessories
- Mounting accessories
- Thermal accessories

4 - Select services

- Mounting
- Machining
- Painting
- Assembly

5 - Validation & send offer

- Order summary
- Send order to get quotation confirmation from local sales representative

Have a smartphone or a tablet? Scan this >



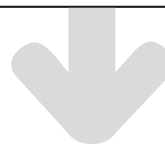
Customised solutions

Specific offer

Introduction



Specific



20

experts

specialized on
different materials
and different
products



The specific offer allows you to have a tailor-made product

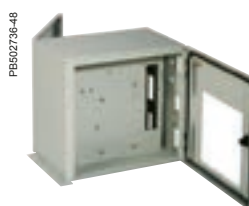
- > Special dimensions, special needs for thermal system, special components adaptation, etc. All possibilities are open.
- > You can choose to modify any of our standard products (boxes or enclosures, wall-mounting or floor-standing) or start from a newly designed solution.
- > Co-engineer your solution with our design and engineering team (20 experts entirely dedicated to your specific needs).



Examples of Specific solution



- Special dimension
- Cut-outs on the body and the doors



- Cable-entry & door adaptation
- Special door shape

Customised solutions

Specific offer

What to take into account

This page will help you define your needs for enclosure and streamline your design process. You will then need to contact your sales representative.

Step 1

Environment in which you'll install the enclosure(s)

- > Airborne debris; temperature variations; UV rays?
 - > Indoor or outdoor use?
 - > In wash down environment?
 - > In high traffic environment?
-

Step 2

Application(s) needs of your enclosure(s)

- > Access control; building automation; motor & motion control?
 - > Need to protect against electromagnetic disturbances?
 - > Use in potentially explosive atmospheres?
-

Step 3

Enclosure(s) description

- > Type of enclosure's installation?
 - > Total weight of equipments in the enclosure?
 - > Design: color / coating / finish / dimension?
 - > Body components' adaptations: cable entry / mounting plate?
 - > Thermal management adaptations?
 - > Other accessories adaptations?
 - > Additional information: labeling / packaging / logistic?
-

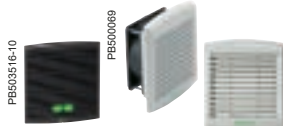
Step 4

Business profile

- > Total quantity of enclosures needed and quantity per batch?
 - > Frequency of your order: single order / repeat order?
 - > Delivery time and method demand?
 - > Stock needs?
 - > Other comments?
-

Thermal management system

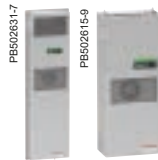
Thermal management system Contents



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Thermal management system Presentation



PB503832

Thermal problems in enclosures

Evolution of the electrical switchboard

An electrical switchboard is an assembly formed of the following components:

- The enclosure;
- Switchgear and controlgear;
- Electrical conductors; and
- Miscellaneous functions (indications, controls, information processing).

It has evolved in three directions:

- Enclosures increasingly made of insulating materials;
- Switchgear and controlgear incorporating more and more electronics which concentrates a growing number of functions in an increasingly small volume;
- An increasingly high filling rate.

Industrial safety studies, a concept which covers:

- The safety of personnel and equipment;
- The availability of electric power;

show that this is one of the critical points of all industrial and service-sector activities. Its operation must therefore be perfectly under control; and this control must concern not only the operation of its components but also their operating conditions in a given environment.

Temperature and humidity in the enclosure

Analysis of the malfunctions and stoppages of an electrical installation shows that they are mostly of thermal origin: temperature too high or too low inside the enclosure.

The rise in the average temperature, which may exceed the limits tolerated by the equipment, can be explained by the changes in electrical switchboards:

- Use of insulating materials for the enclosure, which limits heat removal;
- -Widespread adoption of electronics and a higher filling rate increase the temperature.

This overheating may concern only certain areas: hot spots.

The excessively low temperature is due to installation of the electrical switchboard in a very cold environment. It can cause the formation of condensation, a phenomenon which is harmful for the equipment.

Consequences

The presence of humidity or an excessively high temperature inside the enclosure can cause numerous malfunctions:

- Nuisance tripping of protective devices;
- Fire inside the enclosure;
- Burns for the users;
- Premature equipment ageing;

The consequence of these malfunctions is an increase in the installation's operating costs:

- Maintenance costs,
- Costs entailed by stoppage of the installation.

Solution: thermal management

Objective

The thermal management solution adopted shall:

- Maintain the temperature and the humidity level inside the enclosure at values corresponding to normal operation of the equipment.
- Establish a uniform temperature to prevent hot spots.

Choice of solution

The products constituting the thermal management solution are chosen by producing the thermal balance of the installation. This comprises 2 parts:


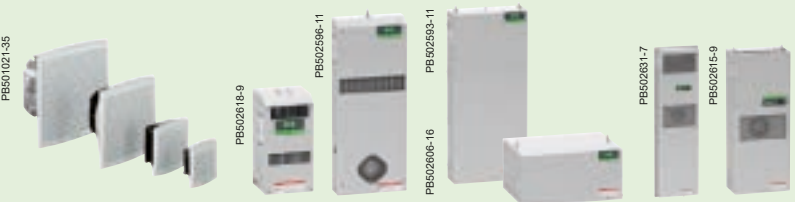






- Thermal balance inside the enclosure;
- Evaluation of the climatic conditions (temperature, humidity level) or environmental conditions (pollution) of the place in which the electrical switchboard is located.

The Schneider Electric solutions

With the ClimaSys range Schneider Electric proposes a comprehensive offer meeting all needs:

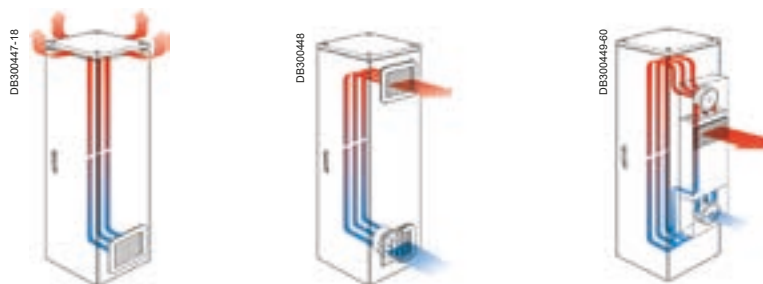
- Airing
- Cooling
- Heating
- Regulating
- Homogenizing (air circulation)

Schneider Electric also proposes a thermal design software program, ProClima, which produces the thermal balance and proposes one or more thermal management solutions.

	Smart ClimaSys	ClimaSys
Cooling	<p>New</p>  <p>PB500255-34</p> <p>Smart ventilation systems</p>	 <p>PB501021-35</p> <p>PB502016-9</p> <p>PB502596-11</p> <p>PB502593-11</p> <p>PB502306-16</p> <p>PB502031-7</p> <p>PB502015-9</p> <p>Forced ventilation systems</p> <p>Air-air exchangers</p> <p>Air-water exchangers</p> <p>Cooling units</p>
Heating		 <p>PB501026-12</p> <p>PB501027-12</p> <p>PB501029-8</p> <p>PB502042-4</p> <p>Resistance heaters</p>
Controlling	<p>New</p>  <p>PB5003542</p> <p>PB5003588</p> <p>Smart thermal control accessories</p>	 <p>PB501160-24</p> <p>PB501168-24</p> <p>PB501172-25</p> <p>PB501162-25</p> <p>PB502624</p> <p>PB502623</p> <p>PB502513</p> <p>Thermal control accessories</p>
Thermal data	 <p>PB5003401-17</p> <p>PB500318-21</p> <p>Diagnostic tools</p>	 <p>DB501274</p> <p>Efficlina software</p>  <p>PB500011-33</p> <p>Proclima software</p>

Thermal management system

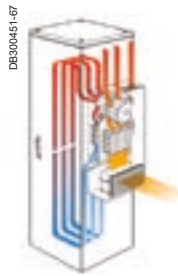
Solutions overview



	Homogenize		Cool	
Solution	Air circulation	Natural ventilation	Forced ventilation	Air-air exchanger
Description	Stirring fan inside the enclosure.	Air circulation achieved by installing grids (side or roof-mounted) with or without filter, or by elevating the roof.	A fan (with or without filter) sucks fresh air from outside to inside the enclosure, thereby creating a slight overpressure which causes removal of the hot air through an outlet grid. The air circulation homogenizes the temperature and the overpressure prevents dust from entering. Side or roof mounting. Can be combined with a thermostat.	Cooling system provided with an aluminum exchange coil to separate the internal and external air circuits, two centrifugal fans to blow in the air circuits, and a thermostat to regulate the temperature in the enclosure. Side or roof mounting.
Use	Prevent hot spots.	Low power to be dissipated. Dusty environment.	High power to be dissipated. Dusty and non- hazardous environment. Prevent hot spots.	Medium power to be dissipated. Corrosive environment (food processing industry). Relatively cold environment (about 25°C).
Temperature conditions *	None	$T_d > T_a + 5^\circ\text{C}$	$T_d > T_a + 5^\circ\text{C}$ $3^\circ\text{C} < T_a \leq 35^\circ\text{C}$	$T_d > T_a + 10^\circ\text{C}$
Independent internal and external air circuits?	No	No	No	Yes
Advantages	<ul style="list-style-type: none"> Uniform temperature inside the enclosure. 	<ul style="list-style-type: none"> Very economical solution Easy maintenance Easy, fast installation. 	<ul style="list-style-type: none"> Economical solution Easy maintenance Easy, fast installation Uniform temperature inside the enclosure Guaranteed level of protection up to: IP55 (IP54 for roof models). 	<ul style="list-style-type: none"> Easy maintenance (no filter) Far lower maintenance frequency than for fans IP55 guaranteed.
Disadvantages		<ul style="list-style-type: none"> Low power dissipated Reduction in the degree of protection IP Risk of ingress of particles and dust if no filter. 	<ul style="list-style-type: none"> Internal temperature always higher than the external temperature Maintenance required: change of filters. 	<ul style="list-style-type: none"> Internal temperature always higher than the external temperature.
Illustration		<p>Outlet grids</p>	<p>Fans</p>	<p>Air-air exchangers</p>

* T_a = ambient temperature (outside the enclosure)
 T_d = desired temperature inside the enclosure

Thermal management system Solutions overview



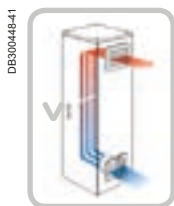
Cool		Heat	
Air-water exchanger	Cooling unit	Heating resistor	
<p>Cooling system provided with an exchange coil supplied with cold water and separated from the internal air circuit, a centrifugal fan for the air circuit, and a thermostat to regulate the temperature in the enclosure. Side mounting.</p>	<p>Operates like a heat pump: A condenser removes to the ambient air the calories absorbed by an evaporator. The air inside the enclosure is thus cooled and dried. Side, floor, roof and floor-standing mounting.</p>	<p>The heating resistors prevent the formation of condensation and ensure an ideal temperature inside the enclosure.</p>	
<p>Large quantity of heat to be removed. Difficult environments (cement plant, production lines, greasy workshops, etc.) or humid environments (sewage plant, bottling factory, etc.). Do not discharge calories into the environment.</p>	<p>Highly polluted environment but which permits the use of a filter for external protection of the cooling unit.</p>	<p>To heat the inside of the enclosure and prevent condensation.</p>	
Ta > Td	Ta > Td and Ta ≤ 55°C	Ta < Td	
Yes	Yes	-	
<ul style="list-style-type: none"> Internal temperature independent of the external temperature Security system against any leaks Calories dissipated outside Guaranteed level of protection: IP55. 	<ul style="list-style-type: none"> Internal temperature independent of the external temperature Uniform temperature inside the enclosure. Guaranteed level of protection: IP54 for roof and big cooling models, IP55 for side models and the SLIM range Use of an ecological gas. Installation of a system from removal of condensation water from the evaporator 	<ul style="list-style-type: none"> Small size (1.6 mm thick for the ultra-thin version) Low surface temperature (< 70°C for insulated version, 75°C for aluminum version) Uniform temperature inside the enclosure with the version equipped with a fan. 	
<ul style="list-style-type: none"> There must be a cold water circuit of stable temperature and flow rate Installation of special piping. 	<ul style="list-style-type: none"> Water condensation evaporation unit integrated in side mounting models from 0.6 kW to 4 kW Maintenance required: change of filters. 		
<p>Air-water exchangers</p>	<p>Cooling units</p>	<p>Heating resistors</p>	

Thermal management system

Introduction

> Large range of fans:

flow rate efficiency, high protection rating, quick installation and easier maintenance to secure all the applications.



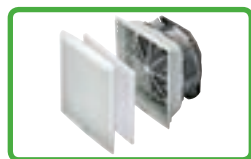
Ventilation systems



Easy installation

Quick installation

- Safe, reliable fixing with the assisted fixing device and the system of multi-thickness fixing-clips.
- Easy to invert.
- To operate as extractors, all the motors can be inverted by simply removing four screws.



Easy maintenance

Quick filter replacement

Quick, easy and safe replacement of the filter installed in the fan, even during operation.



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.



Certifications

- UL



Optimised flow rate: average increase of 50 %

- Maximum use of surface.
- Minimum loss of pressure.

Innovation



New

Smart ventilation systems



The smartest way to keep critical equipment cool

- Intelligent filter.
- Adaptable to any new or existing enclosures.

> See page 508

Thermal management system

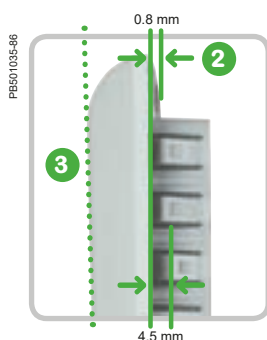
Introduction

High protection rating: IP54 as standard



1 - Fixing guide

- To centre the body of the fan on the wall of enclosure.
- To correct machining faults.
- To facilitate the correct operation of the fixing "clips".

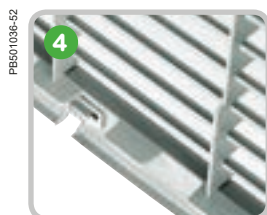


2 - Multi-thickness fixing-clips

- To guarantee easy and reliable fixing of the ventilation system.
- With a thickness of 0.8 to 4.5 mm, with no fixings.

3 - Inclined profile of the grille

- To protect the filter against vertical spraying:
 - each slat is protected by the slat above it,
 - the external dimensions remain small.



4 - IP54-55

A patented system allows the evacuation of water absorbed by the filter, in particular during high-pressure spraying.



5 - Hot-fitted sealing gasket

The polyurethane gasket, hot cast, guarantees a long-lasting seal.



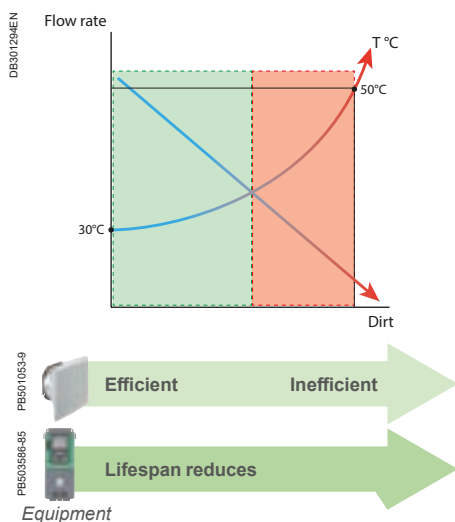
6 - Effective system for retaining the filter

The system for holding the synthetic filter in the cavity of the filter holder guarantees a protection rating of IP54, in the most difficult conditions.

Innovation

Problems generated by dirty filters

60% of installations face quality issues caused by dirty filters



> Product malfunction or breakdown of the panel

- Overheating issues
- Conductivity issues due to dust
- Damage to internal moving parts

> Reduced lifespan of installed equipment

> Low energy efficiency of the panel

- Overconsumption of the fan

> Safety issues

- Risk of fire/burning

All these issues are due to the presence of dust and/or ventilation malfunction; they can be avoided with the use of a smart ventilation system.

HEALTH OF EQUIPMENT = FILTER'S DUST LEVEL

The concept of the ClimaSys Smart Ventilation System (CSVs)

The ClimaSys Smart Ventilation System is a smart, closely integrated network that makes your life easier.

> Use corrective and predictive maintenance of the ventilation system to:

- Improve CAPEX and OPEX of the installation
- Improve maintenance and operation of the installation
- Improve peace of mind
- Improve maintenance cost

for new and already existing installations.

> Functions of the CSVs systems:

Detect general poor health of the enclosure by monitoring:

- Input/output temperature

Detect fan issues by monitoring:

- Air flow temperature
- Current level, consumed energy
- Blade speed measurement
- Used and remaining (approximate) lifespan

Detect grid filter issues:

- Air flow temperature
- Dust level (0% clean – 100% dirty)
- Number of replacements
- Remaining time before next replacement



90%
savings on filter
maintenance

Innovation

The technical solution

2 sensors...

PB503857-30



Dust Sensor
(patented)
NSYCCAFSDUST

Composed of an optical sensor which detects the filter dirt level + temperature sensor

PB503852-30



Fan Sensor
NSYCCARPM

Composed of:

- RPM sensor to control fan rotation and transported air temperature
- Toroidal sensor to measure fan consumption

... connected to a **controller** which relays information and alarms

PB503842-30



Filterstat™ Controller ClimaSys CC DG
NSYCCOFST...V

Information displayed on Filterstat's controller screen

- **Detect general poor health of enclosure by monitoring:**
 - Input/output temperature
- **Detect fan issues by monitoring:**
 - Air flow temperature
 - Current level, consumed energy
 - Blade speed measurement
 - Used and remaining (approximate) lifespan
- **Detect grid filter issues:**
 - Air flow temperature
 - Dust level (0% clean – 100% dirty)
 - Number of replacements
 - Remaining time before next replacement

The alarms

The system offers different types of alarms for notification when something is not right:

Alarms

- **Dust filter alarm:** filter capacity is below from a user-defined level. 0%-60% (Green LED Colour), 60%-80% (Orange LED Colour), >80% (Flashing Red LED Colour)
- **No electricity supply to fan:** fan is running (there is an rpm reading but the current sensor shows a 0 mA reading).
- **Fan rpm slow:** fan speed is below a user-predefined level.
- **Fan flaps blocked:** consumption in a fan is detected but the rpm speed is zero.
- **Over-temperature alarm on airflow:** fan exceeds a user-defined threshold.
- **Over-temperature or down-temperature alarm:** on inlet or outlet air from grids.
- **Fan lifespan over:** the fan lifetime has almost expired and should be replaced (front LEDs light up purple).
- **Δt deviation:** Δt deviation is greater than a user-predefined threshold.
- **Remote sensor not connected/broken:** a device in the network is disconnected.

Thermal network architecture

> The greenfield solution for new installations

We offer a range of digital devices that can be connected together and optionally also to a remote supervisor.
See page 510

> The brownfield kit for retrofit installations

It is easy to upgrade an **existing installation** to a digital one.
See page 511

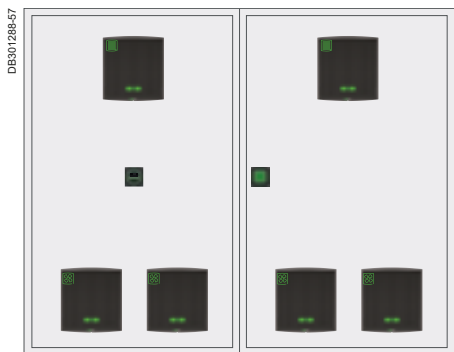
PB503530-104



Innovation

Build your greenfield solution for a new installation

The nucleus of the system is the ClimaSys Filterstat™ controller that collects information from filter and fan sensors across all of your enclosures.

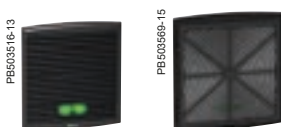


1 Select your Smart Fan



See details page 512

2 Select your Smart Grid



NSYCAG92DG

See details page 516

New ClimaSys Smart Grids Offer

Complete Smart Grid that includes:

- a Dust Sensor
- a Smart Filter G2*

Grid cut-out (mm ²)	Grid references
92x92	NSYCAG92DG
125x125	NSYCAG125DG
223x223	NSYCAG223DG
291x291	NSYCAG291DG

* G3 smart filter to be order separately (see page 517).

3 Select your controller and potential thermal hubs to digitalize more than 1 enclosure



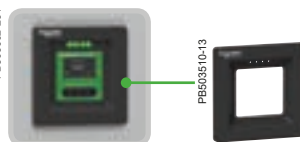
NSYCCOFST90250V



NSYCCOFSEM8U

Filterstat Controllers (4 ports) and thermal hubs (8 ports)

Voltage (V)	Controller ref.	Thermal hub ref.
30V AC/DC	NSYCCOFST30V	NSYCCOFSEM8U1
90-250V AC	NSYCCOFST90250V	NSYCCOFSEM8U2



Modular frame IP55

Trim frame IP55 for installing the Filterstat Controller and thermal Hub on enclosure doors, side panels etc. Material and colour: same as controller.

Reference
NSYCCOFR55

4 Select your communication cables

(the commonest architecture is made up of 3 cables to be selected for 1 enclosure with 1 fan at the bottom and 1 grid at the top)



NSYCCA50MFST

Filterstat communication cable

Black unshielded cable with 2 connectors on each side. Material: PVC.

Length (mm)	Cable references
500	NSYCCA50MFST
1000	NSYCCA100MFST
1500	NSYCCA150MFST
2000	NSYCCA200MFST
3000	NSYCCA300MFST
4000	NSYCCA400MFST
5000	NSYCCA500MFST

[!] Control devices (thermostat, hygrostat, hygrotherm) must be ordered separately.



Easy product selection with the Proclima selection tool

Innovation

Select your brownfield kit for an existing installation

To digitalize an existing installation, order the appropriate brownfield kit:



PB503531-48



Suitable for existing enclosures with fan at the bottom and grid at the top (lateral or door)

Characteristics		Brownfield kits
Grid cut-out size (mm)	Cable size (m)	References
92 x 92	0.5	NSYCCFSBRKIT92
125 x 125	1	NSYCCFSBRKIT125
223 x 223	1.5	NSYCCFSBRKIT223
291 x 291	2	NSYCCFSBRKIT291

The kit includes:

- 2 units external covers grey smokey grids
- 2 units smart filters (2 Filter Mat G2 + 2 dust sensors)
- 1 unit Filterstat Controller (90-250 V, 50 Hz-60Hz)
- 3 cables
- 1 rpm + toroidal sensor
- Other equipment: 10 stickers and retainer flaps mini-tool kit

... or select brownfield components separately:

PB503516-13



PB503517-14



PB503508-18



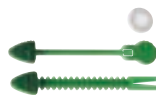
PB503557-22



Characteristics		External Smart Grids	External smokey grids	Smart filters*		Dust Sensor
		External grids equipped with G2 filter and Dust Sensor to be installed in an existing grid support.	External grids to be installed in an existing grid support or used as spare part. Smart filter and Dust sensor to be ordered separately.	Set of 5 Smart filters for replacement on Smart Fans and Smart Grids.		Individual Dust Sensor ready to be implemented on any existing ClimaSys CV fan or ClimaSys CA grids in the brownfield installation or used as spare part.
Grid cut-out size(mm)	References			Filter type	References	NSYCCAFSDUST
92 x 92	NSYCAG92DGC	NSYCAG92BPC	M1 G2	NSYCAF92DG		
125 x 125	NSYCAG125DGC	NSYCAG125BPC	M1 G2	NSYCAF125DG		
223 x 223	NSYCAG223DGC	NSYCAG291BPC	M1 G3	NSYCAF125G3DG		
291 x 291	NSYCAG291DGC	NSYCAG223BPC	M1 G2	NSYCAF223DG		
			M1 G3	NSYCAF223G3DG		
			M1 G2	NSYCAF291DG		
			M1 G3	NSYCAF291G3DG		

* See details page 517.

PB503518-12



PB503552-22



10 stickers and retainer flaps mini-tool kit	Fan Sensor
Tool kit for digitalizing fans in brownfield installations without opening fan motor rear grids.	Individual Fan Sensor ready to be implemented on any existing fan in the brownfield installation or used as spare part.
Reference	
NSYCCABLK	NSYCCARP

Thermal management system

Characteristics

New

Smart ventilation systems

Forced ventilation

Characteristics

Material of external grids

Colour of external grids

Conditions of use

Ingress protection rating (according to IEC 60529)

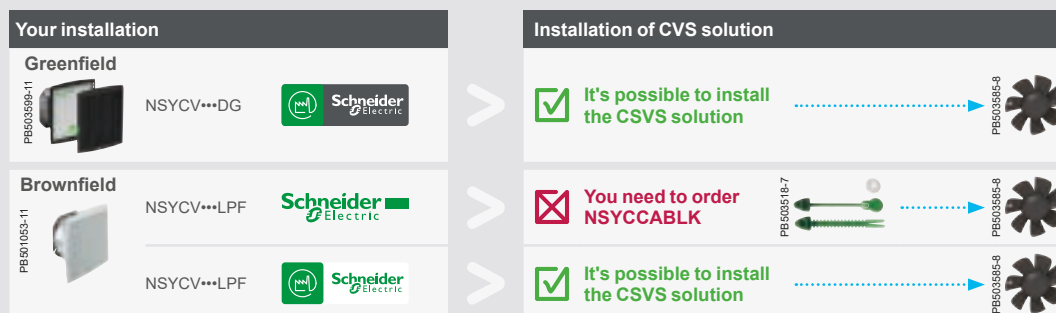
Mechanical protection rating (according to IEC 62262)

Installation

Options

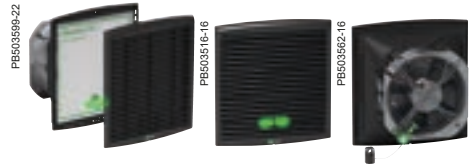
Free flow rate with standard filter (m³/h)	Flow rate with outlet grille(s) (m³/h)		Voltage range (nominal voltage)	Absorbed power (max. intensity)	Noise level	External dimensions (cut-out)	Weight	Operating temperature	Max. static pressure
	1	2							
34 (50 Hz) 35 (60 Hz)	21 (50 Hz) 22 (60 Hz)	29 (50 Hz)	150 V...250 V (230 V)	4.5/4.8 W (0.16/0.17 A)	40/41 dB (A)	137 x 117 x 49 (92 x 92)	0.220 kg	-10...+70°C	29 Pa
34 (50 Hz) 35 (60 Hz)	23 (50 Hz) 24 (60 Hz)	35 (50 Hz)	75 V...125 V (115 V)	3.3/3.5 W (0.16/0.16 A)	40/41 dB (A)	137 x 117 x 49 (92 x 92)	0.220 kg	-10...+70°C	29 Pa
74 (50 Hz) 87 (60 Hz)	52 (50 Hz) 61 (60 Hz)	60 (50 Hz)	175 V...253 V (230 V)	17/15 W (0.121/0.097 A)	46/49 dB (A)	170 x 150 x 62 (125)	0.780 kg	-20...+60°C	50 Pa
68 (50 Hz) 81 (60 Hz)	54 (50 Hz) 63 (60 Hz)	62 (50 Hz)	75 V...126 V (115 V)	16/15 W (0.207/0.179 A)	46/49 dB (A)	170 x 150 x 62 (125)	0.780 kg	-20...+60°C	50 Pa
142 (50 Hz) 170 (60 Hz)	130 (50 Hz) 151 (60 Hz)	138 (50 Hz) 152 (60 Hz)	175 V...253 V (230 V)	16.3/14.3 W (0.12/0.94 A)	50/51 dB (A)	268 x 248 x 104 (223 x 223)	1.140 kg	-20...+60°C	50 Pa
151 (50 Hz) 173 (60 Hz)	130 (50 Hz) 151 (60 Hz)	138 (50 Hz) 156 (60 Hz)	75 V...126 V (115 V)	15.5/14.4 W (0.20/0.18 A)	50/51 dB (A)	268 x 248 x 104 (223 x 223)	1.140 kg	-20...+60°C	50 Pa
259 (50 Hz) 307 (60 Hz)	209 (50 Hz) 251 (60 Hz)	218 (50 Hz)	145 V...253 V (230 V)	36/37 W (0.17/0.16 A)	55/56 dB (A)	268 x 248 x 116 (223 x 223)	1.3 kg	-10...+70°C	158 Pa
259 (50 Hz) 307 (60 Hz)	209 (50 Hz) 251 (60 Hz)	221 (50 Hz)	75 V...126 V (115 V)	36/36 W (0.35/0.32 A)	55/56 dB (A)	268 x 248 x 116 (223 x 223)	1.3 kg	-10...+70°C	158 Pa
502 (50 Hz) 526 (60 Hz)	412 (50 Hz) 448 (60 Hz)	420 (50 Hz)	207 V...244 V (230 V)	68/85 W (0.52/0.370 A)	59/59 dB (A)	336 x 316 x 161 (291 x 291)	3.2 kg	-15...+60°C	140 Pa
522 (50 Hz) 526 (60 Hz)	425 (50 Hz) 417 (60 Hz)	434 (50 Hz)	103 V...122 V (115 V)	65/83 W (0.60/0.72 A)	59/59 dB (A)	336 x 316 x 161 (291 x 291)	3.2 kg	-15...+60°C	140 Pa
638 (50 Hz) 603 (60 Hz)	500 (50 Hz) 462 (60 Hz)	528 (50 Hz)	207 V...244 V (230 V)	150/195 W (0.65/0.85 A)	76/75 dB (A)	336 x 316 x 162 (291 x 291)	4.1 kg	-15...+60°C	170 Pa
783 (50 Hz) 744 (60 Hz)	643 (50 Hz) 442 (60 Hz)	654 (50 Hz)	103 V...122 V (115 V)	145/182 W (1.279/1.6 A)	78/77 dB (A)	336 x 316 x 162 (291 x 291)	4.1 kg	-15...+60°C	170 Pa
731 (50 Hz) 603 (60 Hz)	598 (50 Hz) 368 (60 Hz)	609 (50 Hz)	396 V...466 V (400 V)	126/126 W (0.226/0.232 A)	77/75 dB (A)	336 x 316 x 162 (291 x 291)	4.1 kg	-15...+60°C	170 Pa

How to identify whether your ClimaSys CV fan has been upgraded to install the CSVS solution?



Thermal management system

Characteristics

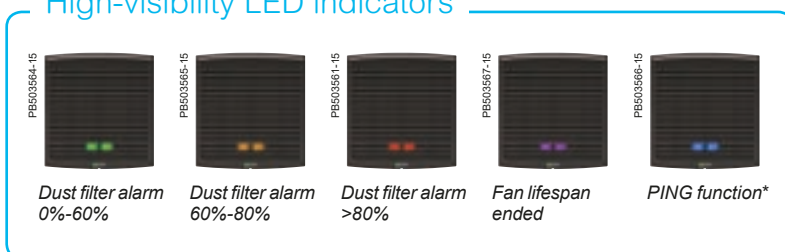


Forced ventilation fan 38 m³/h	Forced ventilation fan 85 m³/h	Forced ventilation fan 165 m³/h	Forced ventilation fan 300 m³/h	Forced ventilation fan 560-850 m³/h
The Smart fans are equipped with an axial motor, a protective housing on the front, rear surfaces, and a Smart filter with Dust sensor and a Fan sensor with infrared technology. The external smokey grid displays the status of the ventilation functions through the LED colours of the Dust sensor. This Smart filter can be replaced for maintenance during operation without risk of contact with the rotating element.				
Injected thermoplastic (ASA PC). self-extinguishing according to UL 94 V-0.				
Smokey black RAL 9005				
<ul style="list-style-type: none"> ■ The external temperature must not exceed 30°C and must be more than 5°C lower than the temperature required in the enclosure ■ The Smart filters that equip the Smart fans must be replaced when the alarm is triggered Filterstat controller (see more details page 509) ■ Storage Temperature: -40...+ 70°C 				
IP54 IK08				
The cut-out template supplied with the device avoids the need for marking and protects the surface of the enclosure during handling.				
For maintenance replacement of Smart filters please see spare parts references, page 517				
Type of connection				
by cable	by faston (1)	by faston (1)	by faston (1)	by terminal block
NSYCVF38M230DG*	-	-	-	-
NSYCVF38M115DG*	-	-	-	-
-	NSYCVF85M230DG	-	-	-
-	NSYCVF85M115DG	-	-	-
-	-	NSYCVF165M230DG	-	-
-	-	NSYCVF165M115DG	-	-
-	-	-	NSYCVF300M230DG	-
-	-	-	NSYCVF300M115DG	-
-	-	-	-	NSYCVF560M230DG
-	-	-	-	NSYCVF560M115DG
-	-	-	-	NSYCVF850M230DG
-	-	-	-	NSYCVF850M115DG
-	-	-	-	NSYCVF850M400DG

(1) Fan models with connection are delivered with the connection cord included (2 metres).

* Warning: the fan NSYCVF38M230DG & NSYCVF38M115DG MUST NOT be connected to a power conversion module, an inverter or UPS type of power supply !

High-visibility LED indicators



*Identification of the sensor on the panel (flashing blue color)

Thermal management system

Dimensions

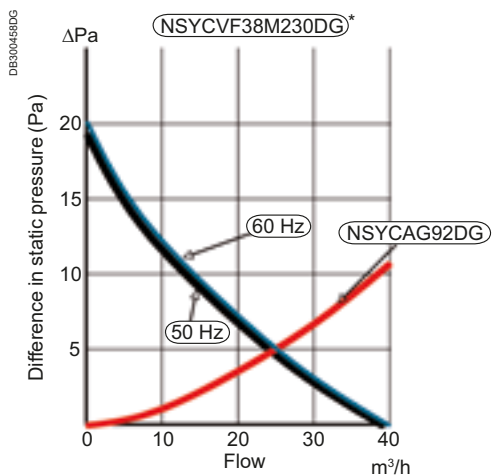
New

Smart ventilation systems

Fan 38 m³/h

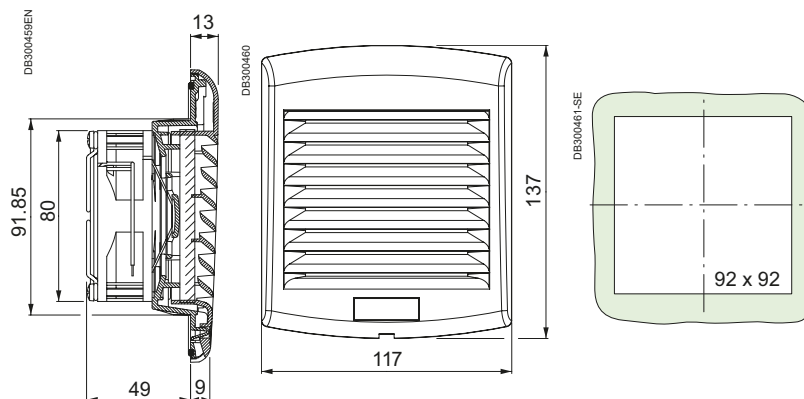
Dimensions

Flow curves



* Warning: the fan **NSYCVF38M230DG** MUST NOT be connected to a power conversion module, an inverter or UPS type of power supply!

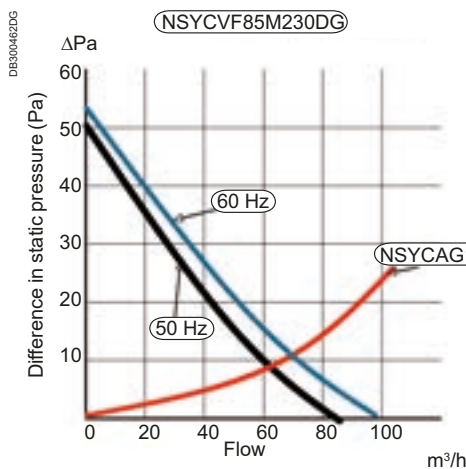
Note: Adding the Dust Sensor will decrease the flow rate by nearly 10%.



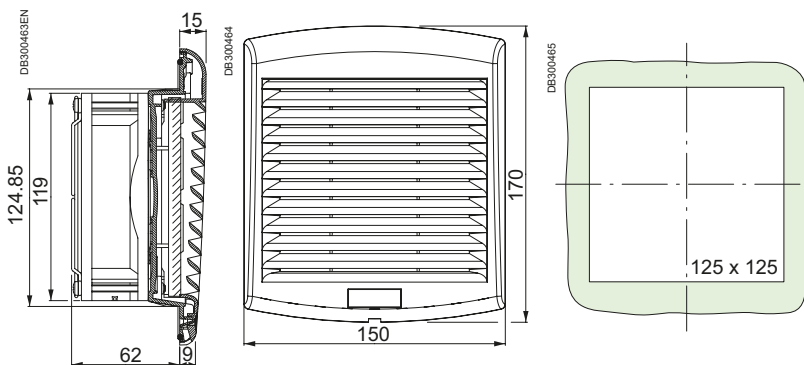
Fan 85 m³/h

Dimensions

Flow curves



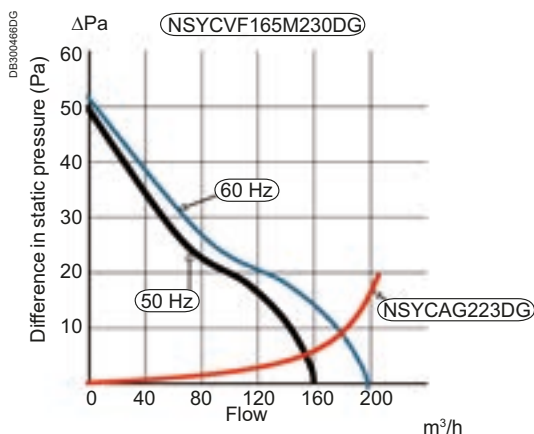
Note: Adding the Dust Sensor will decrease the flow rate by nearly 5%.



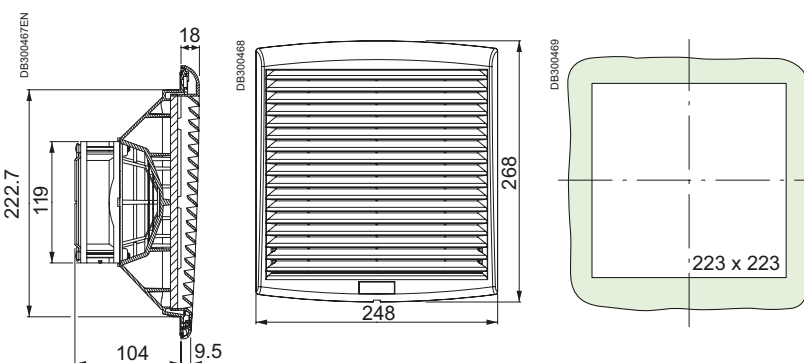
Fan 165 m³/h

Dimensions

Flow curves



Note: Adding the Dust Sensor will decrease the flow rate by nearly 5%.

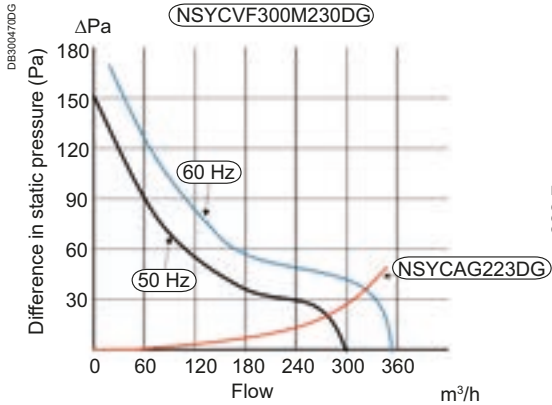


Thermal management system

Dimensions

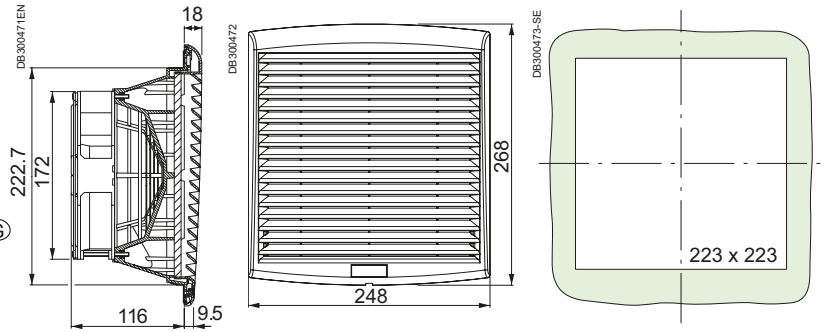
Fan 300 m³/h

Flow curves



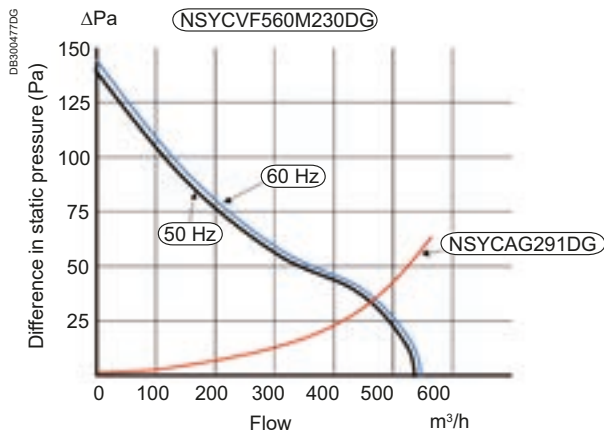
Note: Adding the Dust Sensor will decrease the flow rate by nearly 5%.

