

Low Voltage electric distribution

Prisma Plus System G

Wall-mounted and floor standing enclosures up to 630 A

Catalogue
2008

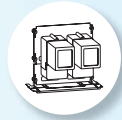


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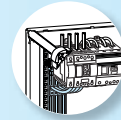
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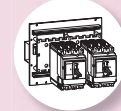
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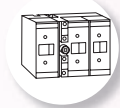
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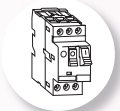
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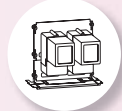
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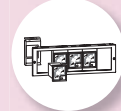
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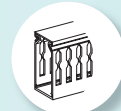
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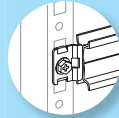
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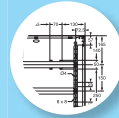
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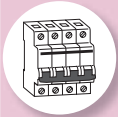
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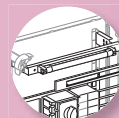
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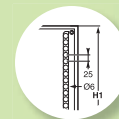
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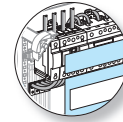


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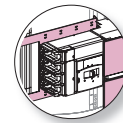
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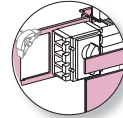


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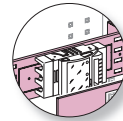
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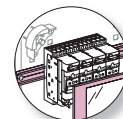
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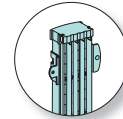


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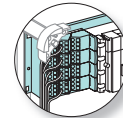


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Non-centralised distribution

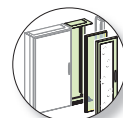


Centralised distribution



Distribution

Wall-mounted & floor standing enclosures



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Our answers
to your
needs

System G



■ Small
companies, etc.

630 A



■ Buildings
■ Offices
■ Residential, etc.



■ Laboratories
■ Healthcare centres, etc.



■ Shopping centres
■ Supermarkets
■ Malls, etc.

Pack enclosures

160 A



■ Schools
■ Hotels, etc.

System P

3200 A



- Hospitals
- Internet data centres, etc.



- Food industry
- Deary, etc.



- Bottling factories
- Packaging factories
- Automobile factories, etc.



- Logistics centres, etc.



Prisma Plus electrical switchboards

Prisma Plus - a comprehensive range of enclosures and cubicles



Prisma Plus - a tried and tested modular system

A dependable electrical installation

The total compatibility of Schneider devices with the Prisma Plus system is a key advantage in ensuring a high level of installation dependability. System design has been validated by type tests as per standard IEC 60439-1 and benefits from the combined experience of Schneider customers over many years.

An upgradeable electrical installation

Thanks to modular design, Prisma Plus switchboards can be modified easily to integrate new functions as needed. Maintenance operations, carried out with the switchboard de-energised, are fast and straight-forward due to easy access to devices.

Total safety for personnel

Work in a Prisma Plus switchboard is risk-free when carried out by qualified persons in compliance with all applicable safety regulations.

Devices are installed behind protective front plates and only the operating handles are accessible.

Additional internal separations protect against direct contact with live parts.

Terminal shields are mandatory for installation of Compact NSX and Interpact INS/INV devices in Prisma Plus enclosures.

Prisma Plus electrical switchboards



IP30/31 pack wall-mounted enclosures

- Applications:
 - indoor enclosures containing all modular devices, for distribution switchboards in small and medium-sized commercial buildings (hotels, offices, shops), or for medium-sized and large residential installations (houses)
 - supplied mounted, with modular rails and front plates (48 modules (9 mm) per row)
- rated operational current: 160 A
- degree of protection: IP30 with or without door
- degree of protection against mechanical impacts:
 - IK07 (without door)
 - IK08 (with door)
- enclosure dimensions:
 - five heights: 480 mm to 1080 mm
 - width: 555 mm
 - depth: 157 mm without door
 - 186 mm with door and handle.



IP30/31/43 wall-mounted and floor-standing enclosures

- Applications:
 - indoor wall-mounted and floor-standing enclosures for all types of low-voltage switchboards (main, subdistribution and final) in commercial and industrial environments
 - supplied in kit form, can be combined side-by-side and one on top of another
- rated operational current: 630 A
- degree of protection:
 - IP30: with or without door
 - IP31: with door + canopy
 - IP43: with door + canopy + gasket
- degree of protection against mechanical impacts:
 - IK07 (without door)
 - IK08 (with door)
- enclosure dimensions:
 - eleven heights: 330 mm to 1830 mm (including the plinth for floor-standing enclosures)
 - two widths: 595 mm and 305 mm (duct)
 - depth: 205 mm without door
 - 250 mm with door + handle

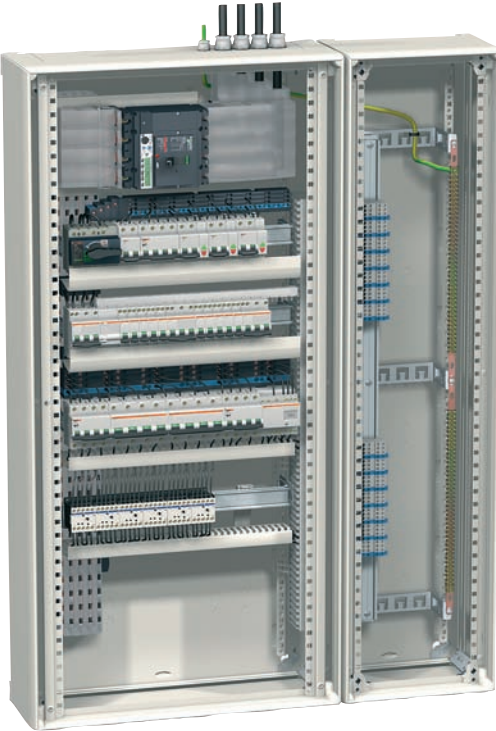
IP55 enclosures

- Applications:
 - indoor enclosures for distribution, protection and process control in commercial and industrial applications
 - supplied in kit form, can be combined side-by-side and one on top of another
- rated operational current: 630 A
- degree of protection: IP55
- degree of protection against mechanical impacts: IK10
- enclosure dimensions:
 - seven heights: 450 mm to 1750 mm
 - width: basic enclosure: 600 mm
 - extensions: 575 and 325 mm (duct)
 - depth: 260 mm + 30 mm (handle).

Electrical switchboards up to 630 A

The Prisma Plus functional system

PD390227



The Prisma Plus functional system can be used for all types of low-voltage distribution switchboards up to 630 A, in commercial and industrial environments.

Switchboard design is very simple.

A functional structure for devices

made up of wall-mounted and floor-standing enclosures that can be used alone or combined.

A distribution system

made up of centralised distribution blocks and vertical busbars installed on the side or in the rear of the switchboard.

Complete functional units

Each device is part of a functional unit comprising:

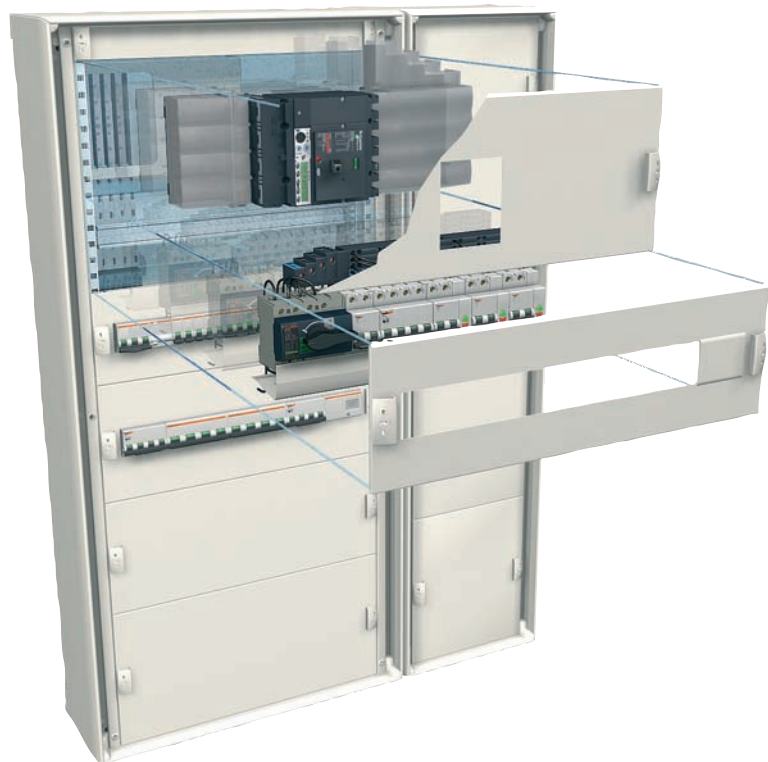
- a dedicated mounting plate for device installation
- a front plate to block direct access to live parts
- prefabricated busbar connections
- systems for on-site connections and running of auxiliary wires.

The functional units are modular and are arranged rationally, one on top of another, within the enclosure.

The system includes everything required for functional unit mounting, supply and on-site connection.

The components of the Prisma Plus 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.

PD390228



Functional units are arranged rationally, one on top of another.

Electrical switchboards up to 630 A

Prisma Plus enclosures

PD390240



- steel sheet metal
- electrophoresis treatment + hot-polymerised polyester epoxy powder, white colour RAL 9001.
- **IP30 / 31 / 43 wall-mounted enclosures**
 - degree of protection:
 - IP30: with or without door
 - IP31: with door + canopy
 - IP43: with door + canopy + IP43 gasket
 - IK07 (without door), IK08 (with door)
 - can be dismantled
 - can be combined side by side and one on top of another
 - eight heights from 330 to 1380 mm
 - width: 595 mm
 - width of duct: 305 mm, can be combined side by side
 - depth: 250 mm with door (205 mm without door)
- **IP30 / 31 / 43 floor-standing enclosures**
 - degree of protection:
 - IP30: with or without door
 - IP31: with door + canopy
 - IP43: with door + canopy + IP43 gasket
 - IK07 (without door), IK08 (with door)
 - can be dismantled
 - can be combined side by side
 - three heights: 1530, 1680 and 1830 mm
 - width: 595 mm
 - width of duct: 305 mm, can be combined side by side
 - depth: 250 mm with door (205 mm without door)
- **IP55 enclosures**
 - IK10
 - can be dismantled
 - can be combined side by side and one on top of another
 - width: 600 mm
 - seven heights: 450 to 1750 mm
 - widths: 325 and 575 mm, can be combined side by side and one on top of another
 - depth: 260 mm with door + 30 mm (handle).

Advantages of Prisma Plus switchboards

A dependable electrical installation

The total compatibility of Schneider devices with the Prisma Plus system is a key advantage in ensuring a high level of installation dependability. System design has been validated by type tests and benefits from the combined experience of Schneider customers over many years.

An upgradeable electrical installation

Thanks to modular design, Prisma Plus switchboards can be modified easily to integrate new functional units as needed. Maintenance operations, carried out with the switchboard de-energised, are fast and straight-forward due to easy access to devices and the use of standard components.

Total safety for personnel

Devices are installed behind protective front plates; only the operating handles are accessible.

The electrical installation and operating personnel are fully protected. In addition, all distribution components are protected by an IPxxB degree of protection.

Terminal shields are mandatory for installation of Compact NSX and INS/INV devices in Prisma Plus enclosures.

Electrical switchboards built using the Prisma Plus functional system and Schneider recommendations fully comply with international standard IEC 60439-1.

Electrical characteristics

Prisma Plus components comply with standard IEC 60439-1 and have the following electrical characteristics:

- rated insulation level of main busbars at rear of enclosure: 1000 V
- rated operational current I_e (40 °C): 630 A
- rated peak withstand current I_{pk} : 53 kA
- rated short-time withstand current I_{cw} : 25 kA rms / 1 second
- frequency: 50/60 Hz.

Examples of switchboard configurations

Incomer

Compact NSX250 4P

Fixed, front connection
Toggle
Incoming cables via bottom
to incoming connection block

PD300881

Distribution

Polybloc distribution block

Outgoing devices

Multi 9 devices

Supply	80 A Multiclip Comb busbars
Cable running	Straps + cover
Connection	Terminal block at top of switchboard

Motor circuit breakers

Supply	Comb busbars
Cable running	Straps + cover
Connection	Terminal block at top of switchboard

IP30 enclosure

Wall-mounted enclosure, W = 595 mm, H = 930 mm
Plain door
Partial plain door



PD300287



Examples of switchboard configurations

Incomer
Interpact INS160 4P
 Incoming cables via top

PD390446

Distribution
 160 A Powerclip busbars

Outgoing devices
Multi 9 devices

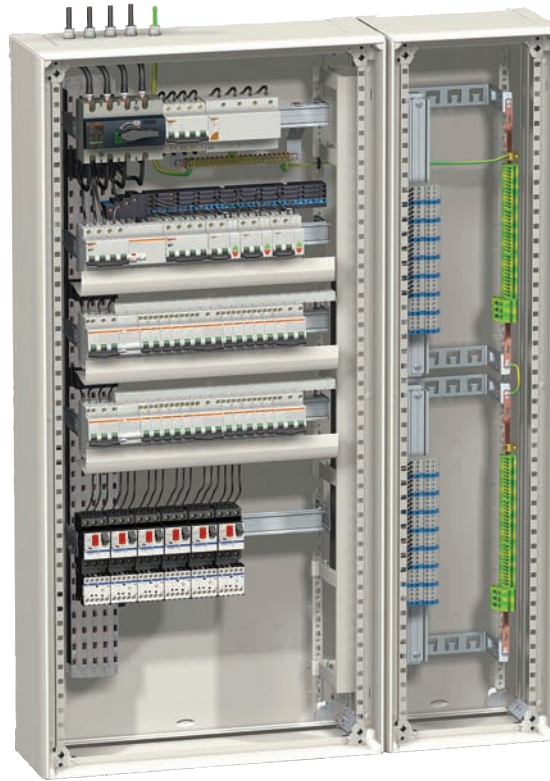
Supply	80 A Multiclip Comb busbars
Cable running	Straps + cover
Connection	Terminal block in duct, W = 300 mm