Dimensions



Fan 560-850 m³/h

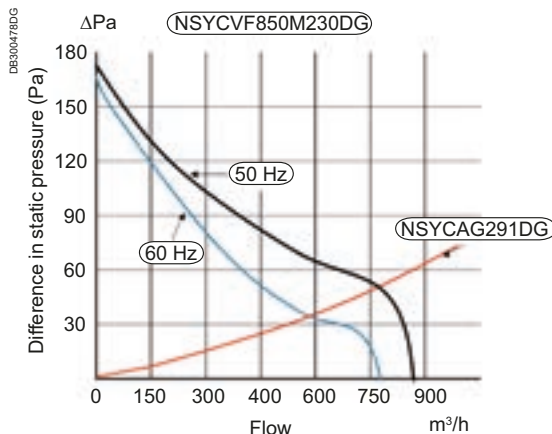
Flow curves



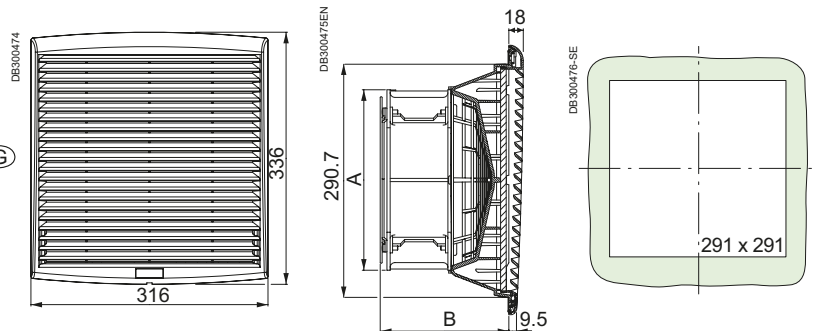
Note: Adding the Dust Sensor will decrease the flow rate by nearly 5%.

Dimensions

A	B	References
225	160.5	NSYCVF560M230DG NSYCVF560M115DG
280	162	NSYCVF850M230DG NSYCVF850M115DG



Note: Adding the Dust Sensor will decrease the flow rate by nearly 5%.



New

Smart Grid systems

PB503516-24

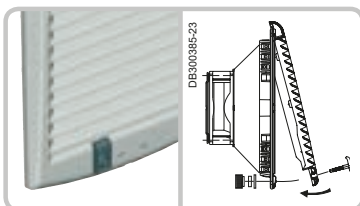


PB503516-24



Characteristics				Complete Smart Grids	External Smart Grids (without internal grid systems)
Material				Complete Smart Grid that includes: <ul style="list-style-type: none"> ■ a Dust Sensor ■ a SmartFilter G2 	External grids equipped with G2 Smart filter and Dust Sensor to be installed in an existing grid support.
Colour				Smokey black RAL 9005	Smokey black RAL 9005
Ingress protection rating (according to IEC 60529)				IP54	IP54
Height (mm)	Width (mm)	Depth (mm)	Cut-out (mm)	References	
137	117	13	92 x 92	NSYCAG92DG	NSYCAG92DGC
170	150	15	125 x 125	NSYCAG125DG	NSYCAG125DGC
268	248	18	223 x 223	NSYCAG223DG	NSYCAG223DGC
336	316	18	291 x 291	NSYCAG291DG	NSYCAG291DGC

PB501056-29



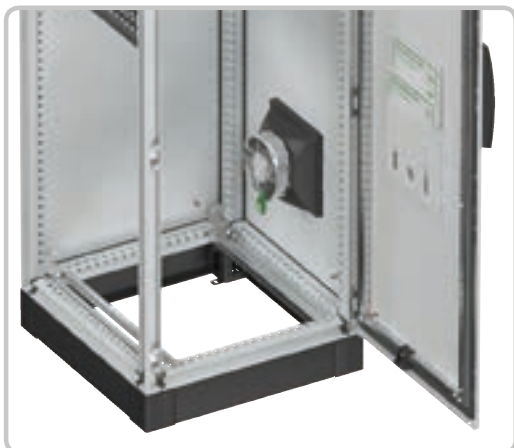
Characteristics	Anti-vandalism kit
Colour	Prevents the grid from being opened from the outside. The unlocking thumbwheel is accessed from the inside of the enclosure. RAL 7011
Minor packaging	Reference
2	NSYCAAPV

Pockets

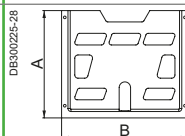
PB500464-19



PB503633-66



Characteristics				Plastic document pocket	
Material				Fixed by adhesive tape.	
Colour				Polystyrene (PS)	
Supply				RAL 7035 grey (NSYDPA4: RAL 9001)	
Dimensions (mm)				1 plastic document pocket	
Doc. format	A	B	C	References	Smart filter references
A5	174	188	22	NSYDPA5	NSYCAF92•DG & NSYCAF125•DG
A4	230	247	23	NSYDPA4	NSYCAF223•DG
A4	234	278	40	NSYDPA44 (1)	NSYCAF223•DG
A3	285	476	35	NSYDPA3	NSYCAF291•DG



(1) Not compatible with 19" chassis or modular distribution installation.

Thermal management system Accessories

PB503517-24



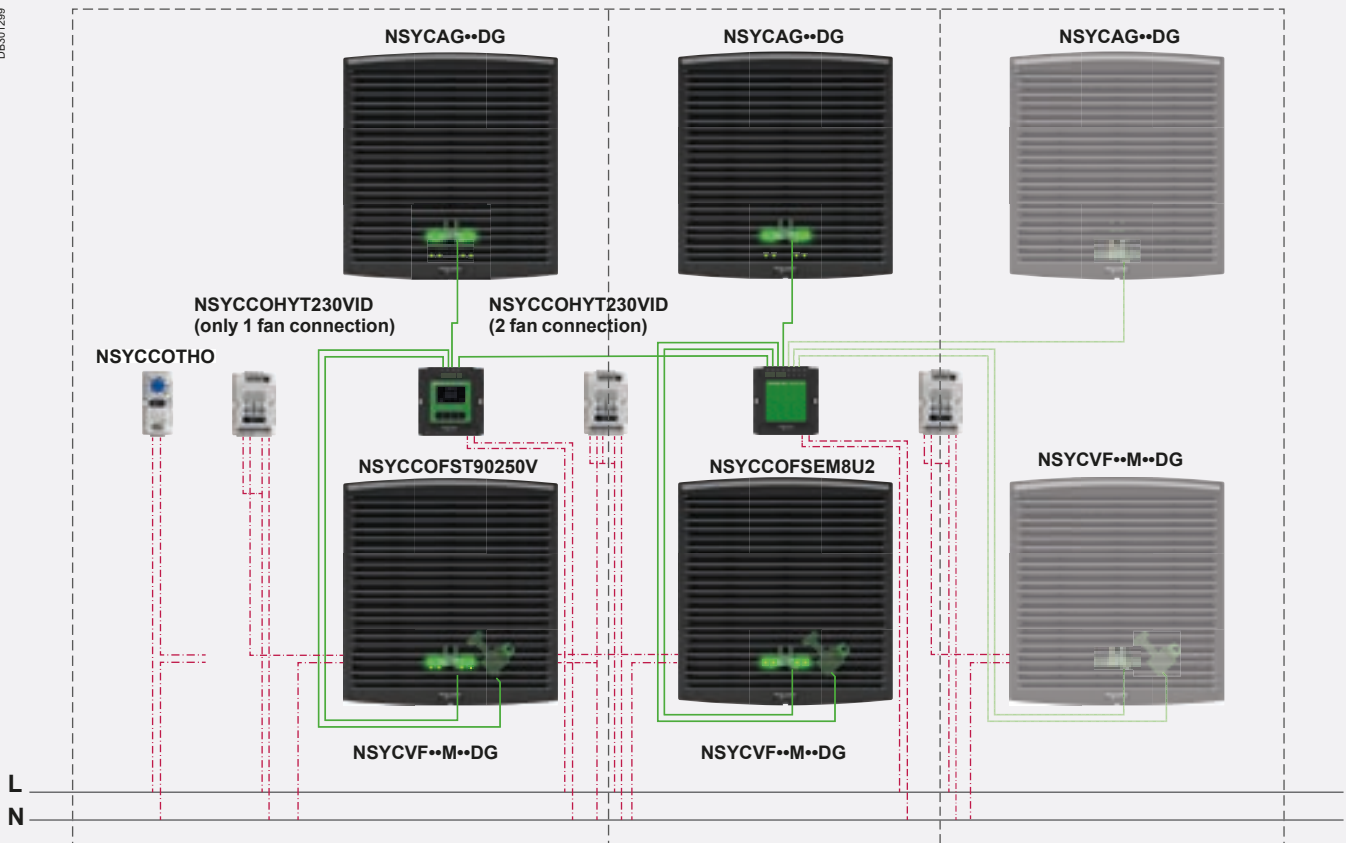
PB503598-30



External smokey grids (external cover only)		Smart filters			
		G2 M1 filters		G3 M1 filters	
	External grids to be installed in an existing grid support or used as spare part. Smart filter and Dust sensor to be ordered separately.	Set of 5 Smart filters for replacement on Smart Fans and Smart Grids. For fans and grilles.			
	Injected thermoplastic (PC), self-extinguishing according to UL 94 V-0 Smokey black RAL 9005	Polyester. Filters according to ISO 16890. White with green lettering			
	IP54	-			
		Pack.	References	Pack.	References
	NSYCAG92BPC	5	NSYCAF92DG	-	-
	NSYCAG125BPC	5	NSYCAF125DG	5	NSYCAF125G3DG
	NSYCAG291BPC	5	NSYCAF223DG	5	NSYCAF223G3DG
	NSYCAG223BPC	5	NSYCAF291DG	5	NSYCAF291G3DG

ClimaSys (CSVS) General wiring diagram

DE301299



Thermal management system

Characteristics

Ventilation Systems

Forced ventilation

Characteristics

Material external grids

Colour external grids

Conditions of use

Ingress protection rating (according to IEC 60529)

Mechanical protection rating (according to IEC 62262)

Installation

Options

Free flow rate with standard filter (m³/h)	Flow rate with outlet grille(s) (m³/h)		Voltage range (nominal voltage)	Absorbed power (max. intensity)	Noise level	External dimensions (cut-out)	Weight	Operating temperature	Max. static pressure
	1	2							
38 (50 Hz) 39 (60 Hz)	25 (50 Hz) 26 (60 Hz)	33 (50 Hz)	150 V...250 V (230 V)	4.5/4.8 W (0.16/0.17 A)	40/41 dB (A)	137 x 117 x 49 (92 x 92)	0.220 kg	-10...+70°C	29 Pa
38 (50 Hz) 39 (60 Hz)	27 (50 Hz) 28 (60 Hz)	35 (50 Hz)	75 V...125 V (115 V)	3.3/3.5 W (0.16/0.16 A)	40/41 dB (A)	137 x 117 x 49 (92 x 92)	0.220 kg	-10...+70°C	29 Pa
58	39	47	10 V...27.6 V (24 V DC)	3.6 W (0.18 A)	40/41 dB (A)	137 x 117 x 49 (92 x 92)	0.230 kg	-10...+70°C	29 Pa
44	34	41	36 V...56 V (48 V DC)	3.6 W (70 mA)	40/41 dB (A)	137 x 117 x 49 (92 x 92)	0.230 kg	-10...+70°C	29 Pa
85 (50 Hz) 98 (60 Hz)	63 (50 Hz) 72 (60 Hz)	71 (50 Hz)	175 V...253 V (230 V)	17/15 W (0.121/0.097 A)	46/49 dB (A)	170 x 150 x 62 (125)	0.780 kg	-20...+60°C	50 Pa
79 (50 Hz) 92 (60 Hz)	65 (50 Hz) 74 (60 Hz)	73 (50 Hz)	75 V...126 V (115 V)	16/15 W (0.207/0.179 A)	46/49 dB (A)	170 x 150 x 62 (125)	0.780 kg	-20...+60°C	50 Pa
80	57	77	10 V...27.6 V (24 V DC)	7.6 W (0.30 A)	46/49 dB (A)	170 x 150 x 62 (125)	0.480 kg	-10...+70°C	50 Pa
79	59	68	25 V...55.2 V (48 V DC)	8 W (0.173 A)	46/49 dB (A)	170 x 150 x 62 (125)	0.480 kg	-10...+70°C	50 Pa
165 (50 Hz) 193 (60 Hz)	153 (50 Hz) 171 (60 Hz)	161 (50 Hz) 175 (60 Hz)	175 V...253 V (230 V)	16.3/14.3 W (0.12/0.94 A)	50/51 dB (A)	268 x 248 x 104 (223 x 223)	1.140 kg	-20...+60°C	50 Pa
164 (50 Hz) 193 (60 Hz)	153 (50 Hz) 171 (60 Hz)	161 (50 Hz) 179 (60 Hz)	75 V...126 V (115 V)	15.5/14.4 W (0.20/0.18 A)	50/51 dB (A)	268 x 248 x 104 (223 x 223)	1.140 kg	-20...+60°C	50 Pa
188	171	179	10 V...27.6 V (24 V DC)	8 W (0.3 A)	50/51 dB (A)	268 x 248 x 104 (223 x 223)	0.810 kg	-10...+70°C	50 Pa
193	171	179	25 V...55.2 V (48 V DC)	8.7 W (0.18 A)	50/51 dB (A)	268 x 248 x 104 (223 x 223)	0.810 kg	-10...+70°C	50 Pa
302 (50 Hz) 350 (60 Hz)	260 (50 Hz) 307 (60 Hz)	268 (50 Hz)	145 V...253 V (230 V)	36/37 W (0.17/0.16 A)	55/56 dB (A)	268 x 248 x 116 (223 x 223)	1.3 kg	-10...+70°C	158 Pa
302 (50 Hz) 350 (60 Hz)	263 (50 Hz) 307 (60 Hz)	271 (50 Hz)	75 V...126 V (115 V)	36/36 W (0.35/0.32 A)	55/56 dB (A)	268 x 248 x 116 (223 x 223)	1.3 kg	-10...+70°C	158 Pa
262	221	229	12 V...30 V (24 V DC)	13 W (0.53 A)	55/56 dB (A)	268 x 248 x 103.4 (223 x 223)	1.1 kg	-10...+70°C	158 Pa
247	210	218	25 V...60 V (48 V DC)	11 W (0.24 A)	55/56 dB (A)	268 x 248 x 103.4 (223 x 223)	1.1 kg	-10...+70°C	158 Pa
562 (50 Hz) 586 (60 Hz)	473 (50 Hz) 477 (60 Hz)	481 (50 Hz)	207 V...244 V (230 V)	68/85 W (0.52/0.370 A)	59/59 dB (A)	336 x 316 x 161 (291 x 291)	3.2 kg	-15...+60°C	140 Pa
582 (50 Hz) 586 (60 Hz)	485 (50 Hz) 477 (60 Hz)	494 (50 Hz)	103 V...122 V (115 V)	65/83 W (0.60/0.72 A)	59/59 dB (A)	336 x 316 x 161 (291 x 291)	3.2 kg	-15...+60°C	140 Pa
838 (50 Hz) 803 (60 Hz)	718 (50 Hz) 568 (60 Hz)	728 (50 Hz)	207 V...244 V (230 V)	150/195 W (0.65/0.85 A)	76/75 dB (A)	336 x 316 x 162 (291 x 291)	4.1 kg	-15...+60°C	170 Pa
983 (50 Hz) 944 (60 Hz)	843 (50 Hz) 642 (60 Hz)	854 (50 Hz)	103 V...122 V (115 V)	145/182 W (1.279/1.6 A)	78/77 dB (A)	336 x 316 x 162 (291 x 291)	4.1 kg	-15...+60°C	170 Pa
931 (50 Hz) 803 (60 Hz)	798 (50 Hz) 568 (60 Hz)	809 (50 Hz)	396 V...466 V (400 V)	126/126 W (0.226/0.232 A)	77/75 dB (A)	336 x 316 x 162 (291 x 291)	4.1 kg	-15...+60°C	170 Pa

Thermal management system

Characteristics



Forced ventilation fan 38 m³/h	Forced ventilation fan 85 m³/h	Forced ventilation fan 165 m³/h	Forced ventilation fan 300 m³/h	Forced ventilation fan 560-850 m³/h
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.				
Injected thermoplastic (ASA PC), self-extinguishing according to UL 94 V-0				
RAL 7035 as standard				
<ul style="list-style-type: none"> ■ The external temperature must not exceed 30°C and must be more than 5°C lower than the temperature wanted in the enclosure ■ The filters that equip the fans must be cleaned and replaced regularly ■ The ambient air 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 ■ Storage Temperature: -40... + 70°C 				
IP54				
IK08				
The cut-out template supplied with the device avoids the need for marking and protects the surface of the enclosure during handling				
The device can be equipped with a filter that provides even more efficient protection for your sensitive facilities against dust particles				
Type of connection				
by cable	by faston (1)	by faston (1)	by faston (1)	by terminal block
NSYCVF38M230PF*	-	-	-	-
NSYCVF38M115PF*	-	-	-	-
NSYCVF38M24DPF	-	-	-	-
NSYCVF38M48DPF	-	-	-	-
-	NSYCVF85M230PF	-	-	-
-	NSYCVF85M115PF	-	-	-
-	NSYCVF85M24DPF	-	-	-
-	NSYCVF85M48DPF	-	-	-
-	-	NSYCVF165M230PF	-	-
-	-	NSYCVF165M115PF	-	-
-	-	NSYCVF165M24DPF	-	-
-	-	NSYCVF165M48DPF	-	-
-	-	-	NSYCVF300M230PF	-
-	-	-	NSYCVF300M115PF	-
-	-	-	NSYCVF300M24DPF	-
-	-	-	NSYCVF300M48DPF	-
-	-	-	-	NSYCVF560M230PF
-	-	-	-	NSYCVF560M115PF
-	-	-	-	NSYCVF850M230PF
-	-	-	-	NSYCVF850M115PF
-	-	-	-	NSYCVF850M400PF

(1) Fan models with connection type (F) are delivered with the connection cord included (2 metres).

* Warning: the fan NSYCVF38M230PF & NSYCVF38M115PF MUST NOT be connected to a power conversion module, an inverter or UPS type of power supply!

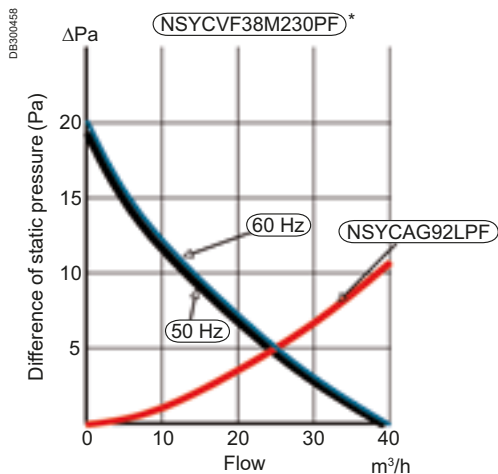
Thermal management system

Dimensions

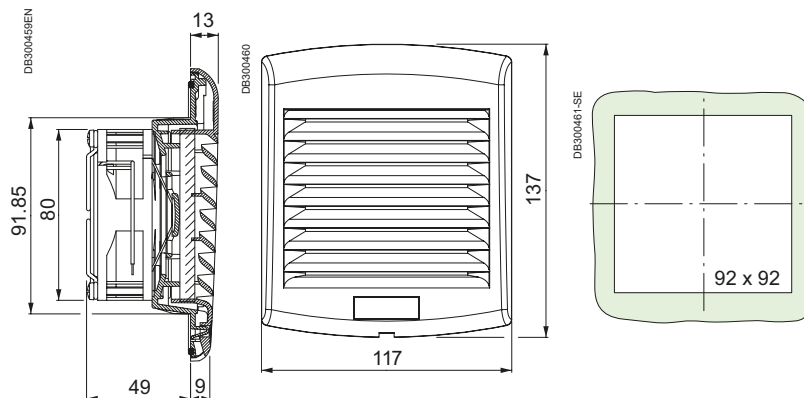
Fan 38 m³/h

Dimensions

Flow curves



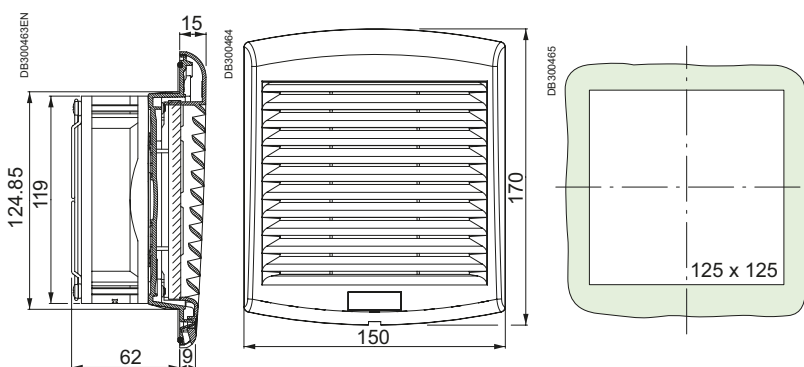
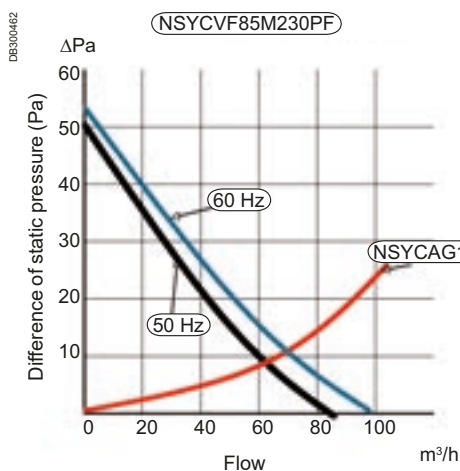
* Warning: the fan NSYCVF38M230PF MUST NOT be connected to a power conversion module, an inverter or UPS type of power supply!



Fan 85 m³/h

Dimensions

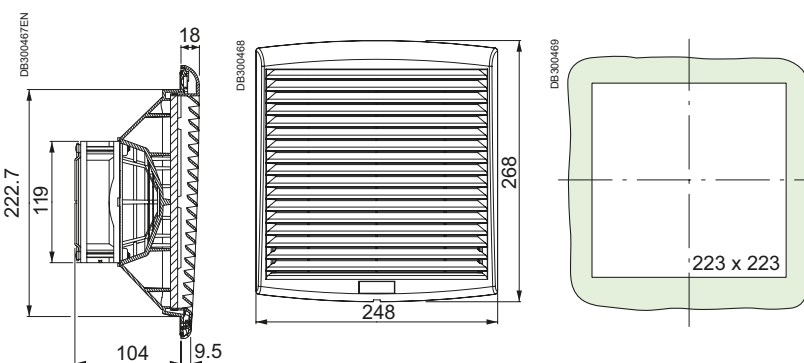
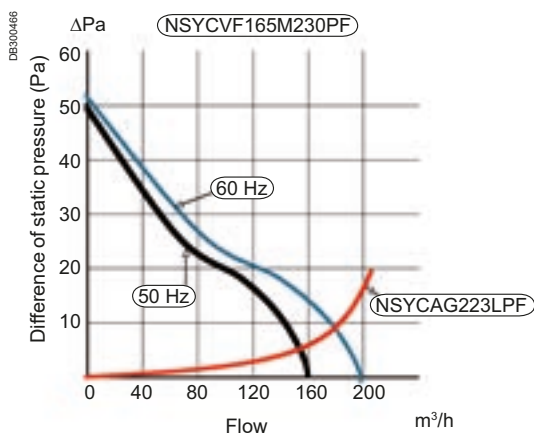
Flow curves



Fan 165 m³/h

Dimensions

Flow curves

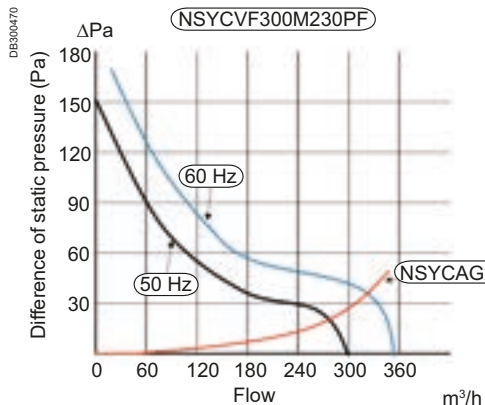


Thermal management system

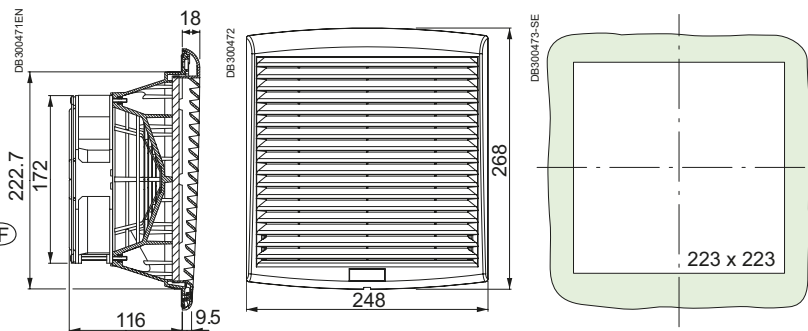
Dimensions

Fan 300 m³/h

Flow curves

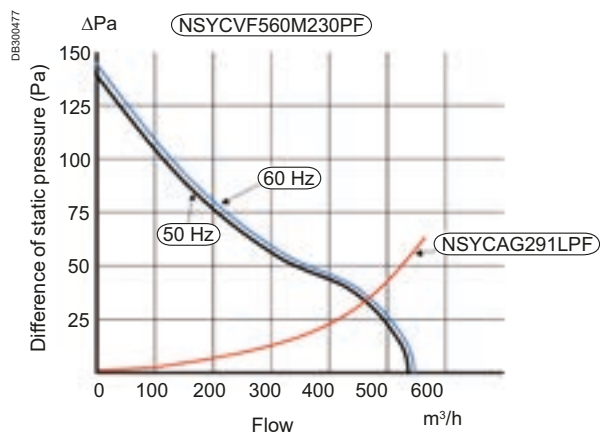


Dimensions



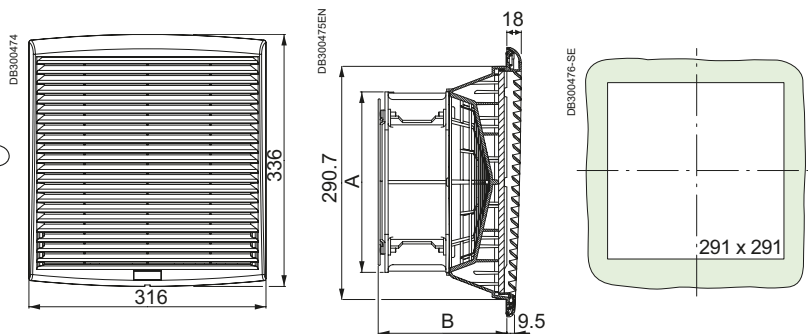
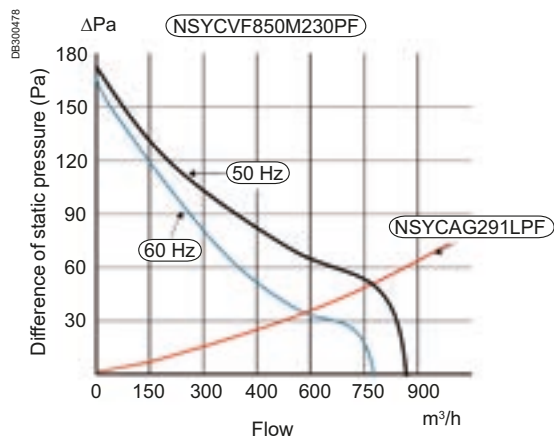
Fan 560-850 m³/h

Flow curves



Dimensions

A	B	References
225	160.5	NSYCVF560M230PF NSYCVF560M115PF
280	162	NSYCVF850M230PF NSYCVF850M115PF



Thermal management system

Accessories

Ventilation Systems

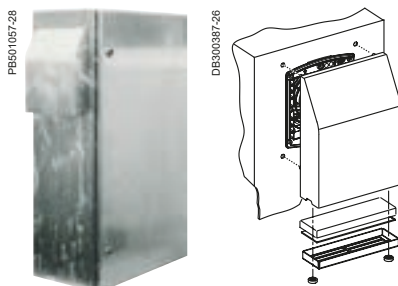


RAL 7035



RAL 7032

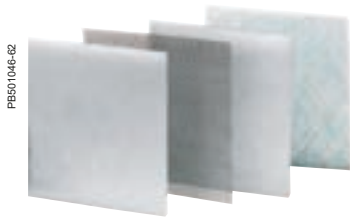
Characteristics				IP54 outlet grilles	
Material				Delivered with G2 M1 synthetic standard filter according to ISO 16890.	Cover for changing the colour of the standard grille RAL 7035 to RAL 7032.
Colour				Injected thermoplastic (ASA PC), self-extinguishing according to UL 94 V-0	Injected thermoplastic (ASA PC), self-extinguishing according to UL 94 V-0
Ingress protection rating (according to IEC 60529)				RAL 7035	RAL 7032
References				IP54	IP54
Height (mm)	Width (mm)	Depth (mm)	Cut-out (mm)	References	
137	117	13	92 x 92	NSYCAP125LZF	NSYCAP125LXF
170	150	15	125 x 125	NSYCAP223LZF	NSYCAP223LXF
268	248	18	223 x 223	NSYCAP291LZF	NSYCAP291LXF
336	316	18	291 x 291	NSYCAP291LZF	NSYCAP291LXF



Characteristics				Covers IP55		Spare filter for cover	Fan	Grille
Material				This solution protects the fan or the grille from any direct sprays. The cover is the preferred solution to guarantee the following: <input type="checkbox"/> an efficient air flow for cooling, <input type="checkbox"/> IP55 rating.		-	-	-
Ingress protection rating (according to IEC 60529)				2 materials available: <input type="checkbox"/> steel painted with epoxy-polyester powder (RAL 7035) for outdoor applications <input type="checkbox"/> stainless-steel 304L for food and beverage applications		-	-	-
Mechanical protection rating (according to IEC 62262)				IP55		-	-	-
Certifications				IK10		-	-	-
Installation				UL 508A		-	-	-
Supply				Double insulation maintained if installed in an insulated enclosure. 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.		-	-	-
Flow rate (m ³ /h)* with cover		Dimensions (mm)		References				
Free	With 1 outlet grille	External	Cut-out	Steel painted RAL 7035	Stainless-steel 304L	Emb. mineur 5 p	RAL 7035	RAL 7035
74	53	240 x 180 x 60	125 x 125	NSYCAP125LZF	NSYCAP125LXF	NSYCAF125L55	NSYCVF85M230PF	NSYCAP125LXF
110	82	350 x 305 x 80	223 x 223	NSYCAP223LZF	NSYCAP223LXF	NSYCAF223L55	NSYCVF165M230PF	NSYCAP223LXF
165	123	350 x 305 x 80	223 x 223	NSYCAP223LZF	NSYCAP223LXF	NSYCAF223L55	NSYCVF300M230PF	NSYCAP223LXF
316	265	430 x 373 x 105	291 x 291	NSYCAP291LZF	NSYCAP291LXF	NSYCAF291L55	NSYCVF560M230PF	NSYCAP291LXF
502	430	430 x 373 x 105	291 x 291	NSYCAP291LZF	NSYCAP291LXF	NSYCAF291L55	NSYCVF850M230PF	NSYCAP291LXF

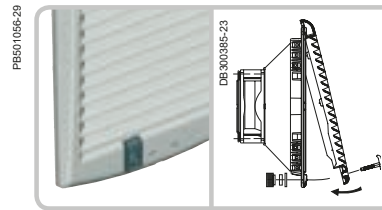
* Values given for a fan powered at 230 V. For other voltages, the values are similar.

Thermal management system Accessories



PB501046-B2

Filters							
G2 M1 synthetic standard filters		Filters for greasy environments G2 M1		G3 M1 synthetic fine filters		Stainless-steel anti-insect filters	
For fans and grilles. Filters according to ISO 16890.							
-							
-							
-							
Pack.	References	Pack.	References	Pack.	References	Pack.	References
5	NSYCAF92	-	-	-	-	1	NSYCAF92M
5	NSYCAF125	5	NSYCAF125O	5	NSYCAF125T	1	NSYCAF125M
5	NSYCAF223	5	NSYCAF223O	5	NSYCAF223T	1	NSYCAF223M
5	NSYCAF291	5	NSYCAF291O	5	NSYCAF291T	1	NSYCAF291M



PB501056-29

DB 300385-23

Characteristics	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.
Colour	RAL 7011 (same material as the grille: ASA PC)
Minor packaging	Reference
2	NSYCAAPV

Thermal management system

Accessories

Ventilation system Heavy duty



Characteristics	Fanbox	Filter	Roof filter for fanbox	IP55 HD Metal Grille	Anti-vandalism kit for HD metal grille										
	<ul style="list-style-type: none"> Free flow rate: 550 m³/h (50/60 Hz). Minimal depth inside the enclosure (90 mm). Allows multiple cooling architectures (see page 526 and 527). 	Replacement G3 M1 type synthetic filter for HD metal grille, according to ISO 16890. <ul style="list-style-type: none"> Dimensions: 223 x 223 mm. 	Roof G2 round synthetic filter designed to cover the fanbox. Covers completely the fanbox and helps to protect it from dust and humidity. Mandatory for fanbox installation in the Roof ventilation module for IP55 configurations.	Slim grille (35 mm external depth). Includes a G3 M1 filter, according to ISO 16890.	Fixings that help to prevent to open the grille from the outside with standard tools (EN 1627-1630:2011 Class 2).										
Material	Plastic	-	-	Steel with anti-corrosive coating	Steel with anti-corrosive coating										
Finish	-	-	-	Structured finish, 100 % polyester powder	-										
Colour	RAL 7016 dark grey	-	-	RAL 7035 grey	-										
Ingress protection rating (according to IEC 60529)	-	-	-	IP55	-										
Mechanical protection rating (according to IEC 62262)	-	-	-	IK10	-										
Supply	1 (grille not included)	5	1	1 grille delivered with G3 M1 type synthetic filter (223 x 223mm) and fixings.	1 kit										
	<table border="1"> <thead> <tr> <th>Voltage</th> <th>References</th> </tr> </thead> <tbody> <tr> <td>24 V DC</td> <td>NSYCVF550M24FB</td> </tr> <tr> <td>24 V DC</td> <td>NSYCVF550M48FB</td> </tr> <tr> <td>115 V AC</td> <td>NSYCVF550M115FB</td> </tr> <tr> <td>230 V AC</td> <td>NSYCVF550M230FB</td> </tr> </tbody> </table>	Voltage	References	24 V DC	NSYCVF550M24FB	24 V DC	NSYCVF550M48FB	115 V AC	NSYCVF550M115FB	230 V AC	NSYCVF550M230FB	Reference	Reference	Reference	Reference
Voltage	References														
24 V DC	NSYCVF550M24FB														
24 V DC	NSYCVF550M48FB														
115 V AC	NSYCVF550M115FB														
230 V AC	NSYCVF550M230FB														
		NSYCAF223T	NSYCAF190	NSYCAG223LFHD	NSYCAAPVHD										

Thermal management system

Ventilation architectures

- ① IP55 metal grille
- ② Fanbox
- ③ Roof ventilated module
- ④ Ventilated plinths
- ⑤ IP54 grille



	S-Line				T-Line			
Architecture benefits	<ul style="list-style-type: none"> ■ Most common and competitive architecture ■ Maximum heat dissipation to extract 800 W-1000 W <ul style="list-style-type: none"> ■ ΔT° of 5°C ■ Easy access to mount-dismount fanbox ■ Air flow in horizontal axis 				<ul style="list-style-type: none"> ■ High capacity of extraction calories up to 1500 W ■ Noise level with 1 fan: 55 dB when installed inside the upper ventilation module <ul style="list-style-type: none"> ■ ΔT° of 5°C ■ Air flow in vertical axis 			
	IP55 metal grille		Fanbox		IP55 metal grille		Fanbox (1 filter NSYCAF190 for each Fanbox)	Roof ventilation module
	Door	Side	Door	Side	Door	Side		

Polyester outdoor HD enclosure

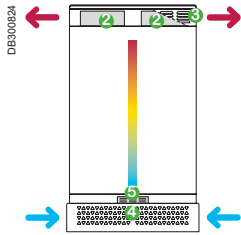
References	Amount to be installed				Amount to be installed				References
NSYPHDT553	-	-	-	-	-	-	-	-	-
NSYPHDT553P	-	-	-	-	-	-	-	-	-
NSYPHDT753	-	-	-	-	-	-	-	-	-
NSYPHDT753P	1 to 2	-	1 to 2	-	1 to 2	-	-	-	-
NSYPHDZT774	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	NSYPCVR74HD
NSYPHDZT774P	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1	NSYPCVR74HD
NSYPHDZT776	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	NSYPCVR76HD
NSYPHDZT776P	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1	NSYPCVR76HD
NSYPHDZT1054	-	1	-	1	-	1	1	1	NSYPCVR54HD
NSYPHDZT1054P	1 to 2	1	1 to 2	1	1 to 2	1	1	1	NSYPCVR54HD
NSYPHDZT1074	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	NSYPCVR74HD
NSYPHDZT1074P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	NSYPCVR74HD
NSYPHDZT12124	-	1 to 3	-	1 to 3	-	1 to 3	1 to 3	1	NSYPCVR124HD
NSYPHDZT12124P	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	NSYPCVR124HD
NSYPHDZT12126	-	1 to 3	-	1 to 3	-	1 to 3	1 to 3	1	NSYPCVR126HD
NSYPHDZT12126P	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	NSYPCVR126HD
NSYPHDZT1254	-	1	-	1	-	1	1	1	NSYPCVR54HD
NSYPHDZT1254P	1 to 3	1	1 to 3	1	1 to 3	1	1	1	NSYPCVR54HD
NSYPHDZT1274	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	NSYPCVR74HD
NSYPHDZT1274P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	NSYPCVR74HD
NSYPHDZT1276	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	NSYPCVR76HD
NSYPHDZT1276P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	NSYPCVR76HD
NSYPHDZT15124	-	1 to 3	-	1 to 3	-	1 to 3	1 to 3	1	NSYPCVR124HD
NSYPHDZT15124P	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	NSYPCVR124HD
NSYPHDZT15126	-	1 to 3	-	1 to 3	-	1 to 3	1 to 3	1	NSYPCVR126HD
NSYPHDZT15126P	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	NSYPCVR126HD
NSYPHDZT1574	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	NSYPCVR74HD
NSYPHDZT1574P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	NSYPCVR74HD
NSYPHDZT1576	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	NSYPCVR76HD
NSYPHDZT1576P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	NSYPCVR76HD
NSYPHDZT2074	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	NSYPCVR74HD
NSYPHDZT2074P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	NSYPCVR74HD

Steel outdoor HD enclosure

References	Amount to be installed				Amount to be installed				References
NSYS3HD8630	1 to 2	-	1 to 2	-	1 to 2	-	-	-	-
NSYS3HD8840	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1	NSYS3CVR84HD
NSYS3HD10640	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1	1	NSYS3CVR64HD
NSYS3HD10840	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	NSYS3CVR84HD
NSYSFHD12640	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1	1	NSYSFCVR64HD
NSYSFHD12660	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1	1	NSYSFCVR66HD
NSYSFHD12840	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 2	1	NSYSFCVR84HD
NSYSFHD12860	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 2	1	NSYSFCVR86HD
NSYSFHD16660	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1	1	NSYSFCVR66HD
NSYSFHD16840	1 to 4	1 to 4	1 to 4	1 to 3	1 to 4	1 to 3	1 to 2	1	NSYSFCVR84HD
NSYSFHD16860	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 2	1	NSYSFCVR86HD
NSYSFHD20840	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 2	1	NSYSFCVR84HD
NSYSFHD1212402D	1 to 4	1 to 3	1 to 4	1 to 2	1 to 4	1 to 2	1 to 3	1	NSYSFCVR124HD
NSYSFHD1212602D	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 2	1 to 3	1	NSYSFCVR126HD
NSYSFHD1612402D	1 to 4	1 to 4	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	NSYSFCVR124HD
NSYSFHD1612602D	1 to 4	1 to 4	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	NSYSFCVR126HD

Thermal management system

Ventilation architectures



This table helps to configure thermal architectures, but it is highly recommended to use ProClima Software to ensure the right thermal solution according to the selected architecture.