Motor circuit breaker + contactor combinations

Supply	Cable wiring
Cable running	Straps + cover
Connection	Terminal block in duct, W = 300 mm

IP30 enclosure

Wall-mounted enclosure,
 W = 595 mm, H = 1230 mm
 Transparent door
 Duct, W = 305 mm,
 H = 1230 mm
 Plain door



PD395007



Examples of switchboard configurations

Incomer

Compact NSX250

Fixed, front connection

Toggle

Incoming cables via top to incoming connection block

PD300288

Distribution

Powerclip busbars

Outgoing devices

Multi 9 devices

Supply 80/200 A Multiclip
Comb busbars

Cable running Straps + cover
Trunking

Connection Terminal block in duct,
W = 300 mm

Motor circuit breakers

Supply Cable wiring

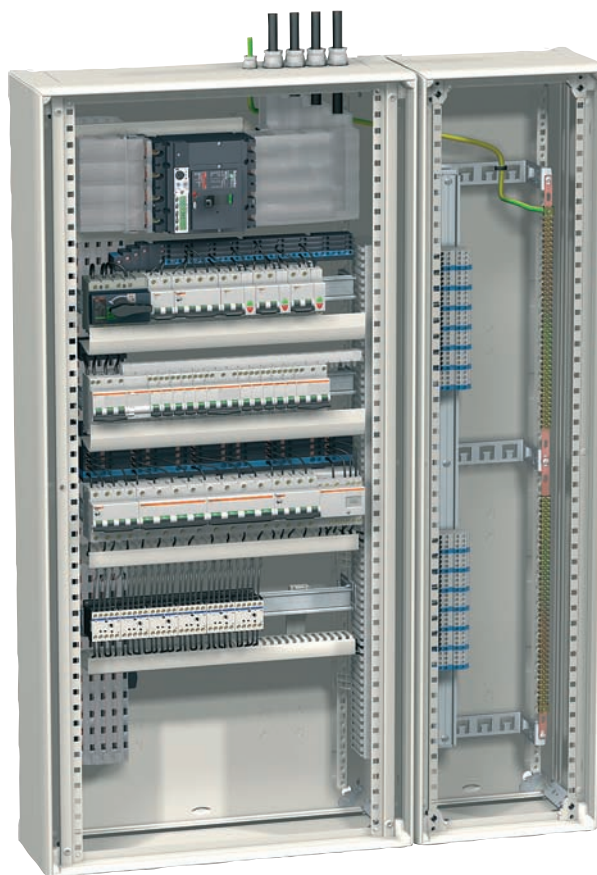
Cable running Trunking

Connection Terminal block in duct,
W = 300 mm

IP30 enclosure

Wall-mounted enclosure, Transparent door
W = 595 mm, H = 1230 mm

Duct, W = 305 mm, Plain door
H = 1230 mm



PD300289



Examples of switchboard configurations

Incomer

Interpact INS160

Lateral handle
Incoming cables via bottom, directly to device

PD380450

Distribution

Distribloc distribution block

Outgoing devices

Multi 9 devices

Supply	Comb busbars
Cable running	Straps + cover
Connection	Terminal block at bottom of enclosure

Motor control and protection devices

Supply	Comb busbars
Cable running	Trunking
Connection	Terminal block at bottom of enclosure

IP55 enclosure

Wall-mounted enclosure, Transparent door
W = 595 mm, H = 1250 mm



PD380451



Examples of switchboard configurations

Incomer

Compact NSX400

Fixed, front connection
Toggle
Incoming cables via bottom in duct (W = 300 mm) to incoming connection block

PD386034

Distribution

Powerclip busbars

Outgoing devices

Compact NSX250

Fixed, front connection
Toggle
Supply Powerclip busbars with power supply block

Multi 9 devices

Supply Comb busbars
200 A Multiclip

Cable running Trunking
Connection Vertical terminal block at bottom of floor-standing enclosure

Motor control and protection devices

Supply 200 A Multiclip
Cable running Trunking
Connection Vertical terminal block at bottom of floor-standing enclosure

IP30 enclosure

Floor-standing enclosure, Transparent door
W = 595 mm, H = 1830 mm
Duct, W = 305 mm, Plain door
H = 1830 mm

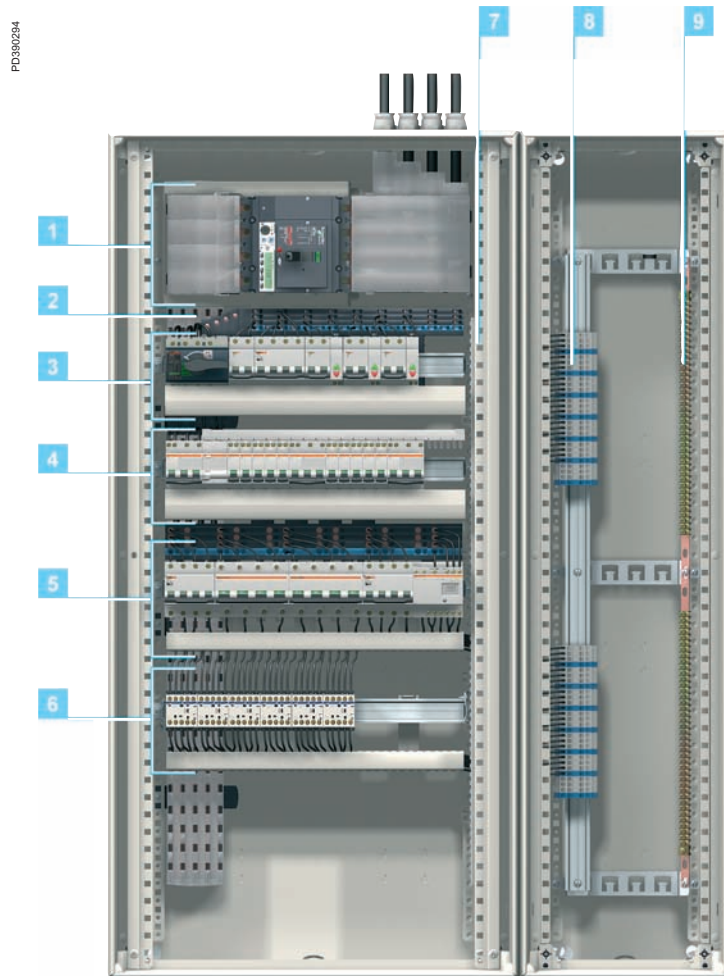


Examples of switchboard configurations

PD300893



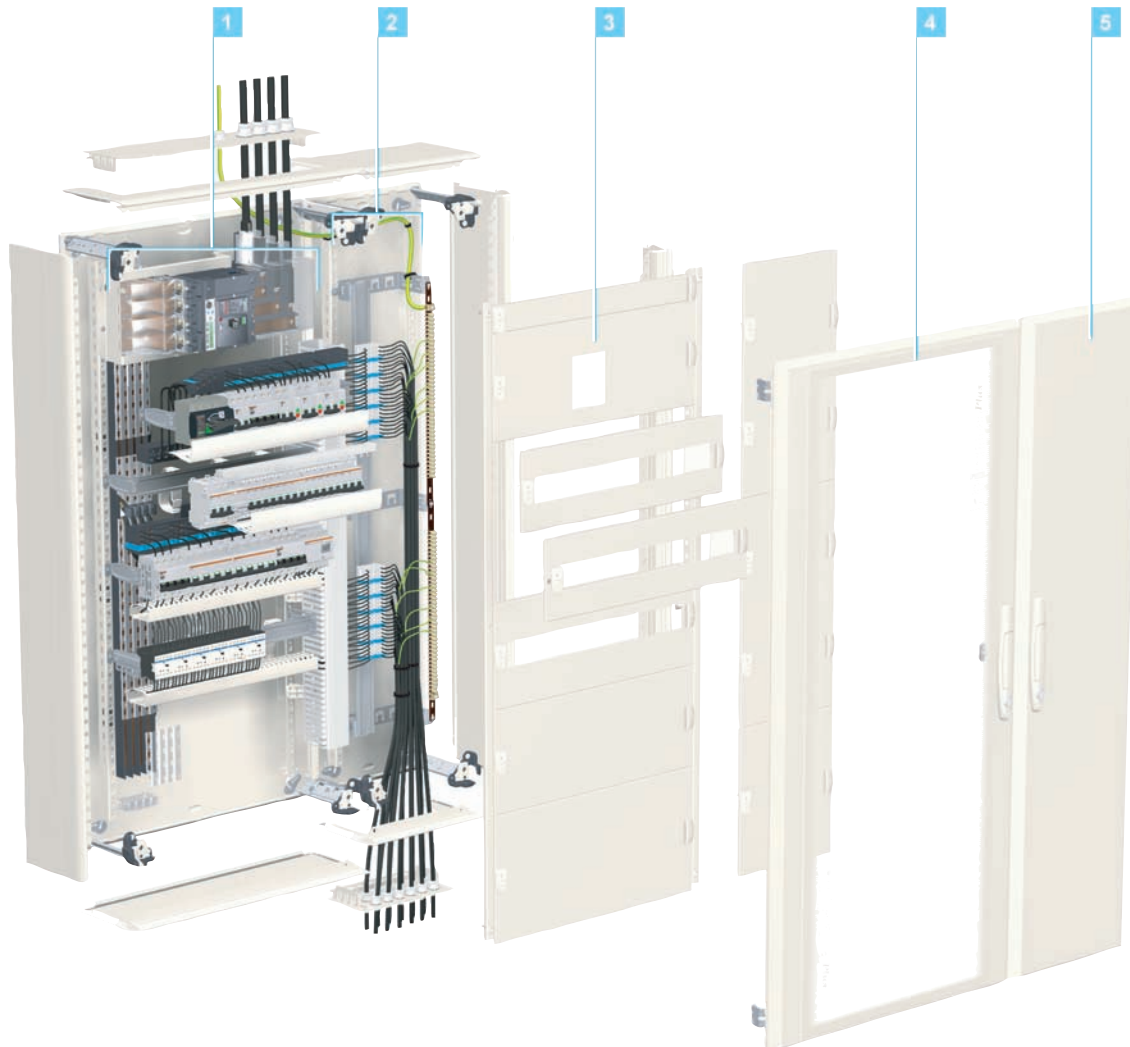
The functions of an electrical switchboard



1	NSX250 functional units	See page B-6
2	Main distribution using Powerclip busbars	See page C-5
3	Modular device functional units	See page B-16
	Distribution using 80 A Multiclip distribution blocks	See page C-17
	Horizontal cable running using straps	See page C-34
4	Modular device functional units	See page B-16
	Distribution using comb busbars	
	Horizontal cable running using straps	See page C-34
5	Modular device functional units	See page B-16
	Distribution using 200 A Multiclip distribution blocks	See page C-18
	Horizontal cable running using trunking	See page C-35
6	Motor control and protection functional units	See page B-36
	Horizontal cable running using trunking	See page C-35
7	Vertical cable running using trunking	See page C-35
8	Terminal block	See page C-31
		See page C-27
9	Earth bar	See page C-23

The functions of an electrical switchboard

PD390300



1	Device compartment	See page D-2
2	Connection compartment	See page D-2
3	Front plate	See page D-2
4	Transparent door	See page D-6
5	Plain door	See page D-6

Presentation



PD390161-52

Pack electrical-distribution enclosures are specially designed for modular devices up to 160 A.

Pack enclosures come mounted with:

- modular rails
- front plates
- blanking plates
- a plastic gland plate
- an earth bar
- a template for drilling wall-mounting holes.

Pack enclosures are supplied assembled and equipped, ready for device mounting. An equipped enclosure can be ordered with a single catalogue number.

Based on the System G wall-mounted and floor-standing enclosures, they are compatible with the same mounting components:

- current distribution systems made up of:
 - vertical busbars installed on the side or in the rear of the switchboard.
 - centralised distribution blocks
 - distribution blocks for modular rows
- horizontal cable straps and trunking
- earth and neutral bars
- identification labels
- closing accessories (barrel locks and inserts).

The design of Pack enclosures ensures easy device access and mounting.

Optimised depth and an extra-thin door ensure perfect integration in all environments.

Models with 4, 5 and 6 rows are particularly well-suited for the incomer function:

- more space available for wiring of the incoming device
- optimised number of front plates.

A plain or transparent door can be added.

The modular rails are made of an aluminium alloy and their supports are crimp mounted in the factory.

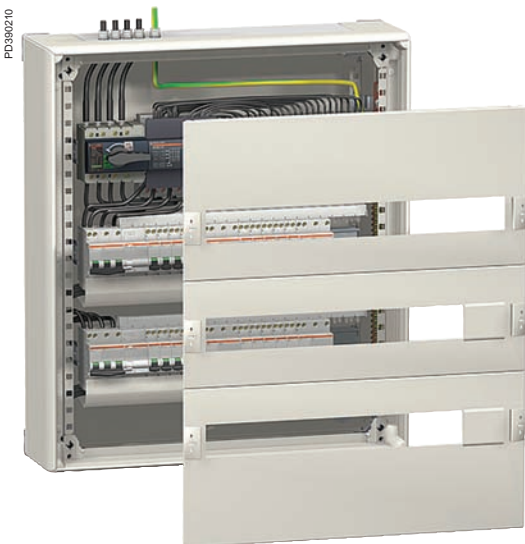
A number of components clip directly on the rails:

- 63 and 80 A distribution blocks
- all horizontal cable-running accessories such as:
 - cable straps
 - trunking supports
 - earth bar supports.

The front plates are secured by two quarter-turn fasteners.

Electrical continuity is achieved naturally, without having to add clips or earthing braids.

The components of the Prisma Plus 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.



PD390210

Advantages of Prisma Plus switchboards



A dependable electrical installation

The total compatibility of Schneider devices with the Prisma Plus system is a key advantage in ensuring a high level of installation dependability.