I-Line

- Integrated architecture particularly suitable for public areas
- High capacity of extraction calories up to 1500 W
- Noise level with 1 fan: 55 dB when installed inside the upper ventilation module
- Good extraction flow rate power
- Air flow in vertical axis

IP54 outlet grille (NSYCAG223LPF + G3 M1 filter NSYCAF223T)	Ventilated plinths	Fanbox (1 filter NSYCAF190 for each Fanbox)	Roof ventilation module
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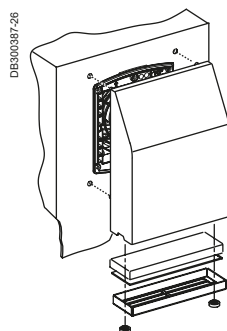
Amount to be installed		References		Amount to be installed		References	
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	-
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	-
1 to 2	1	NSYZZ276VHD	-	1 to 2	1	NSYPCVR76HD	-
1 to 2	1	NSYZZ276VHD	-	1 to 2	1	NSYPCVR76HD	-
1	1	NSYZZ254VHD	-	1	1	NSYPCVR54HD	-
1	1	NSYZZ254VHD	-	1	1	NSYPCVR54HD	-
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	-
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	-
1 to 3	1	NSYZZ2124VHD	-	1 to 3	1	NSYPCVR124HD	-
1 to 3	1	NSYZZ2124VHD	-	1 to 3	1	NSYPCVR124HD	-
1 to 3	1	NSYZZ2126VHD	-	1 to 3	1	NSYPCVR126HD	-
1 to 3	1	NSYZZ2126VHD	-	1 to 3	1	NSYPCVR126HD	-
1	1	NSYZZ254VHD	-	1	1	NSYPCVR54HD	-
1	1	NSYZZ254VHD	-	1	1	NSYPCVR54HD	-
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	-
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	-
1 to 2	1	NSYZZ276VHD	-	1 to 2	1	NSYPCVR76HD	-
1 to 2	1	NSYZZ276VHD	-	1 to 2	1	NSYPCVR76HD	-
1 to 3	1	NSYZZ2124VHD	-	1 to 3	1	NSYPCVR124HD	-
1 to 3	1	NSYZZ2124VHD	-	1 to 3	1	NSYPCVR124HD	-
1 to 3	1	NSYZZ2126VHD	-	1 to 3	1	NSYPCVR126HD	-
1 to 3	1	NSYZZ2126VHD	-	1 to 3	1	NSYPCVR126HD	-
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	-
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	-
1 to 2	1	NSYZZ276VHD	-	1 to 2	1	NSYPCVR76HD	-
1 to 2	1	NSYZZ276VHD	-	1 to 2	1	NSYPCVR76HD	-
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	-
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	-

Amount to be installed		References		Amount to be installed		References	
1	1	NSYSPFVX6200	NSYSPSX3200	-	-	-	-
1 to 2	1	NSYSPFVX8200	NSYSPLVX4200	1 to 2	1	NSYS3CVR84HD	-
1	1	NSYSPFVX6200	NSYSPLVX4200	1	1	NSYS3CVR64HD	-
1	1	NSYSPFVX8200	NSYSPLVX4200	1 to 2	1	NSYS3CVR84HD	-
1	1	NSYSPFVX6200	NSYSPLVX4200	1	1	NSYSFCVR64HD	-
1	1	NSYSPFVX6200	NSYSPLVX6200	1	1	NSYSFCVR66HD	-
1 to 2	1	NSYSPFVX8200	NSYSPLVX4200	1 to 2	1	NSYSFCVR84HD	-
1 to 2	1	NSYSPFVX8200	NSYSPLVX6200	1 to 2	1	NSYSFCVR86HD	-
1	1	NSYSPFVX6200	NSYSPLVX6200	1	1	NSYSFCVR66HD	-
1 to 2	1	NSYSPFVX8200	NSYSPLVX4200	1 to 2	1	NSYSFCVR84HD	-
1 to 2	1	NSYSPFVX8200	NSYSPLVX6200	1 to 2	1	NSYSFCVR86HD	-
1 to 2	1	NSYSPFVX8200	NSYSPLVX4200	1 to 2	1	NSYSFCVR84HD	-
1 to 3	1	NSYSPFVX12200	NSYSPLVX4200	1 to 3	1	NSYSFCVR124HD	-
1 to 3	1	NSYSPFVX12200	NSYSPLVX6200	1 to 3	1	NSYSFCVR126HD	-
1 to 3	1	NSYSPFVX12200	NSYSPLVX4200	1 to 3	1	NSYSFCVR124HD	-
1 to 3	1	NSYSPFVX12200	NSYSPLVX6200	1 to 3	1	NSYSFCVR126HD	-

EMC ventilation Systems



Characteristics				EMC IP54 fan
Ingress protection rating (according to IEC 60529)				IP54
To effectively protect the equipment against electromagnetic disruptions, the EMC fan is equipped with:				<ul style="list-style-type: none"> <input type="checkbox"/> a steel frame covering the plastic elements (self-extinguishing ABS according to standard UL94 V0), <input type="checkbox"/> a metal grille attached to the frame, <input type="checkbox"/> a beryllium gasket guaranteeing conductivity between the perimeter of the fan unit and the enclosure.
External dimensions (mm)	Cut-out (mm)	Flow rate (m³/h)	Voltage (V)	References
145 x 145 x 70	126 x 126	61	230	NSY17990
252 x 252 x 97	224 x 224	156	230	NSY17991
320 x 320 x 150	292 x 292	480	230	NSY17992



Characteristics				EMC IP55 cover
Colour				RAL 7035 grey
Ingress protection rating (according to IEC 60529)				IP55
Mechanical protection rating (according to IEC 62262)				IK10
Certifications				UL 508A Type 3R
Flow rate (m³/h)* with cover		Dimensions (mm)		References
Free	With 1 outlet grille	External	Cut-out	Sheet-steel painted for outdoor applications RAL 7035
74	53	240 x 180 x 60	125 x 125	NSYCAP125LE
110	82	350 x 305 x 80	223 x 223	NSYCAP223LE
165	123	350 x 305 x 80	223 x 223	NSYCAP223LE
316	265	430 x 373 x 105	291 x 291	NSYCAP291LE
502	430	430 x 373 x 105	291 x 291	NSYCAP291LE

* Values given for a fan powered at 230 V. For other voltages, the values are similar.



EMC IP54 outlet grille

Grille equipped with:

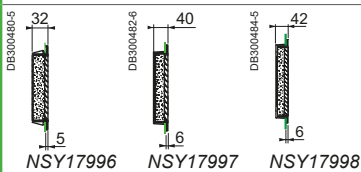
- a steel frame covering the plastic elements (self-extinguishing ABS according to standard UL 94 V-0),
- a metal grille attached to the frame,
- a beryllium gasket guaranteeing conductivity between the perimeter of the grille and the enclosure.

IP54

NSY17996

NSY17997

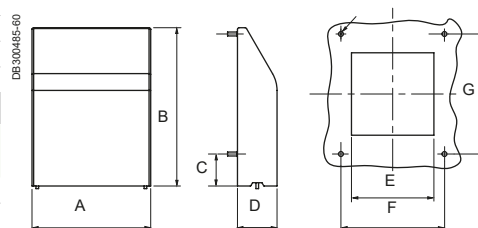
NSY17998



Dimensions of IP54 and EMC covers

Spare filter for cover	Fan	Grille
Minor pack. 5 p	RAL 7035	RAL 7035
NSYCAF125L55	NSYCVF85M230PF	NSYCAG125LPF
NSYCAF223L55	NSYCVF165M230PF	NSYCAG223LPF
NSYCAF223L55	NSYCVF300M230PF	NSYCAG223LPF
NSYCAF291L55	NSYCVF560M230PF	NSYCAG291LPF
NSYCAF291L55	NSYCVF850M230PF	NSYCAG291LPF

Dimensions (mm)								Cover references		
A	B	C	D	E	F	G	No. of fixing points	IP55		EMC
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



Thermal management system

Accessories

Fans by components



Fans

Free flow without filter or grille: 170 m³/h.

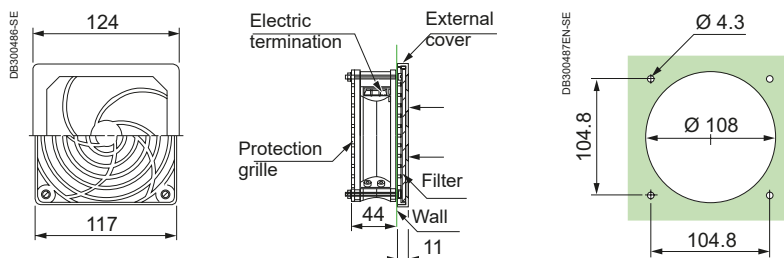
Two models according to the input voltage: 230 and 115 V, 50-60 Hz.

- **Ingress protection rating:** IP20 according to IEC 60529.
- **Options:** IP20 outlet grille (ABS, black) and filter (black polyurethane foam).

Voltage (V)	Flow rate (m ³ /h)	References
115	65	NSYCVF65M115PF
230	65	NSYCVF65M230PF

Accessories

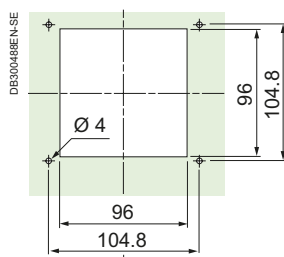
Dimensions (mm)	Description	References
124 x 124 x 11 mm	Outlet grille	NSYACAG108LP
-	Filter	NSYCAF108



Ventilation kit

- **Ingress protection rating:** IP33 according to IEC 60529.
- **Mechanical protection rating:** IK10 according to IEC 62262.
- **Overall flow rate:** 54 m³/h.
- **Supply:**
 - one 120 x 120 x 38 mm fan, 230 V - 50/60 Hz, free flow rate 170 m³/h,
 - two 120 x 120 mm metal grilles, RAL 7035,
 - two 115 x 98 mm anti-insect filters, stainless-steel 304L wire Ø 0.32 mm braided, 1.07-mm meshes,
 - 1 power cord,
 - the fixings required for installation.

Voltage (V)	Flow rate (m ³ /h)	Reference
230	54	NSYCVF54M230MM2



Top hood with fan
ref. NSYCVF575M230MF / NSYCVF570M115MF

Top hood with fan and cover

Fan with hood, for floor-standing enclosures. A flow rate of 350 m³/h is obtained with an outlet grille ref. NSYACAG291LPF, (cut-out 291 x 291 mm).

- **Ingress protection rating:** IP54 according to IEC 60529.
- **Certification:** UL.
- **Installation:** installation and removal from the outside.
- **Electric power:** 85 W.
- **Noise level:** 64 dB (A).
- **Supply:** delivered with fixings and connection terminal block.

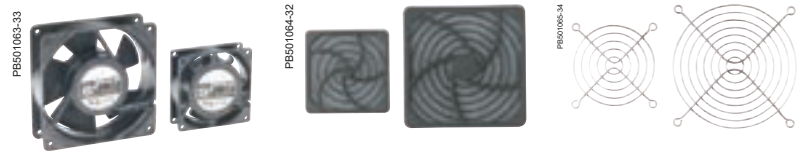
Voltage (V)	Flow rate* (m ³ /h)	Weight (kg)	References
115	570	5.8	NSYCVF570M115MF
230	575	5.8	NSYCVF575M230MF

* Flow rate measured without counter-pressure.

Thermal management system

Accessories

Fans by components



Characteristics						Fan motor	Outlet grille	Rear protective grille
						Turbine-type fan motor for ventilation/extraction.	Outlet filter kit for enclosure ventilation. For coupling to fans NSYCVF156M●●● and NSYCVF35M●●●.	Protective grille for enclosure fan motor. For coupling to fans NSYCVF156M●●● and NSYCVF35M●●●.
Flow rate (m³/h)	Voltage (V)	Absorbed power (W)	Noise level (dB)	External dimensions (mm)	References			
156	230/50-60	17/15	42	120 x 120 x 38	NSYCVF156M230	NSYCAG114LPF	NSYCVA114M	
	120/50-60	17/15	42	120 x 120 x 38	NSYCVF156M115	NSYCAG114LPF	NSYCVA114M	
35	230/50-60	16/14	32	80 x 80 x 25	NSYCVF35M230	NSYCAG78LPF	NSYCVA78M	
	120/50-60	16/14	32	80 x 80 x 25	NSYCVF35M115	NSYCAG78LPF	-	

PB501065-58



Fan connection cable

For coupling to the connection terminal of the fan motors.

Length (m)	Reference
1	NSYCVAC100

Circulating for internal forced convection



Characteristics

Circulation fan

User protection according to DIN 31001.

Dimensions:

- Fan: 119 x 119 x 38 mm.
- Collar: length: 140 mm; fixing centre-to-centre distance: 130 mm.
- Installation on ball-bearing.

Supply

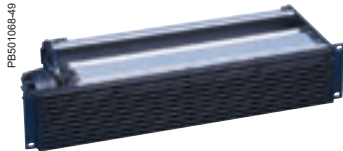
Flow rate (m ³ /h)	Voltage (V)	No.	Weight (kg)	P (W)	I (mA)	dB (A)	Depth (mm)	References
170 (1)	115	-	0.82	17	-	41	-	NSYCVF170M115
	230	-	0.82	17	-	41	-	NSYCVF170M230
300 (2)	230 (50-60 Hz)	-	-	37	-	-	-	-
486 (2)	230	3	3.3	45	300	43	208	-
972 (2)	230	6	5.5	90	600	44	330	-
1458 (2)	230	9	7.8	135	900	45	452	-
552 (2)	48 (3)	3	3.3	21.3	330	43	208	-

(1) Free flow.

(2) Flow rate measured without counter-pressure.

(3) Direct current.

Circulating



Tangential fan, 19" 2 U	Circulation fan, 19" 1 U
Air is sucked in from the front, filtered and forced vertically through the equipment.	Increases the speed of upward air circulation, in particular between trays with cards. Frontal operation LED. It is advisable to install slides, ref. NSYGB140 to guarantee optimal support of the fan.
Delivered without connection cord	Delivered without connection cord
-	-
-	-
NSYAVG2U300	-
-	NSYAVD1U480
-	NSYAVD1U970
-	NSYAVD1U1450
-	NSYAVD1U550M48

Thermal management system

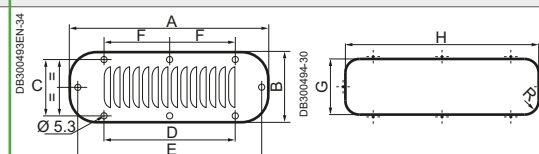
Accessories

Natural airing



PB501072-54

Characteristics												Metal louvre plate, rectangular	
Material												Steel	
Finish												Structured finish, epoxy-polyester powder, RAL 7035 grey	
Ingress protection rating (according to IEC 60529)												IP20	
Installation												On the sides of the enclosure. Fixing by screws	
Supply												1 metal louvre and fixing elements	
Dimensions (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	R (mm)	Slot width (mm)	No. of slots	References	
-	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	
120 x 120	95	104	104.8	-	-	-	-	-	90	-	5		
160 x 160	110	130	140	-	-	-	-	-	-	100	5		
220 x 220	190	170	200	-	-	-	-	-	-	180	5		



Roof accessories for natural airing



PB5000596-30



PB5000594-23



PB501062-30

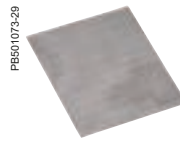
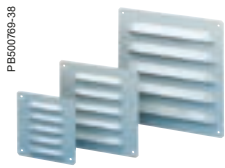


PB501071-30

Characteristics		Roof elevators	Hood for natural airing
		Allow the roof to be raised, providing natural airing.	Natural airing device for coupling to the top of metal floor-standing enclosures. Solution for combining with the ventilation slots.
Material		Zinc-coated steel	Steel
Finish		-	Structured finish, epoxy-polyester powder, RAL 7035 grey
Ingress protection rating		-	IP54 (according to IEC 60529)
Installation		They are screwed onto the structure of SF enclosures at the roof fixing point	Fixing to the top by means of caged nuts and special screws
Supply		4 elevators	1 hood for natural airing and fixing elements
Top elevation (mm) (H)	Weight (kg)	References	
26	-	NSYRE26	
60	-	NSYRE60	
-	4.6	NSYCAC228RMF	
		Spare filter Reference NSYCAF228R	

Thermal management system Accessories

Natural airing



Metal louvre plate, square		Anti-insect filters for metal louvre plate, square		
-	-	Stainless-steel 304L Ø 0.32 mm wire mesh, of 1.07 mm, thickness 0.6 mm		
-	-	-		
IP23	-	IP33		
-	-	Between the enclosure and the metal louvre		
One metal louvre	-	One anti-insect filter		
		External dimensions (mm)	Weight (kg/m ²)	References
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
NSYCAG104X95LM	-	98 x 115	0.8	NSYCAF104X95X
NSYCAG130X110LM	-	133 x 158	0.8	NSYCAF130X110X
NSYCAG170X190LM	-	197 x 215	0.8	NSYCAF170X190X

Other accessories for natural airing



Characteristics				Plastic ventilation louvres					Sealed anti-condensation valve
				Four models available according to IP rating, in vertical position.					Controls the pressure to avoid condensation following an internal temperature increase.
Material				-					PA6-V2, acrylic co-polymer membrane, water and oil repellent
Ingress protection rating (according to IEC 60529)				IP22	IP30/44 (1)	IP45	IP44	IP45	IP68
Temperature of use				-					-40... +105°C
Supply				References by unit. Order by multiples of 2 units (2, 4, 6, etc.)					-
Cut-out Ø (mm)	Permeability (2)	Pressure difference (3)	Minor pack.	References					
45.5	-	-	-	NSYCAG45LP	-	-	-	-	-
35	-	-	-	-	NSYCAG35LP	-	-	-	-
38	-	-	-	-	-	NSYCAG38LP	-	-	-
33	-	-	-	-	-	-	NSYCAG33LP	-	-
19	-	-	-	-	-	-	-	NSYCAG19LP	-
M12	16 litres/h	ΔP < 1 bar	10	-	-	-	-	-	NSYCAG12LPH1
	120 litres/h	ΔP < 0.1 bar	10	-	-	-	-	-	NSYCAG12LPH2

(1) According to installation in the Thalassa PLM wall-mounting enclosure.

(2) Air flow for ΔP = 0.07 bar.

(3) Condition for IP68.

Thermal management system

Introduction

➤ Choose **air-air exchangers** to take advantage of cooler ambient temperatures, such as food and beverage plants, to evacuate large amounts of heat while guaranteeing the independence of the internal and external air circuits.



Air-air exchangers: a new range energy efficient

PB502596-48



Higher efficiency through improved design

With an updated external grill design, and by positioning cooling closer to critical equipment, such as speed drives, ClimaSys now provides **better flow**, **better cooling**, and **higher energy efficiency**.

PB500011SE



Simplicity saves your time

Our free ProClima thermal calculation software **makes specification simple and fast**. A new thermal solutions module integrates calculation for cooling and control devices, helping you maximize the energy efficiency of your systems.



Faster installation

A number of design improvements reduce installation time. Mounting requires single cut-outs and a minimum of screws. Wiring is accomplished with smart interconnects.



Protection

All side-mounted models are IP55 internally according to IEC 60529.

DB406142



New certifications and declarations

- CE
- EAC

Thermal management system

Characteristics

Air-air exchangers



Characteristics		Side-mounting models			
	The air-air exchanger can be used in heavily polluted environments provided that the ambient temperature is at least 10°C lower than the internal temperature wanted. Main components: thermostat adjustment system, exchange cassette, fans for internal and external circuits of the enclosure.				
Material	Painted zinc-coated steel				
Colour	RAL 7035 grey				
Ingress protection rating (according to IEC 60529)	IP55				
Certifications and declarations	CE, EAC				
Installation	Indoor. For outdoor applications or other cover finitions, please consult us.				
Cooling characteristics					
Specific power	22 W/K	36 W/K	50 W/K	80 W/K	
Air flow of the internal circuit (enclosure)	280 m³/h	570 m³/h	600 m³/h	1050 m³/h	
Air flow of the external circuit (ambient)	280 m³/h	570 m³/h	600 m³/h	1050 m³/h	
Thermostat type	-	Mechanical	Mechanical	Mechanical	
Temperature setting range	-	+5 ... +60°C	+5 ... +60°C	+5 ... +60°C	
Temperature range external circuit (ambient)	-5 ... +55°C	-5 ... +55°C	-5 ... +55°C	-5 ... +55°C	
Type of fluid	Air	Air	Air	Air	
Electric characteristics					
Input voltage	1 x 230 V / 50-60 Hz	1 x 230 V / 50-60 Hz	1 x 230 V / 50-60 Hz	1 x 230 V / 50-60 Hz	
Rated Intensity	0.5 A	0.7 A	0.7 A	1.1 A	
Power consumption absorbed	72 W	160 W	160 W	240 W	
Thermal protection recommended (fuse)	T1 A	T1 A	T1 A	T2 A	
Physical characteristics					
External dimensions (H x W x D)	413 x 189 x 149 mm	771 x 316 x 103 mm	771 x 316 x 103 mm	1260 x 317 x 148 mm	
Protection degree IP internal /external (according to IEC 60529)	IP55 / IP22	IP55 / IP22	IP55 / IP22	IP55 / IP22	
Noise level	59 dB	62 dB	62 dB	64 dB	
Weight of unit	7 kg	10 kg	10 kg	17 kg	
References					
	NSYCEA22E	NSYCEA36	NSYCEA50	NSYCEA80	

Thermal management system Introduction

➤ Choose **air-water exchangers** for especially difficult environments where there is no external air circuit available but a stable cold-water circuit can be supplied.

Air-water exchangers: for highly polluted environments

PB502806-30



Many mounting options give you the right fit

Air-water exchangers offer roof and side mounting options.

PB502806-32



PB503821-31



Extended ratings to meet any challenge

Provide options for up to 15 kW of cooling power, among the world's highest power ratings for air-water exchangers.

PB502855-32



New material options adapt to any application

Air-water exchangers can be provided in the same material as electrical enclosures for (for example stainless steel) a homogeneous appearance and thermal performance.

DB123816-26



Certifications and declarations

- UL
- CE
- EAC

PB502807-13



Protection

All side -mounting models are IP55 type protected internally and externally according to IEC 60529. Top-mounting models are IP54.

Air-water exchangers



Characteristics	Side-mounting models					
	Main components: thermostat adjustment system, Exchange cassette, fans for internal circuits of the enclosure, protection device against possible leaks. Eyebolts included in all models.					
Material	RAL 7035 grey painted zinc-coated steel or stainless steel					
Ingress protection rating (according to IEC 60529)	IP55					
Certifications and declarations	<ul style="list-style-type: none"> ■ CE declaration ■ UL (only references ending with UL) ■ EAC 					
Installation	Indoor. For outdoor applications or other cover finitions, please consult us.					
Cooling characteristics						
Cooling power W10A35	1000 W	1750 W	2500 W	3500 W	4500 W	
Hydraulic circuit maximum pressure	5 bar	5 bar	5 bar	5 bar	5 bar	
Internal airflow	330 m³/h	570 m³/h	860 m³/h	1050 m³/h	1450 m³/h	
Thermostat type	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	
Temperature setting range	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C	
Temperature range external circuit (ambient)	+1 ... +70°C	+1 ... +70°C	+1 ... +70°C	+1 ... +70°C	+1 ... +70°C	
Type of fluid	Filtered water or glycolised water	Filtered water or glycolised water	Filtered water or glycolised water	Filtered water or glycolised water	Filtered water or glycolised water	
Water flow	150 l/h	150 l/h	500 l/h	500 l/h	500 l/h	
Pressure drop	0.1 bar	0.1 bar	0.3 bar	0.2 bar	0.2 bar	
Hydraulic connection	3/8" G	1/2" G	1/2" G	1/2" G	1/2" G	
Electric characteristics						
Input voltage	1 x 230 V / 50-60 Hz*	1 x 230 V / 50-60 Hz*	1 x 230 V / 50-60 Hz*	1 x 230 V / 50-60 Hz*	1 x 230 V / 50-60 Hz*	
Rated Intensity	0.17 A	0.36 A	0.33 A	0.55 A	0.71 A	
Power consumption absorbed W10A35	29 W	75 W	80 W	130 W	160 W	
Thermal protection recommended (fuse)	T2 A	T2 A	T2 A	T2 A	T2 A	
Physical characteristics						
External dimensions (H x W x D)	450 x 310 x 115 mm	901 x 398 x 137 mm	901 x 398 x 137 mm	1148 x 398 x 163 mm	1148 x 398 x 163 mm	
Protection degree IP internal / external (according to IEC 60529)	IP55 / IP55	IP55 / IP55	IP55 / IP55	IP55 / IP55	IP55 / IP55	
Noise level	55 dB (A)	58 dB (A)	58 dB (A)	64 dB (A)	69 dB (A)	
Weight of unit	12 kg	18 kg	19 kg	29 kg	30 kg	
References						
Steel	NSYCEW1K	NSYCEW1K8	NSYCEW2K5	NSYCEW3K5	NSYCEW4K5	
Stainless steel	NSYCEWX1K	NSYCEWX1K8	NSYCEWX2K5	NSYCEWX3K5	NSYCEWX4K5	
Steel UL	NSYCEW1KUL	NSYCEW1K8UL	NSYCEW2K5UL	NSYCEW3K5UL	NSYCEW4K5UL	
Stainless steel UL	NSYCEWX1KUL	NSYCEWX1K8UL	NSYCEWX2K5UL	NSYCEWX3K5UL	NSYCEWX4K5UL	

* 60 Hz only for UL versions.

Thermal management system

Characteristics



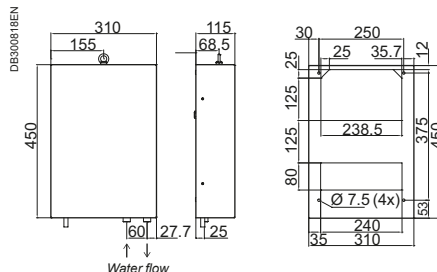
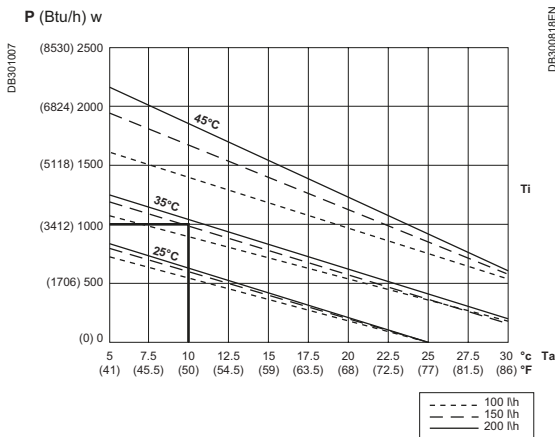
							Top-mounting model
							IP54
6000 W	6000 W	10000 W	10000 W	15000 W	15000 W	2500 W	
5 bar	8 bar	8 bar	8 bar	8 bar	8 bar	5 bar	
1450 m³/h	1450 m³/h	2420 m³/h	2420 m³/h	2900 m³/h	2900 m³/h	750 m³/h	
Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	
+20 ... +46°C	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C	
+1 ... +70°C	+1 ... +70°C	+1 ... +70°C	+1 ... +70°C	+1 ... +70°C	+1 ... +70°C	+1 ... +70°C	
Filtered water or glycolised water	Filtered water or glycolised water	Filtered water or glycolised water	Filtered water or glycolised water	Filtered water or glycolised water	Filtered water or glycolised water	Filtered water or glycolised water	
800 l/h	800 l/h	2000 l/h	2000 l/h	2000 l/h	2000 l/h	500 l/h	
0.5 bar	0.5 bar	3.5 bar	3.5 bar	4.8 bar	4.8 bar	0.3 bar	
1/2" G	1/2" G	3/4" G	3/4" G	3/4" G	3/4" G	1/2" G	
1 x 230 V / 50-60 Hz*	2 x 400-440V / 50-60 Hz	1 x 230 V / 50-60 Hz	2 x 400-440V / 50-60 Hz	1 x 230 V / 50-60 Hz	2 x 400-440V / 50-60 Hz	1 x 230 V / 50-60 Hz	
0.71 A	0.4 A	1.2 A	0.75 A	1.4 A	0.9 A	0.30 A	
160 W	170 W	260 W	280 W	320 W	420 W	65 W	
T2A	T1A	T2A	T2A	T4A	T2A	T2A	
1500 x 450 x 163 mm	1500 x 450 x 163 mm	1932 x 797 x 206 mm	1932 x 797 x 206 mm	1932 x 797 x 206 mm	1932 x 797 x 206 mm	270 x 400 x 542 mm	
IP55 / IP55	IP55 / IP55	IP55 / IP55	IP55 / IP55	IP55 / IP55	IP55 / IP55	IP54 / IP55	
69 dB (A)	69 dB (A)	70 dB (A)	70 dB (A)	72 dB (A)	70 dB (A)	58 dB (A)	
40 kg	42 kg	90 kg	90 kg	92 kg	92 kg	19 kg	
NSYCEW6K	NSYCEW6K2P4	NSYCEW10K	NSYCEW10K2P4	NSYCEW15K	NSYCEW15K2P4	NSYCEW2K5R	
NSYCEWX6K	NSYCEWX6K2P4	NSYCEWX10K	NSYCEWX10K2P4	NSYCEWX15K	NSYCEWX15K2P4	-	
NSYCEW6KUL	-	-	-	-	-	-	
NSYCEWX6KUL	-	-	-	-	-	-	

Air-water exchangers

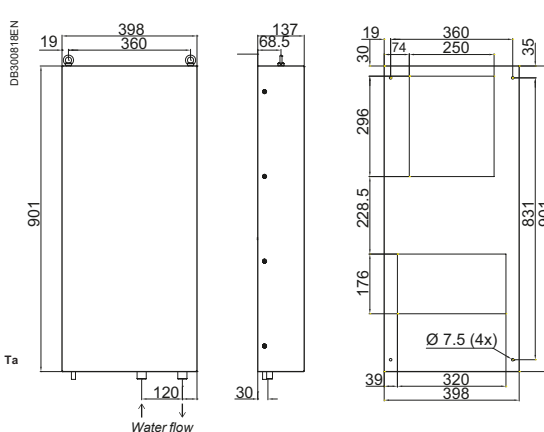
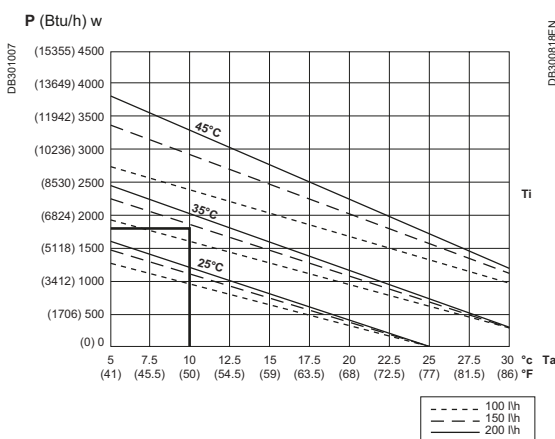
Side-mounting models

NSYCEW••1K••

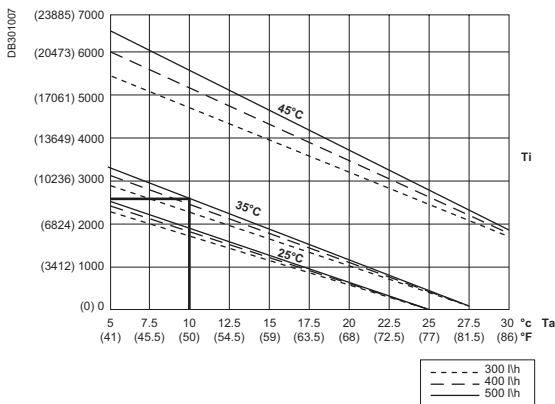
Performance curves



Performance curves



Performance curves



P = Cooling power
 Ta = Inlet water temperature
 Ti = Desired internal temperature of the enclosure

Units of measurement are mm.

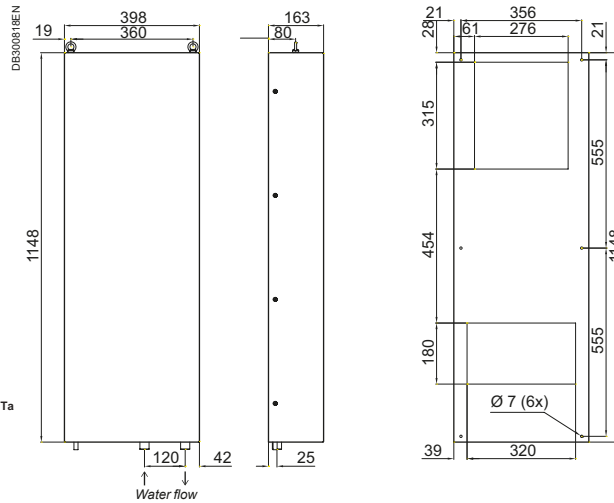
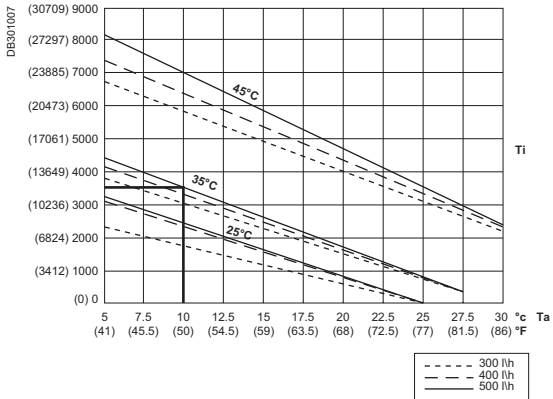
Thermal management system

Dimensions

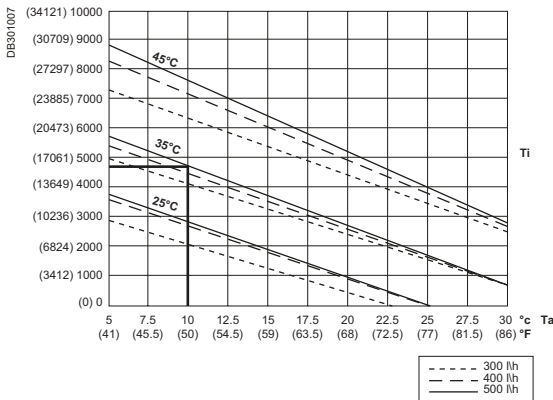
NSYCEW•3K5• – NSYCEW•4K5•

Performance curves

P (Btu/h) w



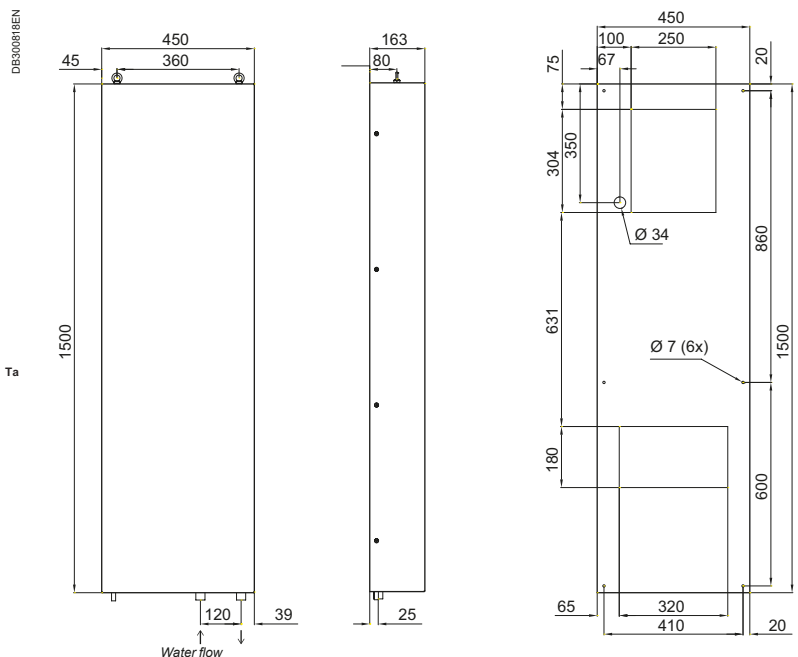
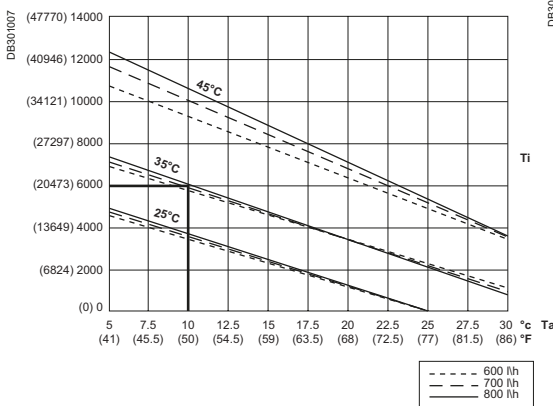
P (Btu/h) w



NSYCEW•6K•

Performance curves

P (Btu/h) w



P = Cooling power
 Ta = Inlet water temperature
 Ti = Desired internal temperature of the enclosure

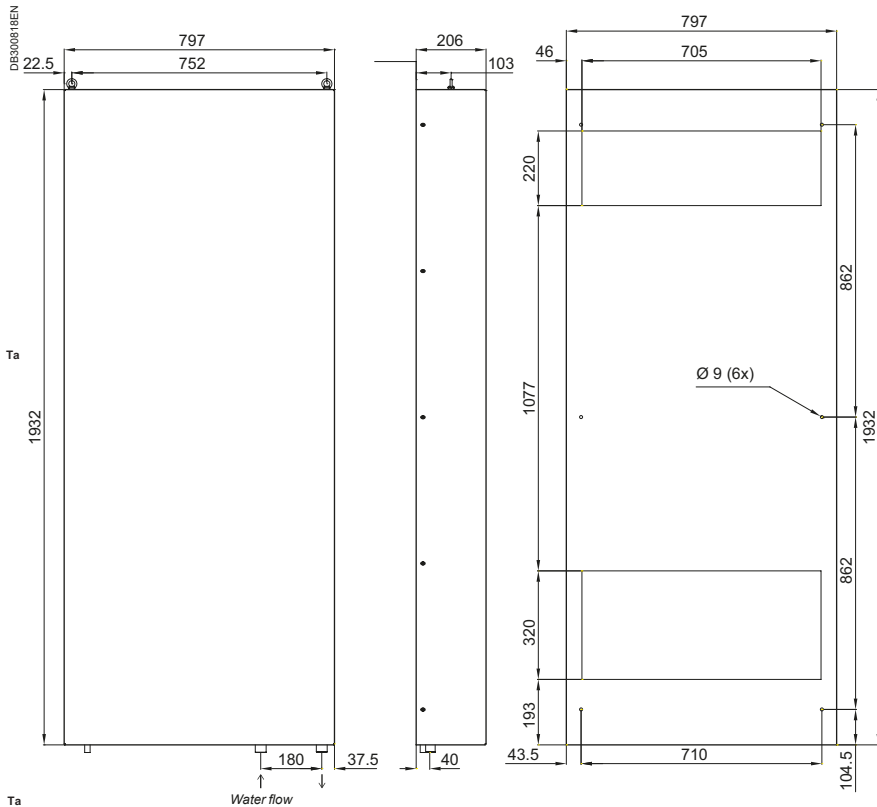
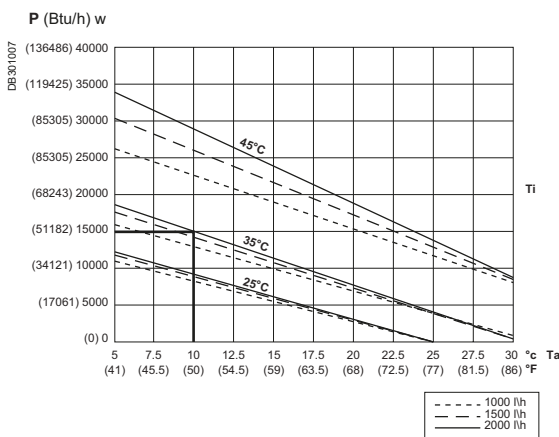
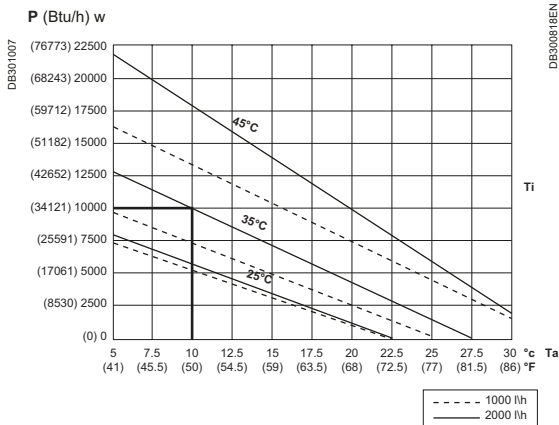
Units of measurement are mm.

Thermal management system

Dimensions

NSYCEW••10K•• – NSYCEW••15K••

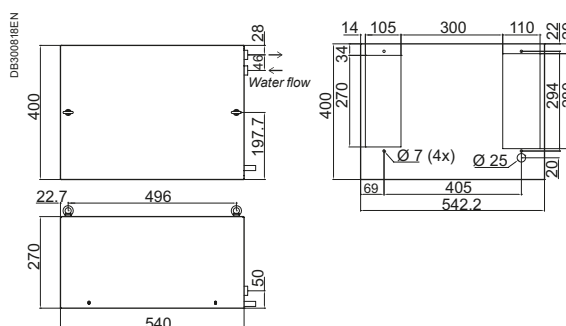
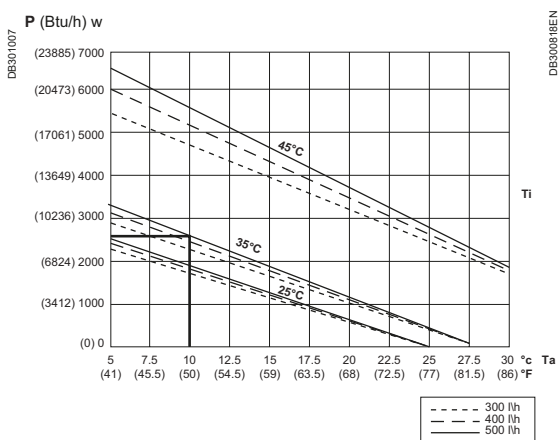
Performance curves



Top-mounting models

NSYCEW2K5R

Performance curves



P = Cooling power
 Ta = Inlet water temperature
 Ti = Desired internal temperature of the enclosure

Units of measurement are mm.

Thermal management system

Accessories



Characteristics	Air-air and air-water exchangers				Retrofit panel	
	CE		UL / CE			
	Steel	Stainless steel	Steel	Stainless steel		
					Panel that enable to mount a new ClimaSys CE units by replacement of old Schneider Electric cooling systems.	
Material					Metal painted	
Colour					RAL 7035 grey	
Supply					1 unit	
References					Retrofit panel	Old Schneider Electric cooling system
Air - air exchangers						
Side-mounting models	NSYCEA36	-	-	-	NSYCEARTFIT36	NSYCEA35W230VL NSYCEA35W230VLE
	NSYCEA50	-	-	-	-	-
	NSYCEA80	-	-	-	NSYCEARTFIT80	NSYCEA70W230VL
Air-water exchangers						
Side-mounting models	NSYCEW1K	NSYCEWX1K	NSYCEW1KUL	NSYCEWX1KUL	-	-
	NSYCEW1K8	NSYCEWX1K8	NSYCEW1K8UL	NSYCEWX1K8UL	-	-
	NSYCEW2K5	NSYCEWX2K5	NSYCEW2K5UL	NSYCEWX2K5UL	NSYCEWRTFIT2K5	NSYCEW2100W230VL
	NSYCEW3K5	NSYCEWX3K5	NSYCEW3K5UL	NSYCEWX3K5UL	NSYCEWRTFIT3K5	NSYCEW3150W230VL
	NSYCEW4K5	NSYCEWX4K5	NSYCEW4K5UL	NSYCEWX4K5UL	-	-
	NSYCEW6K	NSYCEWX6K	NSYCEW6KUL	NSYCEWX6KUL	-	-
	NSYCEW6K2P4	NSYCEWX6K2P4	-	-	-	-
	NSYCEW10K	NSYCEWX10K	-	-	-	-
	NSYCEW10K2P4	NSYCEWX10K2P4	-	-	-	-
	NSYCEW15K	NSYCEWX15K	-	-	-	-
	NSYCEW15K2P4	NSYCEWX15K2P4	-	-	-	-
Top-mounting model	NSYCEW2K5R	-	-	-	-	-



Thermal management system

Introduction

> Choose **cooling units** for harsh environments, where **ambient temperatures can reach up to 55°C**. The unit's integrated alarm system will signal you in the event of any operational anomaly.

Cooling units: For a high ambient temperature

PB502831



Several mounting solutions

Three models: roof model, floor model, side model. There is also a SLIM model which permits a space saving and perfect integration on the doors of control panels.



Large range of power levels

Provide options for up to 15 kW of cooling power.

PB502661-33



Enhanced protection

An internal grid of a new design protects the components and personnel during operation of the equipment while at the same time **facilitating cleaning and maintenance**.

PB502613



Speed of access to information

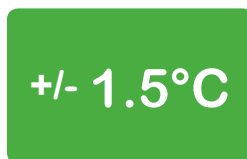
The new screen offers fast access to the configuration parameters and information from the sensors located in the enclosure (does not apply to heavy-duty outdoor enclosures).

PB502654-12



New materials

Stainless steel and painted galvanized steel for the outside dedicated to clean, hygienic environments such as food and beverage production plants.



Precision of temperature control

All ClimaSys cooling units are provided with a precise **electronic control system by thermostat** which gives them high cooling precision (+/- 1.5°C).



Broad temperature range for outdoor enclosures

The outdoor version can withstand extreme environments, with an **operating temperature range** of -20°C to +55°C.

DB 123816-26



Certifications and declarations

- UL
- CE
- EAC

PB502660-32



Simplicity

No tools needed to replace the filter. It just takes a few seconds.



PB502625-27

PB502632-20

PB502626-20

PB502623-14

Thermal management system

Characteristics

Cooling units



Characteristics	Side-mounting models			
	<ul style="list-style-type: none"> ■ Respect for the environment by using environmentally friendly gas R134a (HFC). ■ Electronic thermostats in all models. ■ Alarm signal for door contact included in all models. ■ Eyebolts included. ■ The external filter, not included as standard, is strongly recommended for harsh environments. ■ Digital screen. ■ Evaporation condensation water unit integrated from 800 W to 15 kW. 			
Material	RAL 7035 grey painted zinc-coated steel or stainless steel			
Certifications and declarations	<ul style="list-style-type: none"> ■ CE declaration ■ UL (only references ending with UL) ■ EAC 			
Installation	Indoor			
Cooling characteristics				
Cooling power L35-L35 according to EN 14511	300 W (1024 Btu/h)	380 W (1297 Btu/h)	640 W (2184 Btu/h)	820 W (2798 Btu/h)
Cooling power L35-L50 according to EN 14511	150 W (512 Btu/h)	240 W (819 Btu/h)	470 W (1604 Btu/h)	680 W (2320 Btu/h)
Air flow of the internal circuit (enclosure)	280 m³/h	280 m³/h	330 m³/h	330 m³/h
Air flow of the external circuit (ambient)	280 m³/h	280 m³/h	570 m³/h	570 m³/h
Thermostat type	Electronic	Electronic	Electronic	Electronic
Temperature range internal circuit (enclosure)	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C
Maximum outside temperature	+55°C	+55°C (+50°C)*	+55°C (+50°C)*	+55°C (+50°C)*
Temperature range external circuit (ambient)	+5 ... +55°C*	+5 ... +55°C* (+5 ... +50°C)*	+5 ... +55°C* (+5 ... +50°C)*	+5 ... +55°C* (+5 ... +50°C)*
Type of cooling gas	R134a	R134a	R134a	R134a
Cooling gas weight	0.13 kg	0.16 kg	0.23 kg	0.23 kg
Maximum pressure cooling circuit	25 bar	26 bar (28 bar)**	25 bar (28 bar)**	25 bar (28 bar)**
External filter	Optional, see page 563	Optional, see page 563	Optional, see page 563	Optional, see page 563
Electric characteristics				
Input voltage	1 x 230 V / 50-60 Hz	1 x 230 V / 50-60 Hz**	1 x 230 V / 50-60 Hz**	1 x 230 V / 50-60 Hz**
Starting / Rated Intensity	4.2 A / 1.5 A	6.0 A / 1.6 A	8.1 A / 2.1 A	10.8 A / 2.6 A
Power consumption absorbed L35-L35 according to EN 14511	270 W	280 W	400 W	440 W
Power consumption absorbed L35-L50 according to EN 14511	310 W	330 W	470 W	490 W
Energy efficiency ratio (EER) L35-L35	1.1	1.4	1.6	1.9
Thermal protection recommended (fuse)	T4 A	T4 A	T6 A	T6 A
Physical characteristics				
External dimensions (H x W x D)	340 x 525 x 135 mm	460 x 285 x 180 mm	606 x 316 x 212 mm	783 x 348 x 215 mm
Protection degree IP internal /external according to IEC 60529	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34
Noise level	61 dB	60 dB	65 dB	65 dB
Weight of unit	17 kg	17 kg	21 kg	27 kg
References				
Steel	NSYCU300H	NSYCU400	NSYCU600	NSYCU800
Stainless steel	-	NSYCUX400	NSYCUX600	NSYCUX800
Steel UL	-	NSYCU400UL	NSYCU600UL	NSYCU800UL
Stainless steel UL	-	-	NSYCUX600UL	NSYCUX800UL

* 50°C at 60 Hz.

** Certification UL only 60 Hz.

Thermal management system

Characteristics



1000 W (3412 Btu/h)	1000 W (3412 Btu/h)	1250 W (4265 Btu/h)	1250 W (4265 Btu/h)	1600 W (5459 Btu/h)	1600 W (5459 Btu/h)	2000 W (6824 Btu/h)
790 W (2696 Btu/h)	790 W (2696 Btu/h)	910 W (3105 Btu/h)	910 W (3105 Btu/h)	1230 W (4197 Btu/h)	1230 W (4197 Btu/h)	1510 W (5152 Btu/h)
330 m³/h	330 m³/h	570 m³/h	570 m³/h	570 m³/h	570 m³/h	860 m³/h
570 m³/h	570 m³/h	860 m³/h	860 m³/h	1050 m³/h	1050 m³/h	1050 m³/h
Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
+20 ... +46°C	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C
+55°C (+50°C)*	+55°C (+50°C)*	+55°C (+50°C)*	+55°C	+55°C (+50°C)*	+50°C*	+55°C (+50°C)*
+5 ... +55°C* (+5 ... +50°C)*	+5 ... +50°C (+5 ... +50°C)*	+5 ... +55°C* (+5 ... +50°C)*	+5 ... +50°C	+5 ... +55°C* (+5 ... +50°C)*	+5 ... +50°C	+5 ... +55°C* (+5 ... +50°C)*
R134a	R134a	R134a	R134a	R134a	R134a	R134a
0.23 kg	0.23 kg	0.38 kg	0.38 kg	0.45 kg	0.45 kg	0.54 kg
25 bar (28 bar)**	25 bar (28 bar)**	25 bar (28 bar)**	25 bar	25 bar (28 bar)**	25 bar (28 bar)**	25 bar (28 bar)**
Optional, see page 563	Optional, see page 563	Optional, see page 563	Optional, see page 563	Optional, see page 563	Optional, see page 563	Optional, see page 563
1 x 230 V / 50-60 Hz**	2 x 400-440 V / 50-60 Hz 2 x 400-460 V / 50-60 Hz**	1 x 230 V / 50-60 Hz**	2 x 400-440 V / 50-60 Hz	1 x 230 V / 50-60 Hz**	2 x 400-440 V / 50-60 Hz 2 x 460 V / 60 Hz**	1 x 230 V / 50-60 Hz**
10.5 A / 3 A	8 A / 2 A	11 A / 3.8 A	8.5 A / 2.8 A	18 A / 5.4 A	11 A / 2.9 A	24 A / 6.5 A
570 W	590 W	650 W	650 W	850 W	840 W	1080 W
650 W	670 W	760 W	770 W	970 W	960 W	1290 W
1.8	1.7	1.9	1.9	1.9	1.9	1.9
T6 A	T4 A	T6 A	T4 A	T10 A	T6 A	T10 A
783 x 348 x 215 mm	783 x 348 x 215 (+58) mm	999 x 405 x 237 mm	999 x 405 x 237 mm	999 x 405 x 237 mm	999 x 405 x 237 mm	999 x 405 x 237 mm
IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34
65 dB	65 dB	65 dB	65 dB	65 dB	65 dB	65 dB
28 kg	29 kg	38 kg	40 kg	40 kg	42 kg	52 kg
NSYCU1K	NSYCU1K2P4	NSYCU1K2	NSYCU1K22P4	NSYCU1K6	NSYCU1K62P4	NSYCU2K
NSYCUX1K	NSYCUX1K2P4	NSYCUX1K2	NSYCUX1K22P4	NSYCUX1K6	NSYCUX1K62P4	NSYCUX2K
NSYCU1KUL	NSYCU1K2P4UL	NSYCU1K2UL	-	NSYCU1K6UL	NSYCU1K62P4UL	NSYCU2KUL
NSYCUX1KUL	NSYCUX1K2P4UL	NSYCUX1K2UL	-	NSYCUX1K6UL	NSYCUX1K62P4UL	NSYCUX2KUL

Thermal management system

Characteristics

Cooling units



Characteristics	Side-mounting models			Floor-standing models
	<ul style="list-style-type: none"> ■ Alarm signal for door contact included in all models. ■ Eyebolts included. ■ The external filter, not included as standard, is strongly recommended for harsh environments. 			
Material	RAL 7035 grey painted zinc-coated steel or stainless steel			
Certifications and declarations	<ul style="list-style-type: none"> ■ CE declaration ■ UL (only references ending with UL) ■ EAC 			
Installation	Indoor			Indoor
Cooling characteristics				
Cooling power L35-L35 according to EN 14511	2000 W (6824 Btu/h)	2900 W (9895 Btu/h)	3850 W (13137 Btu/h)	5800 W (19790 Btu/h)
Cooling power L35-L50 according to EN 14511	1510 W (5152 Btu/h)	2250 W (7677 Btu/h)	2870 W (9793 Btu/h)	4350 W (14843 Btu/h)
Air flow of the internal circuit (enclosure)	860 m³/h	1450 m³/h	1450 m³/h	1450 m³/h
Air flow of the external circuit (ambient)	1050 m³/h	1450 m³/h	1450 m³/h	2900 m³/h
Thermostat type	Electronic	Electronic	Electronic	Electronic
Temperature range internal circuit (enclosure)	+20 ... +46°C (+45°C)*	+20 ... +46°C (+45°C)*	+20 ... +46°C (+45°C)*	+20 ... +46°C
Maximum outside temperature	+50°C (+45°C)	+50°C (+45°C)	+50°C (+45°C)	+50°C
Temperature range external circuit (ambient)	+5 ... +50°C (+5 ... +45°C)*	+5 ... +50°C (+5 ... +45°C)*	+5 ... +50°C (+5 ... +45°C)*	+10 ... +50°C
Type of cooling gas	R134a	R134a	R134a	R407c
Cooling gas weight	0.59 kg	0.84 kg	1.14 kg	1.8 kg
Maximum pressure cooling circuit	25 bar (28 bar)*	25 bar (28 bar)*	25 bar (28 bar)*	27 bar
External filter	Optional, see page 563	Optional, see page 563	Optional, see page 563	Polyurethane filter standard
Electric characteristics				
Input voltage	3 x 400 V / 50-60 Hz 3 x 460 V / 60 Hz*	3 x 400 V / 50-60 Hz 3 x 460 V / 60 Hz*	3 x 400 V / 50-60 Hz 3 x 460 V / 60 Hz*	3 x 400 V / 50 Hz
Starting / Rated Intensity	10 A / 2.5 A	14 A / 2.6 A	18 A / 3.6 A	21.7 A / 5.9 A
Power consumption absorbed L35-L35 according to EN 14511	970 W	1220 W	1780 W	2340 W
Power consumption absorbed L35-L50 according to EN 14511	1150 W	1440 W	2050 W	3880 W
Energy efficiency ratio (EER) L35-L35	2.1	2.4	2.2	2.5
Thermal protection recommended (fuse)	T6 A	T6 A	T8 A	T8 A
Physical characteristics				
External dimensions (H x W x D)	999 x 405 x 237 mm	1270 x 500 x 336 mm	1270 x 500 x 336 mm	2000 x 600 x 380 mm
Protection degree IP internal /external according to IEC 60529	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP54 / IP34
Noise level	65 dB	70 dB	70 dB	72 dB
Weight of unit	54 kg	84 kg	85 kg	150 kg
References				
Steel	NSYCU2K3P4	NSYCU3K3P4	NSYCU4K3P4	NSYCU6K3P4
Stainless steel	NSYCU2K3P4	NSYCU3K3P4	NSYCU4K3P4	-
Steel UL	NSYCU2K3P4UL	NSYCU3K3P4UL	NSYCU4K3P4UL	-
Stainless steel UL	NSYCU2K3P4UL	NSYCU3K3P4UL	NSYCU4K3P4UL	-

* Certification UL only 60 Hz.

Thermal management system

Characteristics



Indoor

6050 W (20643 Btu/h)	7600 W (25932 Btu/h)	7950 W (27126 Btu/h)	9400 W (32074 Btu/h)	9850 W (33610 Btu/h)	14800 W (50500 Btu/h)	15150 W (51694 Btu/h)
4350 W (14843 Btu/h)	5700 W (19449 Btu/h)	5930 W (20234 Btu/h)	7000 W (23885 Btu/h)	7350 W (25079 Btu/h)	11300 W (38557 Btu/h)	11600 W (39581 Btu/h)
1450 m³/h	2900 m³/h	2900 m³/h	2900 m³/h	2900 m³/h	4300 m³/h	4300 m³/h
2900 m³/h	2900 m³/h	2900 m³/h	2900 m³/h	2900 m³/h	5800 m³/h	5800 m³/h
Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
+20 ... +46°C	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C
+50°C	+50°C	+50°C	+50°C	+50°C	+55°C	+55°C
+10 ... +50°C	+10 ... +50°C	+10 ... +50°C	+10 ... +45°C	+10 ... +45°C	+10 ... +50°C	+10 ... +50°C
R407c	R134a	R134a	R134a	R134a	R410a	R410a
1.8 kg	2.8 kg	2.8 kg	2.3 kg	2.3 kg	3.5 kg	3.5 kg
27 bar	27 bar	27 bar	27 bar	27 bar	39 bar	39 bar
Polyurethane filter standard	Polyurethane filter standard	Polyurethane filter standard	Polyurethane filter standard	Polyurethane filter standard	Polyurethane filter standard	Polyurethane filter standard
3 x 460 V / 60 Hz	3 x 400 V / 50 Hz	3 x 460 V / 60 Hz	3 x 400 V / 50 Hz	3 x 460 V / 60 Hz	3 x 400 V / 50 Hz	3 x 460 V / 60 Hz
23.5 A / 6.8 A	43.8 A / 7.2 A	44.5 A / 7.9 A	30.7 A / 9.1 A	32.5 A / 10.3 A	49 A / 11 A	51 A / 11.8 A
2920 W	3530 W	4210 W	3850 W	4380 W	5750 W	6580 W
4520 W	4270 W	5340 W	5400 W	6340 W	6900 W	7760 W
2.1	2.2	1.9	2.4	2.2	2.6	2.3
T8 A	T10 A	T10 A	T18 A	T18 A	T20 A	T20 A
2000 x 600 x 380 mm	2000 x 800 x 380 mm	2000 x 800 x 380 mm	2000 x 800 x 380 mm	2000 x 800 x 380 mm	2000 x 800 x 550 mm	2000 x 800 x 550 mm
IP54 / IP34	IP54 / IP34	IP54 / IP34	IP54 / IP34	IP54 / IP34	IP54 / IP34	IP54 / IP34
72 dB	72 dB	72 dB	77 dB	77 dB	67 dB	67 dB
150 kg	160 kg	160 kg	180 kg	180 kg	240 kg	240 kg
NSYCU6K3P460	NSYCU8K3P4	NSYCU8K3P460	NSYCU10K3P4	NSYCU10K3P460	NSYCU15K3P4	NSYCU15K3P460
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-

Thermal management system

Characteristics

Cooling units



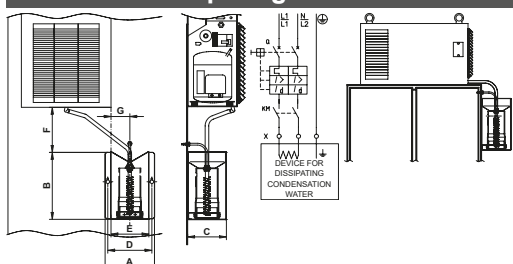
Characteristics	Roof-mounting models		
	<ul style="list-style-type: none"> Respect for the environment by using environmentally friendly gas R134a (HFC). Integrated water condensation exit system. Alarm signal for door contact included in all models. Eyebolts included. The external filter, not included as standard, is strongly recommended for harsh environments. 		
Material	RAL 7035 grey painted zinc-coated steel or stainless steel.		
Certifications and declarations	<ul style="list-style-type: none"> CE declaration UL (only references ending with UL) EAC 		
Installation	Indoor		
Cooling characteristics			
Cooling power L35-L35 according to EN 14511	410 W (1399 Btu/h)	820 W (2798 Btu/h)	1150 W (3924 Btu/h)
Cooling power L35-L50 according to EN 14511	240 W (819 Btu/h)	680 W (2320 Btu/h)	900 W (3071 Btu/h)
Air flow of the internal circuit (enclosure)	235 m ³ /h	570 m ³ /h	570 m ³ /h
Air flow of the external circuit (ambient)	330 m ³ /h	860 m ³ /h	1010 m ³ /h
Thermostat type	Electronic	Electronic	Electronic
Temperature range internal circuit (enclosure)	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C
Maximum outside temperature	+55°C (+50°C)*	+55°C (+50°C)*	+55°C (+50°C)*
Temperature range external circuit (ambient)	+5 ... +55°C* (+5 ... +50°C)*	+5 ... +55°C* (+5 ... +50°C)*	+5 ... +55°C* (+5 ... +50°C)*
Type of cooling gas	R134a	R134a	R134a
Cooling gas weight	0.17 kg	0.31 kg	0.63 kg
Maximum pressure cooling circuit	28 bar	25 bar (28 bar)**	25 bar (28 bar)**
External filter	Optional, see page 563	Optional, see page 563	Optional, see page 563
Electric characteristics			
Input voltage	1 x 230 V / 50-60 Hz**	1 x 230 V / 50-60 Hz**	1 x 230 V / 50-60 Hz**
Starting / Rated Intensity	4 A / 1.5 A	12 A / 2.9 A	11 A / 3.2 A
Power consumption absorbed L35-L35 according to EN 14511	230 W	510 W	550 W
Power consumption absorbed L35-L50 according to EN 14511	290 W	560 W	660 W
Energy efficiency ratio (EER) L35-L35	1.8	1.6	2.1
Thermal protection recommended (fuse)	T4 A	T6 A	T6 A
Physical characteristics			
External dimensions (H x W x D)	264 x 486 x 259 mm	340 x 600 x 340 mm	415 x 567 x 401 mm
Protection degree IP internal /external according to IEC 60529	IP54 / IP34	IP54 / IP34	IP54 / IP34
Noise level	65 dB	65 dB	65 dB
Weight of unit	18 kg	23 kg	40 kg
References			
Steel	NSYCU400R	NSYCU800R	NSYCU1K2R
Stainless steel	NSYCUX400R	NSYCUX800R	NSYCUX1K2R
Steel UL	NSYCU400RUL	NSYCU800RUL	NSYCU1K2RUL

* 50°C at 60 Hz.

** Certification UL only 60 Hz.

*** For cooling units greater than 65 kg we recommend to place universal cross rails NSYSUCR4060 or NSYSUCR4080.

Device for dissipating condensation water (external installation)



- Device allowing the evacuation of condensation water from the internal battery (evaporator).
- Supplied with stainless-steel support.
- Power supply:

Operating voltage $\pm 10\%$

Voltage	Starting current	Thermal protection recommended	Evaporation capacity	Resistance type
230 V~	2.9 A	T 3 A	200 cl/h	PTC
115 V~	5.8 A	T 6 A		

Heat sink
NSYCUAD

Thermal management system

Characteristics

PB502611-26



PB502612-35



1550 W (5289 Btu/h)	2050 W (6995 Btu/h)	2050 W (6995 Btu/h)	2900 W (9895 Btu/h)	3850 W (13137 Btu/h)
1200 W (4095 Btu/h)	1560 W (5323 Btu/h)	1560 W (5323 Btu/h)	2250 W (7677 Btu/h)	2870 W (9793 Btu/h)
860 m³/h	1050 m³/h	1050 m³/h	860 m³/h	1450 m³/h
1820 m³/h	1820 m³/h	1820 m³/h	3410 m³/h	3410 m³/h
Electronic	Electronic	Electronic	Electronic	Electronic
+20 ... +46°C	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C
+55°C	+55°C (+50°C)**	+50°C (+45°C)**	+50°C (+45°C)**	+50°C (+45°C)**
+5 ... +55°C* (+5 ... +50°C)*	+5 ... +55°C*	+5 ... +50°C (+5 ... +45°C)**	+5 ... +50°C (+5 ... +45°C)**	+5 ... +50°C (+5 ... +45°C)**
R134a	R134a	R134a	R134a	R134a
0.54 kg	0.55 kg	0.55 kg	1.20 kg	1.60 kg
25 bar (28 bar)**	25 bar	25 bar (28 bar)**	25 bar (28 bar)**	25 bar (28 bar)**
Optional, see page 563	Optional, see page 563	Optional, see page 563	Optional, see page 563	Optional, see page 563
1 x 230 V / 50-60 Hz**	1 x 230 V / 50-60 Hz	3 x 400 V / 50-60 Hz 3 x 460 V / 60 Hz*	3 x 400 V / 50-60 Hz 3 x 460 V / 60 Hz*	3 x 400 V / 50-60 Hz 3 x 460 V / 60 Hz*
18 A / 4.5 A	24 A / 6 A	10 A / 1.9 A	15.7 A / 2.5 A	17 A / 3.6 A
810 W	1150 W	990 W	1210 W	1790 W
930 W	1250 W	1190 W	1450 W	2010 W
1.9	1.8	2.1	2.4	2.2
T10 A	T10 A	T6 A	T6 A	T6 A
415 x 567 x 401 mm	415 x 567 x 401 mm	415 x 567 x 401 mm	496 x 797 x 492 mm	496 x 797 x 492 mm
IP54 / IP34	IP54 / IP34	IP54 / IP34	IP54 / IP34	IP54 / IP34
65 dB	65 dB	65 dB	75 dB	75 dB
44 kg	50 kg	52 kg	83 kg***	86 kg***
NSYCU1K5R	NSYCU2KR	NSYCU2K3P4R	NSYCU3K3P4R	NSYCU4K3P4R
NSYCU1K5R	NSYCU2KR	NSYCU2K3P4R	NSYCU3K3P4R	NSYCU4K3P4R
NSYCU1K5RUL	-	NSYCU2K3P4RUL	NSYCU3K3P4RUL	NSYCU4K3P4RUL

Thermal management system

Characteristics

Outdoor Heavy Duty cooling units



Characteristics	Side-mounting models		
	<ul style="list-style-type: none"> ■ Respect for the environment by using environmentally friendly gas R134a (HFC). ■ Mechanical thermostats in all models. ■ Eyebolts included. ■ The external filter, not included as standard. The metallic filter is strongly recommended. ■ Metallic canopy as standard. ■ Anti-corrosive protection (class C3H). ■ Inside components, including the condenser, coated with anti-corrosive protection. 		
Material	RAL 7035 grey painted zinc-coated steel		
Certifications and declarations	<ul style="list-style-type: none"> ■ CE declaration ■ EAC 		
Installation	Indoor or outdoor		
Cooling characteristics			
Cooling power L35-L35 according to EN 14511	380 W (1297 Btu/h)	640 W (2184 Btu/h)	820 W (2798 Btu/h)
Cooling power L35-L50 according to EN 14511	240 W (819 Btu/h)	470 W (1604 Btu/h)	680 W (2320 Btu/h)
Air flow of the internal circuit (enclosure)	280 m³/h	330 m³/h	330 m³/h
Air flow of the external circuit (ambient)	280 m³/h	570 m³/h	570 m³/h
Thermostat type	Mechanic	Mechanic	Mechanic
Temperature range internal circuit (enclosure)	+20 ... +50°C	+20 ... +50°C	+20 ... +50°C
Maximum outside temperature	+55°C	+55°C	+55°C
Temperature range external circuit (ambient)	-20 ... +55°C	-20 ... +55°C	-20 ... +55°C
Type of cooling gas	R134a	R134a	R134a
Cooling gas weight	0.16 kg	0.26 kg	0.28 kg
Maximum pressure cooling circuit	26 bar	25 bar	25 bar
External filter	Optional, see metallic filter on page 563	Optional, see metallic filter on page 563	Optional, see metallic filter on page 563
Electric characteristics			
Input voltage	1 x 230 V / 50-60 Hz	1 x 230 V / 50-60 Hz	1 x 230 V / 50-60 Hz
Starting / Rated Intensity	6.0 A / 1.6 A	8.1 A / 2.1 A	10.8 A / 2.6 A
Power consumption absorbed L35-L35 according to EN 14511	280 W	400 W	440 W
Power consumption absorbed L35-L50 according to EN 14511	330 W	470 W	490 W
Energy efficiency ratio (EER) L35-L35	1.4	1.6	1.9
Thermal protection recommended (fuse)	T4 A	T6 A	T6 A
Physical characteristics			
External dimensions (H x W x D)	573 x 300 x 205 mm	718 x 331 x 235 mm	875 x 363 x 239 mm
Protection degree IP internal /external according to IEC 60529	IP55 / IP34	IP55 / IP34	IP55 / IP34
Noise level	60 dB	65 dB	65 dB
Weight of unit	17 kg	21 kg	27 kg
References	NSYCUHD400	NSYCUHD600	NSYCUHD800

Thermal management system

Characteristics

PB50280-17



PB50287-19



	1000 W (3412 Btu/h)	1000 W (3412 Btu/h)	1600 W (5459 Btu/h)	1600 W (5459 Btu/h)	2000 W (6824 Btu/h)	2900 W (9895 Btu/h)	3850 W (13137 Btu/h)
	790 W (2696 Btu/h)	790 W (2696 Btu/h)	1230 W (4197 Btu/h)	1230 W (4197 Btu/h)	1510 W (5152 Btu/h)	2250 W (7677 Btu/h)	2870 W (9793 Btu/h)
	330 m³/h	330 m³/h	570 m³/h	570 m³/h	860 m³/h	1450 m³/h	1450 m³/h
	570 m³/h	570 m³/h	1050 m³/h	1050 m³/h	1050 m³/h	1450 m³/h	1450 m³/h
	Mechanic	Mechanic	Mechanic	Mechanic	Mechanic	Mechanic	Mechanic
	+20 ... +50°C	+20 ... +50°C	+20 ... +50°C	+20 ... +50°C	+20 ... +50°C	+20 ... +50°C	+20 ... +50°C
	+55°C	+55°C	+55°C	+55°C	+55°C	+55°C	+55°C
	-20 ... +55°C	-20 ... +50°C	-20 ... +55°C	-20 ... +50°C	-20 ... +55°C	-20 ... +50°C	-20 ... +50°C
	R134a	R134a	R134a	R134a	R134a	R134a	R134a
	0.27 kg	0.27 kg	0.46 kg	0.46 kg	0.65 kg	0.84 kg	1.14 kg
	25 bar	25 bar	25 bar	25 bar	25 bar	25 bar	25 bar
	Optional, see metallic filter on page 563	Optional, see metallic filter on page 563	Optional, see metallic filter on page 563	Optional, see metallic filter on page 563	Optional, see metallic filter on page 563	Optional, see metallic filter on page 563	Optional, see metallic filter on page 563
	1 x 230 V / 50-60 Hz	2 x 400-440V / 50-60 Hz	1 x 230 V / 50-60 Hz	2 x 400-440V / 50-60 Hz	3 x 400 V / 50-60 Hz	3 x 400 V / 50-60 Hz	3 x 400 V / 50-60 Hz
	10.5 A / 3 A	8 A / 2 A	18 A / 5.3 A	11 A / 2.9 A	10 A / 2.5 A	14 A / 2.6 A	18 A / 3.6 A
	570 W	590 W	820 W	840 W	970 W	1220 W	1780 W
	650 W	670 W	940 W	960 W	1150 W	1440 W	2050 W
	1.8	1.7	2.0	1.9	2.1	2.4	2.2
	T6 A	T4 A	T10 A	T6 A	T6 A	T6 A	T8 A
	895 x 363 x 239 mm	895 x 363 x 239 (+58) mm	1009 x 415 x 261 mm	1009 x 415 x 261 mm	1009 x 415 x 261 mm	1416 x 512 x 365 mm	1416 x 512 x 365 mm
	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34
	65 dB	65 dB	65 dB	65 dB	65 dB	70 dB	70 dB
	28 kg	29 kg	40 kg	42 kg	54 kg	84 kg	85 kg
	NSYCUHD1K	NSYCUHD1K2P4	NSYCUHD1K6	NSYCUHD1K62P4	NSYCUHD2K3P4	NSYCUHD3K3P4	NSYCUHD4K3P4

Thermal management system

Characteristics

Slim cooling units



Characteristics	Side-mounting models			
	<ul style="list-style-type: none"> ■ Respect for the environment by using environmentally friendly gas R134a (HFC). ■ Electronical thermostat included. ■ 3 mounting positions (surface, half-flush and flush). ■ Alarm Signal for contact door. ■ Eyebolts included. 			
Material	RAL 7035 grey painted zinc-coated steel or stainless steel			
Certifications and declarations	<ul style="list-style-type: none"> ■ CE declaration ■ UL ■ EAC 			
Installation	<ul style="list-style-type: none"> ■ Indoor ■ There is one unique cut-out for all mounting positions and all slim models 			
Cooling characteristics				
Cooling power L35-L35 according to EN 14511	1100 W (3753 Btu/h)	1100 W (3753 Btu/h)	1500 W (5118 Btu/h)	1500 W (5118 Btu/h)
Cooling power L35-L50 according to EN 14511	860 W (2934 Btu/h)	860 W (2934 Btu/h)	1150 W (3924 Btu/h)	1150 W (3924 Btu/h)
Air flow of the internal circuit (enclosure)	860 m ³ /h	860 m ³ /h	860 m ³ /h	860 m ³ /h
Air flow of the external circuit (ambient)	860 m ³ /h	860 m ³ /h	860 m ³ /h	860 m ³ /h
Thermostat type	Electronic	Electronic	Electronic	Electronic
Temperature range internal circuit (enclosure)	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C
Maximum outside temperature	+50°C	+50°C	+50°C	+50°C
Temperature range external circuit (ambient)	+5 ... +50°C	+5 ... +50°C	+5 ... +50°C	+5 ... +50°C
Type of cooling gas	R134a	R134a	R134a	R134a
Cooling gas weight	0.5 kg	0.5 kg	0.46 kg	0.46 kg
Maximum pressure cooling circuit	28 bar	28 bar	28 bar	28 bar
External circuit filter	Optional, see page 563	Optional, see page 563	Optional, see page 563	Optional, see page 563
Electric characteristics				
Input voltage	1 x 230 V / 50-60 Hz*	2 x 400-460 V / 50-60 Hz*	1 x 230 V / 50-60 Hz*	2 x 400-460 V / 50-60 Hz*
Starting / Rated Intensity	11 A / 4.8 A	8.5 A / 2.7 A	18 A / 5.7 A	11 A / 3.2 A
Power consumption absorbed L35-L35 according to EN 14511	660 W	660 W	840 W	840 W
Power consumption absorbed L35-L50 according to EN 14511	790 W	790 W	970 W	970 W
Energy efficiency ratio (EER) L35-L35	1.7	1.7	1.8	1.8
Thermal protection recommended (fuse)	T6 A	T4 A	T10 A	T6 A
Physical characteristics				
External dimensions (H x W x D)	1696 x 495 x 195 mm	1696 x 495 x 195 mm	1696 x 495 x 195 mm	1696 x 495 x 195 mm
Protection degree IP internal /external according to IEC 60529	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34
Noise level	64 dB	64 dB	66 dB	66 dB
Weight of unit	50 kg	52 kg	55 kg	57 kg
References				
Steel UL	NSYCUS1K1UL	NSYCUS1K12P4UL	NSYCUS1K5UL	NSYCUS1K52P4UL
Stainless steel UL	NSYCUSX1K1UL	NSYCUSX1K12P4UL	NSYCUSX1K5UL	NSYCUSX1K52P4UL

* Certification UL only 60 Hz.

Thermal management system

Characteristics



PB002632-17

	2000 W (6824 Btu/h)	2000 W (6824 Btu/h)	2500 W (8530 Btu/h)	2500 W (8530 Btu/h)	3200 W (10919 Btu/h)	3200 W (10919 Btu/h)
	1550 W (5289 Btu/h)	1550 W (5289 Btu/h)	1850 W (6312 Btu/h)	1850 W (6312 Btu/h)	2500 W (8530 Btu/h)	2500 W (8530 Btu/h)
	860 m³/h	860 m³/h	1450 m³/h	1450 m³/h	1450 m³/h	1450 m³/h
	1050 m³/h	1050 m³/h	1450 m³/h	1450 m³/h	1450 m³/h	1450 m³/h
	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C	+20 ... +46°C
	+50°C	+50°C	+50°C	+50°C	+50°C	+50°C
	+5 ... +50°C	+5 ... +50°C	+5 ... +50°C	+5 ... +50°C	+5 ... +50°C	+5 ... +50°C
	R134a	R134a	R134a	R134a	R134a	R134a
	0.51 kg	0.59 kg	1.2 kg	1.2 kg	0.85 kg	1.25 kg
	28 bar	28 bar	28 bar	28 bar	28 bar	28 bar
	Optional, see page 563	Optional, see page 563	Optional, see page 563	Optional, see page 563	Optional, see page 563	Optional, see page 563
	1 x 230 V / 60 Hz	3 x 400 V / 50-60 Hz (3 x 460 V / 60 Hz)*	1 x 230 V / 60 Hz	3 x 400 V / 50-60 Hz (3 x 460 V / 60 Hz)*	1 x 230 V / 60 Hz	3 x 400 V / 50-60 Hz (3 x 460 V / 60 Hz)*
	24 A / 6.5 A	10 A / 2.1 A	35 A / 10.5 A	14 A / 2.9 A	37 A / 10.5 A	18 A / 3.1 A
	1020 W	1060 W	1340 W	1270 W	1720 W	1650 W
	1160 W	1270 W	1580 W	1510 W	2000 W	1980 W
	2.0	1.9	1.9	2.0	1.9	1.9
	T10 A	T6 A	T16 A	T6 A	T16 A	T6 A
	1696 x 495 x 195 mm	1696 x 495 x 195 mm	1696 x 495 x 235 mm	1696 x 495 x 235 mm	1696 x 495 x 235 mm	1696 x 495 x 235 mm
	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34
	67 dB	67 dB	69 dB	69 dB	69 dB	69 dB
	63 kg	65 kg	80 kg	82 kg	81 kg	83 kg
	NSYCUS2KUL	NSYCUS2K3P4UL	NSYCUS2K5UL	NSYCUS2K53P4UL	NSYCUS3K2UL	NSYCUS3K23P4UL
	NSYCUSX2KUL	NSYCUSX2K3P4UL	NSYCUSX2K5UL	NSYCUSX2K53P4UL	NSYCUSX3K2UL	NSYCUSX3K23P4UL

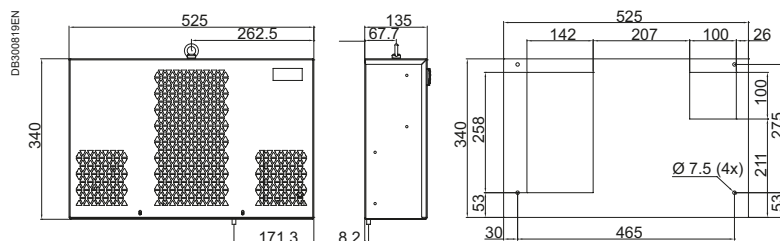
Thermal management system

Dimensions

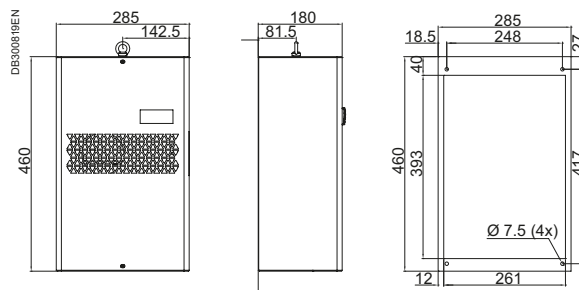
Cooling units

Side-mounting models: dimensions and cut-outs

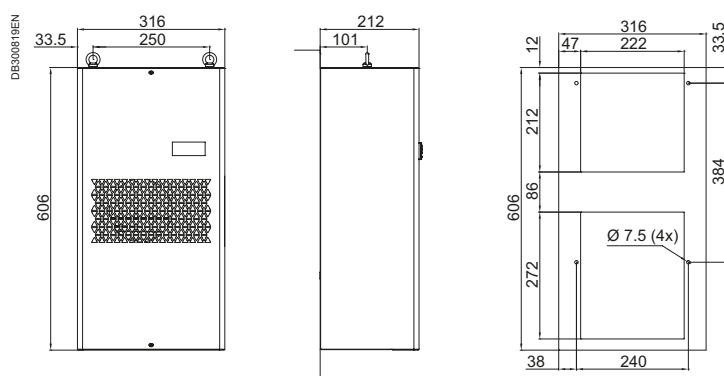
NSYCU300H



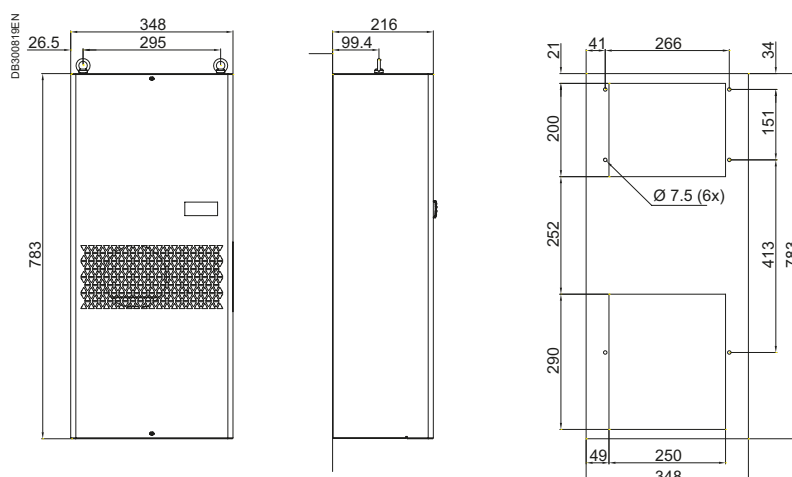
NSYCU•400•



NSYCU•600•



NSYCU•800• - NSYCU•1K•

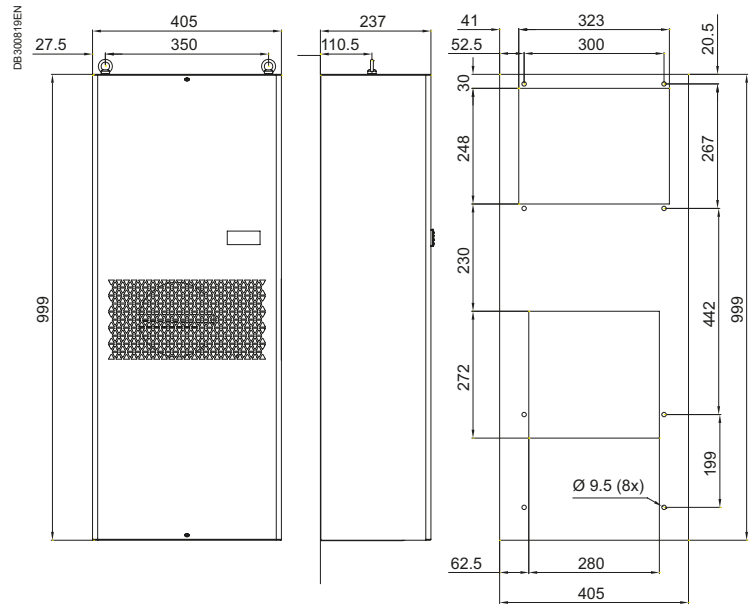


Units of measurement are mm.