System design has been validated by type tests and benefits from the combined experience of Schneider customers over many years.

Maintenance operations, carried out with the switchboard de-energised, are fast and straight-forward due to easy access to devices and the use of standard components.

Total safety for personnel

Devices are installed behind protective front plates; only the operating handles are accessible.

The electrical installation and operating personnel are fully protected.

In addition, all distribution components are protected by an IPxxB degree of protection.

Terminal shields are mandatory for installation of Compact NSX and INS/INV devices in Prisma Plus enclosures.

Electrical switchboards built using the Prisma Plus functional system and Schneider Electric recommendations fully comply with international standard IEC 60439-1.

Characteristics

- rated operational current: 160 A
- degree of protection: IP30 (with or without door)
- degree of protection against mechanical impacts: IK07 (without door), IK08 (with door)
- insulation: class 1
- compliance with standards: IEC 60439-1
- dimensions:
 - H: see the table on the next page
 - W: 555 mm
 - D: 157 mm without door
186 mm with sheet metal door
- electrophoresis treatment + hot-polymerised polyester epoxy powder, white colour RAL 9001
- capacity per row: 48 width modules (9 mm each).



IEC international standards

IEC member countries

Argentina	Luxemburg
Australia	Malaysia
Austria	Mexico
Belarus	Netherlands
Belgium	New Zealand
Brazil	Norway
Bulgaria	Pakistan
Canada	Poland
China	Portugal
Croatia	Rumania
Czech Rep.	Russia
Denmark	Singapore
Egypt	Slovakia
Finland	Slovenia
France	South Africa
Germany	Spain
Greece	Sweden
Hungary	Switzerland
India	Thailand
Indonesia	Turkey
Iran	Ukraine
Ireland	United Kingdom
Israel	United States
Italy	Yugoslavia
Japan	
Korea (Rep. of)	

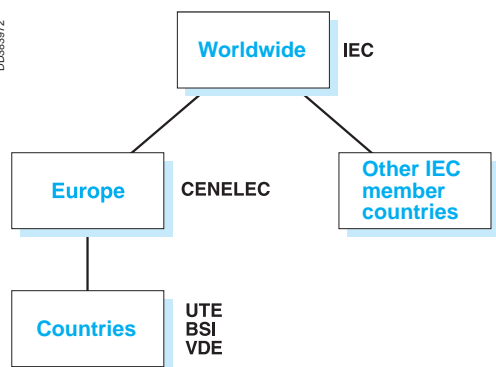
The IEC (International Electrotechnical Commission) is a worldwide organisation for standardisation comprising all national electrotechnical committees (IEC National Committees).

The object of the IEC is to promote international cooperation on all questions concerning standardisation in the electrical and electronic fields.

To that end, the IEC publishes International Standards.

Their preparation is entrusted to technical committees and any IEC National Committee interested in the subject dealt with may participate in the preparatory work.

National standards



In Europe

The IEC documents are first studied by CENELEC, which establishes:

- either a European standard (EN), often identical to the IEC standard, which then becomes the applicable national standard in all the member countries
- or, in the event of differences, a harmonisation document (HD).

Other IEC member countries

Each country is autonomous and can accept the IEC standard as the national standard, with or without modifications.

Even though they are IEC members, countries such as Japan and the United States continue to develop their own standardisation systems.

Countries without a standardisation system

It is possible to refer to an IEC standard in the framework of a project.

CEI / IEC

Commission Electrotechnique Internationale

CENELEC

Comité Européen de Normalisation ELECTrotechnique

UTE

Union Technique de l'Électricité

VDE

Verband der Elektrotechnik, Elektronik und Informationstechnik

e.v. (German electrotechnical, electronics and computer technology standardisation organisation)

BSI

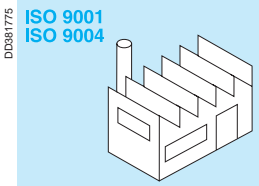
British Standards Institution



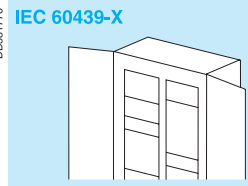
The different types of standards

There are different types of standards, including:

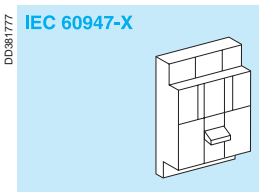
- management standards
- installation standards
- product standards.



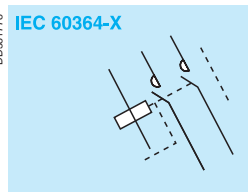
Design and manufacture.



Switchgear and controlgear assemblies.



Switchgear and controlgear.



Installation.

Management standards

ISO 9004: Quality-management systems - guidelines for performance improvements. Used in setting up a quality-management system.

ISO 9001: Quality management systems - requirements. Used for certification audits.

ISO 14004: Environmental-management systems. General guidelines on the principles, systems and supporting techniques.

ISO 14001: Environmental-management systems. Specification with guidance for use

The majority of Schneider Electric development centres and factories are certified ISO 9001 and ISO 14001.

Installation standards

The set of IEC 60364-X standards defines the main principles and rules on:

- determining general characteristics of installations
- protection
- selection and installation of equipment
- verification and maintenance of installations.

Product standards

They apply to devices or assemblies and are aimed at ensuring correct operation and safety of the concerned products.

■ standards on low-voltage switchgear and controlgear:

- IEC 60947-1 : general rules
- IEC 60947-2 : circuit breakers
- IEC 60947-3 : switches and disconnectors
- IEC 60947-4 : contactors
- IEC 62208 / EN 50298: empty enclosures.

■ standards on low-voltage switchgear and controlgear assemblies:

- IEC 60439-1: general rules
- IEC 60439-2: busbar trunking systems
- IEC 60439-3: distribution boards
- IEC 60439-4: assemblies on construction sites
- IEC 60439-5: power distribution in networks.

Regulations in a given country may make certain standards legally binding and may also create additional safety requirements.

In addition to providing proof of the conformity of its quality-management system, a product manufacturer can demonstrate the quality of products by providing proof that the design and manufacture comply with the requirements in the applicable standard.

Proof of conformity may be a declaration by the manufacturer or a certificate supplied by an independent organisation.



Standards

Enclosure standards

Standards IEC 62208 and EN 50298 lay down definitions, classifications, characteristics and test requirements for enclosures used for switchgear and controlgear assemblies.

They apply to empty enclosures before installation of the devices by the panelbuilder, as supplied by the manufacturer.

They apply to one-piece enclosures and to enclosures supplied in kit form.

Type tests of standard EN 50298

- 1 - Static load
- 2 - Hoisting
- 3 - Axial loads of metal inserts
- 4 - IK code
- 5 - IP code
- 6 - Thermal stability
- 7 - Resistance to heat
- 8 - Resistance to abnormal heat and to fire
- 9 - Dielectric strength
- 10 - Protective-circuit continuity
- 11 - Weather resistance
- 12 - Corrosion resistance
- 13 - Marking

CE marking

CE marking is a regulatory symbol attributed under the sole responsibility of the manufacturer and intended for the verification authorities of the European countries that enforce the European regulations.

It allows free circulation of a product in the European Union and certifies that it complies with the basic requirements in all the applicable European directives.

CE marking is not a quality symbol and does not indicate conformity with a standard

The CE declaration is intended exclusively for the authorities in charge of verifying compliance with the applicable regulations and it is drafted, signed and held for presentation to the authorities by the manufacturer.

For the Prisma Plus range, the declaration is the responsibility of the Schneider Electric unit that has designed and developed the product.

For LV switchboards, the declaration is the responsibility of the panelbuilder.

The following products receive CE marking:

- all products that are liable to endanger the safety of persons, animals and property (LV directive)
- all products likely to emit electromagnetic disturbances above a standardised threshold or to be disturbed during operation (EMC directive).

Consequences:

- the Prisma Plus range falls under the LV directive only
- LV switchboards are covered by the LV directive and may also fall under the EMC directive, depending on the type of devices incorporated.



For the Prisma Plus range, CE marking is applied:

- on the packing of "mechanical" components
- on the product itself for "electrical" components.

For the LV assemblies created by the panelbuilder, CE marking is applied:

- on the packing
- on the rating plate (if applicable)
- on one of the documents accompanying the switchboard when it is shipped.



Degree of protection

Standard IEC 60364-5-51 lists and codifies a large number of external influences to which electrical installations can be subjected, including the presence of water, solid objects, shocks, vibrations, corrosive substances, etc.

IP code

Standard IEC 60529 (IP code, February 2001) indicates the degrees of protection provided by an enclosure for electrical devices against access to hazardous parts, against penetration of solid foreign objects and against penetration of water.

These standards do not apply for the protection against the risks of explosion or conditions such as humidity, corrosive vapour, fungus or vermin.

The IP code is made up of two characteristic numerals and can include an additional letter when the actual protection for persons against access to the hazardous parts is better than that indicated by the first numeral.

The first numeral characterises the protection provided against the ingress of solid foreign objects and the protection of persons.

The second numeral characterises the protection provided against the ingress of water with harmful effects.

1 st numeral		2 nd numeral		
Protection of persons		Protection against ingress of solid objects		
1	Protected against access with back of hand DD381959 Ø50 mm	Protection against solid foreign objects larger than 50 mm DD381959 Ø50 mm	1	Protected against vertically dripping water (condensation) DD381966
2	Protected against access with a finger DD381960 Ø12 mm	Protection against solid foreign objects larger than 12.5 mm DD381963 Ø12,5 mm	2	Protected against dripping water up to 15° from vertical DD381967
3	Protected against access with a tool DD381961 Ø2,5 mm	Protection against solid foreign objects larger than 2.5 mm DD381961 Ø2,5 mm	3	Protected against spraying water up to 60° from vertical DD381968
4	Protected against access with a wire DD381962 Ø1 mm	Protection against solid foreign objects larger than 1 mm DD381962 Ø1 mm	4	Protected against splashing water from all directions DD381969
5	Protected against access with a wire DD381962 Ø1 mm	Protected against dust (dust protected) DD381964 	5	Protected against water jets from all directions DD381970
6	Protected against access with a wire DD381962 Ø1 mm	Dust tight DD381965 	6	Protected against powerful water jets from all directions DD381971
			7	Protected against the effects of temporary immersion in water DD381972
			8	Protected against the effects of continuous immersion in water DD381973



Standards

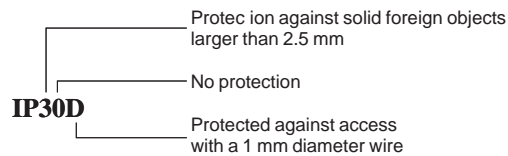
Additional letter

The additional letter is used only if the actual protection of persons is higher than that indicated by the first characteristic numeral of the IP code.

Additional letter	Protection
A	Protected against access with back of hand
B	Protected against access with a 12 mm diameter finger
C	Protected against access with a 2.5 mm diameter tool
D	Protected against access with a 1 mm diameter wire

If only the protection of persons is of interest, the two characteristic numerals are replaced by the letter "X", e.g. IPXXB.

Illustration of the above explanations:



Remarks

- The degree of protection IP must always be read and understood numeral by numeral and not as a whole. For example, an IP31 wall-mounted enclosure is suitable for an environment that requires a minimum degree of protection IP21. However an IP30 wall-mounted enclosure is not suitable.
- the degrees of protection indicated in this catalogue are valid for the enclosures as presented. However, the indicated degree of protection is guaranteed only when installation and device mounting are carried out in accordance with professional standards that conserve the initial degree of protection.

IK code

Standard IEC 62262 defines an IK code characterising the capacity of products to resist mechanical impacts from all sides.

IK code	Impact energy (joules)
01	0.14
02	0.2
03	0.35
04	0.5
05	0.7
06	1
07	2
08	5
09	10
10	20

IK codes can be selected according to the risks of impacts on a given site.

	Site	Recommended IK
No risk of major impact	Technical premises	07
Significant risk of impact that can damage devices	Hallways	08 (switchboard with door)
Maximum risk of impact that can damage the switchboard	Workshops	10



Prisma Plus tested switchboards

A switchboard must comply with the requirements of standard IEC 60439-1 to guarantee the safety and reliability of the installation.

Managers of installations, fully aware of the professional and legal liabilities weighing on their company and on themselves, demand a high level of safety for the electrical installation.

What is more, the serious economic consequences of prolonged halts in production mean that the electrical switchboard must provide excellent continuity of service, whatever the operating conditions.

The Schneider Electric solution

- specify switchboards that comply with standard IEC 60439-1
- guarantee a level of safety that has been 100% tested, from the day the switchboard is installed and throughout its service life
- ensure a lasting investment through easy upgrading of the installation in compliance with the standard
- guarantee that the switchboard complies with the technical specifications.

Prisma Plus tested switchboards

The conformity of the switchboard has been tested and proven.

A Prisma Plus switchboard is:

- made up of Schneider Electric low-voltage devices and components that all comply with the applicable standards
- based on configurations in our catalogue
- made up of Prisma Plus mechanical and electrical components that have been subjected to the seven "type" tests required by the standard
- mounted and wired by a pane builder in compliance with professional standards
- subjected to the three routine tests required by the standard.

Schneider Electric makes available to the pane builder everything required to create tested Prisma Plus switchboards, including the basic configurations in the low-voltage distribution catalogue, all the documentation for switchboard design and mounting, calculation and design software, etc.

Pane builders can demonstrate conformity with standard IEC 60439-1 by presenting the declarations or certificates of conformity for type tests carried out by independent laboratories (ASEFA, ASTA, KEMA, etc.) and supplied by Schneider Electric. The panelbuilder is responsible for the three routine tests and delivers the corresponding declarations of conformity.