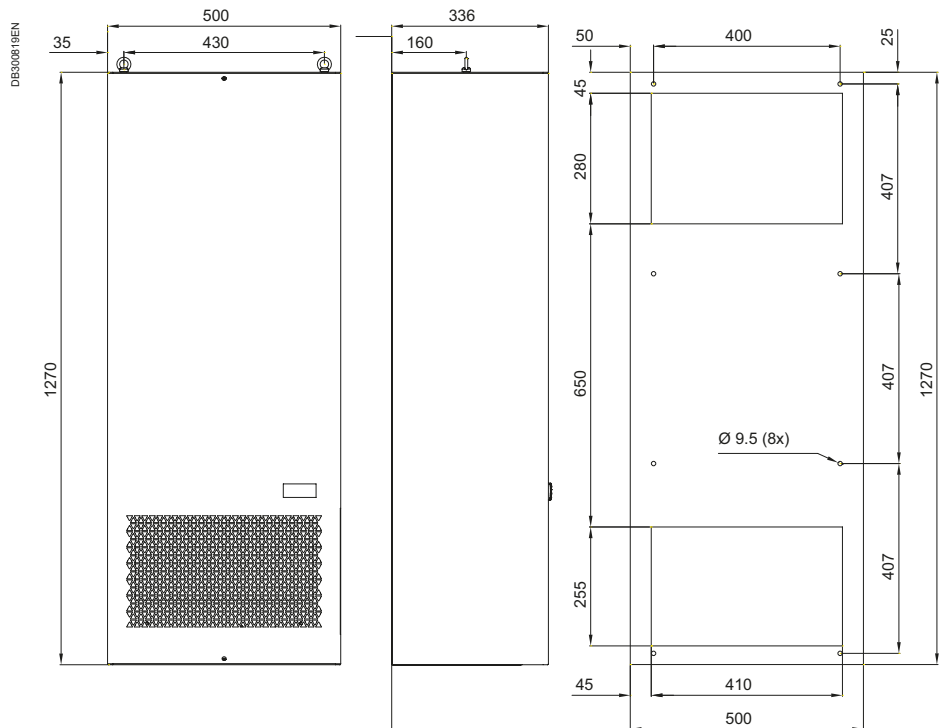
Thermal management system

Dimensions

NSYCU••1K2•• - NSYCU••1K6•• - NSYCU••2K••



NSYCU••3K3P4•• - NSYCU••4K3P4••



Units of measurement are mm.

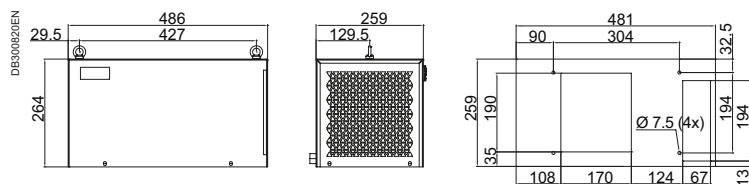
Thermal management system

Dimensions

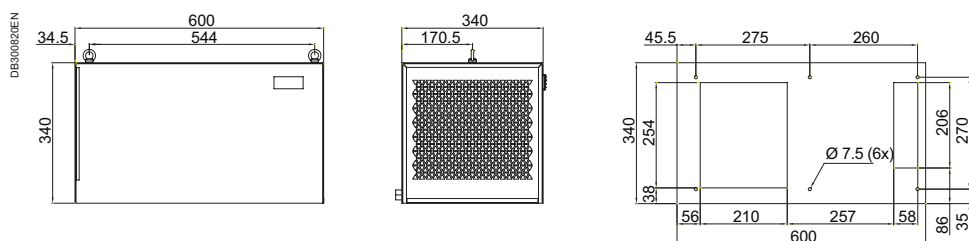
Cooling units

Top-mounting models: dimensions and cut-outs

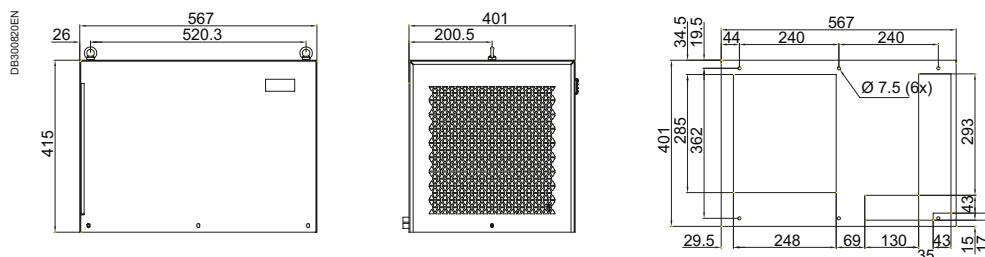
NSYCU•400R••



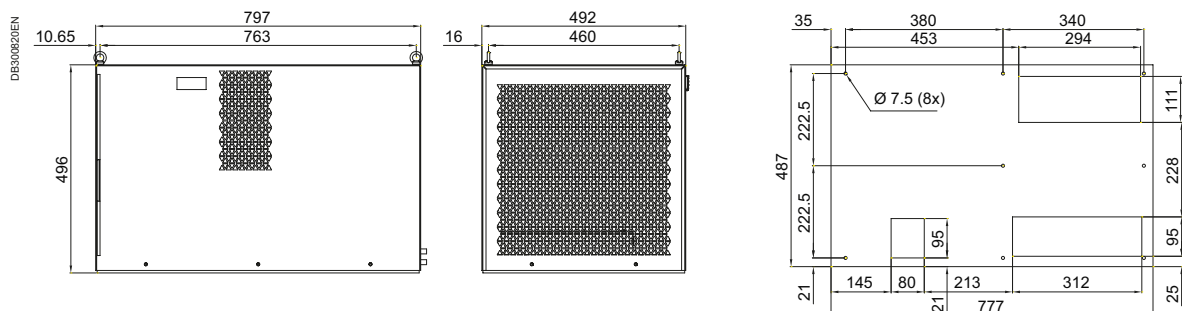
NSYCU•800R••



NSYCU•1K2R•• - NSYCU•1K5R•• - NSYCU•2K••R••



NSYCU•3K3P4R•• - NSYCU•4K3P4R••



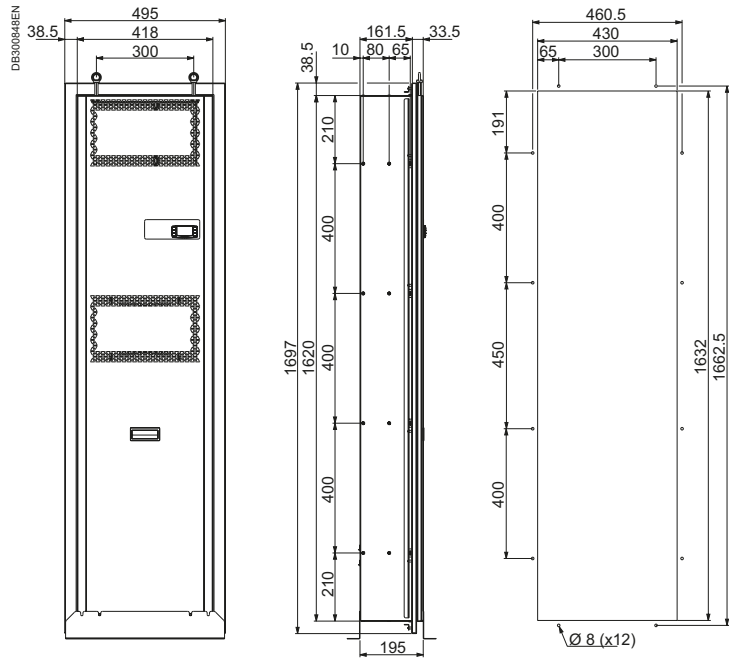
Units of measurement are mm.

Thermal management system

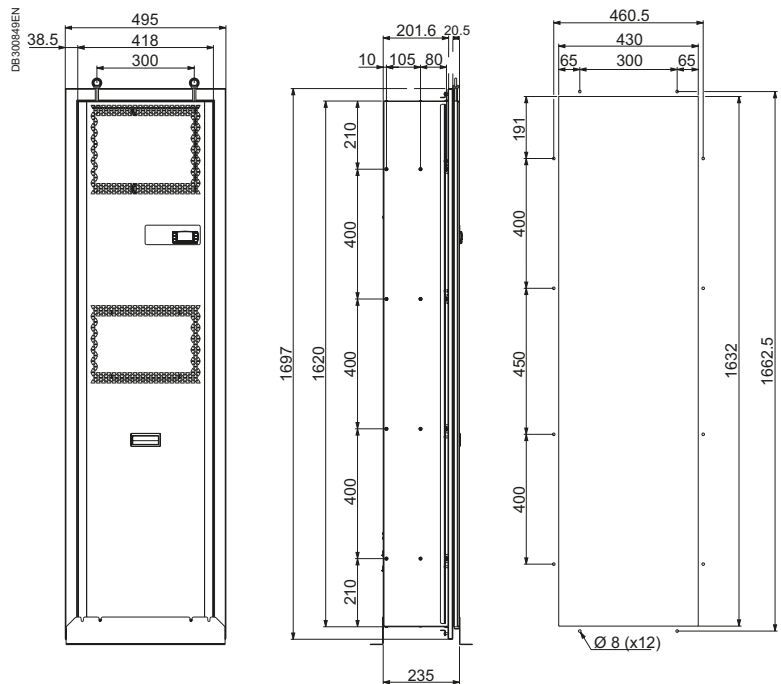
Dimensions

Slim cooling units

NSYCUS•1K1• - NSYCUS•1K5• - NSYCUS•2K•



NSYCUS•2K5• - NSYCUS•3K2•



Units of measurement are mm.

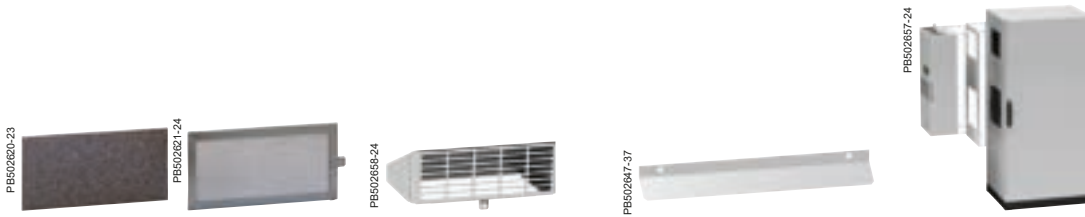
Thermal management system

Accessories



Characteristics	Cooling units				
	IEC			UL	
	Steel	Stainless steel	Outdoor	Steel	Stainless steel
Material					
Colour					
Installation					
Supply					
References					
Cooling units					
Side-mounting models	NSYCU300H	-	-	-	-
	NSYCU400	NSYCUX400	NSYCUHD400	NSYCU400UL	-
	NSYCU600	NSYCUX600	NSYCUHD600	NSYCU600UL	NSYCUX600UL
	NSYCU800	NSYCUX800	NSYCUHD800	NSYCU800UL	NSYCUX800UL
	NSYCU1K	NSYCUX1K	NSYCUHD1K	NSYCU1KUL	NSYCUX1KUL
	NSYCU1K2P4	NSYCUX1K2P4	NSYCUHD1K2P4	NSYCU1K2P4UL	NSYCUX1K2P4UL
	NSYCU1K2	NSYCUX1K2	-	NSYCU1K2UL	NSYCUX1K2UL
	NSYCU1K22P4	NSYCUX1K22P4	-	-	-
	NSYCU1K6	NSYCUX1K6	NSYCUHD1K6	NSYCU1K6UL	NSYCUX1K6UL
	NSYCU1K62P4	NSYCUX1K62P4	NSYCUHD1K62P4	NSYCU1K62P4UL	NSYCUX1K62P4UL
	NSYCU2K	NSYCUX2K	-	NSYCU2KUL	NSYCUX2KUL
	NSYCU2K3P4	NSYCUX2K3P4	NSYCUHD2K3P4	NSYCU2K3P4UL	NSYCUX2K3P4UL
	NSYCU3K3P4	NSYCUX3K3P4	NSYCUHD3K3P4	NSYCU3K3P4UL	NSYCUX3K3P4UL
	NSYCU4K3P4	NSYCUX4K3P4	NSYCUHD4K3P4	NSYCU4K3P4UL	NSYCUX4K3P4UL
Floor-standing models	NSYCU6K3P4	-	-	-	-
	NSYCU6K3P460	-	-	-	-
	NSYCU8K3P4	-	-	-	-
	NSYCU8K3P460	-	-	-	-
	NSYCU10K3P4	-	-	-	-
	NSYCU10K3P460	-	-	-	-
	NSYCU15K3P4	-	-	-	-
	NSYCU15K3P460	-	-	-	-
Roof-mounting model	NSYCU400R	NSYCUX400R	-	NSYCU400RUL	-
	NSYCU800R	NSYCUX800R	-	NSYCU800RUL	-
	NSYCU1K2R	NSYCUX1K2R	-	NSYCU1K2RUL	-
	NSYCU1K5R	NSYCUX1K5R	-	NSYCU1K5RUL	-
	NSYCU2K3P4R	NSYCUX2K3P4R	-	NSYCU2K3P4RUL	-
	NSYCU2KR	NSYCUX2KR	-	-	-
	NSYCU3K3P4R	NSYCUX3K3P4R	-	NSYCU3K3P4RUL	-
	NSYCU4K3P4R	NSYCUX4K3P4R	-	NSYCU4K3P4RUL	-
Slim model	-	-	-	NSYCUS1K1UL	NSYCUSX1K1UL
	-	-	-	NSYCUS1K12P4UL	NSYCUSX1K12P4UL
	-	-	-	NSYCUS1K5UL	NSYCUSX1K5UL
	-	-	-	NSYCUS1K52P4UL	NSYCUSX1K52P4UL
	-	-	-	NSYCUS2KUL	NSYCUSX2KUL
	-	-	-	NSYCUS2K3P4UL	NSYCUSX2K3P4UL
	-	-	-	NSYCUS2K5UL	NSYCUSX2K5UL
	-	-	-	NSYCUS2K53P4UL	NSYCUSX2K53P4UL
	-	-	-	NSYCUS3K2UL	NSYCUSX3K2UL
	-	-	-	NSYCUS3K23P4UL	NSYCUSX3K23P4UL

Thermal management system Accessories



Filters		Canopy for ClimaSys CU		Internal deflector	Retrofit panel				
Plastic filter not recommended for outdoor models.		Metalic filter recommended for outdoor models.		This canopy is highly recommended for harsh indoor environments to protect from ingress of dust.		Deflects the air inside the enclosure.		Panel that enable to mount a new ClimaSys CU units by replacement of old Schneider Electric cooling systems.	
Polyurethane		Micro-stretched aluminium		Painted zinc coated		Zinc coated		Metal painted	
Black		-		RAL 7035 grey		RAL 7035 grey		RAL 7035 grey	
Indoor		Indoor or outdoor		Indoor		Indoor or outdoor		Indoor	
5 units		1 unit		1 unit		1 unit with fixing elements		1 unit	
								Old Schneider Electric cooling system	
-	-	-	-	-	-	-	-	-	-
NSYCUF400	NSYCUFX400	NSYCUCN400HD	NSYCU400	NSYCURFT400	NSYCU240W230VL	NSYCU370W230VL	-	-	-
NSYCUF600	NSYCUFX600	NSYCUCN600HD	NSYCU600	-	-	-	-	-	-
NSYCUF800T1K	NSYCUFX800T1K	NSYCUCN800T1KHD	NSYCU800T1K	NSYCURFT800T1K	NSYCU760W230VL	NSYCU760W230VL	NSYCURFT800T1K	NSYCU760W230VL	NSYCU760W230VL
NSYCUF800T1K	NSYCUFX800T1K	NSYCUCN800T1KHD	NSYCU800T1K	NSYCURFT800T1K	NSYCU1100W230L	NSYCU1100W230L	NSYCURFT800T1K	NSYCU1100W230L	NSYCU1100W230L
NSYCUF800T1K	NSYCUFX800T1K	NSYCUCN800T1KHD	NSYCU1K2T2K	NSYCURFT800T1K	NSYCU1K	NSYCU1K	NSYCURFT800T1K	NSYCU1K	NSYCU1K
NSYCUF1KT2K	NSYCUFX1K2T2K	NSYCUCN1K2T2KHD	NSYCU1K2T2K	-	-	-	-	-	-
NSYCUF1KT2K	NSYCUFX1K2T2K	NSYCUCN1K2T2KHD	NSYCU1K2T2K	-	-	-	-	-	-
NSYCUF1KT2K	NSYCUFX1K2T2K	NSYCUCN1K2T2KHD	NSYCU1K2T2K	NSYCURFT1K6T2K	NSYCUE1400W230L	NSYCU1650W230VL	NSYCURFT1K6T2K	NSYCUE1400W230L	NSYCU1650W230VL
NSYCUF1KT2K	NSYCUFX1K2T2K	NSYCUCN1K2T2KHD	NSYCU1K2T2K	NSYCURFT1K6T2K	NSYCUE1400W400L	NSYCU1650W230VL	NSYCURFT1K6T2K	NSYCUE1400W400L	NSYCU1650W230VL
NSYCUF1KT2K	NSYCUFX1K2T2K	NSYCUCN1K2T2KHD	NSYCU1K2T2K	-	-	-	-	-	-
NSYCUF1KT2K	NSYCUFX1K2T2K	NSYCUCN1K2T2KHD	NSYCU1K2T2K	NSYCURFT1K6T2K	NSYCUE1800W400VL	NSYCU1800W400VL	NSYCURFT1K6T2K	NSYCUE1800W400L	NSYCU1800W400VL
NSYCUF3KT4K	NSYCUFX3KT4K	NSYCUCN3KT4KHD	NSYCU3KT4K	NSYCURFT3KT4K	NSYCU2500W400VL	NSYCU2500W400VL	NSYCURFT3KT4K	NSYCU2500W400VL	NSYCU2500W400VL
NSYCUF3KT4K	NSYCUFX3KT4K	NSYCUCN3KT4KHD	NSYCU3KT4K	NSYCURFT3KT4K	NSYCU4000W400VL	NSYCU4000W400VL	NSYCURFT3KT4K	NSYCU4000W400VL	NSYCU4000W400VL
NSYCUF6K	NSYCUFX6K	-	-	-	-	-	-	-	-
NSYCUF6K	NSYCUFX6K	-	-	-	-	-	-	-	-
NSYCUF8KT10K	NSYCUFX8KT10K	-	-	-	-	-	-	-	-
NSYCUF8KT10K	NSYCUFX8KT10K	-	-	-	-	-	-	-	-
NSYCUF8KT10K	NSYCUFX8KT10K	-	-	-	-	-	-	-	-
NSYCUF8KT10K	NSYCUFX8KT10K	-	-	-	-	-	-	-	-
NSYCUF15K	NSYCUFX15K	-	-	-	-	-	-	-	-
NSYCUF15K	NSYCUFX15K	-	-	-	-	-	-	-	-
NSYCUF400R	NSYCUFX400R	-	-	-	-	-	-	-	-
NSYCUF800R	NSYCUFX800R	-	-	-	-	-	NSYCURFT800R	NSYCU760W230VR	NSYCU760W230VR
NSYCUF1K2T2KR	NSYCUFX1K2T2KR	-	-	-	-	-	NSYCURFT1K2T2K	NSYCU1050W230VR	NSYCU1050W230VR
NSYCUF1K2T2KR	NSYCUFX1K2T2KR	-	-	-	-	-	NSYCURFT1K2T2K	NSYCU1400W230R	NSYCU1400W230R
NSYCUF1K2T2KR	NSYCUFX1K2T2KR	-	-	-	-	-	NSYCURFT1K2T2K	NSYCU1460W230VR	NSYCU1460W230VR
NSYCUF1K2T2KR	NSYCUFX1K2T2KR	-	-	-	-	-	NSYCURFT1K2T2K	NSYCU1650W230VR	NSYCU1650W230VR
NSYCUF1K2T2KR	NSYCUFX1K2T2KR	-	-	-	-	-	NSYCURFT1K2T2K	NSYCUE1800W400R	NSYCU1800W400R
NSYCUF1K2T2KR	NSYCUFX1K2T2KR	-	-	-	-	-	NSYCURFT1K2T2K	NSYCU2000W400VR	NSYCU2000W400VR
NSYCUF3KT4KR	NSYCUFX3KT4KR	-	-	-	-	-	NSYCURFT3K	NSYCU2450W400VR	NSYCU2450W400VR
NSYCUF3KT4KR	NSYCUFX3KT4KR	-	-	-	-	-	NSYCURFT3K	NSYCU3100W400VR	NSYCU3100W400VR
NSYCUF1K1T2KS	NSYCUFX1K1T2KS	-	NSYCU1K1T1K5	-	-	-	-	NSYCU1100W230S	NSYCU1100W230S
NSYCUF1K1T2KS	NSYCUFX1K1T2KS	-	NSYCU1K1T1K5	-	-	-	-	NSYCU1100W400S	NSYCU1100W400S
NSYCUF1K1T2KS	NSYCUFX1K1T2KS	-	NSYCU1K1T1K5	-	-	-	-	NSYCU1500W230S	NSYCU1500W230S
NSYCUF1K1T2KS	NSYCUFX1K1T2KS	-	NSYCU1K1T1K5	-	-	-	-	NSYCU1500W400S	NSYCU1500W400S
NSYCUF1K1T2KS	NSYCUFX1K1T2KS	-	NSYCU1K1T1K5	-	-	-	-	NSYCU2200W230S	NSYCU2200W230S
NSYCUF1K1T2KS	NSYCUFX1K1T2KS	-	NSYCU1K1T1K5	-	-	-	-	NSYCU2200W400S	NSYCU2200W400S
NSYCUF1K1T2KS	NSYCUFX1K1T2KS	-	NSYCU1K1T1K5	-	-	-	-	NSYCU2700W230S	NSYCU2700W230S
NSYCUF1K1T2KS	NSYCUFX1K1T2KS	-	NSYCU1K1T1K5	-	-	-	-	NSYCU2700W400S	NSYCU2700W400S
NSYCUF1K1T2KS	NSYCUFX1K1T2KS	-	NSYCU1K1T1K5	-	-	-	-	NSYCU2700W230S	NSYCU2700W230S
NSYCUF1K1T2KS	NSYCUFX1K1T2KS	-	NSYCU1K1T1K5	-	-	-	-	NSYCU2700W400S	NSYCU2700W400S

Thermal management system

Introduction

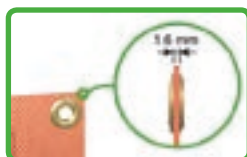
➤ Ultra thin resistance heaters have been designed to resolve condensation problems in the most complex installations. Is your enclosure short of space? Does your mounting plate make it impossible to install a conventional heater? Do you not want to take out the equipment? Discover the benefits of this new offer and its numerous mounting solutions.

PB502042-40



Ultra thin resistance heaters

PB502437-32



Small size (thickness = 1.6 mm)

The space saving available for the equipment compared with a conventional resistor can be up to 30%.



Heat and safety

The heat is distributed over the whole surface and does not exceed 70°C. This temperature allows devices next to the heater to be handled safely.

PB502046-22



Multiple options for fixing

Innovative quick-fixing system using Velcro pads (no need for a tool!) or with basic fixing accessories (screw + spacer). These systems make it easy to move the heater if necessary.

PB502522-16



Numerous positions for installation

These heaters are so slim and flexible they can be installed in a variety of positions:

- Vertically on side panels
- On the mounting plate.



Energy efficiency

Ultra thin resistance heaters are ohmic: they therefore have a low starting current.

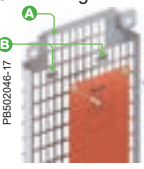
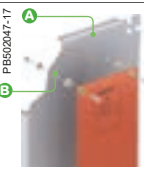
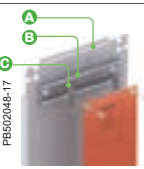
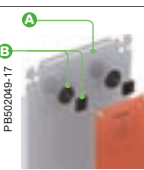
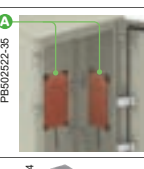


No interference emissions

These resistors can be installed near electronic equipment to guarantee optimum heat.

Thermal management system

Characteristics and selection guide

Ultra thin resistance heaters	
Description	Flexible, ultra thin resistance heaters to be installed inside the enclosure
Material	Silicon reinforced with fibreglass
Colour	Red (heaters), black (wires)
Certifications	VDE, LR
Installation	<p>5 mounting solutions :</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">  <p>PB502046-17</p> </div> <div style="width: 45%;"> <p>1 - On a Telequick mounting plate A: Telequick mounting plate, ref. NSYMR●●●● B: Telequick nuts, ref. AF1EA●, supplied with the mounting kit</p> </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">  <p>PB502047-17</p> </div> <div style="width: 45%;"> <p>2 - On plain or micro-perforated mounting plate with fixing hardware A: Mounting plate, ref. NSYMM●●●● B: Fixing hardware included in the mounting kit</p> </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">  <p>PB502048-17</p> </div> <div style="width: 45%;"> <p>3 - On DIN rail A: Mounting plate, ref. NSYMM●●●● B: Symmetrical DIN rail, ref. NSYSDR●●●● C: Clip-on nuts, ref. AF1CG●, supplied with the mounting kit</p> </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">  <p>PB502049-17</p> </div> <div style="width: 45%;"> <p>4 - On plain mounting plate with selfadhesive Velcro pads A: Mounting plate, ref. NSYMM●●●● B: Self-adhesive Velcro pad and plastic fixings supplied with the mounting kit</p> </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">  <p>PB502052-35</p> </div> <div style="width: 45%;"> <p>5 - On wall with self-adhesive Velcro pads A: Self-adhesive Velcro pads and plastic fixings supplied in the mounting kit</p> </div> </div>

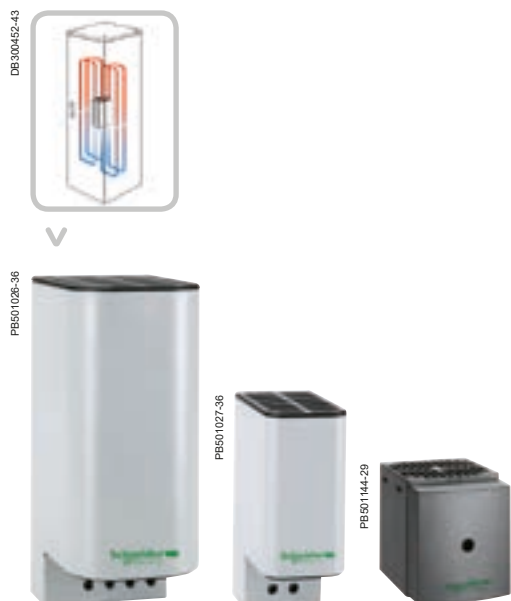
Ultra thin resistance heaters*						
Power (W)	Voltage (V)	Inrush current (A)	Height (mm)	Width (mm)	Depth (mm)	References
10	120	0.08	110	140	1.6	NSYCRS10W120V
	240	0.04	110	140	1.6	NSYCRS10W240V
25	120	0.21	110	230	1.6	NSYCRS25W120V
	240	0.10	110	230	2.6	NSYCRS25W240V
50	120	0.42	200	320	1.6	NSYCRS50W120V
	240	0.21	200	320	2.6	NSYCRS50W240V
100	120	0.83	260	440	1.6	NSYCRS100W120V
	240	0.42	260	440	1.6	NSYCRS100W240V
200	120	1.67	380	650	1.6	NSYCRS200W120V
	240	0.83	380	650	1.6	NSYCRS200W240V

* Ultra thin resistance heaters can be manufactured with different dimensions and power ratings than those indicated above. Please contact us.

Thermal management system

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.



Insulated PTC heaters

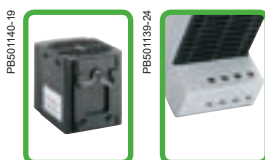


Large range of power levels

- 2 versions: by natural convection and with fan.
- AC or DC power supply.
- 7 power levels, from 10 W to 550 W.



Innovating design



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.

Thermal management system

Introduction

PB501146-67



Aluminium PTC heaters

PB501146-28



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.

PB501147-111



Quick fixing

The resistance heaters are fixed by means of fixing clips to a 35 mm DIN rail.

PB501146-21



Connection cables

The 10 and 20 W heaters are equipped with a 2 x 0.75 x 300 mm power cord.

PB501149-28



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.

PB501025-28



Models with fan

Models of 250 to 400 W with fan.

Thermal management system

Characteristics

Insulated PTC resistance heaters

Characteristics

Material

Conditions of use

Ingress protection rating (according to IEC 60529)

Certifications

Heating power at 0°C	Voltage	Surface temperature	Electric connection	Mounting
10 W	12-24 V DC	<70°C, except for the top protection grille	2 poles, 2.5 mm ²	Quick by clip on a 35-mm DIN rail
10 W	110-250 V AC			
20 W	12-24 V DC			
20 W	110-250 V AC			
55 W	12-24 V DC	<70°C, except for the top protection grille	4 poles, 2.5 mm ²	By clip on a 35-mm DIN rail
55 W	110-250 V AC			
55 W	270-420 V AC			
100 W	12-24 V DC			
100 W	110-250 V AC			
100 W	270-420 V AC			
147 W	12-24 V DC			
147 W	110-250 V AC			
177 W	230 V AC / 50-60 HZ	Max. 50°C in the enclosure, 100°C on the top protection grille, (for an ambient temperature of 20°C / 68°F)	2 poles, 2.5 mm ²	By clip on a 35-mm DIN rail

Thermal management system

Characteristics



Insulated PTC heater

- Compact resistance heater preventing the formation of condensation or frost.
- Designed to ensure good natural convection and high thermal efficiency.

Extruded aluminium body

- The heaters must be installed with a thermal controller (see selection table on pages 572 and 573) 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
- **Operating position:** vertical
- **Operating temperature:** -40...+70°C; -10...+158°F

IP20

VDE and NSYCR***U2C models UL certified

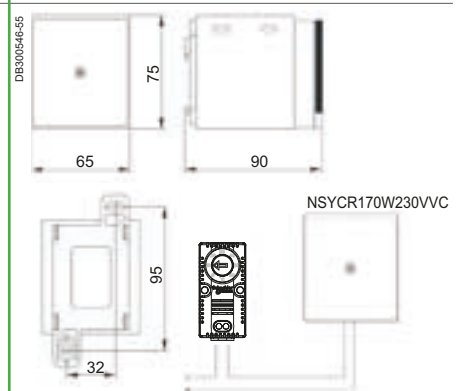
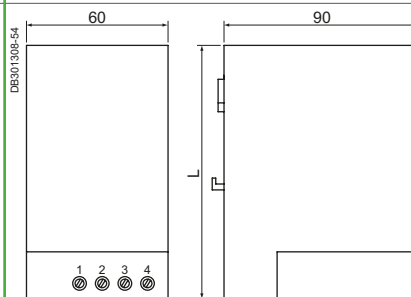
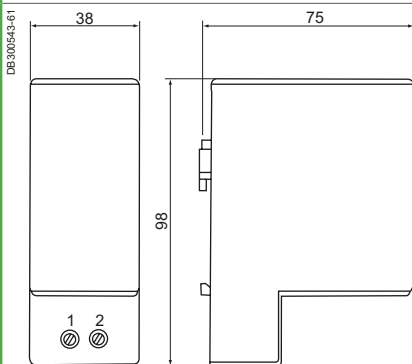
Cover: UL 94 V-0 plastic
Class II (double insulated)

References

NSYCR10WU1C	-	-
NSYCR10WU2C	-	-
NSYCR20WU1C	-	-
NSYCR20WU2C	-	-
-	NSYCR50WU1C	-
-	NSYCR50WU2C	-
-	NSYCR50WU3C	-
-	NSYCR100WU1C	-
-	NSYCR100WU2C	-
-	NSYCR100WU3C	-
-	NSYCR150WU1C	-
-	NSYCR150WU2C	-

Insulated ventilated PTC heaters

NSYCR170W230VVC



Thermal management system

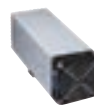
Characteristics, selection guide

Aluminium PTC heaters

PB501146-23



PB501026-21



PB501145-48



NSYCRS200W230V

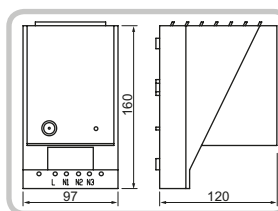
Characteristics		Aluminium PTC heaters	Aluminium PTC heater with fan	Resistive heaters
Conditions of use		<ul style="list-style-type: none"> Extruded aluminium body. Surface temperature limited to 75°C when the ambient temperature is -5°C. Heaters equipped with a power cable with a length of 500 mm with silicon insulation, or with a connection terminal block. 		
Power (W)		References		
Voltage (V)		References		
Power cord				
10	12-24 DC	NSYCR10WU1	-	-
	110-250 AC	NSYCR10WU2	-	-
20	12-24 DC	NSYCR20WU1	-	-
	110-250 AC	NSYCR20WU2	-	-
Terminal block				
20	270-420 AC	NSYCR20WU3	-	-
55	12-24 DC	NSYCR55WU1	-	-
	110-250 AC	NSYCR55WU2	-	-
	270-420 AC	NSYCR55WU3	-	-
90	12-24 DC	NSYCR100WU1	-	-
	110-250 AC	NSYCR100WU2	-	-
	270-420 AC	NSYCR100WU3	-	-
150	12-24 DC	NSYCR150WU1	-	-
	110-250 AC	NSYCR150WU2	-	-
	270-420 AC	NSYCR150WU3	-	-
250	115 AC	-	NSYCR250W115VV	-
	230 AC	-	NSYCR250W230VV	-
400	115 AC	-	NSYCR400W115VV	-
	230 AC	-	NSYCR400W230VV	-
200	115 AC	-	-	NSYCRS200W115V
	230 AC	-	-	NSYCRS200W230V

Thermofan

PB501154-12



NSYCRP1W230VTVC



Characteristics		Thermofan
Conditions of use		<ul style="list-style-type: none"> 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)		References
Voltage (V)		References
Terminal block		
400/550	120 AC	NSYCRP1W120VTVC
	230 AC	NSYCRP1W230VTVC

Fixing accessories

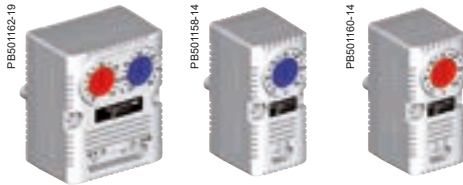
Description	Supply	References
	Set of 5 studs	NSYCRAF
	Set of 5 studs and DIN rail	NSYCRAFD

Thermal management system

Introduction

Thermal control

> Mechanical thermostats



Mechanical and electronic thermostats

- Large range of temperature control.
- Small dimensions.
- Easily accessible terminals.

> Electronic thermostats



LED screen

Screen visible even in the dark.



Operational temperature range

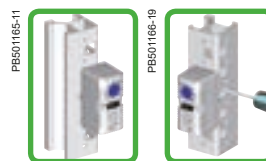
- For mechanical thermostats: 0°C ... +60°C
- For electronic thermostats: -40°C ... +80°C

Mechanical and electronic thermostats

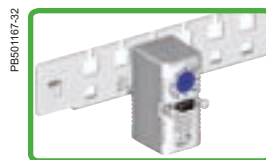


The quick-fixing systems

- On 35 mm DIN rail.



- On Spacial upright.



- On cross-rail.



- On mounting plate.



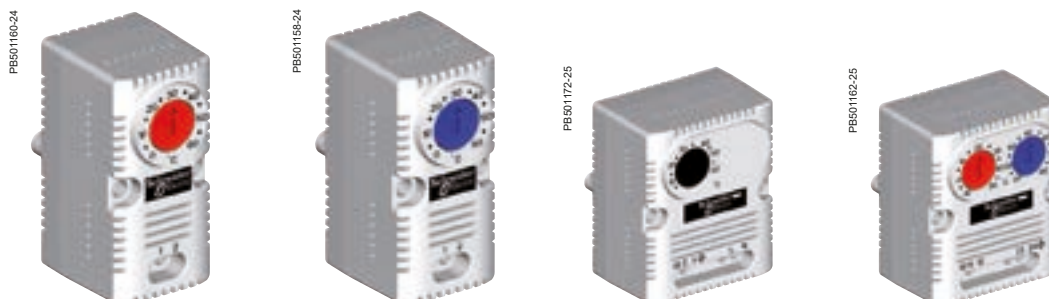
Certifications and declarations

- UL,
- CE.

Thermal management system

Characteristics, selection guide

Mechanical thermostats



Characteristics	Thermostat With NC contact	Thermostat With NO contact	Thermostat With NO/NC contact	Double Thermostat				
	Thermostat with NC Contact: ■ to control the stopping of a resistance heater when the temperature exceeds the displayed value. Thermostat with NO Contact: ■ to control the starting up of a fan when the temperature exceeds the displayed maximum value, ■ to 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.							
Colour button	Red	Blue	Black	Red and blue				
Ingress protection rating according to IEC 60529	IP20	IP20	IP20	IP20				
Sensor element	Bimetal	Bimetal	Bimetal	Bimetal				
Contact	NC, forced rupture	NO, forced rupture	Inverse, forced rupture	NO / NC, forced rupture				
Contact resistance	< 10 mΩ	< 10 mΩ	< 10 mΩ	< 10 mΩ				
Service life	> 100,000 cycles	> 100,000 cycles	> 100,000 cycles	> 100,000 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		250 V AC; 10 A (resistive load)	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				
Max interrupting capacity with direct current	NC	NO	250 V AC 4 A (inductive load cos φ = 0.6) 30 W DC	NA				
Connection	Two 2.5 mm ² terminals	Two 2.5 mm ² terminals	Four 2.5 mm ⁴ terminals	Six 2.5 mm ⁶ terminals				
Mounting	By clip on 35 mm DIN rail	By clip on 35 mm DIN rail	By clip on 35 mm DIN rail	Clip on 35 mm DIN rail				
Enclosure	UL 94 V-0 plastic, light grey	UL 94 V-0 plastic, light grey	UL 94 V-0 plastic, light grey	UL 94 V-0 plastic, light grey				
Dimensions	60 x 33 x 43 mm	60 x 33 x 43 mm	67 x 50 x 44 mm	60 x 33 x 43 mm				
Weight	40 g	40 g	100 g	40 g				
Mounting position	Indifferent	Indifferent	Indifferent	Indifferent				
Operating temperature	-20...+80°C (-4...+176°F)	-20...+80°C (-4...+176°F)	-20...+80°C (-4...+176°F)	-20...+80°C (-4...+176°F)				
Hysteresis	7 K	7 K	7 K	7 K				
Temperature setting range	0...+60°C	0...+60°C	+5...+60°C	0...+60°C				
Display	°C °F	°C °F	°C °F	°C °F				
Max. command intensity	10 A 250 V		(NO) 5 A (NC) 10 A	(NO) 5 A (NC) 10 A				
References	NSYCCOTHC	NSYCCOTHCF	NSYCCOTHO	NSYCCOTHOF	NSYCCOTH1	NSYCCOTHIF	NSYCCOTH2D	NSYCCOTHDF
	<p>L N Load = resistance</p>	<p>L N Load = fan</p>	<p>L N Load (2): resistance Load (3): fan</p>					

Electronic thermostats

PB502624



PB502623

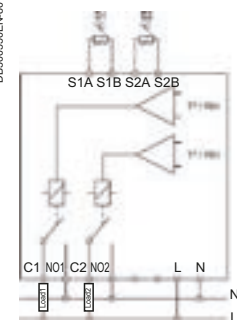


PB502513

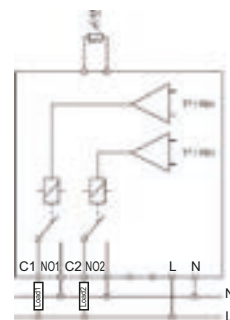


Characteristics	Electronic thermostat	Electronic hygrotherm	Electronic hygostat
	With LED screen Electronic temperature controller.	With LED screen Electronic temperature and humidity controller.	With LED screen Electronic humidity controller.
Ingress protection rating according to IEC 60529	IP20	IP20	IP20
Certification	UL / UR	UL / UR	UL / UR
Internal sensor element	Temperature sensor	Temperature sensor and humidity sensor	Humidity sensor
Contact	Free with zero potential	Free with zero potential	Free with zero potential
Connection	2 x 2.5 mm ² (input voltage) + 2 relays (2 x 2.5 mm ² + 2 x 2.5 mm ²)	2 x 2.5 mm ² (input voltage) + 2 relays (2 x 2.5 mm ² + 2 x 2.5 mm ²)	2 x 2.5 mm ² (input voltage) + 1 relay (2 x 2.5 mm ²)
Mounting	4 different methods: by DIN rail, Spacial SF profile, on VDI cross-rail or on mounting plate	4 different methods: by DIN rail, Spacial SF profile, on VDI cross-rail or on mounting plate	4 different methods: by DIN rail, Spacial SF profile, on VDI cross-rail or on mounting plate
Enclosure	UL 94 V-0 plastic, light grey	UL 94 V-0 plastic, light grey	UL 94 V-0 plastic, light grey
Operating temperature	-40°C...+80°C	-40°C...+80°C	-40°C...+80°C
Hysteresis	Programmed 2 K	Programmed 2 K and 3 %	3 %
Temperature setting range	-40°C...+80°C	-40°C...+80°C	-
Humidity setting range	-	20 %...80 %	20 %...80 %
Display	°C or °F	°C or °F or % RH	% RH
Max. command intensity	8 (5) A 230 V AC / 5 A 30 V DC	8 (5) A 230 V AC / 5 A 30 V DC	8 (5) A 230 V AC / 5 A 30 V DC
Voltage (type of current)	References		
9-30 V (AC/DC)	NSYCCOTH30VID	NSYCCOHT30VID	NSYCCOHT30VID
110-127 V (AC)	NSYCCOTH120VID	NSYCCOHT120VID	NSYCCOHT120VID
220-240 V (AC)	NSYCCOTH230VID	NSYCCOHT230VID	NSYCCOHT230VID

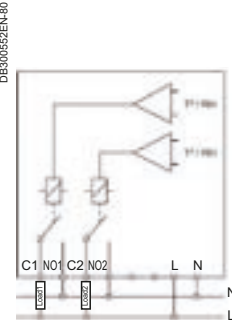
DB300551EN-80



DB300551EN-80



DB300552EN-80



PB501175-10



Characteristics	External temperature sensor (double insulation)
	<ul style="list-style-type: none"> ■ Sensor operation or reading range: -40°C...+150°C. <p>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.</p> <p>Hygostat installation tips: the hygostat should be installed at the bottom of the enclosure. 60% RH is the optimum value in the enclosure.</p>
Ingress protection rating according to IEC 60529	IP67
Fixing	On DIN rail, on Spacial SF profile, on VDI cross-rail, on mounting plate
Length of cable supplied (m)	
3	NSYCCASTE

Thermal management system

Introduction



PF603400-70

Thermal conditions: a hot topic for enclosures

Temperature, humidity, and dew point all affect the performance of your electrical and electronic enclosures. Problem is, unless these environments are sized properly, thermal conditions will compromise reliability, safety, and efficiency, as well as the lifespan of your panels. **The precise knowledge of the thermal conditions is therefore indispensable to choose the most appropriate thermal management solution.**

Threats to performance arise when:



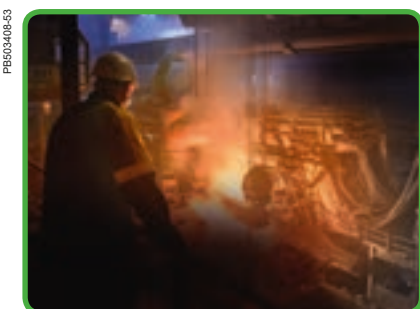
Real environmental conditions are not known



Specifications are oversized



Excessive loads over-consume energy



PF603408-53

How to use ClimaSys DT

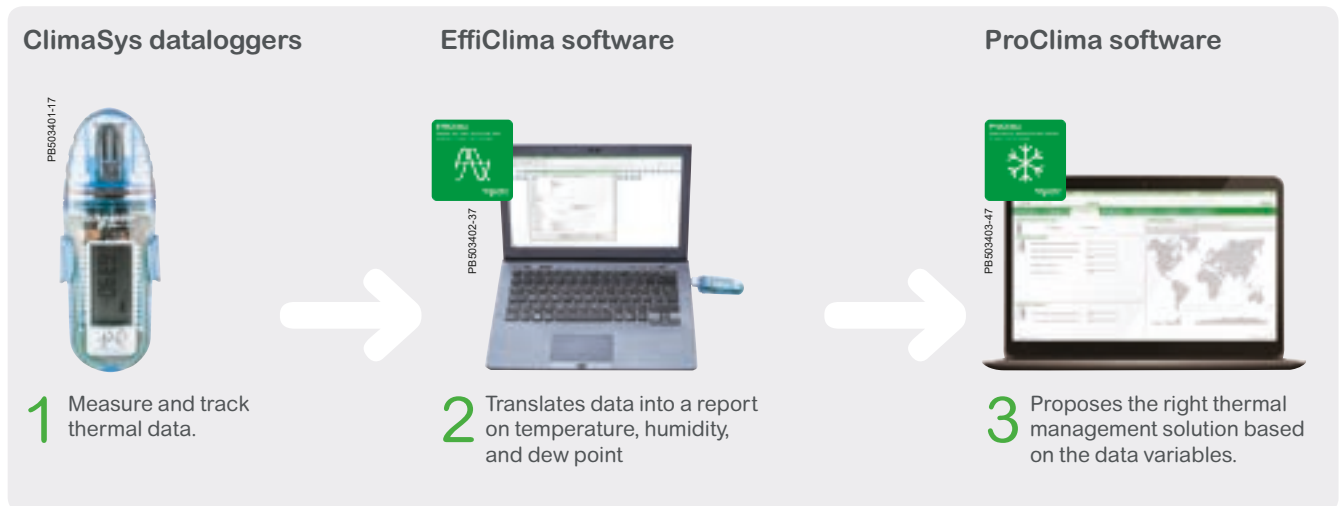
Installation type	Need	
	What do you want to do?	
Greenfield	New Project	Determine enclosure sizing needs and the correct thermal solution
Brownfield	Power Dissipation verification	Measure the dissipation power of the installation in watts (enclosure without thermal solution installed)
	Electronics Health Test	Verify that there are no hot/ cold spots
	Thermal Solution Test	Measure the efficiency of the existing thermal solution in a certain period of time
	Humidity/ Condensation Test	Measure the risk of high humidity or condensation inside the enclosure

Thermal management system Introduction

ClimaSys DT: the solution to optimize the size of your enclosure

With ClimaSys DT dataloggers and EffiClima software, you can know with maximum accuracy the temperature evolution, humidity levels, and dew point inside and outside your control panels.

This data can then be analyzed with ProClima thermal software to determine the optimal thermal solution for each of your control panel installations.



Selection of the dataloggers			
Variables to measure	How many dataloggers needed?	Model	Recommended installation
<ul style="list-style-type: none"> ■ T outside ■ RH outside 	1	DTH reference NSYDTEF32TRH	
<ul style="list-style-type: none"> ■ T outside ■ T inside 	2	DTT reference NSYDTEF32T	
<ul style="list-style-type: none"> ■ T inside 	1	DTT reference NSYDTEF32T	
<ul style="list-style-type: none"> ■ T outside ■ T inside 	2	DTT reference NSYDTEF32T	
<ul style="list-style-type: none"> ■ T inside ■ T outside ■ HR inside/ outside 	2	DTH reference NSYDTEF32TRH	

Thermal management system

Introduction

➤ **ClimaSys DT** (Diagnostic Tools) dataloggers are an easy-to-use solution that enables users to:

- Access accurate and reliable thermal measurement data in design, commissioning, and exploitation phases
- Track fast or slow measurements
- Maintain continuity of service
- Optimize installations
- Detect hot and cold spots, and avoid condensation problems
- Determine if ventilation/cooling is possible.

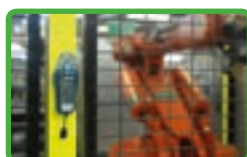
PB503385-32



ClimaSys DTT

ClimaSys DT model records the temperature.

PB503387-38



ClimaSys DTH

ClimaSys DTH model records the temperature and the relative humidity level, and determine the dew point.

+ Advantages

PB503276-50



ClimaSys DTT

- Time stamp/start/stop with magnet key
- Low power consumption for extended two-year battery life
- Easy data download to PC via USB connection
- USB firmware update
- QR code on dataloggers for easy online access to data sheets, videos, and other technical information

PE503404-95



ClimaSys DTH

- Time stamp/start/stop with magnet key
- Dew point reading on LCD and software
- Fast response time for RH sensor
- USB firmware update
- Low power consumption for extended battery life (up to two years)
- QR code on dataloggers for easy online access to data sheets, videos, and other technical information

Thermal management system

Characteristics

Dataloggers



Characteristics	DT	DTH
	Temperature recorder	Temperature, humidity and dew point recorder
Colour	Translucid	Translucid
Display Type	LCD display	LCD display
Dimensions		
Height	111 mm	111 mm
Width	39 mm	39 mm
Depth	26 mm	30 mm
Operating temperature	-40°C...80°C	-40°C...80°C
Ingress protection rating according to IEC 60529	IP67	IP54
Standard	EN 12830	EN 12830
Declaration	CE	CE
Fixing mode	Clip-on support	Clip-on support
Connector type	USB	USB
Data recording		
Temperature		
Setting	-40°C...80°C	-40°C...80°C
Accuracy	±0.3°C	±0.3°C
Resolution	0.03°C	0.01°C
Humidity		
Setting	-	5...95%
Accuracy	-	±2%
Resolution	-	0,5% HR
Battery		
Type	Lithium CR2032 3 V	Lithium CR2032 3 V
Lifespan	Maximum 2 years	Maximum 2 years
Composition	1	1
References	NSYDTEF32T	NSYDTEF32TRH

Download EffiClima and ProClima free software



Discover more

ClimaSys DT video
of the concept



e-brochure



**Get maximum control panel performance
and reliability**
Thermal management solutions for critical electrical
and electronic enclosures

Ref : UE16MK06EN








Thermal management system

Method to determine a thermal management solution

Here is a simple method to help you choose a thermal solution. This method does not take into account the humidity level outside the enclosure.

Thermal balance

1 - Characteristics of the enclosure

Position of the enclosure 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 = <input type="text" value=""/> m²

H = Height - W = Width - D = Depth

Example

Spacial reference NSYSF20840

H = 2000

W = 800

D = 400

Installation method:

Suitable enclosure placed against a wall.

S = 4.128 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.

Pd = **W**

Assume that the switchgear dissipates 800 W.

Pd = 800 W

3 - Temperatures outside the enclosure

Maximum ambient temperature.
Minimum ambient temperature.

Temax = **°C**
Temin = **°C**

The temperature conditions are as follows:

Temax = 35°C
Temin = 15°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)

Tidmax = **°C**
Tidmin = **°C**

Tidmax = 40°C
Tidmin = 29°C

5 - Temperature inside the enclosure without thermal management system

Max. internal temperature: $T_{fi_{max}} = \frac{Pd}{K \times S} + T_{e_{max}}$

Tfimax = **°C**

Min. internal temperature: $T_{fi_{min}} = \frac{Pd}{K \times S} + T_{e_{min}}$

Tfimin = **°C**

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

Tfimax = 70°C

Tfimin = 50°C

Calculation of thermal management power (Psyst)

a. Cooling systems:

$$P_{syst} = Pd - K \times S (T_{id_{max}} - T_{e_{max}}) = 686 \text{ w}$$

b. Resistances:

Electrical installation operating constantly

$$P_{syst} = K \times S (T_{id_{min}} - T_{e_{min}}) - Pd$$

Electrical installation operating discontinuously

$$P_{syst} = K \times S (T_{id_{min}} - T_{e_{min}})$$

Thermal management system

Method to determine a thermal management solution

Choice of solution

1 - Cooling

Condition: Calculated temperature + 5°C > Temperature wanted.

Conditions	Solution	Advantages	Constraints
Cooling			
Temperature wanted in the enclosure at least 5°C higher than the ambient temperature. $T_{id_{max}} \geq T_{e_{min}} + 5\text{°C}$	Oversize the enclosure.	Economical. No maintenance. Easy to implement. IP of the installation maintained.	Relatively small savings. Larger overall dimensions.
	Natural airing (installation of ventilation air inlets).	Very economical. No maintenance. Easy, fast installation.	Quantity of heat removed small and dependent on the layout of the components. Deterioration of the IP (ingress of dust).
	Forced ventilation.	Economical. Easy to implement. Large quantity of heat removed. Temperature control possible.	Regular maintenance of filters IP slightly degraded. Ambient temperature $\leq 35\text{°C}$.
	Air-air exchanger.	Easy to implement. Easy to maintain. IP of the installation maintained. Regulated temperature.	Regular filter maintenance.
Temperature $T_{id_{max}}$ wanted in the enclosure 5°C less than the ambient temperature $T_{e_{max}}$. $T_{id_{max}} - 5\text{°C} \geq T_{e_{max}}$	Cooling unit.	Easy to implement. Large quantity of heat removed irrespective of the ambient temperature. IP of the installation maintained. Regulated temperature.	Regular filter maintenance Ambient temperature $\leq 55\text{°C}$. Installation of a system for removal of condensation water from the evaporator.
	Air-water exchanger.	Easy to implement. Large quantity of heat removed irrespective of the ambient temperature. IP of the installation maintained. Regulated temperature. No filter to be maintained.	Need for a water circuit. Consumption if supplied with town water.

$$(1) \text{ Flow rate (m}^3/\text{h)} = \emptyset = \frac{P_{syst}}{(T_{id_{max}} - T_{e_{max}})} \times 3.1 \text{ (m}^3/\text{h)}$$

$$(2) \text{ Flow rate (W/K)} = \emptyset = \frac{P_{syst}}{(T_{id_{max}} - T_{e_{max}})} \text{ (W/K)}$$

2 - Heating

If the calculated temperature is less than the temperature wanted, the inside of the enclosure must be heated. The solution is to use heating resistors.

They can maintain the temperature above the dew point and thus prevent any risk of condensation.

To maintain a uniform temperature inside the enclosure and thus prevent hot spots, Schneider Electric proposes a heating resistor equipped with a fan.

3 - Homogenize

Objective: Prevent hot spots.

Solution: stirring fan.

Technical guides and spare parts

Technical guides and spare parts

Contents

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Brief checklist for enclosure composition	590
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Enclosures & thermal management systems certifications

Range	Assemblies alone					Equipped assembly system
	Empty assemblies for low-voltage switchgear	Standards for industrial equipment and UL classification	Marine environment classification or approval for protection and resistance to vibrations	Enclosures installed in a potentially explosive atmosphere	Outdoor Heavy Duty enclosures	Low-voltage switchgear and controlgear assemblies
	Standard/Directive					
	IEC 62208	UL508A and CAN CSA C22-2 no. 14	Rules of certifying bodies	European directive no. 2014/34/UE EN60079-0 / EN60079-7 EN60079-3 / EN60529	IEC 61439-5 ISO 12944-6 IEC 61969-3	IEC61439-1&2
Spacial						
SBM	●	●	● ●			
S3D	● ● (6)	●	● ● ●			
CRN	● (6)	●	●			
CRNG	● (6)	●	●			
S3DEX		●		●		
S3HF		●				
S3HD	● (6)	●			●	
S3CM		●				
SM	● ● (6)	●	●			
SF	● ● (6)	●	● ●			●
SFHD	● ● (6)	●			●	●
SFP/PH	● (6)					●
SFM						●
S3X	●	●	●			
SMX	●	●	● (3)			
SFX	● (3)	●	● (3)			
Thalassa						
TBS/TBP	●	● (1)				
PLS	●	●				
PLM	● ● (6)	●	●			
PLA	● ● (6)	●	●			
PLAT	● ● (6)					
PLAZ	● ● (6)					
PLAZT	● ● (6)					
PLD	●					
PHD	● (6)	●			● (2)	
ClimaSys (4)						
CV		●				
CU		●				
CE		●				
CR		● (5)				
CC		●				

(1) Only TBP. / (2) ISO 12944-6 only applies to the Spacial enclosures. / (3) Only for 1 door versions. / (4) EAC compliant.

(5) The insulated & aluminium resistance heaters of 12-24 V DC & 270-420 V AC are not certified. / (6) Compliance with Dekra.

For other certifications & declarations of conformity, please consult us.

Official certification body									
Bureau Veritas	LCIE (Bureau Veritas)	Bureau Veritas Marine Division	TÜV Rheinland Group	Underwriters Laboratories	Laboratorio Oficial J.M. Madariaga	DNV-GL	Lloyd's Register	Dekra	Asefa
PB500048	PB500049	PB500048	PB500050	PB500051	PB500052	DB301220	PB500055	DE301180	DE300966
									
●	●	●	●	●	●	●	●	●	●

International enclosure standards

Standards IEC 61439

Both the point of arrival of energy and a device for distribution to the site applications, the LV switchboard is the intelligence of the system, central to the electrical installation.

It plays an essential role in the availability of electric power, while meeting the needs of personal and property safety.

Its definition, design and installation are based on precise rules; there is no place for improvisation. The IEC 61439 standard aims to better define "low-voltage switchgear and controlgear assemblies", ensuring that the specified performances are reached.

It specifies in particular:

- the responsibilities of each player, distinguishing those of the original equipment manufacturer; the organization that performed the original design and associated verification of an assembly in accordance with the standard, and of the assembly manufacturer - the organization taking responsibility for the finished assembly
- the design and verification rules, constituting a benchmark for product certification

All the component parts of the electrical switchboard are concerned by the IEC 61439 standard. Equipment produced in accordance with the requirements of this switchboard standard ensures the safety and reliability of the installation.

The main 10 functions of standard IEC 61439

For each of the following 10 functions, the standard IEC 61439 requires design verifications from the system manufacturer - mainly through type-tests defined in IEC 62208 - and routine verifications on each panel from the Panel Builder to achieve 3 basic goals: safety, continuity of service and compliance with end-user requirements.



Safety

■ Voltage stresses withstand capability

To withstand long term voltages, and transient and temporary overvoltages according to the insulation coordination principles and requirements.

■ Current-carrying capability

To protect against burns and to withstand temperature rise:

- when any circuit is continuously loaded, alone, to the specified current
- when the assembly is loaded to the specified current according to the specified load pattern (between circuits and/or as a function of the time).

■ Short-circuit withstand capability

To withstand the stresses resulting from the prospective short-circuit current and from the associated data (High forces between conductors, temp. rise in a very short time, air ionization, overpressure).

■ Protection against electric shock

- Hazardous-live-parts not to be accessible (basic protection).
- Accessible conductive parts not to become hazardous-live (fault protection).

■ Protection against risk of fire or explosion

- Resistance to internal glowing elements.

Note: Protection of persons, and optional protection of the assembly, against arcing due to internal fault can be specified through a "special test" according to IEC 61641.



Continuity of service

■ Maintenance and modification capability

Capability to preserve continuity of supply without impairing safety during assembly maintenance or modification.

- Electrical condition of the assembly or various circuits.
- Speed of exchange of the functional units.
- Test facilities...

■ Electro-Magnetic compatibility

To properly function (immunity) and not to generate EM disturbances (emission) in specified environmental conditions:

- Industrial networks or locations (Environment A).
- Domestic, commercial, and light industrial locations (Environment B).



Compliance with end-user requirements

■ Capability to operate the electrical installation

To properly function, according to:

- the electrical diagram of the overall system and related information (voltages, coordination...),
- the specified operating facilities (e.g. free or restricted access to Man Machine Interfaces, isolation of the outgoing circuits...).

■ Capability to be installed on site

- To withstand handling, transport, storage... and installation constraints.
- Capability to be erected and connected (type of enclosure, type, material and cross sectional areas of external conductors).

■ Protection of the assembly against mechanical and atmospheric environmental conditions

- Presence of water or solid foreign bodies (IP according to IEC 60529).
- External mechanical impacts (optional IK according to IEC 62262).
- Indoor or outdoor installation (humidity, UV).

International enclosure standards

Standards IEC 62208*

PB50006-57



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 in accordance with IEC 61439.

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).

PB500057-57



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:
 - 2 identical 12 day periods. Each one with:
 - 5 cycles of 24 hours of the damp heat test at 40 °C and relative humidity of 95%.
 - 7 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	IP40	IP41	IP42	IP43	IP44	IP54	IP55	IP65	IP66
Metal industrial boxes	Spacial SBM							● (4)		● (4)
Metal derivation boxes	Spacial SDB							●		
Steel wall-mounting enclosures	Spacial S3D							● (1)		●
Steel modular distribution wall-mounting enclosures	Spacial S3DM									●
Terminal wall-mounting enclosures	Spacial S3DB									●
Steel wall-mounting enclosures	Spacial S3HF							●		
Steel wall-mounting enclosures	Spacial CRN									●
	Spacial CRNG							● (1)		●
EMC steel floor-standing enclosures	Spacial SFHF							●		
HMI control enclosures	Spacial S3CM						●			
ATEX steel wall-mounting enclosures	Spacial S3DEX									●
Steel outdoor wall-mounting enclosures	Spacial S3HD									●
Stainless-steel wall-mounting enclosures	Spacial S3X							● (1)		●
Seismic and nuclear enclosures	Spacial S3D6G / Spacial S3D6GK3								●	
Terminal enclosures with FL21 cut-out	Spacial S3DBFL								● (7)	
Steel floor-standing enclosures	Spacial SM							●		
Steel suitable enclosures	Spacial SF							●		
Steel outdoor floor-standing enclosures	Spacial SFHD							●		
Stainless-steel floor-standing enclosures	Spacial SMX							●		
Stainless-steel suitable enclosures	Spacial SFX							● (1)		●
Functional steel floor-standing enclosures	Spacial SFP							●		
Steel control desks	Spacial SD							●		
Stainless-steel control desks	Spacial SDX							●		
Thermoplastic industrial boxes	Thalassa TBS-TBP							● (5)		● (6)
Polyester modular boxes	Thalassa PLS								●	
Polyester wall-mounting enclosures	Thalassa PLM									●
Polyester outdoor wall-mounting enclosures	Thalassa PHD								●	
Polyester floor-standing enclosures	Thalassa PLA (2)					●		●		
	Thalassa PLD				●		● (3)			
Polyester outdoor floor-standing enclosures	Thalassa PHD							●		

(1) Double door.

(2) Different IP depending on the version. See introduction in Thalassa section: PLA: IP65, PLAT / PLAZT: IP44, PLAZ / PLAT / PLAZT with grille: IP54.

(3) With gasket.

(4) Different IP depending on the version: Spacial SBM flat box: IP66 - Spacial SBMC FL21 entry box: IP55.

(5) Button boxes.

(6) Universal boxes.

(7) With membrane mounted.

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 591.

Further help for making the selection is given by the NEMA or UL classification of the enclosure, see page 588.

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.

	IP	IK
First numeral Protection against solid bodies	Second numeral Protection against liquids	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) 	1 Impact energy: 0.150 Joules 7.5 cm 
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 	2 Impact energy: 0.200 Joules 10 cm 
3 Protected against solid bodies larger than 2.5 mm (tools, wires) 	3 Protected against rainwater at up to 60° from vertical 	3 Impact energy: 0.350 Joules 17.5 cm 
4 Protected against solid bodies larger than 1 mm (fine tools, small wires) 	4 Protection against water spray from all directions 	4 Impact energy: 0.500 Joules 25 cm 
5 Protected against dust (no harmful deposits) 	5 Protection against low-pressure water jets from all directions 	5 Impact energy: 0.700 Joules 35 cm 
6 Totally dust tight 	6 Protection against powerful water jets from all directions 	6 Impact energy: 1.00 Joules 20 cm 
	7 Protection against the effects of immersion 	7 Impact energy: 2.00 Joules 40 cm 
	8 Protection against prolonged effects of immersion under pressure 	8 Impact energy: 5.00 Joules 29.5 cm 
		9 Impact energy: 10.00 Joules 20 cm 
		10 Impact energy: 20.00 Joules 40 cm 

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 588).

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	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)														
Name	Range	1	2	3	3R	3S	3X	3RX	3SX	4	4X	5	6	6P	12	13
Metal industrial boxes	SBM									●	●				●(3)	
HMI control enclosures	S3CM	●	●		●										●	●
Steel wall-mounting enclosures	S3D (1)	●	●(2)	●(2)	●(2)					●(2)	●(2)	●			●	●
	S3HF	●	●	●	●										●	●
Steel outdoor wall-mounting enclosures	S3HD	●	●	●	●					●	●	●			●	●
Steel wall-mounting enclosures	CRN	●	●	●	●					●	●				●	●
	CRNG	●	●(2)	●(2)	●(2)					●(2)	●(2)	●(2)			●	●
Stainless-steel wall-mounting enclosures	S3X	●	●(2)	●(2)	●(2)					●(2)	●(2)	●(2)			●	●(2)
Steel floor-standing enclosures	SM	●	●(2)	●(2)	●					●(2)	●(2)	●(2)			●	●
Polyester outdoor wall-mounting enclosures	PHD	●	●	●	●					●(2)	●(2)	●			●	●
Steel suitable enclosures	SF	●			●										●	
Steel outdoor floor-standing enclosures	SFHD	●			●										●	
Stainless-steel floor-standing enclosures	SMX	●	●(2)	●(2)	●(2)					●(2)	●(2)	●(2)			●	●
Stainless-steel floor-standing enclosures	SFX	●(2)	●(2)	●(2)	●(2)					●(2)	●(2)	●(2)				●(2)
Thermoplastic boxes	TBP	●		●		●				●	●					
Polyester modular boxes	PLS	●	●	●	●	●				●	●				●	●
Polyester wall-mounting enclosures	PLM	●	●	●	●	●				●	●	●			●	●
Polyester floor-standing enclosures	PLA	●	●	●(2)	●(2)	●(2)	●(2)	●(2)	●(2)			●(2)			●	●

(1) Also S3DM, S3DEX, S57 and S3DC.

(2) 1 door.

(3) Types 12 only for SBMC.

Components		Type of protection (5)												
Name	Range	1	2	3	3R	3S	4	4X	5	6	6P	12	13	
Ventilation system	CV											●		
Thermal regulation system	CC	●												

(5) 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

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.
3X	Indoor and outdoor use	The enclosure provides a degree of protection to personnel against access to hazardous parts; to provide a degree of protection of the equipment inside the enclosure against ingress of solid foreign objects (falling dirt and windblown dust); to provide a degree of protection with respect to harmful effects on the equipment due to the ingress of water (rain, sleet, snow); that provides an additional level of protection against corrosion and that will be undamaged by the external formation of ice on the enclosure.
3RX	Indoor and outdoor use	The enclosure provides a degree of protection to personnel against access to hazardous parts; to provide a degree of protection of the equipment inside the enclosure against ingress of solid foreign objects (falling dirt); to provide a degree of protection with respect to harmful effects on the equipment due to the ingress of water (rain, sleet, snow); that will be undamaged by the external formation of ice on the enclosure that provides an additional level of protection against corrosion.
3SX	Indoor and outdoor use	The enclosure provides a degree of protection to personnel against access to hazardous parts; to provide a degree of protection of the equipment inside the enclosure against ingress of solid foreign objects (falling dirt and windblown dust); to provide a degree of protection with respect to harmful effects on the equipment due to the ingress of water (rain, sleet, snow); that provides an additional level of protection against corrosion; and for which the external mechanism(s) remain operable when ice laden.
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.
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.

PB500063-55



PB500064-55



Polyester base coating properties

PB600068-96



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 10/10° mm.

Degreasing using biodegradable surface-active agents.

Film thickness: 60 microns.

Bonding (scratching and adhesive tape)	ISO 2409	≥ to Class 1
Ericksen 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 70 to 100 micron film:

■ Film intact.

■ Film attacked (blistering, yellowing, loss of gloss).

Number of months			2	4	6	8	10	12			
Acid	Acetic	20 %	[Blue bar]								
	Sulphuric	30 %	[Blue bar]								
	Nitric	30 %	[Blue bar]		[Red bar]						
	Phosphoric	30 %	[Blue bar]								
	Hydrochloric	30 %	[Blue bar]				[Red bar]				
	Lactic	10 %	[Blue bar]								
	Citric	10 %	[Blue bar]				[Red bar]				
Base	Soda	10 %	[Blue bar]		[Red bar]						
	Ammonia	10 %	[Blue bar]	[Red bar]							
Water	Distilled water		[Blue bar]				[Red bar]				
	Sea water		[Blue bar]								
	Tap water		[Blue bar]								
	Diluted chloride bleach		[Blue bar]	[Red bar]							
Solvents	Petrol		[Blue bar]			[Red bar]					
	Higher alcohols		[Blue bar]				[Red bar]				
	Aliphatics		[Blue bar]		[Red bar]						
	Aromatics		[Blue bar]			[Red bar]					
	Ketones-esters		[Red bar]								
	Tri-perchlorethylene		[Red bar]								

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. Class 1 SC = 5% of decontamination for contamination by fission products. Please consult us for further details.

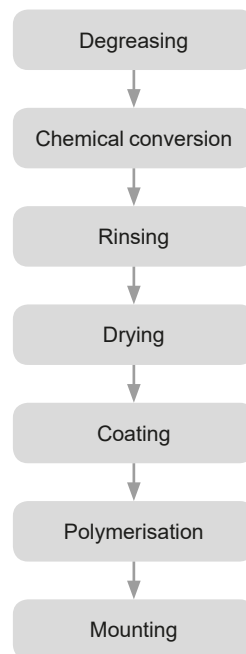
Accelerated aging

Standard IEC 62208: 500 h UV according to ISO 4892-2 (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	-
Density	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 60695-2-10	°C	650	960	960	750	960	750° (1.5 mm)
Glow wire resistance, 3 mm	IEC 60695-2-10	°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
Density	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 60695-2-10	°C	-	650	650	750	650
Glow wire resistance, 3 mm	IEC 60695-2-10	°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.

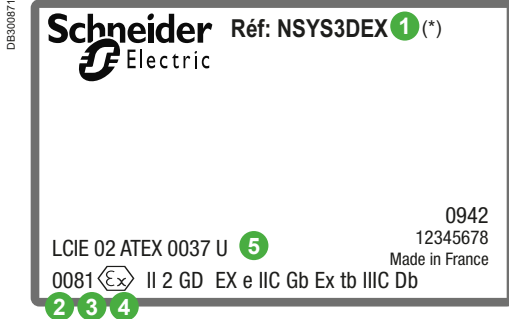
Resistance to	ABS	Polycarbonate	PVC	Bayblend®	Polyester	Altuglas	Polypropylene	Poly-styrene	Polyamide 6	Polyamide 12	SBS
Acetone	-	-	-	-	-	O	100 +	-	100 +	+	+
Hydrochloric acid	15 +	10 +	30 +	20 +	30 +	sat +	10 +	O	10 -	10 +	10 +
Citric acid		10 +	sat +	10 +	100 +	sat +	sat +	+	10 O	+	10 +
Lactic acid	80 +	10 +	90 +	10 -	100 +	20 +	90 +	O	50 O 90 -	+	sat +
Nitric acid	30 +	10 + 100 -	50 +	10 +	20 + +	10 + 100 -	25/ 50	O	2 O 10 -	-	50 +
Phosphoric acid	85 +	100 +	sat +	+	100 +	10 + 95 -	sat +	O	2 O 10 -	50 +	+
Sulphuric acid	50 +	50 + 100 -	96 +	30 +	70 +	30 +	96 +	O	3 -	10 +	96 +
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.

Description of the marking label affixed to ATEX certified wall-mounting enclosures

Spacial S3DEX



- 1** Product range*
- 2** **0163**: identification No. of the notified body for application of the ATEX directive.
: distinctive Community mark indicating that the product is authorized in explosive atmospheres.
II: industry Group (II = surface industry).
2: equipment category (2 = occasional presence, Zone 1 or 21).
GD: type of atmosphere (G= Gas and vapour or mist, D= Dust).
- 3** **Ex**: symbol indicating that the equipment corresponds to one or more protection methods standardized by Cénélec.
e: protection method used: e = enhanced safety (EN 60079-7).
IIC: gas group (hydrogen/acetylene).
Gb: protection method for non-electric equipment (check on power supply source).
G = gas.
- 4** **Ex**: symbol indicating that the equipment corresponds to one or more protection methods standardized by Cénélec.
t: protection method used: t = protection by enclosure (EN 60079-31).
IIIC: dust group (conductive dust).
Db: protection method for non-electric equipment (check on power supply source).
D = dust.
- 5** Name of the certification body + No. of the CE type certificate.
- 6** **IP66**: degree of intrusion protection..

* with the dimensions



Download our ATEX certificates from our site.

Selection table

Steel industrial boxes and steel wall-mounting enclosures

Steel industrial boxes

PB503351-20



SBM	
Description	References
Accessories	
Bag of acces. SBM boxes 4 screws	NSYSBMABS4
Bag of acces. SBM boxes 6 screws	NSYSBMABS6

Steel wall-mounting enclosures

PB500199-30



S3D			
Description	References	Description	References
Doors			
Plain door 300 x 200	NSYDS3D32	Glazed door 500 x 500	NSYDS3D55T
Plain door 300 x 250	NSYDS3D325	Glazed door 500 x 600	NSYDS3D56T
Plain door 300 x 300	NSYDS3D33	Glazed door 600 x 400	NSYDS3D64T
Plain door 300 x 400	NSYDS3D34	Glazed door 600 x 500	NSYDS3D65T
Plain door 400 x 300	NSYDS3D43	Glazed door 600 x 600	NSYDS3D66T
Plain door 400 x 400	NSYDS3D44	Glazed door 600 x 800	NSYDS3D68T
Plain door 400 x 600	NSYDS3D46	Glazed door 700 x 500	NSYDS3D75T
Plain door 500 x 300	NSYDS3D53	Glazed door 700 x 600	NSYDS3D76T
Plain door 500 x 400	NSYDS3D54	Glazed door 800 x 600	NSYDS3D86T
Plain door 500 x 500	NSYDS3D55	Glazed door 800 x 800	NSYDS3D88T
Plain door 600 x 400	NSYDS3D64	Glazed door 1000 x 600	NSYDS3D106T
Plain door 600 x 500	NSYDS3D65	Glazed door 1000 x 800	NSYDS3D108T
Plain door 600 x 600	NSYDS3D66	Glazed door 1000 x 1000	NSYDS3D1010T
Plain door 600 x 800	NSYDS3D68	Glazed door 1200 x 600	NSYDS3D126T
Plain door 700 x 500	NSYDS3D75	Glazed door 1200 x 800	NSYDS3D128T
Plain door 800 x 600	NSYDS3D86	Glazed door 1200 x 1000	NSYDS3D1210T
Plain door 800 x 800	NSYDS3D88	Glazed door 1000 x 500 right	NSYDS3D105TR
Plain door 800 x 1000	NSYDS3D810	Glazed door 1000 x 500 left	NSYDS3D105TL
Plain door 800 x 500 right	NSYDS3D85R	Glazed door 1200 x 500 right	NSYDS3D125TR
Plain door 800 x 500 left	NSYDS3D85L	Glazed door 1200 x 500 left	NSYDS3D125TL
Plain door 800 x 600 right	NSYDS3D86R	Door accessories	
Plain door 800 x 600 left	NSYDS3D86L	Gasket double door encl.	NSYGDD
Plain door 1000 x 600	NSYDS3D106	Set of 5 taps and latches	NSYS3DTL
Plain door 1000 x 800	NSYDS3D108	Hinge 120°	NSYAEDH120S3D
Plain door 1000 x 1000	NSYDS3D1010	Hinge 180°	NSYAEDH180S3D
Plain door 1200 x 1000	NSYDS3D1210	Earthing accessories	
Plain door 1000 x 500 right	NSYDS3D105R	Set of 500 earthing labels	NSYSWMEL
Plain door 1000 x 500 left	NSYDS3D105L	Fixing hardware	
Plain door 1000 x 600 right	NSYDS3D106R	100 screws cable gland plate	NSYS3DCGSB
Plain door 1000 x 600 left	NSYDS3D106L	Standard screw bag cable gland plate	NSYS3DCGPSTDSB
Plain door 1200 x 600	NSYDS3D126	Locking accessories	
Plain door 1200 x 800	NSYDS3D128	Set of 10 linkage guides	NSYS3DLG
Plain door 1200 x 500 right	NSYDS3D125R	Standard key DB3	NSYAEDLS3DKDB3
Plain door 1200 x 500 left	NSYDS3D125L	Lock + standard key DB3 neutral	NSYAEDLS3DRLN
Plain door 1200 x 600 right	NSYDS3D126R	3 point lock linkage H 600 mm	NSYBTAS3D60
Plain door 1200 x 600 left	NSYDS3D126L	3 point lock linkage H 700 mm	NSYBTAS3D70
Plain door 1400 x 500 right	NSYDS3D145R	3 point lock linkage H 800 mm	NSYBTAS3D80
Plain door 1400 x 500 left	NSYDS3D145L	3 point lock linkage H 1000 mm	NSYBTAS3D100
Glazed door 300 x 250	NSYDS3D325T	3 point lock linkage H 1200 mm	NSYBTAS3D120
Glazed door 300 x 300	NSYDS3D33T	3 point lock linkage H 1400 mm	NSYBTAS3D140
Glazed door 300 x 400	NSYDS3D34T	Lock with key type 3131A	NSYAEDL3131AS3D
Glazed door 300 x 600	NSYDS3D36T	3 point lock linkage (H = 650 mm)	NSYBTAS3D65
Glazed door 400 x 300	NSYDS3D43T	3 point lock linkage (H = 900 mm)	NSYBTAS3D90
Glazed door 400 x 400	NSYDS3D44T	Panels	
Glazed door 400 x 600	NSYDS3D46T	50 caps for holes of hinges WM	NSYSWMCH
Glazed door 500 x 300	NSYDS3D53T	Set of 50 back plugs WM	NSYSWMBP
Glazed door 500 x 400	NSYDS3D54T		



To find out more about our spare parts offer, visit our website at www.schneider-electric.com

Selection table

Steel wall-mounting enclosures

Steel wall-mounting enclosures



PES00097-29

S3DM			
Description	References	Description	References
Doors		Locking accessories	
Glazed door 400 x 300	NSYDS3D43T	Set of 10 linkage guides	NSYS3DLG
Glazed door 500 x 400	NSYDS3D54T	Standard key DB3	NSYAEDLS3DKDB3
Glazed door 600 x 400	NSYDS3D64T	3 point lock linkage H 600 mm	NSYBTAS3D60
Glazed door 600 x 600	NSYDS3D66T	3 point lock linkage H 700 mm	NSYBTAS3D70
Glazed door 700 x 500	NSYDS3D75T	3 point lock linkage H 800 mm	NSYBTAS3D80
Glazed door 800 x 600	NSYDS3D86T	3 point lock linkage H 1000 mm	NSYBTAS3D100
Glazed door 1000 x 600	NSYDS3D106T	Panels	
Glazed door 1000 x 800	NSYDS3D108T	50 caps for holes of hinges WM	NSYSWMCH
Earthing accessories		Set of 50 back plugs WM	NSYSWMBP
Set of 500 earthing labels	NSYSWMEL		
Fixing hardware			
100 screws cable gland plate	NSYS3DCGSB		
Standard screw bag cable gland plate	NSYS3DCGPSTDSB		

S3DC			
Description	References	Description	References
Doors		Earthing accessories	
Plain door 300 x 200	NSYDS3DC32	Set of 500 earthing labels	NSYSWMEL
Plain door 300 x 300	NSYDS3DC33	Locking accessories	
Plain door 400 x 300	NSYDS3DC43	Set of 10 linkage guides	NSYS3DLG
Plain door 400 x 400	NSYDS3DC44	Standard lock enclosures	NSYAEDLS3DC
Plain door 500 x 400	NSYDS3DC54	3 point lock linkage H 600 mm	NSYBTAS3D60
Plain door 500 x 500	NSYDS3DC55	3 point lock linkage H 700 mm	NSYBTAS3D70
Plain door 600 x 400	NSYDS3DC64	3 point lock linkage H 800 mm	NSYBTAS3D80
Plain door 600 x 600	NSYDS3DC66	3 point lock linkage H 1000 mm	NSYBTAS3D100
Plain door 700 x 500	NSYDS3DC75	3 point lock linkage H 1200 mm	NSYBTAS3D120
Plain door 800 x 600	NSYDS3DC86	Panels	
Plain door 800 x 800	NSYDS3DC88	50 caps for holes of hinges WM	NSYSWMCH
Plain door 1000 x 600	NSYDS3DC106	Set of 50 back plugs WM	NSYSWMBP
Plain door 1000 x 800	NSYDS3DC108		
Plain door 1000 x 1000	NSYDS3DC1010		
Plain door 1200 x 800	NSYDS3DC128		
Plain door 1200 x 1000	NSYDS3DC1210		

S3DCD			
Description	References	Description	References
Doors		Locking accessories	
Plain door 500 x 500	NSYDS3DCD55	Standard lock enclosures	NSYAEDLS3DC
Plain door 600 x 600	NSYDS3DCD66	3 point lock linkage H 700 mm	NSYBTAS3D70
Plain door 700 x 500	NSYDS3DCD75	3 point lock linkage H 800 mm	NSYBTAS3D80
Plain door 800 x 600	NSYDS3DCD86	3 point lock linkage H 1000 mm	NSYBTAS3D100
Plain door 1000 x 600	NSYDS3DCD106	3 point lock linkage H 1200 mm	NSYBTAS3D120
Plain door 1000 x 800	NSYDS3DCD108	Panels	
Plain door 1000 x 1000	NSYDS3DCD1010	50 caps for holes of hinges WM	NSYSWMCH
Plain door 1200 x 1000	NSYDS3DCD1210	Set of 50 back plugs WM	NSYSWMBP