DD210448



Certificat de conformité / certificate of conformity n°020-04BT

délivré à / issued to : SCHNEIDER ELECTRIC INDUSTRIES SAS
89, boulevard Franklin Roosevelt
92500 RUEIL MALMAISON
FRANCE

pour le matériel / for the apparatus : Ensemble basse tension / low-voltage assembly
référence / reference : LINERGY Busbar - PRISMA PLUS System P
(inscriptions commerciales / trade marks : MERLIN GERIN - SQUARE D - TELEMECANIQUE)

constructeur / manufacturer : SCHNEIDER ELECTRIC SA

selon le(s) référentiel(s) / according to standard(s) :
IEC 60439-1 (1999), tenue au court-circuit du circuit principal / short-circuit withstand strength of main circuit (§ 8.2.3)

caractéristiques assignées / rated characteristics :

Tension d'isolement / insulation voltage	: 1000 V
Tension d'emploi / Operational voltage	: 1500 V
Fréquence / Frequency	: 50/60 Hz
Courant / current	: 630 A à 1800 A pour barres simples/ for single bars 2000 A à 3200 A pour barres doubles/ for double bars
Courant de courte durée (I _{sc}) / Short-time withstand current (I _{sc})	: 25 kA / 15 kA à 85 kA / 51 kA (3-phase/1-phase)
Courant de crête admissible / Peak withstand current	: 52.5 kA / 30 kA à 187 kA / 112.2 kA (3-phase/1-phase)

document(s) pris en compte (s) / relevant document(s) :
Rapport(s) d'essai / Test report(s) : PD1.03.16

Ce certificat ne s'applique qu'à l'échantillon soumis à l'essai de type / This certificate applies only to the sample submitted to the type test.

Fontenay-aux-Roses, Le / on : 2004-03-08

Le Président de l'ASEFA / The chairman of ASEFA,

I. HELLER

Le titulaire de ce certificat de conformité est autorisé par la loi à exercer son activité professionnelle en France / The holder of this certificate is authorized by law to exercise his or her professional activity in France.

33, av. de général de Gaulle
92200 Fontenay-aux-Roses - France
tel. 01 46 66 62 34
tel. 01 46 01 01 16
e-mail : asefa@cofrac.fr





The object of standard IEC 60439-1 is to lay down the definitions and to state the service conditions, construction requirements, technical characteristics and tests for low-voltage switchgear and controlgear assemblies ($U < 1000\text{ V}$). All elements making up the electrical switchboard are concerned.

Note. The standard defines a low-voltage assembly (the electrical switchboard) as "a combination of one or more low-voltage switching devices together with associated control, measuring, signalling, protective, regulating equipment, etc., completely assembled under the responsibility of the manufacturer with all the internal electrical and mechanical inter-connections and structural parts".

Standard IEC 60439-1 defines ten mandatory tests

■ 7 type tests carried out on typical configurations

- no. 1 - temperature rise limits
- no. 2 - dielectric properties
- no. 3 - short-circuit withstand strength
- no. 4 - effectiveness of the protective circuit
- no. 5 - clearances and creepage distances
- no. 6 - mechanical operation
- no. 7 - degree of protection.

■ 3 routine tests carried out on the finished switchboard (their purpose is to check that the characteristics validated by the type tests were not altered during manufacturing operations):

- no. 8 - wiring and electrical operation
- no. 9 - insulation/dielectric test
- no. 10 - protective measures.



7 type tests

1 - Temperature-rise limits

Each device is loaded to its rated current, multiplied by the diversity factor. Once the temperature has stabilised, the temperature rise must not exceed the permissible temperatures for materials or risk causing burns:

70 K for terminals for external insulated conductors

15 K or 25 K, according to material type, for manual operating means

30 K or 40 K for accessible external enclosures and covers.

2 - Dielectric properties

The test voltage is applied between all live parts and the interconnected exposed conductive parts, as well as between each pole and all the other poles connected for this test to the interconnected exposed conductive parts.

■ 3500 V for a rated insulation voltage of 1000 V for busbars in cubicles and rear busbars in enclosures

■ 750 V for a rated insulation voltage of 3000 V according to the type of busbars in the enclosure

■ 500 V for a rated insulation voltage of 2500 V according to the type of busbars in the enclosure

■ test duration: 1 minute.

3 - Short-circuit withstand strength

In the event of a short-circuit, whether inside or outside the switchboard, the latter must handle the resulting constraints (temperature rise, attraction or repulsion forces exerted on conductors, etc.).

The capacity to handle the constraints is above all the means to avoid danger (rupture and projection of components, electric arcs and their propagation outside the switchboard).

However, it is also the means to ensure a rapid return to operation after the incident. Maximum rated short-time current obtained on the busbars: $I_{cw} 85\text{ kA rms/1 s}$.

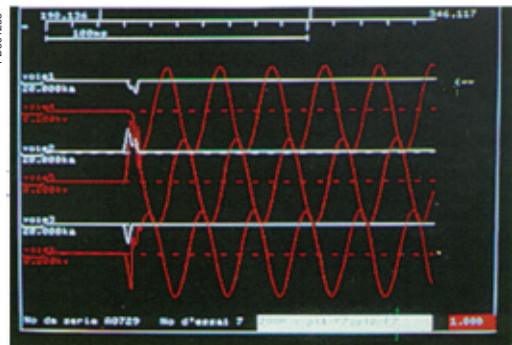
4 - Effectiveness of the protective circuit

The effectiveness of the protective circuit is verified by two tests :

■ short-circuit withstand test carried out between the protective conductor and the nearest phase conductor

■ resistance measurement of the connection between the exposed conductive parts and the protective circuit.

Result: 51 kA rms.



Short-circuit withstand strength.



5 - Clearance and creepage distances

The minimum clearance in air depends on the rated impulse withstand voltage and the degree of pollution in the switchboard.

The minimum creepage distance depends on the rated insulation voltage, the degree of pollution and the material group of the insulating material separating the live parts.

The tests carried out on typical Prisma Plus configurations, equipped with standard main busbars, confirm compliance with minimum clearances and creepage distances for a voltage of 1000V, degree of pollution 3 and material group IIIa:

- minimum clearance: 14 mm
- minimum creepage distance: 16 mm.

6 - Mechanical operation

The mechanical operation test is carried out on an assembled switchboard.

The standard requires that 50 operating cycles be carried out.

Verification of locking mechanisms are included in this range of tests.

For Prisma Plus:

- After 50 operating cycles, the interlocking mechanisms and other moving parts of the switchboard conserve their initial properties
- Certain more solicited moving parts (door handles, hinges, etc.) have been subjected to 10000 operating cycles with success.

7 - Degree of protection

The tests carried out define the capacity of an equipped switchboard to :

- protect persons against contact with live parts
- protect equipment against penetration of solid objects and liquids.

Results of tests confirm the characteristics of Prisma Plus switchboards: IP30 to IP55 and IK7 to IK10 depending on the configuration.



Degree of protection.

3 routine tests

The 3 routine tests must be carried out by the pane builder. They are fast and easy:

- inspection of the assembly according to the mounting instructions and technical documents (right device ratings, tightening torques, etc.)
- insulation checking by a dielectric test
- checking of protective measures and of the electrical continuity of the protective circuit.

They supplement the manufacturer type tests and guarantee the professionalism and responsibility of the panelbuilder.

Schneider Electric supplies a full range of tools for assistance in carrying out these tests:

- quality inspection guide
- installation guide
- assembly guides.

8 - Wiring and electrical operation

This test includes:

- Checking of conformity with:
 - drawings, part lists and diagrams
 - cabling (power and auxiliary connection)
 - wiring quality (cross-sectional areas of conductors, crimping, etc.)
 - marking of cables and devices.
- Visual inspection of :
 - degree of protection (presence of canopy, gaskets and front plates and absence of open cut-outs, holes, etc.) and creepage distances and clearances for connections and busbars
 - technical data document : diagrams, characteristics (voltage, current, system earthing arrangement, I_{sc}, IP, switchboard dimensions and weights, etc.), name of the manufacturer, project number, etc.
- Mechanical and/or electrical functioning test :
 - check of wiring and most sensitive parts of the switchboard (mechanical control components, mechanical and electrical interlocks, relays, measurement and monitoring systems, etc.)

The design of Prisma Plus switchboards, based on functional units, ensures conformity to this test.



Prisma Plus tested switchboards

9 - Insulation resistance and dielectric test

To carry out either of these tests:

- all electrical equipment must be connected (except those apparatus which are designed for a lower test voltage)
- the test voltage must be applied:
 - between each pole and the interconnected exposed conductive parts
 - between each pole of the main circuit and the other poles
 - between each auxiliary control circuit and the main circuit and the exposed conductive parts
 - between the power side and the withdrawable part of a switchgear in disconnected position.

Insulation test: insulation measurement using an insulation measuring device at a voltage of at least 500V (e.g. Megger type tester).

The test is passed if there is no puncture or disruptive discharge between the different tested parts

Dielectric test: for a rated operational voltage of 240/400 V, the dielectric test voltage of 2500 V must be applied during 1 s.

The test is passed if the insulation resistance between circuits and exposed conductive parts is at least 1000 Ohms/V.



PD390929

10 - Protective measures

This test involves checking the electrical continuity of the protective circuit connecting the various metal assemblies.

The presence of barriers protecting against direct and indirect contact with live parts must be checked and the following points must be inspected visually:

- the presence of earthing wires on the doors
- the presence of the PE conductor and contact washers on all metal assemblies.

Once the tests have been completed, the following operations must be carried out :

- clean the inside of the switchboard
- check that the switchboard identification markings are present
- check the outside appearance (scratches, paintwork, etc.)
- prepare the reports.

The first report must list any missing components or equipment that will be shipped separately from the switchboard.

The second report must indicate any problems detected during testing and the corrective action required.

A test report (available from the panelbuilder) certifies that all the tests have been carried out.

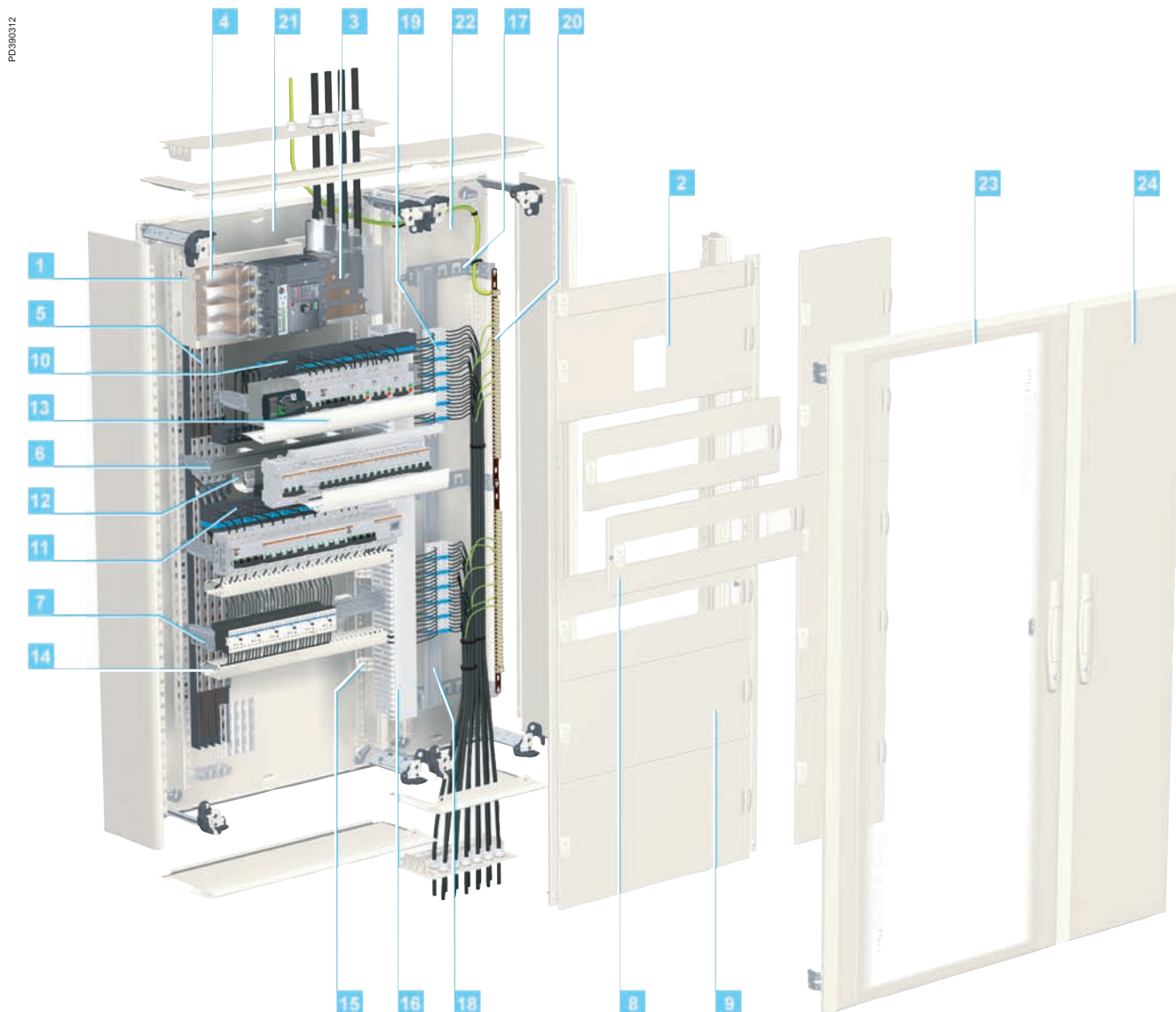


PD390914

DD393920

client.....	n° d'affaire.....	n° de cde.....
contrôle effectué par.....	signatures.....	I.O.....
matériel.....	date.....	