S3DB			
Description	References	Description	References
Doors		Earthing accessories	
Plain door 250 x 300	NSYDS3DB2530	Set of 500 earthing labels	NSYSWMEL
Plain door 250 x 400	NSYDS3DB2540	Locking accessories	
Plain door 250 x 500	NSYDS3DB2550	Standard key DB3	NSYAEDLS3DKDB3
Plain door 300 x 300	NSYDS3DB33	Panels	
Plain door 300 x 400	NSYDS3DB34	50 caps for holes of hinges WM	NSYSWMCH
Plain door 300 x 500	NSYDS3DB35	Set of 50 back plugs WM	NSYSWMBP
Plain door 300 x 600	NSYDS3DB36		
Plain door 400 x 300	NSYDS3DB43		
Plain door 400 x 800	NSYDS3DB48		
Plain door 500 x 400	NSYDS3DB54		
Plain door 600 x 400	NSYDS3DB64		

Selection table

Steel wall-mounting enclosures

Steel wall-mounting enclosures

PB50038B-31



CRN			
Description	References	Description	References
Doors			
Glazed door H 300 x W 250	NSYDCRN3025T	Plain door H 500 x W 400	NSYDCRN54
Glazed door H 300 x W 300	NSYDCRN33T	Plain door H 500 x W 500	NSYDCRN55
Glazed door H 300 x W 400	NSYDCRN34T	Plain door H 600 x W 400	NSYDCRN64
Glazed door H 400 x W 300	NSYDCRN43T	Plain door H 600 x W 500	NSYDCRN65
Glazed door H 400 x W 400	NSYDCRN44T	Plain door H 600 x W 600	NSYDCRN66
Glazed door H 400 x W 600	NSYDCRN46T	Plain door H 600 x W 800	NSYDCRN68
Glazed door H 500 x W 400	NSYDCRN54T	Plain door H 700 x W 500	NSYDCRN75
Glazed door H 500 x W 500	NSYDCRN55T	Plain door H 800 x W 600	NSYDCRN86
Glazed door H 600 x W 400	NSYDCRN64T	Plain door H 800 x W 800	NSYDCRN88
Glazed door H 600 x W 500	NSYDCRN65T	Plain door H 1000 x W 600	NSYDCRN106
Glazed door H 600 x W 600	NSYDCRN66T	Plain door H 1000 x W 800	NSYDCRN108
Glazed door H 600 x W 800	NSYDCRN68T	Door accessories	
Glazed door H 700 x W 500	NSYDCRN75T	Standard Spacial hinge	NSYBICRN
Glazed door H 800 x W 600	NSYDCRN86T	Earthing accessories	
Glazed door H 800 x W 800	NSYDCRN88T	Set of 500 earthing labels	NSYSWMEL
Glazed door H 1000 x W 600	NSYDCRN106T	Locking accessories	
Glazed door H 1000 x W 800	NSYDCRN108T	TCRE1 Lock	NSYTCRE1
Plain door H 200 x W 200	NSYDCRN22	TCRE12 Lock	NSYTCRE12
Plain door H 200 x W 300	NSYDCRN23	Panels	
Plain door H 250 x W 200	NSYDCRN2520	Set of 50 back plugs WM	NSYSWMBP
Plain door H 300 x W 250	NSYDCRN3025	Fixing hardware	
Plain door H 300 x W 300	NSYDCRN33	Screw bag for CRN cable gland-plate	NSYCRNCGPSTDSB
Plain door H 300 x W 400	NSYDCRN34	Sealing	
Plain door H 300 x W 450	NSYDCRN3045	Adhesive sealing gasket 18 x 10 2M	NSYADG2M
Plain door H 400 x W 300	NSYDCRN43	Adhesive sealing gasket 18 x 10 3M	NSYADG3M
Plain door H 400 x W 400	NSYDCRN44	Adhesive sealing gasket 18 x 10 5M	NSYADG5M
Plain door H 400 x W 600	NSYDCRN46	Adhesive sealing gasket 18 x 10 20M	NSYADG20M

PB500373-30



CRNG			
Description	References	Description	References
Doors			
Plain door H 800 x W 600	NSYDCRNG86	Glazed door H 1000 x W 800	NSYDCRNG108T
Plain door left H 800 x W 500	NSYDCRNG85L	Glazed door H 1000 x W 1000	NSYDCRNG1010T
Plain door right H 800 x W 500	NSYDCRNG85R	Glazed door H 1200 x W 600	NSYDCRNG126T
Plain door left H 800 x W 600	NSYDCRNG86L	Glazed door H 1200 x W 600	NSYDCRNG126T
Plain door right H 800 x W 600	NSYDCRNG86R	Glazed door H 1200 x W 800	NSYDCRNG128T
Plain door H 1000 x W 600	NSYDCRNG106	Glazed door H 1200 x W 800	NSYDCRNG128T
Plain door H 1000 x W 800	NSYDCRNG108	Door accessories	
Plain door left H 1000 x W 500	NSYDCRNG105L	Hinge 120°	NSYAEDH120S3D
Plain door right H 1000 x W 500	NSYDCRNG105R	Hinge 180°	NSYAEDH180S3D
Plain door right H 1000 x W 600	NSYDCRNG106R	Locking accessories	
Plain door left H 1000 x W 600	NSYDCRNG106L	3 point lock linkage for Spacial CRNG (H = 800mm)	NSYBTACRNG80
Plain door right H 1000 x W 600	NSYDCRNG106R	3 point lock linkage for Spacial CRNG (H = 1000mm)	NSYBTACRNG100
Plain door left H 1000 x W 600	NSYDCRNG106L	3 point lock linkage for Spacial CRNG (H = 1200mm)	NSYBTACRNG120
Plain door H 1200 x W 600	NSYDCRNG126	3 point lock linkage for Spacial CRNG (H = 1400mm)	NSYBTACRNG140
Plain door H 1200 x W 600	NSYDCRNG126	Earthing accessories	
Plain door H 1200 x W 800	NSYDCRNG128	Set of 500 earthing labels	NSYSWMEL
Plain door right H 1200 x W 500	NSYDCRNG125R	Fixing hardware	
Plain door left H 1200 x W 500	NSYDCRNG125L	100 screws cable gland plate	NSYS3DCGSB
Plain door right H 1200 x W 500	NSYDCRNG125R	Standard screw bag cable gland plate	NSYS3DCGPSTDSB
Plain door left H 1200 x W 500	NSYDCRNG125L	Panels	
Plain door H 1200 x W 600	NSYDCRNG126R	50 caps for holes of hinges WM	NSYSWMCH
Plain door left H 1200 x W 600	NSYDCRNG126L	Set of 50 back plugs WM	NSYSWMBP
Plain door H 1200 x W 600	NSYDCRNG126R	Others accessories	
Plain door left H 1200 x W 600	NSYDCRNG126L	Screw bag for CRN cable gland-plate	NSYCRNCGPSTDSB
Plain door right H 1400 x W 500	NSYDCRNG145R		
Plain door left H 1400 x W 500	NSYDCRNG145L		
Glazed door H 800 x W 600	NSYDCRNG86T		
Glazed door H 1000 x W 600	NSYDCRNG106T		

Selection table

Steel floor-standing enclosures

Steel floor-standing enclosures



PB509800-17

PB502412-23



PB503544-30

Double door stoppers
(2 pieces)

SF		SF	
Description	References	Description	References
Doors		Fixing hardware for side panel	
Spacial SFP plain door H 2000 x W 700 mm	NSYSFD207	Captive screws for panels external fixing	NSYCSSF
Spacial SFP transparent door H 2000 x W 700 mm	NSYSFD207T	Plinth accessories	
Door accessories		H 100 mm Plastic covers for plinth corners	NSYPC100
Set of 4 Hinges & fixing elements	NSYDHSF	H 200 mm Plastic covers for plinth corners	NSYPC200
Double door stoppers (2 pieces)	NSYDSSF2D	Installation accessories	
Door locking accessories		Set of 2 quick cross-rails 120 x 400 mm	NSYSQCR12040
Locking system for enclosures 1 single door version 1200H (right side door for double door version)	NSYLCK12SF	Set of 2 quick cross-rails 120 x 500 mm	NSYSQCR12050
Locking system for enclosures 1 single door version 1400H	NSYLCK14SF	Set of 2 quick cross-rails 120 x 600 mm	NSYSQCR12060
Locking system for enclosures 1 single door version 1600H (right side door for double door version)	NSYLCK16SF	Set of 2 quick cross-rails 120 x 800 mm	NSYSQCR12080
Locking system for enclosures 1 single door version 1800H (right side door for double door version)	NSYLCK18SF	Panels	
Locking system for enclosures 1 single door version 2000H (right side door for double door version)	NSYLCK20SF	Spacial SFP back panel H 2000 x W 700 mm	NSYBP207
Locking system for enclosures 1 single door version 2200H (right side door for double door version)	NSYLCK22SF	Framework	
Door locking system toothed washer	NSYLCKWSF	8 gaskets framework uprights Spacial SF	NSYSFVG
Handle neutral trim	NSYSFHTRIM		
Handle SF	NSYSFHS1		



PB50272-30

New roof



PB502415-27

Old roof



PB503543-10

Fix roof off-center bracket

SF			SF		
Description	References		Description	References	
Roof	New roof (expanded)	Old roof (integrated)	Roof	New roof (expanded)	Old roof (integrated)
Roof W 300 x D 500 mm	NSYRSF35L	NSYRSF35	Roof W 1000 x D 400 mm	NSYRSF104L	NSYRSF104
Roof W 300 x D 600 mm	NSYRSF36L	NSYRSF36	Roof W 1000 x D 500 mm	NSYRSF105L	NSYRSF105
Roof W 300 x D 800 mm	NSYRSF38L	NSYRSF38	Roof W 1000 x D 600 mm	NSYRSF106L	NSYRSF106
Roof W 400 x D 400 mm	NSYRSF44L	NSYRSF44	Roof W 1000 x D 800 mm	NSYRSF108L	NSYRSF108
Roof W 400 x D 500 mm	NSYRSF45L	NSYRSF45	Roof W 1200 x D 400 mm	NSYRSF124L	NSYRSF124
Roof W 600 x D 400 mm	NSYRSF64L	NSYRSF64	Roof W 1200 x D 500 mm	NSYRSF125L	NSYRSF125
Roof W 600 x D 500 mm	NSYRSF65L	NSYRSF65	Roof W 1200 x D 600 mm	NSYRSF126L	NSYRSF126
Roof W 600 x D 600 mm	NSYRSF66L	NSYRSF66	Roof W 1200 x D 800 mm	NSYRSF128L	NSYRSF128
Roof W 700 x D 500 mm	NSYRSF75L	NSYRSF75	Roof W 1600 x D 400 mm	NSYRSF164L	NSYRSF164
Roof W 700 x D 600 mm	NSYRSF76L	NSYRSF76	Roof W 1600 x D 500 mm	NSYRSF165L	NSYRSF165
Roof W 700 x D 800 mm	NSYRSF78L	NSYRSF78	Roof W 1600 x D 600 mm	NSYRSF166L	NSYRSF166
Roof W 800 x D 400 mm	NSYRSF84L	NSYRSF84	"New roof" accessory		
Roof W 800 x D 500 mm	NSYRSF85L	NSYRSF85	Fix roof off-center bracket	NSYRSFBLR	
Roof W 800 x D 600 mm	NSYRSF86L	NSYRSF86			
Roof W 800 x D 800 mm	NSYRSF88L	NSYRSF88			

Selection table

Steel floor-standing enclosures

Steel floor-standing enclosures

PB502401-26



SM			
Description	References	Description	References
Cable gland plates		Locking accessories	
1 entry W 1000 x D 400 mm	NSYSMEC1041	Locking system for enclosures 1 single door version 1200H (right side door for double door version)	NSYLCK12SF
1 entry W 1000 x D 300 mm	NSYSMEC1031	Locking system for enclosures 1 single door version 1600H (right side door for double door version)	NSYLCK16SF
1 entry W 1000 x D 500 mm	NSYSMEC1051	Locking system for enclosures 1 single door version 1800H (right side door for double door version)	NSYLCK18SF
1 entry W 600 x D 300 mm	NSYSMEC631	Locking system for enclosures 1 single door version 2000H (right side door for double door version)	NSYLCK20SF
1 entry W 600 x D 400 mm	NSYSMEC641	Locking system for enclosures 1 single door version 2200H (right side door for double door version)	NSYLCK22SF
1 entry W 600 x D 500 mm	NSYSMEC651	Locking system for enclosures 1 single door version 1400H	NSYLCK14SF
1 entry W 600 x D 600 mm	NSYSMEC661	Door locking system toothed washer	NSYLCKWSF
1 entry W 800 x D 300 mm	NSYSMEC831	Handle neutral trim	NSYSFHNTRIM
1 entry W 800 x D 400 mm	NSYSMEC841	Plinth accessories	
1 entry W 800 x D 500 mm	NSYSMEC851	H 100 mm Plastic covers for plinth corners	NSYPC100
1 entry W 800 x D 600 mm	NSYSMEC861	H 200 mm Plastic covers for plinth corners	NSYPC200
Doors			
Double plain door H 1200 x W 1000 mm	NSYSMD12102D		
Double plain door H 1200 x W 1200 mm	NSYSMD12122D		
Double plain door H 1400 x W 1000 mm	NSYSMD14102D		
Double plain door H 1400 x W 1200 mm	NSYSMD14122D		
Double plain door H 1600 x W 1000 mm	NSYSMD16102D		
Double plain door H 1600 x W 1200 mm	NSYSMD16122D		
Double plain door H 1800 x W 1600 mm	NSYSMD18162D		
Door accessories			
Set of 4 hinges & fixing elements	NSYDHSF		
Spacial SM hinges & 2D door stop	NSYDHSM2D		
Double door stoppers (2 pieces)	NSYTDSSF2D		

OLN and S6000			
Description	References	Description	References
Doors		Panels	
Plain door H 1800 x W 600 mm	OLPU186	Roof trim neutral 600 mm	NSYTRIM6S6
Plain door H 1800 x W 800 mm	OLPU188	Roof trim neutral 800 mm	NSYTRIM8S6
Plain door H 2000 x W 600 mm	OLPU206	Roof trim neutral 1000 mm	NSYTRIM10S6
Plain door H 2000 x W 800 mm	OLPU208	Side panel H 1800 x W 500	2PLOL185
Plain door H 2000 x W 1000 mm	OLPU2010	Side panel H 1800 x W 600	2PLOL186
Transparent door H 1800 x W 800 mm	OLPU188KT	Side panel H 2000 x W 500	2PLOL205
Transparent door H 2000 x W 800 mm	OLPU208KT	Side panel H 2000 x W 600	2PLOL206
Door accessories		Side panel H 2000 x W 800	2PLOL208
Standard door hinges and pins, 4 units	NSYDHS6		
Standard gasket for gland plate, 2000 mm	NSYGKTS6		
Locking accessories			
Standard handle in RAL 7011 without insert	NSYSDH		
Flat escutcheon DB 5 mm insert	NSYEMPOLN		

CMO and S18500			
Description	References	Description	References
Doors		Locking accessories	
Plain door H 1800 x W 600 mm	OLPU186	Standard handle in RAL 7011	NSYSDH
Plain door H 1800 x W 800 mm	OLPU188	Flat escutcheon DB 5 mm insert	NSYEMPOLN
Plain door H 2000 x W 600 mm	OLPU206	Panels	
Plain door H 2000 x W 800 mm	OLPU208	Roof trim neutral 600 mm	NSYTRIM6S18
Plain door H 2000 x W 1000 mm	OLPU2010	Roof trim neutral 800 mm	NSYTRIM8S18
Transparent door H 1800 x W 800 mm	OLPU188KT	Roof trim neutral 1000 mm	NSYTRIM10S18
Transparent door H 2000 x W 800 mm	OLPU208KT		
Door accessories			
Standard door hinges and pins, 4 units	NSYDHS18		
Standard gasket for gland plate, 2000 mm	NSYGKTS6		

Selection table

Stainless-steel enclosures

Stainless-steel enclosures

PB500075-40



S3X (wall-mounting)			
Description	References	Description	References
Doors			
Left door 304L 1000 x 1000 mm	NSYDS3X1010L	Plain door 316L 400 x 600 mm	NSYDS3X46H
Left door 316L 1000 x 1000 mm	NSYDS3X1010LH	Plain door 304L 500 x 400 mm	NSYDS3X54
Right door 304L 1000 x 1000 mm	NSYDS3X1010R	Plain door 316L 500 x 400 mm	NSYDS3X54H
Right door 316L 1000 x 1000 mm	NSYDS3X1010RH	Plain door 304L 600 x 400 mm	NSYDS3X64
Plain door 304L 1000 x 800 mm	NSYDS3X108	Plain door 316L 600 x 400 mm	NSYDS3X64H
Plain door 316L 1000 x 800 mm	NSYDS3X108H	Plain door 304L 600 x 600 mm	NSYDS3X66
Left door 304L 1200 x 1000 mm	NSYDS3X1210L	Plain door 316L 600 x 600 mm	NSYDS3X66H
Left door 316L 1200 x 1000 mm	NSYDS3X1210LH	Plain door 304L 700 x 500 mm	NSYDS3X75
Right door 304L 1200 x 1000 mm	NSYDS3X1210R	Plain door 316L 700 x 500 mm	NSYDS3X75H
Right door 316L 1200 x 1000 mm	NSYDS3X1210RH	Plain door 304L 800 x 600 mm	NSYDS3X86
Plain door 304L 1200 x 800 mm	NSYDS3X128	Plain door 316L 800 x 600 mm	NSYDS3X86H
Plain door 316L 1200 x 800 mm	NSYDS3X128H	Plain door 304L 800 x 800 mm	NSYDS3X88
Plain door 304L 300 x 200 mm	NSYDS3X32	Plain door 316L 800 x 800 mm	NSYDS3X88H
Plain door 304L 300 x 250 mm	NSYDS3X325	Transp. door 304L 1000 x 800 mm	NSYDS3X108T
Plain door 316L 300 x 250 mm	NSYDS3X325H	Transp. door 304L 400 x 300 mm	NSYDS3X43T
Plain door 316L 300 x 200 mm	NSYDS3X32H	Transp. door 304L 500 x 400 mm	NSYDS3X54T
Plain door 304L 300 x 300 mm	NSYDS3X33	Transp. door 304L 600 x 400 mm	NSYDS3X64T
Plain door 316L 300 x 300 mm	NSYDS3X33H	Transp. door 304L 700 x 500 mm	NSYDS3X75T
Plain door 304L 400 x 300 mm	NSYDS3X43	Transp. door 304L 800 x 600 mm	NSYDS3X86T
Plain door 316L 400 x 300 mm	NSYDS3X43H	Door accessories	
Plain door 304L 400 x 400 mm	NSYDS3X44	Set of 2 hinges	NSYHS3X
Plain door 316L 400 x 400 mm	NSYDS3X44H	Locking accessories	
Plain door 304L 400 x 600 mm	NSYDS3X46	Locking system 1000 mm	NSYLSS3X10
		Locking system 1200 mm	NSYLSS3X12

PB500138-45



SMX (floor-standing)			
Description	References	Description	References
Cable gland plates			
Cable gland plate SMX64/SFX65	NSYCEX2	Door 304L 1800 x 800 mm	NSYDSFX188
Cable gland p. SDX85/SMX85/SFX86	NSYCEX7	Door 316L 1800 x 800 mm	NSYDSFX188H
Cable gland plate SMX103	NSYCEX10	Left door 304L 1800 x 1600 mm	NSYDSFX1816L
Cable gland plate SMX104	NSYCEX11	Left door 316L 1800 x 1600 mm	NSYDSFX1816LH
Cable gland plate SMX104 316L	NSYCEX12	Right door 304L 1800 x 1600 mm	NSYDSFX1816R
Cable gland plate SMX124	NSYCEX14	Right door 316L 1800 x 1600 mm	NSYDSFX1816RH
Cable gland plate SMX124 316L	NSYCEX15	Left door 2000 x 1000 mm	NSYDSFX2010L
Cable gland plate SMX125 316L	NSYCEX17	Left door 316L 2000 x 1000 mm	NSYDSFX2010LH
Cable gland plate SMX84/SMX164	NSYCEX5	Right door 2000 x 1000 mm	NSYDSFX2010R
Cable gland plate SMX166	NSYCEX8	Right door 316L 2000 x 1000 mm	NSYDSFX2010RH
Cable gland plate SMX166 316L	NSYCEX9	Door 1800 x 800 mm	NSYDSFX206
Cable gland plate SMX84/SMX164 316L	NSYCEX6	Left door 2000 x 1200 mm	NSYDSFX2012L
Cable gland plate SDX125/SMX125	NSYCEX16	Left door 316L 2000 x 1200 mm	NSYDSFX2012LH
Doors			
Left door 304L 1400 x 1000 mm	NSYDSFX1410L	Right door 2000 x 1200 mm	NSYDSFX2012R
Right door 304L 1400 x 1000 mm	NSYDSFX1410R	Right door 316L 2000 x 1200 mm	NSYDSFX2012RH
Door 304L 1600 x 800 mm	NSYDSFX168	Door 2000 x 800 mm	NSYDSFX208
Door 304L 1800 x 600 mm	NSYDSFX186	Left door 2000 x 1600 mm	NSYDSFX2016L
Left door 1800 x 1200 mm	NSYDSFX1812L	Left door 316L 2000 x 1600 mm	NSYDSFX2016LH
Left door 316L 1800 x 1200 mm	NSYDSFX1812LH	Right door 2000 x 1600 mm SMX	NSYDSFX2016R
Right door 1800 x 1200 mm	NSYDSFX1812R	Right door 316L 2000 x 1600 mm	NSYDSFX2016RH
Right door 316L 1800 x 1200 mm	NSYDSFX1812RH	Locking accessories	
		Locking system H = 1400 mm	NSYLSSF14
		Locking system H = 1600 mm	NSYLSSF16
		Locking system H = 1800 mm	NSYLSSF18
		Locking system H = 2000 mm	NSYLSSF20
		Door accessories	
		Double door stoppers (2 pieces)	NSYTDSSF2D

Selection table

Stainless-steel enclosures and insulating materials

Stainless-steel enclosures



PB501254-36

SFX (floor-standing)			
Description	References	Description	References
Cable gland plates			
Cable gland plate SFX64	NSYCEX1	Door 1800 x 800 mm	NSYDSFX206
Cable gland plate SMX64/SFX65	NSYCEX2	Left door 2000 x 1200 mm	NSYDSFX2012L
Cable gland p. SDX85/SMX85/SFX86	NSYCEX7	Right door 2000 x 1200 mm	NSYDSFX2012R
Cable gland plate SFX84	NSYCEX4	Door 2000 x 800 mm	NSYDSFX208
Cable gland plate SDX105/SFX106	NSYCEX13	Left door 2000 x 1600 mm	NSYDSFX2016L
Cable gland plate SDX65/SFX126	NSYCEX3	Right door 2000 x 1600 mm	NSYDSFX2016R
Cable gland plate 800x400 mm SFX	NSYCEX84A	Door accessories	
Doors			
Door 304L 1800 x 600 mm	NSYDSFX186	Set of 3 hinges	NSYHSMX
Left door 1800 x 1200 mm	NSYDSFX1812L	Double door stoppers (2 pieces)	NSYTDSSF2D
Right door 1800 x 1200 mm	NSYDSFX1812R	Locking accessories	
Door 304L 1800 x 800 mm	NSYDSFX188	Locking system H = 1400 mm	NSYLSAFX14
Left door 2000 x 1000 mm	NSYDSFX2010L	Locking system H = 1600 mm	NSYLSAFX16
Right door 2000 x 1000 mm	NSYDSFX2010R	Locking system H = 1800 mm	NSYLSAFX18
		Locking system H = 2000 mm	NSYLSAFX20

Insulating materials



PB5013478E-29

PLA (floor-standing)			
Description	References	Description	References
Complete door			
(door + lock + hinges)	For RAL7035	Door 1250 x 500. Lock handle type. Door opening 180° + Accessory bag 120° hinge	NSYDPLA125HG
Door 500 x 500. Lock handle type. Door opening 120°	NSYDPLA55G	Door 1250 x 750. Lock handle type. Door opening 180° + Accessory bag 120° hinge	NSYDPLA127HG
Door 500 x 750. Lock handle type. Door opening 120°	NSYDPLA57G	Door 1500 x 500. Lock handle type. Door opening 180° + Accessory bag 120° hinge	NSYDPLA155HG
Door 750 x 500. Lock handle type. Door opening 120°	NSYDPLA75G	Door 1500 x 750. Lock handle type. Door opening 180° + Accessory bag 120° hinge	NSYDPLA157HG
Door 750 x 750. Lock handle type. Door opening 120°	NSYDPLA77G	Door accessories	
Door 1000 x 500. Lock handle type. Door opening 120°	NSYDPLA105G	One hinge + axe for PLA (120° opening)	NSYAEDPLA004
Door 1000 x 750. Lock handle type. Door opening 120°	NSYDPLA107G	Kit of axes of door PLAZT (180° opening)	NSYAEDPLA005
Door 1250 x 500. Lock handle type. Door opening 120°	NSYDPLA125G	Rod guide inside the door PLA (set of 2)	NSYAEDPLA001
Door 1250 x 750. Lock handle type. Door opening 120°	NSYDPLA127G	Rod guide on 1 door PLA (set of 2)	NSYAEDPLA002G
Door 1500 x 500. Lock handle type. Door opening 120°	NSYDPLA155G	Rod guide on 2 doors PLA (set of 2)	NSYAEDPLA003G
Door 1500 x 750. Lock handle type. Door opening 120°	NSYDPLA157G	Fixing hardware	
Door 500 x 500. Lock handle type. Door opening 180° + Accessory bag 120° hinge	NSYDPLA55HG	Acc. bag for 1 door H = 500-1000 mm	NSYASPLA001
Door 500 x 750. Lock handle type. Door opening 180° + Accessory bag 120° hinge	NSYDPLA57HG	Acc. bag for 2 door H = 1250-1500 mm	NSYASPLA002
Door 750 x 500. Lock handle type. Door opening 180° + Accessory bag 120° hinge	NSYDPLA75HG	Acc. bag for 2 door	NSYASPLA003
Door 750 x 750. Lock handle type. Door opening 180° + Accessory bag 120° hinge	NSYDPLA77HG	Locking accessories	
Door 1000 x 500. Lock handle type. Door opening 180° + Accessory bag 120° hinge	NSYDPLA105HG	Handle locking and rods H = 500 mm	NSYVPLA5MG
Door 1000 x 750. Lock handle type. Door opening 180° + Accessory bag 120° hinge	NSYDPLA107HG	Handle locking and rods H = 750 mm	NSYVPLA7MG
		Handle locking and rods H = 1000 mm	NSYVPLA10MG
		Handle locking and rods H = 1250 mm	NSYVPLA12MG
		Handle locking and rods H = 1500 mm	NSYVPLA15MG
		Plinths - front or back plate	
		For PLA 500 mm width	NSYZZ5FP
		For PLA 700 mm width	NSYZZ7FP
		For PLA 1000 mm width	NSYZZ10FP
		For PLA 1200 mm width	NSYZZ12FP

Selection table

Insulating materials and HMI

Insulating materials



P8501325SE-32

PLM (wall-mounting)			
Description	References	Description	References
Complete door (door + lock system)	For RAL7035	Door accessories	
Door with locking for PLM32	NSYDPLM32G	Door hinge for NSYPLM32	NSYAEDHPLM32
Door with locking for PLM3025	NSYDPLM3025G	Door hinge for NSYPLM3025	NSYAEDHPLM3025
Door with locking for PLM43	NSYDPLM43G	Door hinge for NSYPLM43 to 86	NSYAEDHPLM
Door with locking for PLM54	NSYDPLM54G	Door hinge for NSYPLM108	NSYAEDHPLM108
Door with locking for PLM64	NSYDPLM64G	Rod guides (4 pieces) for PLM108	NSYAEDPLM108
Door with locking for PLM75	NSYDPLM75G	Fixing hardware	
Door with locking for PLM86	NSYDPLM86G	Acc. bag NSYPLM32	NSYASPLM32
Door with locking for PLM108	NSYDPLM108G	Acc. bag NSYPLM43 to 86	NSYASPLM
Transp. door with locking for PLM32T	NSYDPLM32T	Locking accessories	
Glazed door with locking for PLM3025T	NSYDPLM3025TG	Locking and rods for NSYPLM108	NSYVPLM108
Glazed door with locking for PLM43T	NSYDPLM43TG		
Glazed door with locking for PLM54T	NSYDPLM54TG		
Glazed door with locking for PLM64T	NSYDPLM64TG		
Glazed door with locking for PLM75T	NSYDPLM75TG		
Glazed door with locking for PLM86T	NSYDPLM86TG		
Glazed door with locking for PLM108T	NSYDPLM108TG		

Applicative and customised solutions: HMI



P8501202-36

SD			
Description	References	Description	References
Cable gland plates		Cover W 600 mm for modular console	NSYMCCSD6
1 entry W 600 mm	NSYCESD6R	Frontal door W 600 mm	NSYDSD6
1 entry W 800 mm	NSYCESD8R	Frontal door W 800 mm	NSYDSD8
1 entry W 1000 mm	NSYCESD10R	Frontal right door W 1000 mm	NSYDSD10R
1 entry W 1200 mm	NSYCESD12R	Frontal left door W 1000 mm	NSYDSD10L
1 entry W 600 x D 800 mm	NSYFCESD68	Frontal right door W 1200 mm	NSYDSD12R
1 entry W 800 x D 800 mm	NSYFCESD88	Frontal left door W 1200 mm	NSYDSD12L
1 entry W 1000 x D 800 mm	NSYFCESD108	Frontal door w/console W 800 mm	NSYDSD8F
1 entry W 1200 x D 800 mm	NSYFCESD128	Front. R door w/console W 1000 mm	NSYDSD10R
1 entry W 1600 x D 800 mm	NSYFCESD168	Front. L door w/console W 1000 mm	NSYDSD10L
1 entry W 800 x D 1000 mm	NSYFCESD810	Front. R door w/console W 1200 mm	NSYDSD12R
1 entry W 1000 x D 1000 mm	NSYFCESD1010	Front. L door w/console W 1200 mm	NSYDSD12L
1 entry W 1200 x D 1000 mm	NSYFCESD1210	Front. R door w/console W 1600 mm	NSYDSD16R
1 entry W 1600 x D 1000 mm	NSYFCESD1610	Front. L door w/console W 1600 mm	NSYDSD16L
Doors		Door accessories	
Desk lid W 600 mm	NSYDLSD6	Hinges compact control desk	NSYHSD
Desk lid W 800 mm	NSYDLSD8	Hinges control desk w/console	NSYHSDF
Desk lid W 1000 mm	NSYDLSD10	Locking accessories	
Desk lid W 1200 mm	NSYDLSD12	Standard handle in RAL 7011	NSYSDH
Desk lid for w/console W 800 mm	NSYDLSD8F	Flat escutcheon DB 5 mm insert	NSYEMPOLN
Desk lid for w/console W 1000 mm	NSYDLSD10F	Lock w/DB 3 mm for frontal doors	NSYFDLSD
Desk lid for w/console W 1200 mm	NSYDLSD12F	Lock w/DB 3 mm desk lids & covers	NSYDLLSDF
Desk lid for w/console W 1600 mm	NSYDLSD16F	Flat escutcheon with DB 5 mm	NSYDSDFLCKDB5
Folding console cover W 800 mm	NSYCCSDF8	Panels	
Folding console cover W 1000 mm	NSYCCSDF10	Rear panel W 600 mm	NSYBPSD6
Folding console cover W 1200 mm	NSYCCSDF12	Rear panel W 800 mm	NSYBPSD8
Folding console cover W 1600 mm	NSYCCSDF16	Rear panel W 1000 mm	NSYBPSD10
Cover W 400 mm for modular console	NSYMCCSD4	Rear panel W 1200 mm	NSYBPSD12

Selection table

HMI and EMC

Applicative and customised solutions: HMI

PB501267-38



SDX			
Description	References	Description	References
Cable gland plates			
Cable gland pl. SDX85/SMX85/SFX86	NSYCEX7		
Cable gland plate SDX105/SFX106	NSYCEX13		
Cable gland plate SDX125/SMX125	NSYCEX16		
Cable gland plate SDX65/SFX126	NSYCEX3		
Doors			
Frontal door 600 mm	NSYDSDX6		
Frontal door 800 mm	NSYDSDX8		
Frontal right door 1000 mm	NSYDSDX10R		
Frontal right door 1200 mm	NSYDSDX12R		
Frontal left door 1000 mm	NSYDSDX10L		
Frontal left door 1200 mm	NSYDSDX12L		
Desk lid 1000 mm	NSYDLSDX10		
Desk lid 1200 mm	NSYDLSDX12		
Desk lid 600 mm	NSYDLSDX6		
Desk lid 800 mm	NSYDLSDX8		
		Locking accessories	
		Locking system	NSYLSSDX
		Panels	
		Rear panel 1000 mm	NSYBPSDX10
		Rear panel 1200 mm	NSYBPSDX12
		Rear panel 600 mm	NSYBPSDX6
		Rear panel 800 mm	NSYBPSDX8

PB500300-36



S3CM			
Description	References	Description	References
Doors			
Plain door H 200 x W 200	NSYDCRN22		
Plain door H 200 x W 300	NSYDCRN23		
Plain door H 250 x W 200	NSYDCRN2520		
Plain door H 300 x W 250	NSYDCRN3025		
Plain door H 300 x W 300	NSYDCRN33		
Plain door H 300 x W 400	NSYDCRN34		
Plain door H 300 x W 450	NSYDCRN3045		
Plain door H 400 x W 300	NSYDCRN43		
Plain door H 400 x W 400	NSYDCRN44		
Plain door H 400 x W 600	NSYDCRN46		
Plain door H 500 x W 500	NSYDCRN55		
Plain door H 600 x W 600	NSYDCRN66		
Plain door H 600 x W 800	NSYDCRN68		
Plain door H 800 x W 600	NSYDCRN86		
		Door accessories	
		Standard Spacial hinge	NSYBICRN
		Earthing accessories	
		Set of 500 earthing labels	NSYSWMEL
		Panels	
		Aluminium plate H 250 x W 600	NSYPACMT256
		Aluminium plate H 300 x W 300	NSYPAS3CM33
		Aluminium plate H 300 x W 400	NSYPAS3CM34
		Aluminium plate H 400 x W 400	NSYPAS3CM44
		Aluminium plate H 400 x W 600	NSYPAS3CM46
		Aluminium plate H 500 x W 500	NSYPAS3CM55
		Aluminium plate H 600 x W 600	NSYPAS3CM66
		Aluminium plate H 600 x W 800	NSYPAS3CM68
		Aluminium plate H 800 x W 600	NSYPAS3CM86

Applicative and customised solutions: EMC

PB500205-42



S3HF			
Description	References	Description	References
Doors			
Plain door H 400 x W 300	NSYDS3HF43		
Plain door H 400 x W 600	NSYDS3HF46		
Plain door H 500 x W 400	NSYDS3HF54		
Plain door H 600 x W 400	NSYDS3HF64		
Plain door H 600 x W 600	NSYDS3HF66		
Plain door H 700 x W 500	NSYDS3HF75		
Plain door H 800 x W 600	NSYDS3HF86		
Plain door H 1000 x W 800	NSYDS3HF108		
Plain door H 1200 x W 800	NSYDS3HF128		
		Earthing accessories	
		Set of 500 earthing labels	NSYSWMEL
		Locking accessories	
		Standard Locking system	NSYAEDLS3HFDB3

Selection table

ATEX and Heavy duty

Applicative and customised solutions: ATEX

PB500096



S3DEX			
Description	References	Description	References
Doors			
Plain door 300 x 200	NSYDS3D32	Set of 10 linkage guides	NSYS3DLG
Plain door 300 x 300	NSYDS3D33	Standard key DB3	NSYAEDLS3DKDB3
Plain door 400 x 300	NSYDS3D43	3 point lock linkage H 600 mm	NSYBTAS3D60
Plain door 400 x 400	NSYDS3D44	3 point lock linkage H 700 mm	NSYBTAS3D70
Plain door 500 x 400	NSYDS3D54	3 point lock linkage H 800 mm	NSYBTAS3D80
Plain door 600 x 400	NSYDS3D64	3 point lock linkage H 1000 mm	NSYBTAS3D100
Plain door 600 x 600	NSYDS3D66	Panels	
Plain door 700 x 500	NSYDS3D75	50 caps for holes of hinges WM	NSYSWMCH
Plain door 800 x 600	NSYDS3D86	Set of 50 back plugs WM	NSYSWMBP
Plain door 1000 x 800	NSYDS3D108	Earthing accessories	
Set of 500 earthing labels		NSYSWMEL	

Outdoor Heavy Duty enclosures

PB502845-21



Thalassa PHD			
Description	References	Description	References
Aluminium cable-gland plate			
For enclosure W 750 x D 420	NSYPPC74HD	Door accessories	
For enclosure W 750 x D 620	NSYPPC76HD	Set of 4 complete hinges for PHD	NSYAEDPHD
For enclosure W 500 x D 420	NSYPPC54HD	Locking accessories	
For enclosure W 1250 x D 420	NSYPPC54HD + NSYPPC74HD	Complete lock system for PHD H 500	NSYVPHD5
For enclosure W 1250 x D 620	NSYPPC56HD + NSYPPC76HD	Complete lock system for PHD H 750	NSYVPHD7
Screws and nuts for PHD gland plate (10 units)	NSYPPCPHDSN	Complete lock system for PHD H 1000	NSYVPHD10
Plain doors (door + lock + hinges + door retainer)		Complete lock system for PHD H 1250	NSYVPHD12
	Unic door or right door	Complete lock system for PHD H 1500	NSYVPHD15
	Left door	Complete lock system for PHD H 2000	2 x NSYVPHD10
For enclosures H 538 x W 500	NSYDPHD55P	Ventilated plinths - front or back plate	
For enclosures H 788 x W 500	NSYDPHD75P	For PHD 1200 mm width	NSYZZ12VHDFP
For enclosures H 843 x W 750	NSYDPHD77P	For PHD 500 mm width	NSYZZ5VHDFP
For enclosures H 1093 x W 500	NSYDPHD105P	For PHD 700 mm width	NSYZZ7VHDFP
For enclosures H 1093 x W 750	NSYDPHD107P		
For enclosures H 1343 x W 500	NSYDPHD125P		
For enclosures H 1343 x W 750	NSYDPHD127P		
For enclosures H 1343 x W 1250	NSYDPHD127P		
For enclosures H 1593 x W 750	NSYDPHD157P		
For enclosures H 1593 x W 1250	NSYDPHD157P		
For enclosures H 2093 x W 750	2 x NSYDPHD107P		
Ribbed doors (door + lock + hinges + door retainer)			
	Unic door or right door		
	Left door		
For enclosures H 538 x W 500	NSYDPHD55R		
For enclosures H 788 x W 500	NSYDPHD75R		
For enclosures H 843 x W 750	NSYDPHD77R		
For enclosures H 1093 x W 500	NSYDPHD105R		
For enclosures H 1093 x W 750	NSYDPHD107R		
For enclosures H 1343 x W 500	NSYDPHD125R		
For enclosures H 1343 x W 750	NSYDPHD127R		
For enclosures H 1343 x W 1250	NSYDPHD127R		
For enclosures H 1593 x W 750	NSYDPHD157R		
For enclosures H 1593 x W 1250	NSYDPHD157R		
For enclosures H 2093 x W 750	2 x NSYDPHD107R		

Selection table

Heavy duty

Outdoor Heavy Duty enclosures

PB502683-17



Spacial S3HD			
Description	References	Description	References
Heavy duty cable-gland plate			
For enclosure H 343 x W 200 x D 180	NSYTLAUHD	Hinge	
For enclosure H 448 x W 300 x D 230	NSYTLCUHD	S3HD hinge	NSYAEDH120S3HD
For enclosure H 548 x W 400 x D 230	NSYTLDUHD	Canopy	
For enclosure H 653 x W 400 x D 280	NSYTLDUHD	Canopy for S3HD 200 (W) x 150 (P)	NSYJ2015HD
For enclosure H 658 x W 600 x D 330	NSYTLGUHD	Canopy for S3HD 300 (W) x 200 (P)	NSYJ3020HD
For enclosure H 753 x W 500 x D 280	NSYTLUHD	Canopy for S3HD 400 (W) x 200 (P)	NSYJ4020HD
For enclosure H 858 x W 600 x D 330	NSYTLGUHD	Canopy for S3HD 400 (W) x 250 (P)	NSYJ4025HD
For enclosure H 862 x W 800 x D 430	2 x NSYTLDUHD	Canopy for S3HD 600 (W) x 300 (P)	NSYJ6030HD
For enclosure H 1062 x W 600 x D 430	NSYTLGUHD	Canopy for S3HD 500 (W) x 250 (P)	NSYJ5025HD
For enclosure H 1062 x W 800 x D 430	2 x NSYTLDUHD	Canopy for S3HD 800 (W) x 400 (P)	NSYJ8040HD
Door			
Door 300 x 200 S3HD, without handle	NSYDS3HD32	Lock	
Door 400 x 300 S3HD, without handle	NSYDS3HD43	Lock S3HD DB 3 mm (Escutcheon+cam+washer)	NSYAEDLS3HDRL
Door 500 x 400 S3HD, without handle	NSYDS3HD54		
Door 600 x 400 S3HD + linkage locking syst	NSYDS3HD64		
Door 600 x 600 S3HD + linkage locking syst	NSYDS3HD66		
Door 700 x 500 S3HD + linkage locking syst	NSYDS3HD75		
Door 800 x 600 S3HD + linkage locking syst	NSYDS3HD86		
Door 800 x 800 S3HD + linkage locking syst	NSYDS3HD88		
Door 1000 x 600 S3HD + linkage locking syst	NSYDS3HD106		
Door 1000 x 800 S3HD + linkage locking syst	NSYDS3HD108		