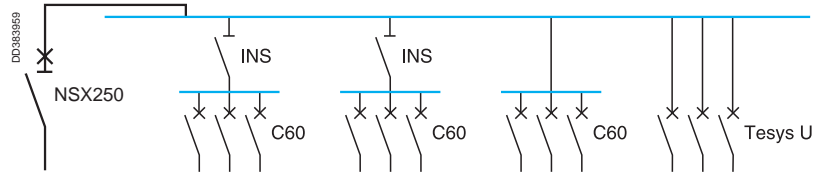
opérations de contrôle	repères/tables/cellules	essais exécutés par I.O.
conformité appareillage BT		
saies d'enroulement et rapport	T.C T.P	
fonctionnement individuel	commande protection signalisation comptage chauffage mesure	
fonctionnement général	asservissement automatisme	
circuit de puissance	calibre	
circuit secondaire	serrage calibre	
circuit de terre		
verrins de signalisation		
connexions - serrages		
reprage filerie + appareils		
essais diélectriques BT		
présence de tension		
débrayage		
interchangeabilité		
continuité des masses		
degré de protection		
verrouillage général		
synoptique		
plaques indicatrices		
présentation, aspect		
documents de référence	spécifications générales schéma unifilaire n° plan d'implantation et face avant n° schémas développés n°	



1	Mounting plate for horizontal Compact NSX100/250 with toggle	03030	See page B-6	13	4 covers for horizontal cable straps	04243	See page C-34
2	Front plate for horizontal Compact NSX100/250 with toggle	03232	See page B-6	14	4 horizontal trunking sections, 60 x 30 mm	04257	See page C-36
3	Incoming connection block	04066	See page B-6	15	12 vertical trunking supports	04265	See page C-35
4	250 A power supply block	04060	See page B-6	16	Vertical trunking section, 60 x 80 mm	04267	See page C-36
5	Powerclip busbars 250 A, 4P, L=1000 mm	04122	See page C-5	17	Support for terminal block and earth bar	04220	See page C-31
6	Modular rail	03001	See page B-17	18	Modular rail, L=1600 mm	04226	See page C-31
7	Modular rail (adjustable)	03002	See page B-36	19	Terminal block		See page C-27
8	Modular front plate, 3 modules	03203	See page B-17	20	Earth bar with 40 clamps	04200	See page C-23
9	Plain front plate, 4 modules	03804	See page B-52	21	Wall-mounted enclosure, 24 modules	08108	See page D-4
10	80 A Multiclip distribution block, 4P	04004	See page C-17	22	Duct, 24 modules	08178	See page D-4
11	200 A Multiclip distribution block, 4P	04014	See page C-18	23	Transparent door for wall-mounted enclosure, 24 modules	08138	See page D-4
12	12 horizontal cable straps	04239	See page C-34	24	Plain door for duct, 24 modules	08188	See page D-4

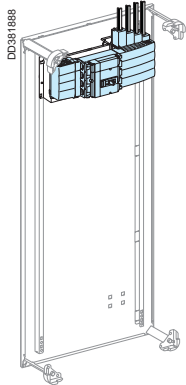
Determining catalogue numbers

Starting with the electrical diagram: IP30 switchboard



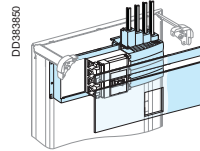
Install the incomer

See page B-6



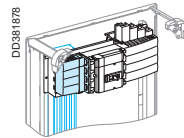
- order the mounting plates and the front plates
- the incoming connection block
- the power supply block for the Powerclip busbars.

1 Installation/connection



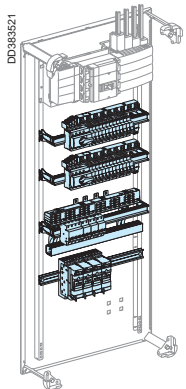
Device	No. of vertical modules	Mounting plate	Cut-out front plate	Upstream front plate	Connection block cables via top	cables via bottom
Fixed Compact NSX						
NSX100/250	5	03030	03232	03801	04066	ou 04067

2 Distribution using Powerclip busbars



Device	Power supply block	Terminal shields (set of 2)	Powerclip busbars
Fixed Compact NSX and Vigicompact NSX			
NSX100/250	04060		

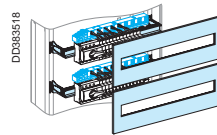
Install the modular devices



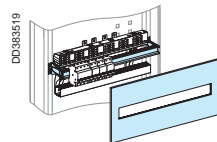
- Order the mounting plates and front plates taking into account:
- supply to the rows
 - cable running.

1 Multi 9

See page B-16



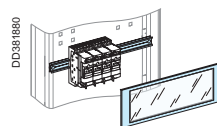
Device	No. of vertical modules	Modular rail	Modular front plate
All Multi 9 devices			
All supply systems (comb busbars, Multiclip) with cable straps and trunking sections			
	4	03001	03204
Multi 9 devices ≤ 40 A			
Supply via 63/80 A Multiclip or comb busbars with cable straps			
	3	03001	03203



Device	No. of vertical modules	Modular rail	Modular front plate
All Multi 9 devices			
All supply systems (comb busbars, Multiclip) with cable straps and trunking sections			
	4	03001	03204
Multi 9 devices ≤ 40 A			
Supply via 63/80 A Multiclip or comb busbars with cable straps			
	3	03001	03203

2 TeSys "U"

See page B-36



Device	No. of vertical modules	Useful length of rail (mm)	Rear modular rail	Transparent front plate
TeSys U model				
TeSys U model	4	432	03004	03342

- Multiclip distribution block. See page C-17
- cable running. See page C-34.

Determine the size of the switchboard

- count the number of occupied modules
- determine the corresponding wall-mounted enclosure
- order the additional plain front plate.

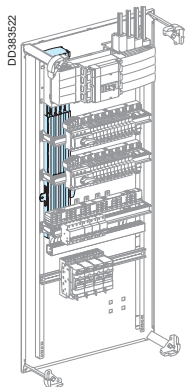
19 modules

21 modules

Plain front plate
See page B-54

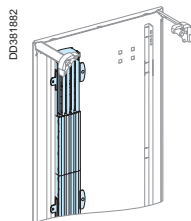
Device	500 mm wide plain front plate	Cat. no.
1 module (H = 50 mm)		03801
2 modules (H = 100 mm)		03802
3 modules (H = 150 mm)		03803

Plan the distribution system



Powerclip busbars

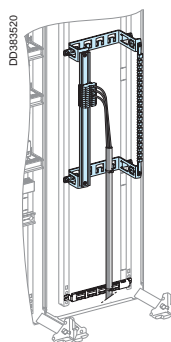
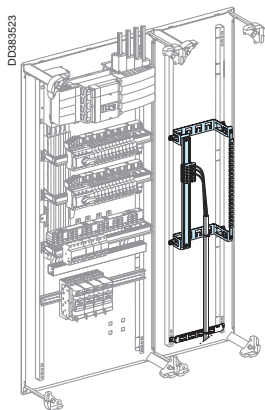
See page C-5



Powerclip busbars		160 A	250 A	400 A	630 A
Three-pole	L = 1000 mm	04111	04112	04113	04114
	L = 1400 mm	04116	04117	04118	04119
Four-pole	L = 1000 mm	04121	04122	04123	04124
	L = 1400 mm	04126	04127	04128	04129

Select the terminal blocks and the earth bar

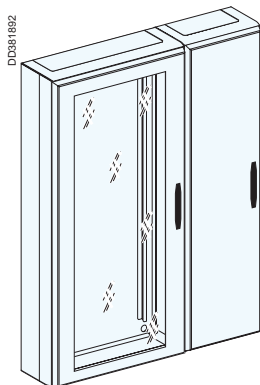
See page C-23



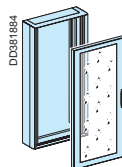
Designation	Cat. no.
Mounting plate for terminal block and earth bar	04220
Modular rail, L = 1600 mm	04226
Bare earth bar, 12 x 3 mm with 330 mm of connection space, equipped with a 35 mm ² tunnel terminal (for earth blocks with spring terminals)	04201
4 earth blocks with 12 x 4 mm ² spring terminals (L = 75 mm)	04214
4 earth blocks with 3 x 16 mm ² spring terminals (L = 37 mm)	04215

Select the enclosures

See page D-15

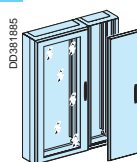


1 IP wall-mounted enclosure



No. of vertical modules	Height of enclosure	Enclosure	Plain door	Transparent door
Wall-mount enclosure (IP30)				
6	330	08102	08122	08132
9	480	08103	08123	08133
12	630	08104	08124	08134
15	780	08105	08125	08135
18	930	08106	08126	08136
21	1080	08107	08127	08137

2 Duct, W = 300 mm



No. of vertical modules	Height of duct	Duct, W = 300 mm	Plain door	Transparent door
Duct (IP30)				
6	330	08172	08182	
9	480	08173	08183	
12	630	08174	08184	
15	780	08175	08185	
18	930	08176	08186	
21	1080	08177	08187	08197

3 Cable tie supports

Designation	Cat. no.
4 cable-tie supports for 300 mm wide ducts	08868

4 Accessories for lifting, handling, wall mounting, finishing parts, etc.

TOOLS

schneider-electric.com

This international site allows you to access all the Schneider Electric products in just 2 clicks via comprehensive range data-sheets, with direct links to:

- complete library: technical documents, catalogs, FAQs, brochures...

- selection guides from the e-catalog.

- product discovery sites and their Flash animations.

You will also find illustrated overviews, news to which you can subscribe, the list of country contacts...



The technical guide

These technical guides help you comply with installation standards and rules i.e.: the electrical installation guide, the protection guide, the switchboard implementation guide, the technical booklets and the co-ordination tables all form genuine reference tools for the design of high performance electrical installations.

For example, the LV protection co-ordination guide - discrimination and cascading - optimises choice of protection and connection devices while also increasing markedly continuity of supply in the installations.



<i>Presentation</i>	20
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Pack wall-mounted enclosures	A-2
Single-phase kilowatt-hour meters - Class 2	A-2
3-phase kilowatt-hour meters - Class 2	A-3
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Modular devices in Packwall-mounted enclosures	A-4
General	A-4
Powerclip busbars	A-5
Centralised distribution	A-7
Row distribution blocks	A-8
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Enclosures	A-10
Pack wall-mounted enclosures	A-10
Accessories	A-11
Dimensions	A-15
Pack wall-mounted enclosures	A-15
<i>Functional units</i>	<i>B-1</i>
<i>Distribution</i>	<i>C-1</i>
<i>Enclosures</i>	<i>D-1</i>
<i>Additional information</i>	<i>E-1</i>

Pack wall-mounted enclosures

Single-phase kilowatt-hour meters

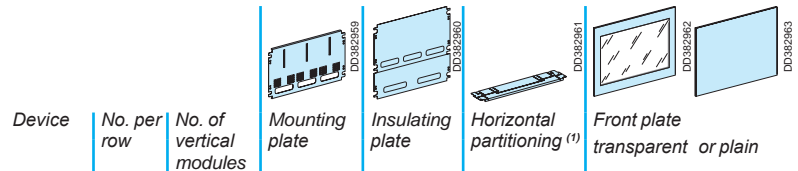
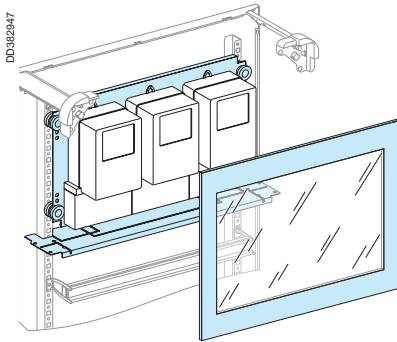
Class 2

Installation

Meters can be installed at different levels on the functional uprights of enclosures. Class 1: Depending on preferences and needs, meters can be installed directly on mounting plates equipped with earthing braids and combined with partitioning or front plates.

The mounting plates can be raised using M5 spacers: see page B-54.

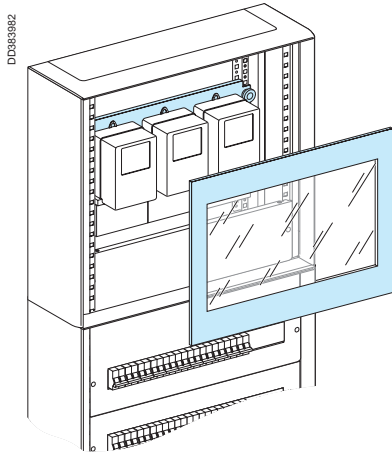
Meters behind front plate at the top of a Pack enclosure



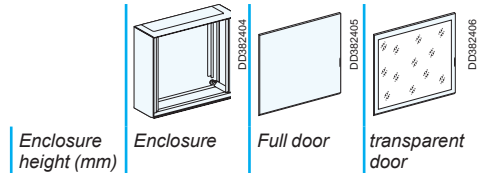
Device	No. per row	No. of vertical modules	Mounting plate	Insulating plate	Horizontal partitioning ⁽¹⁾	Front plate transparent	Front plate plain
Meter							
Ph + N	3	6	03157	03154	04333	03343	03806

(1) If not installed at the top of a Pack enclosure, order an addition horizontal partition (04333).

Earthing wire, 6mm²: cat. no. 08911.



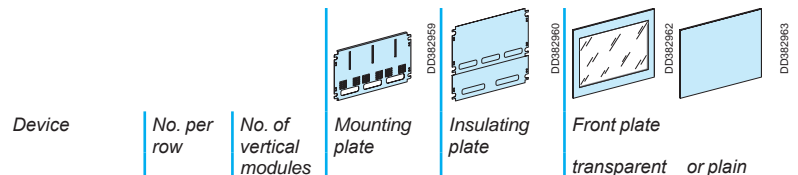
In an enclosure extension



Designation	Enclosure height (mm)	Enclosure	Full door	transparent door
Enclosure extension	480	08012	08082	08092

Reversible doors (opening to left or right), equipped with a handle (without barrel lock).

For barrel locks and inserts, see page D-16.



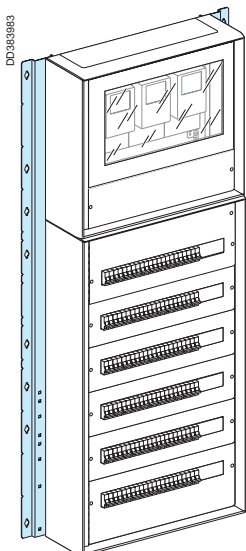
Device	No. per row	No. of vertical modules	Mounting plate	Insulating plate	Front plate transparent	Front plate plain
Meter						
Ph + N	3	6	03157	03154	03343	03806

Earthing wire, 6mm²: cat. no. 08911

Combination uprights

To make the combination more rigid, particularly during transport, it is mandatory to use a set of combination uprights secured to the rear of the switchboard.

Designation	Cat. no.
2 combination uprights	08817



Pack wall-mounted enclosures

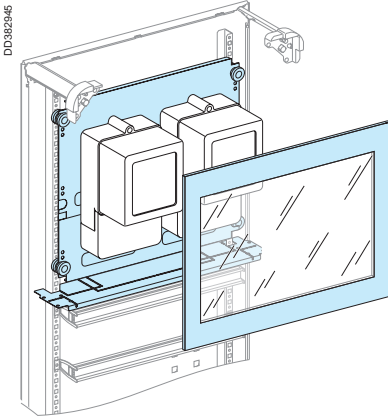
3-phase kilowatt-hour meters

Class 2

Installation

Meters can be installed at different levels on the functional uprights of enclosures. Class 1: Depending on preferences and needs, meters can be installed directly on mounting plates equipped with earthing braids and combined with partitioning or front plates.

The mounting plates can be raised using M5 spacers: see page B-54.

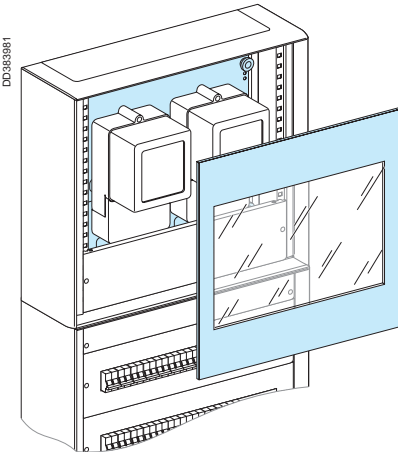


Meters behind front plate

Device	No. per row	No. of vertical modules	Mounting plate	Insulating plate	Horizontal partitioning (1)	Front plate transparent	or plain
Meter							
3 Ph + N	2	9	03152	03154	04333	03344	03807

(1) If not installed at the top of a Pack enclosure, order an addition horizontal partition (04333).

Earthing wire, 6mm²: cat. no. 08911

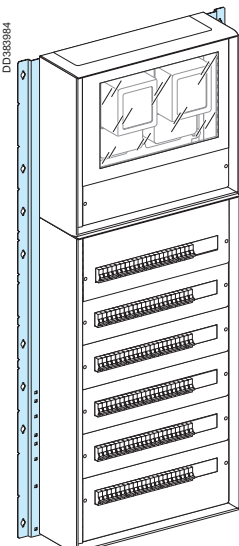


In an enclosure extension

Designation	Enclosure height (mm)	Enclosure	Full door	transparent door
Enclosure extension	630	08013	08083	08093

Reversible doors (opening to left or right), equipped with a handle (without barrel lock).

For barrel locks and inserts, see page D-16.



Device	No. per row	No. of vertical modules	Mounting plate	Insulating plate	Front plate transparent	or plain
Meter						
3 Ph + N	2	9	03152	03154	03344	03807

Earthing wire, 6mm²: cat. no. 08911

Combination uprights

To make the combination more rigid, particularly during transport, it is mandatory to use a set of combination uprights secured to the rear of the switchboard.

Designation	Cat. no.
2 combination uprights	08817

Modular devices in Pack wall-mounted enclosures General

Presentation

The components for switchboard and row incomers are the same. At the head of a switchboard, the incoming device can be supplied by one of the following:

- busbars mounted in rear of the enclosure
- centralised distribution blocks
- row distribution blocks

125/160 A Powerclip busbars

They are small in size, fully insulated (IPxxB) and supplied ready for installation. They are designed to receive one-piece connections.



Distribution by Polybloc



Distribution by Distribloc



Polybloc 160 A and Distribloc 125/160 A centralised distribution blocks

Downstream circuits are connected from the front, without screws, to spring terminals.

A reliable electrical connection, no maintenance required.

Fast connections make phase balancing very easy.

Rewiring is very easy if the switchboard is expanded or modified.

63/80 A Multiclip distribution blocks

Fast and secure front connection using spring terminals.

Particularly reliable connections, will not loosen over time, insensitive to vibrations and thermal variations.

All types of modular devices can be mixed.

Easy balancing of phases.

Interchangeable devices.

Easy installation upgrades.

Fully insulated.



Comb busbars

Direct connection to device terminals or via a connector.

Fully insulated.

Can be cut to length.

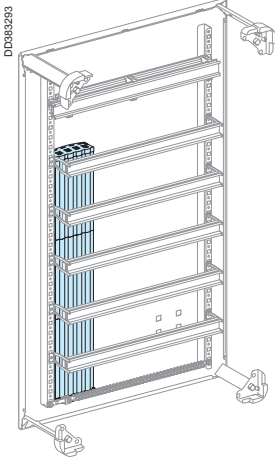
Modular devices in Pack

wall-mounted enclosures

Powerclip busbars

160 A Powerclip busbars

See page C-4.



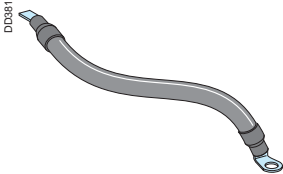
Powerclip busbars distribute energy over the full height of the enclosure. Available in two lengths (450 and 750 mm) in three and four-pole versions. The busbars can be cut to length every 150 mm.

They are supplied with clip-on covers that block off the connected cable lugs and can be cut as needed.

Cat. no. selection

125 A Powerclip busbars		Cat. no.
Three-pole	L = 450 mm	04103
	L = 750 mm	04107
Four-pole	L = 450 mm	04104
	L = 750 mm	04108
160 A Powerclip busbars		Cat. no.
Three-pole	L = 1000 mm	04111
Four-pole	L = 1000 mm	04121

Busbar connection



For NG125, and INS40/160 equipped with tunnel terminals

A 35 mm² ferrule for connection to tunnel terminals is crimped to one end.

A 45° ring lug is crimped to the other end.

95 mm² tunnel terminals for INS : cat. no. 28947 (set of 3) or cat. no. 28948 (set of 4).

Designation	Cat. no.
Four 125 A connections, L = 230 mm	04145

Device/Powerclip one-piece connections

Respects the degree of protection I_{pxxB} on both busbar and device ends.

Neutral is clearly indicated (blue).

NG160 incoming device (located on left-hand side), NG125, INS160, C120

One-piece 3/4 P fast connection to busbars, equipped with male fittings one end for tunnel terminals .

Designation	Cat. no.
One-piece connection, 160A, L = 150 mm	04147

A multi-purpose connection for:

- Supply to Powerclip busbars from a switchboard incomer
- Supply to a row incomer from Powerclip busbars.

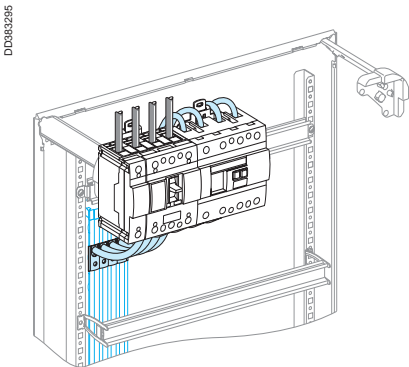
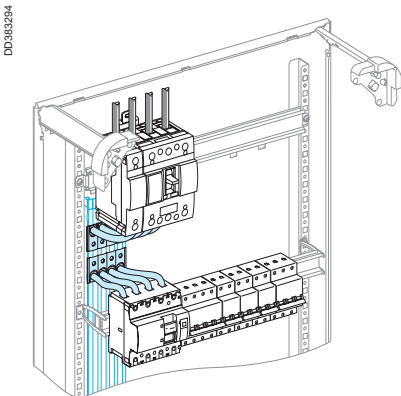
NG160 Vigi incoming device (located on left-hand side)

NG160 (without Vigi) incoming device (located in the middle)

NG125, INS160, C120

One-piece 3/4 P fast connection to busbars, equipped with male fittings one end for tunnel terminals .

Designation	Cat. no.
One-piece connection, 160A, L = 440 mm	04148

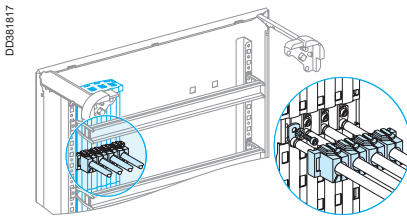
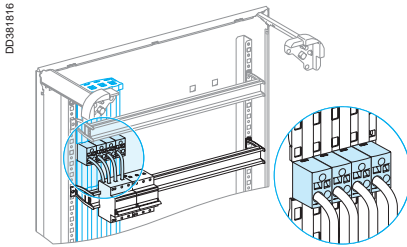


Modular devices in Pack

wall-mounted enclosures

Powerclip busbars

160A Powerclip busbars



Powerclip tap-off blocks

Each block can be used to connect:

- one 6 mm² and one 10 mm² cable (04151)
- one 16 mm² cables (04152).

Equipped with spring terminals.

Designation	Cat. no.
12 Powerclip tap-off blocks with 6 mm ² + 10mm ² terminals	04151
12 Powerclip tap-off blocks with 16 mm ² terminals	04152

Connection cover

Clip-on covers that block off the connected cable lugs and can be cut as needed. They maintain the IPxxB value for cables from 10 to 25 mm² with 90° angle lugs.

Designation	Cat. no.
8 IPxxB covers for Powerclip busbars	04150

8.8 class mounting hardware

Used for electrical connections to the copper bars.

Designation	Cat. no.
Set of 20 CHC M6 x 12 mm screws for Powerclip busbars	04158

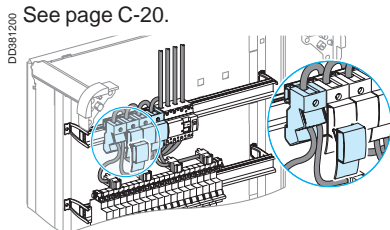
Modular devices in Pack

wall-mounted enclosures

Centralised distribution

160 A Polybloc distribution block

See page C-20.



Distribution block

Designation	Cat. no.
160 A Polybloc distribution block, 1P	04031

Note: installation on a raised DIN rail.

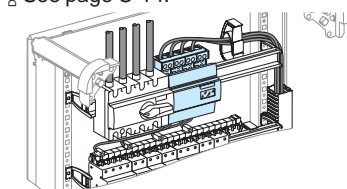
Connection for NG125, NG160, INS40/160 with or without Vigi

Two 45 mm² end fittings for tunnel terminals

Designation	Cat. no.
Four 160 A connections for modular devices, L = 380 mm	04149

125/160 A Distribloc distribution block

See page C-14.



125 A distribution block

Designation	Cat. no.
125 A Distribloc distribution block	04045

Note: installation on a raised DIN rail.

Connection for NG125, INS40/160, C120 with or without Vigi

A male ferrule for a tunnel terminal is crimped on one end.

A 45° angle lug with a hole is crimped on the other end.

Designation	Cat. no.
4 NG-INS125 connections for Distribloc, L = 210 mm	04047

160 A distribution block

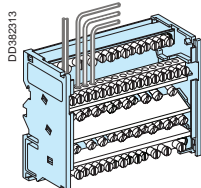
Designation	Cat. no.
160 A Distribloc distribution block	04046

Note: installation on a raised DIN rail.

Connection for NG160, INS100/160 with or without Vigi

The Distribloc 160 A distribution block comes with device connections.

40/125 A multi-stage distribution blocks



Designation	Cat. no.
100 A two-pole multi-stage distribution block (2 x 7 holes)	13506
125 A two-pole multi-stage distribution block (2 x 13 holes)	13507
40 A four-pole multi-stage distribution block (4 x 13 holes)	13508
100 A four-pole multi-stage distribution block (4 x 7 holes)	13510
125 A four-pole multi-stage distribution block (4 x 13 holes)	13512
125 A four-pole multi-stage distribution block (4 x 17 holes)	13514

Rated insulation voltage: 500 V.

Rated operational current: 40/100/125 A (40 °C).

Additional neutral bar	Cat. no.
For cat. no. 13508	13516
For cat. no. 13510	13515
For cat. no. 13512	13517
For cat. no. 13514	13518

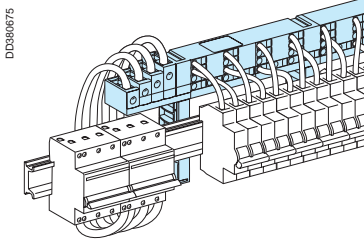
Modular devices in Pack

wall-mounted enclosures

Row distribution blocks

Multiclip distribution block

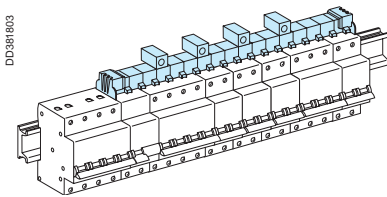
See page C-17.



DD3860675

Designation	Cat. no.
80 A Multiclip distribution block, 4P	04004
63 A Multiclip distribution block, 4P, 1/2 row	04008

Comb busbars



DD381803

48 modules comb for C60 circuit breaker	Cat. no.
One-pole	14891
Two-pole	14892
Three-pole	14893
Four-pole	14894

Rated insulation voltage: 500 V.

Rated operational current: 1 point: 80 A (40 °C)

2 points: 100 A (40 °C)

Comb accessories

Designation	Cat. no.	
40 end-caps	1P/2P/1P + N, for comb busbars	14886
	3P/4P/3P + N, for comb busbars	14887
40 tooth-caps for comb busbar teeth		14888
4 insulated connectors for 25 mm ² cables		14885

Modular devices in Pack wall-mounted enclosures

NG160, NG125, INS40/160, C120 incoming devices

Installation in 4, 5 and 6-row enclosures



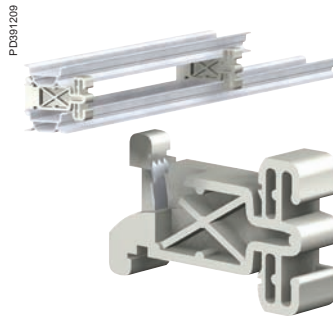
NG160 circuit breaker

An NG 160 circuit breaker, with or without a Vigi earth leakage protection module, can be installed as an incoming device on the top row of a Pack enclosure, behind a front plate with a modular opening.