PB502683-17



Spacial SFHD			
Description	References	Description	References
Heavy duty cable-gland plate			
For enclosure H 1262 x W 600 x D 430	NSYSFECA64HD	Back Panel	
For enclosure H 1262 x W 800 x D 430	NSYSFECA64HD	Back panel SFHD 1200 x 600mm	NSYBPHD126
For enclosure H 1262 x W 1200 x D 430	2 x NSYSFECA64HD	Back panel SFHD 1200 x 800mm	NSYBPHD128
For enclosure H 1281 x W 600 x D 630	NSYSFECA66HD	Back panel SFHD 1200 x 1200mm	NSYBPHD12122D
For enclosure H 1281 x W 800 x D 630	NSYSFECA66HD	Back panel SFHD 1600 x 600mm	NSYBPHD166
For enclosure H 1281 x W 1200 x D 630	2 x NSYSFECA66HD	Back panel SFHD 1600 x 800mm	NSYBPHD168
For enclosure H 1662 x W 800 x D 430	NSYSFECA64HD	Back panel SFHD 1600 x 1200mm	NSYBPHD1612
For enclosure H 1662 x W 1200 x D 430	2 x NSYSFECA64HD	Back panel SFHD 2000 x 800mm	NSYBPHD208
For enclosure H 1681 x W 600 x D 630	NSYSFECA66HD	Canopy	
For enclosure H 1681 x W 800 x D 630	NSYSFECA66HD	Canopy SFHD 600 x 400mm	NSYSC64HD
For enclosure H 1681 x W 1200 x D 630	2 x NSYSFECA66HD	Canopy SFHD 600 x 600mm	NSYSC66HD
For enclosure H 2062 x W 800 x D 430	NSYSFECA64HD	Canopy SFHD 800 x 400mm	NSYSC84HD
Door			
Plain door SFHD 1200 x 600mm	NSYSFDHD126	Canopy SFHD 800 x 600mm	NSYSC86HD
Plain door SFHD 1200 x 800mm	NSYSFDHD128	Canopy SFHD 1200 x 400mm	NSYSC124HD
Plain door SFHD 1200 x 1200mm	NSYSFDHD12122D	Canopy SFHD 1200 x 600mm	NSYSC126HD
Plain door SFHD 1600 x 600mm	NSYSFDHD166	Handle with 1242E cylindrical barrel	
Plain door SFHD 1600 x 800mm	NSYSFDHD168	Handle SFHD 1242E	NSYSFHS1HD
Plain door double SFHD 1600 x 1200mm	NSYSFDHD16122D	Captive screws	
Plain door SFHD 2000 x 800mm	NSYSFDHD208	Captive screws for Spacial SFHD panels	NSYCSSFHD

Selection table

ClimaSys



AIR-AIR EXCHANGERS

Reference	Exchanger Battery	Fan (Fan + Capacitor)	Frontal Cover RAL 7035	Thermostat	Mounting Kit (instruction + full seal + screws)
NSYCEA14E	NSYCUSP0030	NSYCUSP0042	NSYCUSP0076	-	NSYCUSP0111
NSYCEA22E	NSYCUSP0177	NSYCUSP0042	NSYCUSP0181	-	NSYCUSP0184
NSYCEA36	NSYCUSP0031	NSYCUSP0044	NSYCUSP0077	NSYCUSP0100	NSYCUSP0112
NSYCEA50	NSYCUSP0032	NSYCUSP0044	NSYCUSP0077	NSYCUSP0100	NSYCUSP0112
NSYCEA80	NSYCUSP0033	NSYCUSP0138	NSYCUSP0078	NSYCUSP0100	NSYCUSP0113

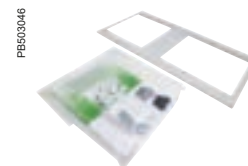
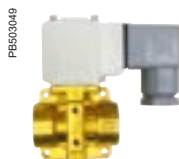


AIR-WATER EXCHANGERS

Reference	Exchanger Battery	Fan (Fan + Capacitor)	Frontal Cover RAL 7035	Frontal Cover Stainless Steel
NSYCEW1K	NSYCUSP0034	NSYCUSP0043	NSYCUSP0079	-
NSYCEWX1K	NSYCUSP0034	NSYCUSP0043	-	NSYCUSP0094
NSYCEW1KUL	NSYCUSP0034	NSYCUSP0043	NSYCUSP0079	-
NSYCEWX1KUL	NSYCUSP0034	NSYCUSP0043	-	NSYCUSP0094
NSYCEW1K8	NSYCUSP0035	NSYCUSP0044	NSYCUSP0080	-
NSYCEWX1K8	NSYCUSP0035	NSYCUSP0044	-	NSYCUSP0095
NSYCEW1K8UL	NSYCUSP0035	NSYCUSP0044	NSYCUSP0080	-
NSYCEWX1K8UL	NSYCUSP0035	NSYCUSP0044	-	NSYCUSP0095
NSYCEW2K5	NSYCUSP0036	NSYCUSP0136	NSYCUSP0080	-
NSYCEWX2K5	NSYCUSP0036	NSYCUSP0136	-	NSYCUSP0095
NSYCEW2K5UL	NSYCUSP0036	NSYCUSP0136	NSYCUSP0080	-
NSYCEWX2K5UL	NSYCUSP0036	NSYCUSP0136	-	NSYCUSP0095
NSYCEW3K5	NSYCUSP0037	NSYCUSP0138	NSYCUSP0081	-
NSYCEWX3K5	NSYCUSP0037	NSYCUSP0138	-	NSYCUSP0096
NSYCEW3K5UL	NSYCUSP0037	NSYCUSP0138	NSYCUSP0081	-
NSYCEWX3K5UL	NSYCUSP0037	NSYCUSP0138	-	NSYCUSP0096
NSYCEW4K5	NSYCUSP0037	NSYCUSP0137	NSYCUSP0081	-
NSYCEWX4K5	NSYCUSP0037	NSYCUSP0137	-	NSYCUSP0096
NSYCEW4K5UL	NSYCUSP0037	NSYCUSP0137	NSYCUSP0081	-
NSYCEWX4K5UL	NSYCUSP0037	NSYCUSP0137	-	NSYCUSP0096
NSYCEW6K	NSYCUSP0038	NSYCUSP0137	NSYCUSP0082	-
NSYCEWX6K	NSYCUSP0038	NSYCUSP0137	-	NSYCUSP0097
NSYCEW6KUL	NSYCUSP0038	NSYCUSP0137	NSYCUSP0082	-
NSYCEWX6KUL	NSYCUSP0038	NSYCUSP0137	-	NSYCUSP0097
NSYCEW6K2P4	NSYCUSP0038	NSYCUSP0137	NSYCUSP0082	-
NSYCEWX6K2P4	NSYCUSP0038	NSYCUSP0137	-	NSYCUSP0097
NSYCEW10K	NSYCUSP0039	NSYCUSP0137	NSYCUSP0083	-
NSYCEWX10K	NSYCUSP0039	NSYCUSP0137	-	NSYCUSP0098
NSYCEW10K2P4	NSYCUSP0039	NSYCUSP0137	NSYCUSP0083	-
NSYCEWX10K2P4	NSYCUSP0039	NSYCUSP0137	-	NSYCUSP0098
NSYCEW15K	NSYCUSP0040	NSYCUSP0137	NSYCUSP0083	-
NSYCEWX15K	NSYCUSP0040	NSYCUSP0137	-	NSYCUSP0098
NSYCEW15K2P4	NSYCUSP0040	NSYCUSP0137	NSYCUSP0083	-
NSYCEWX15K2P4	NSYCUSP0040	NSYCUSP0137	-	NSYCUSP0098
NSYCEW2K5R	NSYCUSP0041	NSYCUSP0053	NSYCUSP0084	-

Selection table

ClimaSys



AIR-WATER EXCHANGERS

Reference	Thermostat	Transformer	Solenoid Valve	Mounting Kit (instruction + full seal + screws)
NSYCEW1K	NSYCUSP0100	-	NSYCUSP0108	NSYCUSP0114
NSYCEWX1K	NSYCUSP0100	-	NSYCUSP0108	NSYCUSP0114
NSYCEW1KUL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0114
NSYCEWX1KUL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0114
NSYCEW1K8	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0124
NSYCEWX1K8	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0124
NSYCEW1K8UL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0124
NSYCEWX1K8UL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0124
NSYCEW2K5	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0124
NSYCEWX2K5	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0124
NSYCEW2K5UL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0124
NSYCEWX2K5UL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0124
NSYCEW3K5	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0115
NSYCEWX3K5	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0115
NSYCEW3K5UL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0115
NSYCEWX3K5UL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0115
NSYCEW4K5	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0115
NSYCEWX4K5	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0115
NSYCEW4K5UL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0115
NSYCEWX4K5UL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0115
NSYCEW6K	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0125
NSYCEWX6K	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0125
NSYCEW6KUL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0125
NSYCEWX6KUL	NSYCUSP0175	-	NSYCUSP0176	NSYCUSP0125
NSYCEW6K2P4	NSYCUSP0100	NSYCUSP0107	NSYCUSP0109	NSYCUSP0125
NSYCEWX6K2P4	NSYCUSP0100	NSYCUSP0107	NSYCUSP0109	NSYCUSP0125
NSYCEW10K	NSYCUSP0100	-	NSYCUSP0110	NSYCUSP0116
NSYCEWX10K	NSYCUSP0100	-	NSYCUSP0110	NSYCUSP0116
NSYCEW10K2P4	NSYCUSP0100	NSYCUSP0107	NSYCUSP0110	NSYCUSP0116
NSYCEWX10K2P4	NSYCUSP0100	NSYCUSP0107	NSYCUSP0110	NSYCUSP0116
NSYCEW15K	NSYCUSP0100	-	NSYCUSP0110	NSYCUSP0116
NSYCEWX15K	NSYCUSP0100	-	NSYCUSP0110	NSYCUSP0116
NSYCEW15K2P4	NSYCUSP0100	NSYCUSP0107	NSYCUSP0110	NSYCUSP0116
NSYCEWX15K2P4	NSYCUSP0100	NSYCUSP0107	NSYCUSP0110	NSYCUSP0116
NSYCEW2K5R	NSYCUSP0100	-	NSYCUSP0109	NSYCUSP0117

Selection table

ClimaSys



COOLING UNITS: SIDE MOUNTING MODELS

Reference	Evaporator Battery	Evaporator Fan (fan + capacitor)	Condenser Battery	Condenser Fan (fan + capacitor)	Compressor Kit
NSYCU300H	NSYCUSP0001	NSYCUSP0042	NSYCUSP0013	NSYCUSP0042	NSYCUSP0054
NSYCU400	NSYCUSP0002	NSYCUSP0042	NSYCUSP0014	NSYCUSP0042	NSYCUSP0055
NSYCU400UL	NSYCUSP0002	NSYCUSP0042	NSYCUSP0014	NSYCUSP0042	NSYCUSP0055
NSYCUX400	NSYCUSP0002	NSYCUSP0042	NSYCUSP0014	NSYCUSP0042	NSYCUSP0055
NSYCU600	NSYCUSP0003	NSYCUSP0043	NSYCUSP0015	NSYCUSP0044	NSYCUSP0056
NSYCUX600	NSYCUSP0003	NSYCUSP0043	NSYCUSP0015	NSYCUSP0044	NSYCUSP0056
NSYCU600UL	NSYCUSP0003	NSYCUSP0043	NSYCUSP0015	NSYCUSP0044	NSYCUSP0056
NSYCUX600UL	NSYCUSP0003	NSYCUSP0043	NSYCUSP0015	NSYCUSP0044	NSYCUSP0056
NSYCU800	NSYCUSP0004	NSYCUSP0043	NSYCUSP0016	NSYCUSP0044	NSYCUSP0057
NSYCUX800	NSYCUSP0004	NSYCUSP0043	NSYCUSP0016	NSYCUSP0044	NSYCUSP0057
NSYCU800UL	NSYCUSP0004	NSYCUSP0043	NSYCUSP0016	NSYCUSP0044	NSYCUSP0057
NSYCUX800UL	NSYCUSP0004	NSYCUSP0043	NSYCUSP0016	NSYCUSP0044	NSYCUSP0057
NSYCU1K	NSYCUSP0004	NSYCUSP0043	NSYCUSP0017	NSYCUSP0044	NSYCUSP0057
NSYCUX1K	NSYCUSP0004	NSYCUSP0043	NSYCUSP0017	NSYCUSP0044	NSYCUSP0057
NSYCU1KUL	NSYCUSP0004	NSYCUSP0043	NSYCUSP0017	NSYCUSP0044	NSYCUSP0057
NSYCUX1KUL	NSYCUSP0004	NSYCUSP0043	NSYCUSP0017	NSYCUSP0044	NSYCUSP0057
NSYCU1K2P4	NSYCUSP0004	NSYCUSP0043	NSYCUSP0017	NSYCUSP0044	NSYCUSP0057
NSYCUX1K2P4	NSYCUSP0004	NSYCUSP0043	NSYCUSP0017	NSYCUSP0044	NSYCUSP0057
NSYCU1K2P4UL	NSYCUSP0004	NSYCUSP0043	NSYCUSP0017	NSYCUSP0044	NSYCUSP0057
NSYCUX1K2P4UL	NSYCUSP0004	NSYCUSP0043	NSYCUSP0017	NSYCUSP0044	NSYCUSP0057
NSYCU1K2	NSYCUSP0005	NSYCUSP0044	NSYCUSP0018	NSYCUSP0136	NSYCUSP0058
NSYCUX1K2	NSYCUSP0005	NSYCUSP0044	NSYCUSP0018	NSYCUSP0136	NSYCUSP0058
NSYCU1K2UL	NSYCUSP0005	NSYCUSP0044	NSYCUSP0018	NSYCUSP0136	NSYCUSP0058
NSYCUX1K2UL	NSYCUSP0005	NSYCUSP0044	NSYCUSP0018	NSYCUSP0136	NSYCUSP0058
NSYCU1K22P4	NSYCUSP0005	NSYCUSP0044	NSYCUSP0018	NSYCUSP0136	NSYCUSP0058
NSYCUX1K22P4	NSYCUSP0005	NSYCUSP0044	NSYCUSP0018	NSYCUSP0136	NSYCUSP0058
NSYCU1K6	NSYCUSP0006	NSYCUSP0044	NSYCUSP0019	NSYCUSP0138	NSYCUSP0059
NSYCUX1K6	NSYCUSP0006	NSYCUSP0044	NSYCUSP0019	NSYCUSP0138	NSYCUSP0059
NSYCU1K6UL	NSYCUSP0006	NSYCUSP0044	NSYCUSP0019	NSYCUSP0138	NSYCUSP0059
NSYCUX1K6UL	NSYCUSP0006	NSYCUSP0044	NSYCUSP0019	NSYCUSP0138	NSYCUSP0059
NSYCU1K62P4	NSYCUSP0006	NSYCUSP0044	NSYCUSP0019	NSYCUSP0138	NSYCUSP0059
NSYCUX1K62P4	NSYCUSP0006	NSYCUSP0044	NSYCUSP0019	NSYCUSP0138	NSYCUSP0059
NSYCU1K62P4UL	NSYCUSP0006	NSYCUSP0044	NSYCUSP0019	NSYCUSP0138	NSYCUSP0059
NSYCUX1K62P4UL	NSYCUSP0006	NSYCUSP0044	NSYCUSP0019	NSYCUSP0138	NSYCUSP0059
NSYCU2K	NSYCUSP0006	NSYCUSP0136	NSYCUSP0020	NSYCUSP0138	NSYCUSP0060
NSYCUX2K	NSYCUSP0006	NSYCUSP0136	NSYCUSP0020	NSYCUSP0138	NSYCUSP0060
NSYCU2KUL	NSYCUSP0006	NSYCUSP0136	NSYCUSP0020	NSYCUSP0138	NSYCUSP0139
NSYCUX2KUL	NSYCUSP0006	NSYCUSP0136	NSYCUSP0020	NSYCUSP0138	NSYCUSP0139
NSYCU2K3P4	NSYCUSP0006	NSYCUSP0136	NSYCUSP0020	NSYCUSP0138	NSYCUSP0061
NSYCUX2K3P4	NSYCUSP0006	NSYCUSP0136	NSYCUSP0020	NSYCUSP0138	NSYCUSP0061
NSYCU2K3P4UL	NSYCUSP0006	NSYCUSP0136	NSYCUSP0020	NSYCUSP0138	NSYCUSP0062
NSYCUX2K3P4UL	NSYCUSP0006	NSYCUSP0136	NSYCUSP0020	NSYCUSP0138	NSYCUSP0062
NSYCU3K3P4	NSYCUSP0007	NSYCUSP0137	NSYCUSP0021	NSYCUSP0137	NSYCUSP0062
NSYCUX3K3P4	NSYCUSP0007	NSYCUSP0137	NSYCUSP0021	NSYCUSP0137	NSYCUSP0062
NSYCU3K3P4UL	NSYCUSP0007	NSYCUSP0137	NSYCUSP0021	NSYCUSP0137	NSYCUSP0062
NSYCUX3K3P4UL	NSYCUSP0007	NSYCUSP0137	NSYCUSP0021	NSYCUSP0137	NSYCUSP0062
NSYCU4K3P4	NSYCUSP0007	NSYCUSP0137	NSYCUSP0022	NSYCUSP0137	NSYCUSP0063
NSYCUX4K3P4	NSYCUSP0007	NSYCUSP0137	NSYCUSP0022	NSYCUSP0137	NSYCUSP0063
NSYCU4K3P4UL	NSYCUSP0007	NSYCUSP0137	NSYCUSP0022	NSYCUSP0137	NSYCUSP0063
NSYCUX4K3P4UL	NSYCUSP0007	NSYCUSP0137	NSYCUSP0022	NSYCUSP0137	NSYCUSP0063
NSYCU6K3P4	-	-	-	-	-
NSYCU6K3P460	-	-	-	-	-
NSYCU8K3P4	-	-	-	-	-
NSYCU8K3P460	-	-	-	-	-
NSYCU10K3P4	-	-	-	-	-
NSYCU10K3P460	-	-	-	-	-
NSYCU15K3P4	-	-	-	-	-
NSYCU15K3P460	-	-	-	-	-

Selection table

ClimaSys

P1030950-19



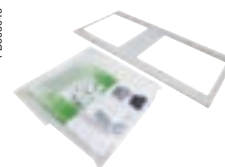
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PB503039



PB503046



COOLING UNITS & SIDE MOUNTING MODELS

Reference	Frontal Cover RAL 7035	Frontal Cover Stainless Steel	Thermostat	Transformer	Mounting Kit (instruction + full seal + screws)
NSYCU300H	NSYCUSP0066	-	NSYCUSP0099	-	NSYCUSP0118
NSYCU400	NSYCUSP0067	-	NSYCUSP0099	-	NSYCUSP0126
NSYCU400UL	NSYCUSP0067	-	NSYCUSP0144	-	NSYCUSP0126
NSYCUX400	-	NSYCUSP0085	NSYCUSP0099	-	NSYCUSP0126
NSYCU600	NSYCUSP0068	-	NSYCUSP0099	-	NSYCUSP0127
NSYCUX600	-	NSYCUSP0086	NSYCUSP0099	-	NSYCUSP0127
NSYCU600UL	NSYCUSP0068	-	NSYCUSP0144	-	NSYCUSP0127
NSYCUX600UL	-	NSYCUSP0086	NSYCUSP0144	-	NSYCUSP0127
NSYCU800	NSYCUSP0069	-	NSYCUSP0099	-	NSYCUSP0119
NSYCUX800	-	NSYCUSP0087	NSYCUSP0099	-	NSYCUSP0119
NSYCU800UL	NSYCUSP0069	-	NSYCUSP0144	-	NSYCUSP0119
NSYCUX800UL	-	NSYCUSP0087	NSYCUSP0144	-	NSYCUSP0119
NSYCU1K	NSYCUSP0069	-	NSYCUSP0099	-	NSYCUSP0119
NSYCUX1K	-	NSYCUSP0087	NSYCUSP0099	-	NSYCUSP0119
NSYCU1KUL	NSYCUSP0069	-	NSYCUSP0144	-	NSYCUSP0119
NSYCUX1KUL	-	NSYCUSP0087	NSYCUSP0144	-	NSYCUSP0119
NSYCU1K2P4	NSYCUSP0069	-	NSYCUSP0099	NSYCUSP0101	NSYCUSP0119
NSYCUX1K2P4	-	NSYCUSP0087	NSYCUSP0099	NSYCUSP0101	NSYCUSP0119
NSYCU1K2P4UL	NSYCUSP0069	-	NSYCUSP0144	NSYCUSP0173	NSYCUSP0119
NSYCUX1K2P4UL	-	NSYCUSP0087	NSYCUSP0144	NSYCUSP0173	NSYCUSP0119
NSYCU1K2	NSYCUSP0070	-	NSYCUSP0099	-	NSYCUSP0120
NSYCUX1K2	-	NSYCUSP0088	NSYCUSP0099	-	NSYCUSP0120
NSYCU1K2UL	NSYCUSP0070	-	NSYCUSP0144	-	NSYCUSP0120
NSYCUX1K2UL	-	NSYCUSP0088	NSYCUSP0144	-	NSYCUSP0120
NSYCU1K22P4	NSYCUSP0070	-	NSYCUSP0099	NSYCUSP0102	NSYCUSP0120
NSYCUX1K22P4	-	NSYCUSP0088	NSYCUSP0099	NSYCUSP0102	NSYCUSP0120
NSYCU1K6	NSYCUSP0070	-	NSYCUSP0099	-	NSYCUSP0120
NSYCUX1K6	-	NSYCUSP0088	NSYCUSP0099	-	NSYCUSP0120
NSYCU1K6UL	NSYCUSP0070	-	NSYCUSP0144	-	NSYCUSP0120
NSYCUX1K6UL	-	NSYCUSP0088	NSYCUSP0144	-	NSYCUSP0120
NSYCU1K62P4	NSYCUSP0070	-	NSYCUSP0099	NSYCUSP0103	NSYCUSP0120
NSYCUX1K62P4	-	NSYCUSP0088	NSYCUSP0099	NSYCUSP0103	NSYCUSP0120
NSYCU1K62P4UL	NSYCUSP0070	-	NSYCUSP0144	NSYCUSP0174	NSYCUSP0120
NSYCUX1K62P4UL	-	NSYCUSP0088	NSYCUSP0144	NSYCUSP0174	NSYCUSP0120
NSYCU2K	NSYCUSP0070	-	NSYCUSP0099	-	NSYCUSP0120
NSYCUX2K	-	NSYCUSP0088	NSYCUSP0099	-	NSYCUSP0120
NSYCU2KUL	NSYCUSP0070	-	NSYCUSP0144	-	NSYCUSP0120
NSYCUX2KUL	-	NSYCUSP0088	NSYCUSP0144	-	NSYCUSP0120
NSYCU2K3P4	NSYCUSP0070	-	NSYCUSP0099	NSYCUSP0104	NSYCUSP0120
NSYCUX2K3P4	-	NSYCUSP0088	NSYCUSP0099	NSYCUSP0104	NSYCUSP0120
NSYCU2K3P4UL	NSYCUSP0070	-	NSYCUSP0144	NSYCUSP0147	NSYCUSP0120
NSYCUX2K3P4UL	-	NSYCUSP0088	NSYCUSP0144	NSYCUSP0147	NSYCUSP0120
NSYCU3K3P4	NSYCUSP0071	-	NSYCUSP0099	NSYCUSP0105	NSYCUSP0128
NSYCUX3K3P4	-	NSYCUSP0089	NSYCUSP0099	NSYCUSP0105	NSYCUSP0128
NSYCU3K3P4UL	NSYCUSP0071	-	NSYCUSP0144	NSYCUSP0148	NSYCUSP0128
NSYCUX3K3P4UL	-	NSYCUSP0089	NSYCUSP0144	NSYCUSP0148	NSYCUSP0128
NSYCU4K3P4	NSYCUSP0071	-	NSYCUSP0099	NSYCUSP0105	NSYCUSP0128
NSYCUX4K3P4	-	NSYCUSP0089	NSYCUSP0099	NSYCUSP0105	NSYCUSP0128
NSYCU4K3P4UL	NSYCUSP0071	-	NSYCUSP0144	NSYCUSP0148	NSYCUSP0128
NSYCUX4K3P4UL	-	NSYCUSP0089	NSYCUSP0144	NSYCUSP0148	NSYCUSP0128
NSYCU6K3P4	-	-	NSYCUSP0099	-	-
NSYCU6K3P460	-	-	NSYCUSP0099	-	-
NSYCU8K3P4	-	-	NSYCUSP0099	-	-
NSYCU8K3P460	-	-	NSYCUSP0099	-	-
NSYCU10K3P4	-	-	NSYCUSP0099	-	-
NSYCU10K3P460	-	-	NSYCUSP0099	-	-
NSYCU15K3P4	-	-	NSYCUSP0099	-	-
NSYCU15K3P460	-	-	NSYCUSP0099	-	-

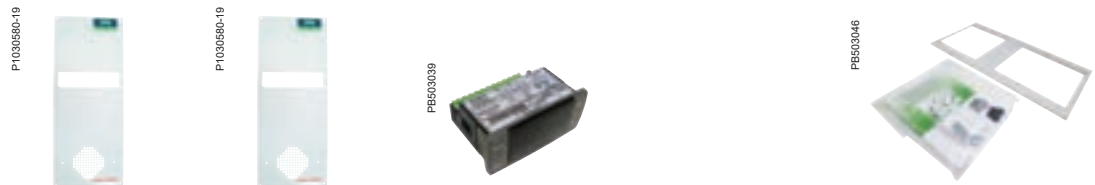
Selection table

ClimaSys



COOLING UNITS: ROOF MOUNT

Reference	Evaporator battery	Evaporator fan (fan + capacitor)	Condenser battery	Condenser fan (fan + capacitor)	Compressor kit
NSYCU400R	NSYCUSP0008	NSYCUSP0047	NSYCUSP0023	NSYCUSP0043	NSYCUSP0064
NSYCUX400R	NSYCUSP0008	NSYCUSP0047	NSYCUSP0023	NSYCUSP0043	NSYCUSP0064
NSYCU400RUL	NSYCUSP0008	NSYCUSP0047	NSYCUSP0023	NSYCUSP0043	NSYCUSP0172
NSYCU800R	NSYCUSP0009	NSYCUSP0044	NSYCUSP0024	NSYCUSP0136	NSYCUSP0065
NSYCUX800R	NSYCUSP0009	NSYCUSP0044	NSYCUSP0024	NSYCUSP0136	NSYCUSP0065
NSYCU800RUL	NSYCUSP0009	NSYCUSP0044	NSYCUSP0024	NSYCUSP0136	NSYCUSP0065
NSYCU1K2R	NSYCUSP0010	NSYCUSP0044	NSYCUSP0025	NSYCUSP0049	NSYCUSP0065
NSYCUX1K2R	NSYCUSP0010	NSYCUSP0044	NSYCUSP0025	NSYCUSP0049	NSYCUSP0065
NSYCU1K2RUL	NSYCUSP0010	NSYCUSP0044	NSYCUSP0025	NSYCUSP0049	NSYCUSP0065
NSYCU1K5R	NSYCUSP0010	NSYCUSP0136	NSYCUSP0026	NSYCUSP0049	NSYCUSP0059
NSYCUX1K5R	NSYCUSP0010	NSYCUSP0136	NSYCUSP0026	NSYCUSP0049	NSYCUSP0059
NSYCU1K5RUL	NSYCUSP0010	NSYCUSP0136	NSYCUSP0026	NSYCUSP0049	NSYCUSP0059
NSYCU2K3P4R	NSYCUSP0011	NSYCUSP0136	NSYCUSP0027	NSYCUSP0049	NSYCUSP0061
NSYCUX2K3P4R	NSYCUSP0011	NSYCUSP0136	NSYCUSP0027	NSYCUSP0049	NSYCUSP0061
NSYCU2K3P4RUL	NSYCUSP0011	NSYCUSP0136	NSYCUSP0027	NSYCUSP0049	NSYCUSP0062
NSYCU2KR	NSYCUSP0011	NSYCUSP0136	NSYCUSP0027	NSYCUSP0049	NSYCUSP0060
NSYCUX2KR	NSYCUSP0011	NSYCUSP0136	NSYCUSP0027	NSYCUSP0049	NSYCUSP0060
NSYCU3K3P4R	NSYCUSP0012	NSYCUSP0136	NSYCUSP0028	NSYCUSP0051	NSYCUSP0062
NSYCUX3K3P4R	NSYCUSP0012	NSYCUSP0136	NSYCUSP0028	NSYCUSP0051	NSYCUSP0062
NSYCU3K3P4RUL	NSYCUSP0012	NSYCUSP0136	NSYCUSP0028	NSYCUSP0051	NSYCUSP0062
NSYCU4K3P4R	NSYCUSP0012	NSYCUSP0137	NSYCUSP0029	NSYCUSP0051	NSYCUSP0063
NSYCUX4K3P4R	NSYCUSP0012	NSYCUSP0137	NSYCUSP0029	NSYCUSP0051	NSYCUSP0063
NSYCU4K3P4RUL	NSYCUSP0012	NSYCUSP0137	NSYCUSP0029	NSYCUSP0051	NSYCUSP0063



Reference	Frontal cover RAL 7035	Frontal cover stainless steel	Thermostat	Transformer	Mounting Kit (instruction + full seal + screws)
NSYCU400R	NSYCUSP0072	-	NSYCUSP0099	-	NSYCUSP0121
NSYCUX400R	-	NSYCUSP0090	NSYCUSP0099	-	NSYCUSP0121
NSYCU400RUL	NSYCUSP0072	-	NSYCUSP0144	-	NSYCUSP0121
NSYCU800R	NSYCUSP0073	-	NSYCUSP0099	-	NSYCUSP0122
NSYCUX800R	-	NSYCUSP0091	NSYCUSP0099	-	NSYCUSP0122
NSYCU800RUL	NSYCUSP0073	-	NSYCUSP0144	-	NSYCUSP0122
NSYCU1K2R	NSYCUSP0074	-	NSYCUSP0099	-	NSYCUSP0129
NSYCUX1K2R	-	NSYCUSP0092	NSYCUSP0099	-	NSYCUSP0129
NSYCU1K2RUL	NSYCUSP0074	-	NSYCUSP0144	-	NSYCUSP0129
NSYCU1K5R	NSYCUSP0074	-	NSYCUSP0099	-	NSYCUSP0129
NSYCUX1K5R	-	NSYCUSP0092	NSYCUSP0099	-	NSYCUSP0129
NSYCU1K5RUL	NSYCUSP0074	-	NSYCUSP0144	-	NSYCUSP0129
NSYCU2K3P4R	NSYCUSP0074	-	NSYCUSP0099	NSYCUSP0104	NSYCUSP0129
NSYCUX2K3P4R	-	NSYCUSP0092	NSYCUSP0099	NSYCUSP0104	NSYCUSP0129
NSYCU2K3P4RUL	NSYCUSP0074	-	NSYCUSP0144	NSYCUSP0147	NSYCUSP0129
NSYCU2KR	NSYCUSP0074	-	NSYCUSP0099	-	NSYCUSP0129
NSYCUX2KR	-	NSYCUSP0092	NSYCUSP0099	-	NSYCUSP0129
NSYCU3K3P4R	NSYCUSP0075	-	NSYCUSP0099	NSYCUSP0106	NSYCUSP0123
NSYCUX3K3P4R	-	NSYCUSP0093	NSYCUSP0099	NSYCUSP0106	NSYCUSP0123
NSYCU3K3P4RUL	NSYCUSP0075	-	NSYCUSP0144	NSYCUSP0148	NSYCUSP0123
NSYCU4K3P4R	NSYCUSP0075	-	NSYCUSP0099	NSYCUSP0105	NSYCUSP0123
NSYCUX4K3P4R	-	NSYCUSP0093	NSYCUSP0099	NSYCUSP0105	NSYCUSP0123
NSYCU4K3P4RUL	NSYCUSP0075	-	NSYCUSP0144	NSYCUSP0148	NSYCUSP0123

Selection table

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COOLING UNITS HEAVY DUTY

Reference	Evaporator battery	Evaporator fan (fan + capacitor)	Condenser battery	Condenser fan (fan + capacitor)	Compressor kit
NSYCUHD400	NSYCUSP0002	NSYCUSP0042	NSYCUSP0158	NSYCUSP0042	NSYCUSP0055
NSYCUHD600	NSYCUSP0003	NSYCUSP0043	NSYCUSP0159	NSYCUSP0044	NSYCUSP0056
NSYCUHD800	NSYCUSP0004	NSYCUSP0043	NSYCUSP0160	NSYCUSP0044	NSYCUSP0057
NSYCUHD1K	NSYCUSP0004	NSYCUSP0043	NSYCUSP0161	NSYCUSP0044	NSYCUSP0057
NSYCUHD1K2P4	NSYCUSP0004	NSYCUSP0043	NSYCUSP0161	NSYCUSP0044	NSYCUSP0057
NSYCUHD1K6	NSYCUSP0006	NSYCUSP0044	NSYCUSP0162	NSYCUSP0138	NSYCUSP0059
NSYCUHD1K62P4	NSYCUSP0006	NSYCUSP0044	NSYCUSP0162	NSYCUSP0138	NSYCUSP0059
NSYCUHD2K3P4	NSYCUSP0006	NSYCUSP0136	NSYCUSP0163	NSYCUSP0138	NSYCUSP0061
NSYCUHD3K3P4	NSYCUSP0007	NSYCUSP0137	NSYCUSP0164	NSYCUSP0137	NSYCUSP0062
NSYCUHD4K3P4	NSYCUSP0007	NSYCUSP0137	NSYCUSP0165	NSYCUSP0137	NSYCUSP0063



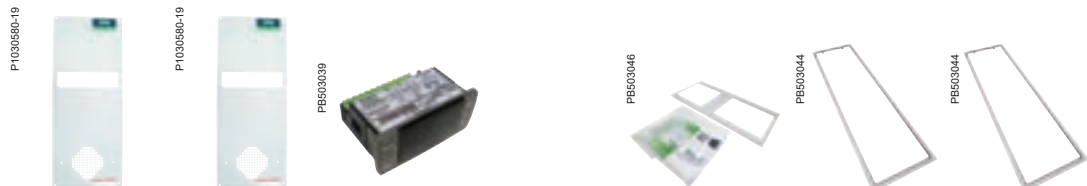
Reference	Frontal cover RAL 7035	Thermostat	Transformer	Mounting Kit (instruction + full seal + screws)
NSYCUHD400	NSYCUSP0167	NSYCUSP0100	-	NSYCUSP0153
NSYCUHD600	NSYCUSP0168	NSYCUSP0100	-	NSYCUSP0154
NSYCUHD800	NSYCUSP0169	NSYCUSP0100	-	NSYCUSP0155
NSYCUHD1K	NSYCUSP0169	NSYCUSP0100	-	NSYCUSP0155
NSYCUHD1K2P4	NSYCUSP0169	NSYCUSP0100	NSYCUSP0101	NSYCUSP0155
NSYCUHD1K6	NSYCUSP0170	NSYCUSP0100	-	NSYCUSP0156
NSYCUHD1K62P4	NSYCUSP0170	NSYCUSP0100	NSYCUSP0103	NSYCUSP0156
NSYCUHD2K3P4	NSYCUSP0170	NSYCUSP0100	NSYCUSP0104	NSYCUSP0156
NSYCUHD3K3P4	NSYCUSP0171	NSYCUSP0100	NSYCUSP0105	NSYCUSP0157
NSYCUHD4K3P4	NSYCUSP0171	NSYCUSP0100	NSYCUSP0105	NSYCUSP0157

Selection table

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COOLING UNITS SLIM					
Reference	Evaporator battery	Evaporator fan (fan + capacitor)	Condenser battery	Condenser fan (fan + capacitor)	Compressor kit
NSYCUS1K1UL	NSYCUSP0130	NSYCUSP0136	NSYCUSP0133	NSYCUSP0136	NSYCUSP0059
NSYCUSX1K1UL	NSYCUSP0130	NSYCUSP0136	NSYCUSP0133	NSYCUSP0136	NSYCUSP0059
NSYCUS1K12P4UL	NSYCUSP0130	NSYCUSP0136	NSYCUSP0133	NSYCUSP0136	NSYCUSP0059
NSYCUSX1K12P4UL	NSYCUSP0130	NSYCUSP0136	NSYCUSP0133	NSYCUSP0136	NSYCUSP0059
NSYCUS1K5UL	NSYCUSP0131	NSYCUSP0136	NSYCUSP0133	NSYCUSP0138	NSYCUSP0059
NSYCUSX1K5UL	NSYCUSP0131	NSYCUSP0136	NSYCUSP0133	NSYCUSP0138	NSYCUSP0059
NSYCUS1K52P4UL	NSYCUSP0131	NSYCUSP0136	NSYCUSP0133	NSYCUSP0138	NSYCUSP0059
NSYCUSX1K52P4UL	NSYCUSP0131	NSYCUSP0136	NSYCUSP0133	NSYCUSP0138	NSYCUSP0059
NSYCUS2KUL	NSYCUSP0131	NSYCUSP0136	NSYCUSP0134	NSYCUSP0138	NSYCUSP0139
NSYCUSX2KUL	NSYCUSP0131	NSYCUSP0136	NSYCUSP0134	NSYCUSP0138	NSYCUSP0139
NSYCUS2K3P4UL	NSYCUSP0131	NSYCUSP0136	NSYCUSP0134	NSYCUSP0138	NSYCUSP0062
NSYCUSX2K3P4UL	NSYCUSP0131	NSYCUSP0136	NSYCUSP0134	NSYCUSP0138	NSYCUSP0062
NSYCUS2K5UL	NSYCUSP0132	NSYCUSP0137	NSYCUSP0135	NSYCUSP0137	NSYCUSP0140
NSYCUSX2K5UL	NSYCUSP0132	NSYCUSP0137	NSYCUSP0135	NSYCUSP0137	NSYCUSP0140
NSYCUS2K53P4UL	NSYCUSP0132	NSYCUSP0137	NSYCUSP0135	NSYCUSP0137	NSYCUSP0062
NSYCUSX2K53P4UL	NSYCUSP0132	NSYCUSP0137	NSYCUSP0135	NSYCUSP0137	NSYCUSP0062
NSYCUS3K2UL	NSYCUSP0132	NSYCUSP0137	NSYCUSP0135	NSYCUSP0137	NSYCUSP0141
NSYCUSX3K2UL	NSYCUSP0132	NSYCUSP0137	NSYCUSP0135	NSYCUSP0137	NSYCUSP0141
NSYCUS3K23P4UL	NSYCUSP0132	NSYCUSP0137	NSYCUSP0135	NSYCUSP0137	NSYCUSP0063
NSYCUSX3K23P4UL	NSYCUSP0132	NSYCUSP0137	NSYCUSP0135	NSYCUSP0137	NSYCUSP0063



Reference	Frontal cover RAL 7035	Frontal cover stainless steel	Thermostat	Transformer	Mounting kit (instruction + full seal + screws)	Metal frame kit (frame + seal + screws)	Metal frame kit stainless steel (frame + seal + screws)
NSYCUS1K1UL	NSYCUSP0142	-	NSYCUSP0144	-	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUSX1K1UL	-	NSYCUSP0150	NSYCUSP0144	-	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUS1K12P4UL	NSYCUSP0142	-	NSYCUSP0144	NSYCUSP0145	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUSX1K12P4UL	-	NSYCUSP0150	NSYCUSP0144	NSYCUSP0145	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUS1K5UL	NSYCUSP0142	-	NSYCUSP0144	-	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUSX1K5UL	-	NSYCUSP0150	NSYCUSP0144	-	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUS1K52P4UL	NSYCUSP0142	-	NSYCUSP0144	NSYCUSP0146	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUSX1K52P4UL	-	NSYCUSP0150	NSYCUSP0144	NSYCUSP0146	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUS2KUL	NSYCUSP0142	-	NSYCUSP0144	-	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUSX2KUL	-	NSYCUSP0150	NSYCUSP0144	-	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUS2K3P4UL	NSYCUSP0142	-	NSYCUSP0144	NSYCUSP0147	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUSX2K3P4UL	-	NSYCUSP0150	NSYCUSP0144	NSYCUSP0147	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUS2K5UL	NSYCUSP0143	-	NSYCUSP0144	-	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUSX2K5UL	-	NSYCUSP0151	NSYCUSP0144	-	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUS2K53P4UL	NSYCUSP0143	-	NSYCUSP0144	NSYCUSP0148	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUSX2K53P4UL	-	NSYCUSP0151	NSYCUSP0144	NSYCUSP0148	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUS3K2UL	NSYCUSP0143	-	NSYCUSP0144	-	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUSX3K2UL	-	NSYCUSP0151	NSYCUSP0144	-	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUS3K23P4UL	NSYCUSP0143	-	NSYCUSP0144	NSYCUSP0148	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166
NSYCUSX3K23P4UL	-	NSYCUSP0151	NSYCUSP0144	NSYCUSP0148	NSYCUSP0149	NSYCUSP0152	NSYCUSP0166

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NSYZA2104G	31, 192	NSYZZ5VHDFP	603				
NSYZA2123G	31, 192	NSYZZ7VHDFP	603				
NSYZA2124G	31, 192	OPLU...					
NSYZA2126G	31, 192	OLPU186	598				
NSYZA253G	31, 192	OLPU188	598				
NSYZA254G	31, 192	OLPU206	598				
NSYZA273G	31, 192	OLPU208	598				
NSYZA274G	31, 192	OLPU2010	598				
NSYZA276G	31, 192	OLPU188KT	598				
		OLPU208KT	598				



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