The incoming device occupies 5 modules and can easily take cable of up to 70 mm². It can be positioned either on the left-hand side or in the middle of the enclosure.

A removable raised DIN rail optimises available space to allow installation of additional modular devices on both sides of the incoming device.

The raised DIN rail is designed for clip mounting with full electrical continuity ensured between the two supports.



NG125, C120 circuit breakers and INS40/160 switch-disconnectors

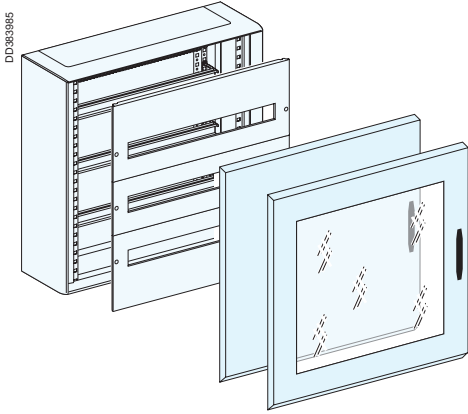
The top row equipped with the raised DIN rail (432 mm long) can be used to install NG125 and C120 circuit breakers or INS 40/160 switch-disconnectors..

Other solutions

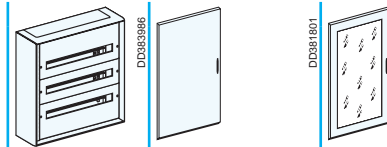
See page B-56.

Enclosures

2 and 3-row enclosures



- 2 and 3-row enclosures include:
- DIN rails for modular devices
 - earth bar
 - top and bottom front plates with cut-outs = 4.5 modules (225 mm)
 - front plate with cut-out = 3 modules (150 mm)
 - plastic gland plate
 - 3 divisible blanking plates.

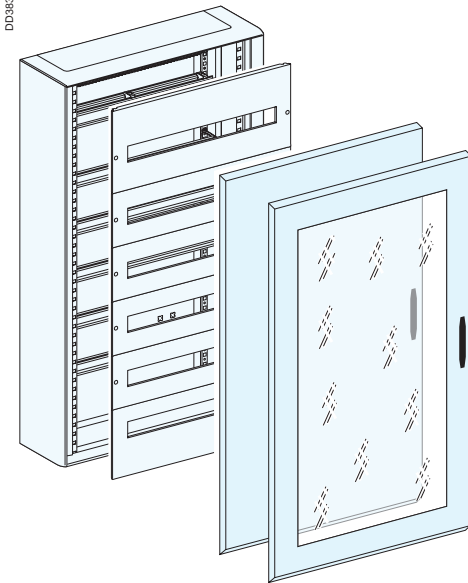


No. of rows	Height of enclosure	Enclosure	Plain door	Transparent door
2	480	08002	08082	08092
3	630	08003	08083	08093

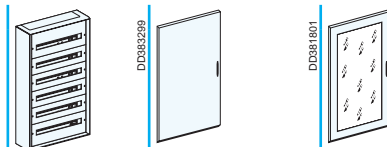
Reversible doors (opening to left or right), equipped with a handle (without barrel lock).

For barrel locks and inserts, see page D-16

4, 5 and 6-row enclosures



- 4, 5 and 6-row enclosures include:
- 1 DIN rail for an NG160 at the top of the enclosure
 - 1 DIN rail (L = 432 mm) and 4 raisers for installation of modular devices at the top of the enclosure
 - DIN rails for modular devices
 - earth bar
 - 1 top front plate with cut-outs = 5 modules (250 mm)
 - front plates with cut-outs = 3 modules (150 mm)
 - 1 bottom front plate with cut-outs = 4 modules (200 mm)
 - plastic gland plate
 - 6 divisible blanking plates.



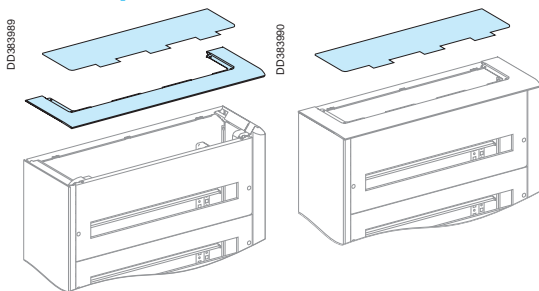
No. of rows	Height of enclosure	Enclosure	Plain door	Transparent door
4	780	08004	08084	08094
5	930	08005	08085	08095
6	1080	08006	08086	08096

Reversible doors (opening to left or right), equipped with a handle (without barrel lock).

For barrel locks and inserts, see page D-16.

Accessories

Gland plates

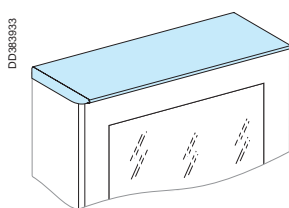


08878.

08879.

Designation	Cat. no.
Top or bottom plate with additional plastic gland plate	08878
Plain metal gland plate	08879

Canopy



08823.

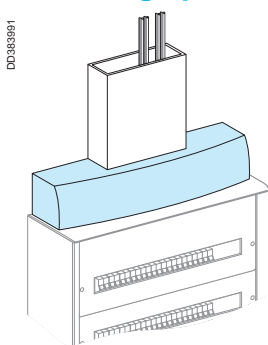
Designation	Cat. no.
Pack IP31 canopy	08823

The canopy cannot be mounted on the existing top plate.

It therefore comes with a special top plate that must be mounted in place of the existing top plate.

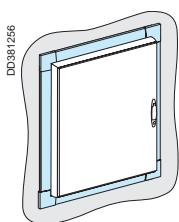
The existing top plate is remounted at the bottom of the enclosure to allow cable entry and exit via the bottom.

Trunking spreader



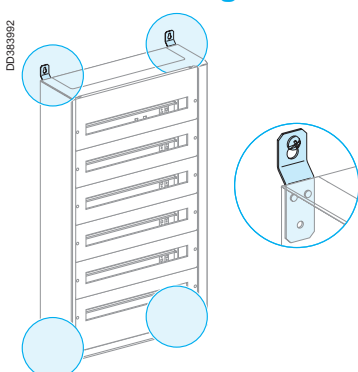
Designation	Cat. no.
Trunking spreader	08821

Flush-mount kit



Designation	Cat. no.
Flush-mount kit	08822

Wall mounting

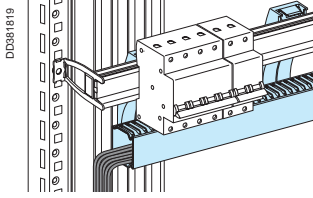


Designation	Cat. no.
4 external wall-mounted brackets	08803

Accessories

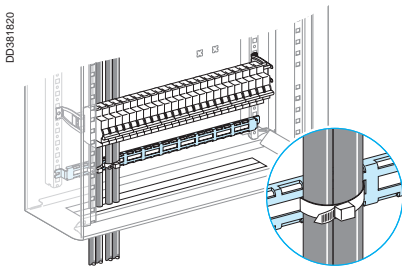
Cable running

see page C-34.



Designation	Cat. no.
Cable straps	
12 horizontal cable straps	04239
4 covers for horizontal cable straps, L = 430 mm	04243
Trunking	
4 horizontal sections, 60 x 30 mm, L = 450 mm + supports	04257
12 horizontal trunking supports	04255
2 fixing brackets, H = 15 mm (for vertical trunking)	04206

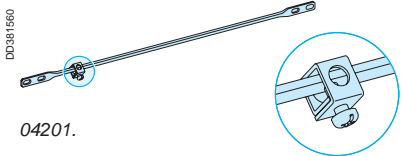
Cable-tie supports



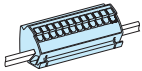
Designation	Cat. no.
2 cable-tie supports	08867

Earth bar

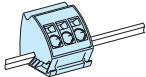
see page C-23.



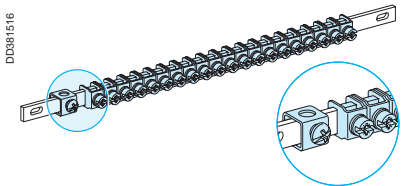
04201.



04214.



04215.



04200.

Presentation

The earth bar can be:

- a bare earth bar, 12 x 3 mm with 330 mm of connection space, equipped with a 35 mm² tunnel terminal and on which earth blocks with spring terminals can be clipped
- an earth bar (200 or 450 mm long), equipped with clamps with captive screws.

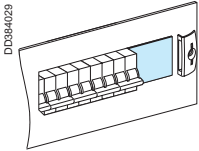
Earth bar with spring terminals	Cat. no.
Bare earth bar, 12 x 3 mm with 330 mm of connection space, equipped with a 35 mm ² tunnel terminal (for earth blocks with spring terminals)	04201
4 earth blocks with 12 x 4 mm ² spring terminals (L = 75 mm)	04214
4 earth blocks with 3 x 16 mm ² spring terminals (L = 37 mm)	04215
2 fixing brackets, H = 15 mm (for vertical earth bar)	04206

Earth bar with clamps	Cat. no.
Earth bar with 40 clamps + one 35 mm ² terminal (L = 450 mm)	04200

Accessories

Blanking plates

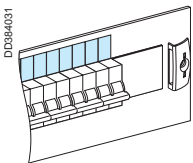
see page D-11.



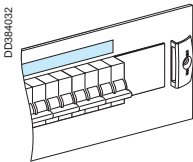
Designation	Cat. no.
Blanking strip, H = 46 mm, L = 1 m	03220
4 divisible blanking plates, H = 46 mm, L = 90 mm	03221

Identification labels

see page D-12.



Clip-on labels.

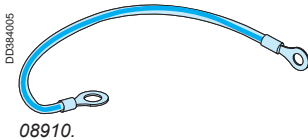


Adhesive labels.

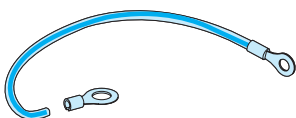
Designation	Cat. no.	
Clip-on labels		
12 clip-on labels	18 x 35 18 x 72 25 x 85	08913 08915 08917
12 engraving plates	18 x 35 18 x 72 25 x 85	08914 08916 08918
Adhesive labels		
12 label holders, W = 432 mm	H = 24 mm H = 36 mm	08903 08904
Symbol sheets		
Set of ten adhesive symbol sheets	standard special	13735 13736

Enclosure accessories

see page D-16.



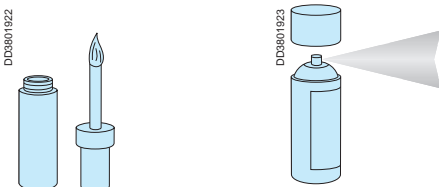
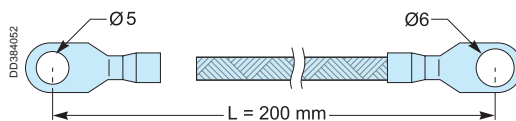
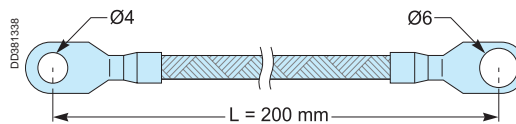
08910.



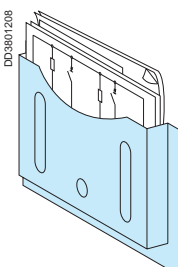
08911.

The braid or wire is equipped with a 4 mm diameter lug (08910) or a 5 mm diameter lug (08911) at one end and a 6 mm diameter lug on the other. It is used to earth a door or wicket door with devices.

Designation	Cat. no.
Earthing braid, 6 mm ²	08910
Earthing wire, 6 mm ²	08911

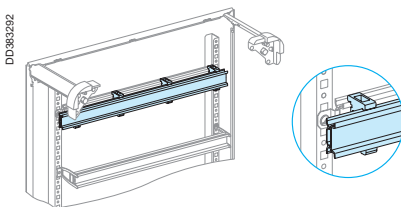
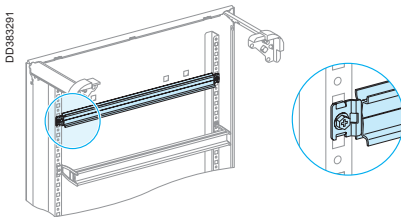
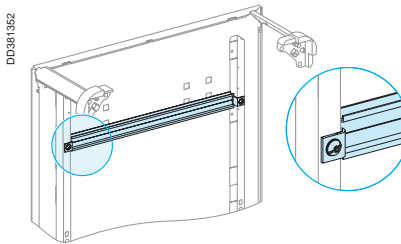
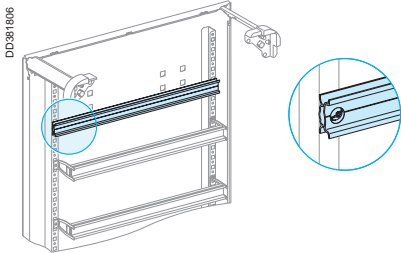


Designation	Cat. no.
Touch-up spray paint, RAL 9001	08962
Touch-up paint brush, RAL 9001	08961



Designation	Cat. no.
Adhesive drawing holder	08963

Installation on a modular rail

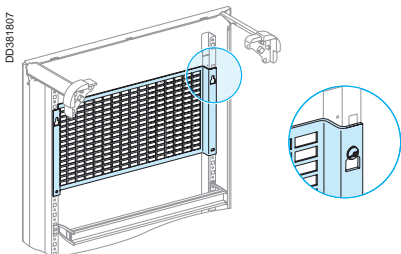


	Depth behind front plate (mm)	Useful length (mm)	
Designation			Cat. no.
Rear modular rail	79	432	03004
Recessed modular rail	110	432	03003

	Useful length (mm)	
Designation		Cat. no.
Modular device rail	432	03008

	Useful length (mm)	
Designation		Cat. no.
DIN rail and 4 modular raisers	432	04227

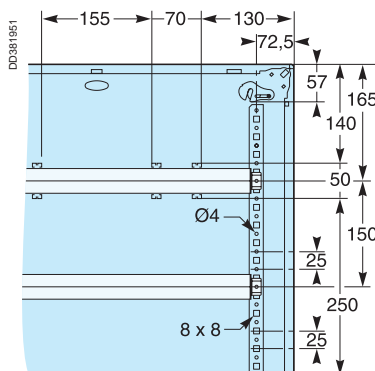
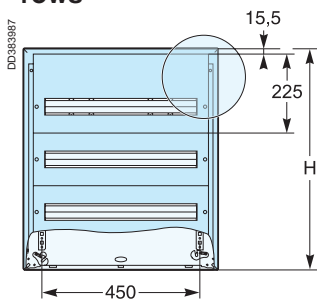
Installation on a slotted mounting plate



	No. of vertical modules	Useful height (mm)	Useful width (mm)	Depth behind front plate	
Designation					Cat. no.
Recessed slotted mounting plate	6	300	420	112	03172

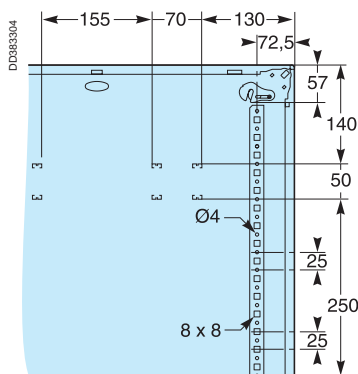
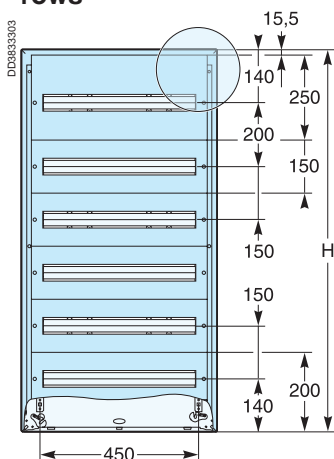
Dimensions

Wall-mounted enclosures of 2 and 3 rows



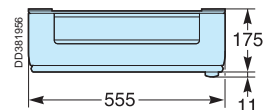
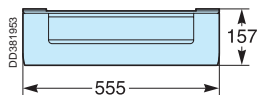
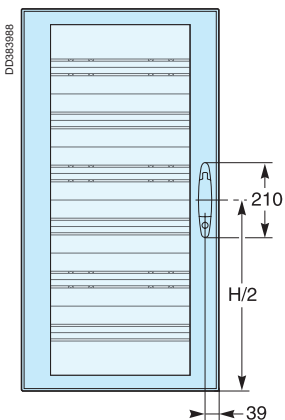
No. of rows		
2	3	
H	480	630

Wall-mounted enclosures of 4, 5 and 6 rows



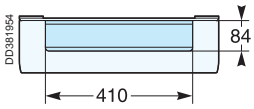
No. of rows		
4	5	6
H	780	930 1080

Door

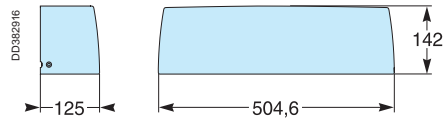


Dimensions

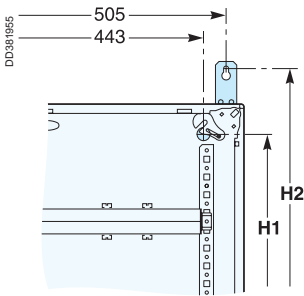
Gland plates



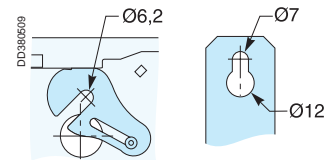
Trunking spreader



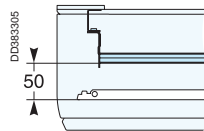
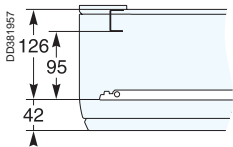
Wall mounted



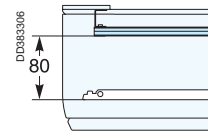
	No. of rows				
	2	3	4	5	6
H1	396	546	696	846	996
H2	546	696	846	996	1146



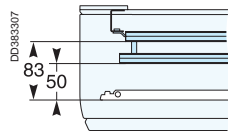
Depth behind front plate



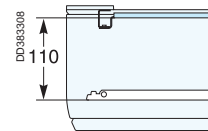
Delivred with rail set up



03004



Upper rail in wall-mounted enclosures of 4, 5 and 6 rows



03003



TOOLS

schneider-electric.com

This international site allows you to access all the Schneider Electric products in just 2 clicks via comprehensive range data-sheets, with direct links to:

- complete library: technical documents, catalogs, FAQs, brochures...
- selection guides from the e-catalog.
- product discovery sites and their Flash animations.

You will also find illustrated overviews, news to which you can subscribe, the list of country contacts...

CAD software and tools

The CAD software and tools enhance productivity and safety. They help you create your installations by simplifying product choice through easy browsing in the Schneider Electric offers.

Last but not least, they optimise use of our products while also complying with standards and proper procedures.



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Circuit breakers



The latest generation of a range that has set the standard in moulded-case circuit breakers, Compact NSX steps even further ahead to meet your needs in continuity of service and optimised energy use.

A high-performance range for each application

Breaking capacity at 415V



Performance level

NSX-B NSX-F NSX-N NSX-H NSX-S NSX-L

Applications

Usual applications with low short-circuit levels, e.g. service sector applications, retail stores, etc.



Small industrial installations



High performance at a reasonable cost



Demanding applications, e.g. merchant marine, metallurgy, etc.



A range of intelligent circuit breakers



Compact NSX improves management of electrical installations

In addition to protection functions, the new generation of Compact NSX moulded-case circuit breakers provides new features (analysis, measurements and communication) with access to information:

- either directly on the LCD screen of the trip unit to set the circuit breaker or read the main electrical values, including U, I, f, P(W) and E (kWh)
- or on the FDM 121 display on the front of the Prisma Plus switchboard (duct door with special front plate) for quick access to a greater wealth of information.

A cable connects the display to the trip unit without any special settings or configuration, making it easy to personalise alarms and displays or read event logs and maintenance indicators.

Presentation of Compact NSX circuit breakers for Prisma Plus

Integration of Compact NSX in Prisma Plus



The Compact NSX range is perfectly **interchangeable** with Compact NSX. As for Compact NS, installation of Compact NSX devices in a Prisma Plus functional switchboard is very easy, based on the same functional-unit system:

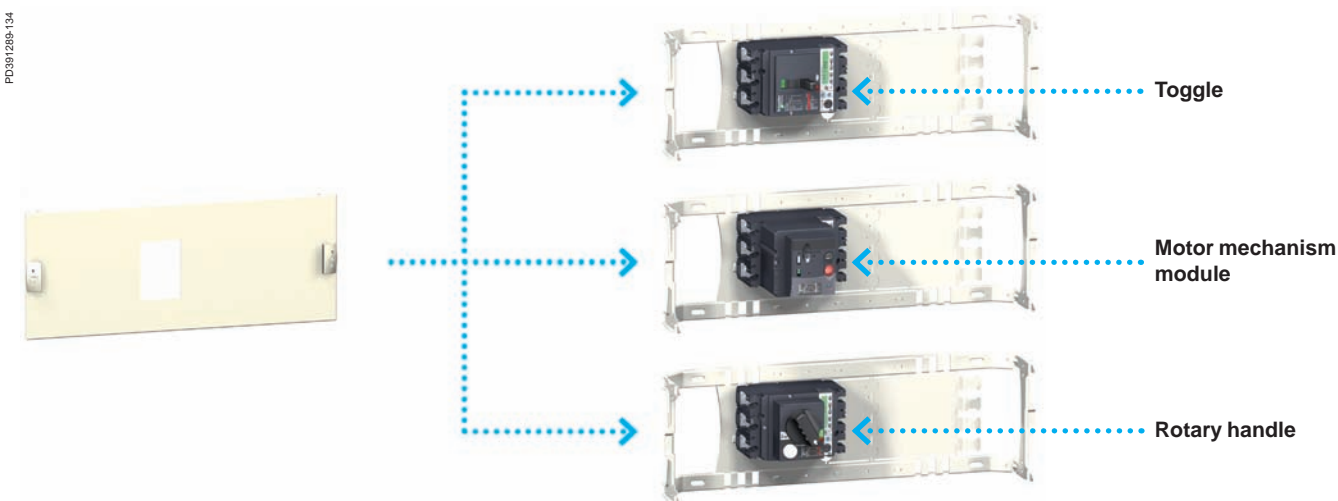
- same mounting plates as for the Compact NSX
- same power connections (Polypact distribution block and prefabricated connections)
- identical control connections
- identical partitioning (form 2b to 4b)
- same modularity (taking into account the safety clearances).

This greatly facilitates extension, maintenance and retrofitting operations in Prisma Plus switchboards.

- Only the front plates have been changed for this new range.

A new front plate for a new circuit breaker

The front of Compact NSX circuit breakers has an eye-pleasing curved profile, making Prisma Plus switchboards even more attractive. This change is perfectly in step with the new cut-out for Prisma Plus front plates (the same cut-out for all types of controls).



Installation architectures for the measurement function



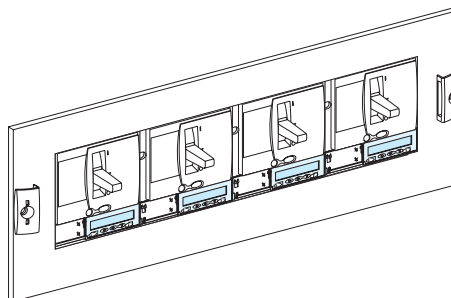
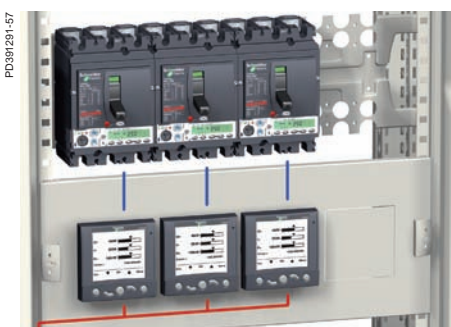
As mentioned above, Compact NSX circuit breakers equipped with Micrologic 5/6 A or E trip units provide measurements that can be read on the FDM 121 display module or directly on the circuit breaker. This makes it possible to optimise the space required by the functional unit.

Installation times have also been reduced with respect to a system with current transformers.

What is more, installation and connections are made easier because the FDM 121 is installed just like the 96 x 96 mm Power Meter PM devices:

- direct cut-out in a plain door
- on a front for one or four 96 x 96 devices in the functional unit or the 300 mm wide duct door.

Note: a single 24 V DC power supply is required to power both the FDM 121 display and the Micrologic trip unit.



For more information on the communication functions of Compact NSX, see the ULP-system user manual, doc. no. TRV99100, and the Compact NSX catalogue, doc. no. LVPED208001_EN.



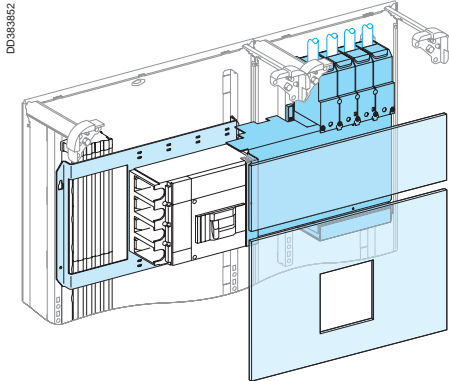
Compact NSX400/630

Horizontal

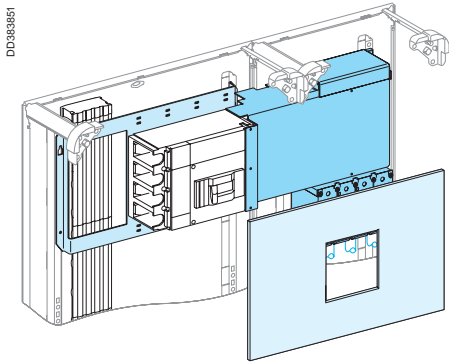
Fixed

Toggle

Installation



Cables via top to in-duct incoming connection block.

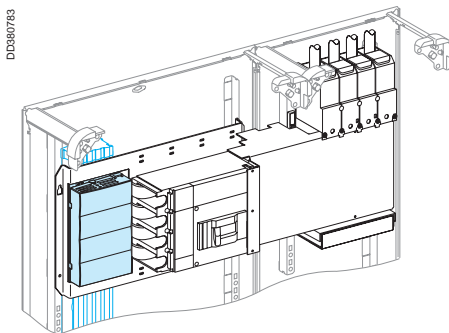


Cables via bottom to in-duct incoming connection block.

Connection to the in-duct incoming connection block

Device	No. of vertical modules	Mounting plate	Cut-out front plate	Upstream front plate	Incoming connection block
Compact NSX installed at top of switchboard					
NSX400/630 (cables via top)	9	03070	03296	03803	04076
NSX400/630 (cables via bottom)	6	03070	03296		04076
Compact NSX installed at bottom of switchboard					
NSX400/630 (cables via bottom)	9	03070	03296	03803	04076
NSX400/630 (cables via top)	6	03070	03296		04076

Distribution

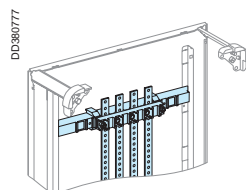


Powerclip insulated busbars, supplied by 400 A power supply block (04070).

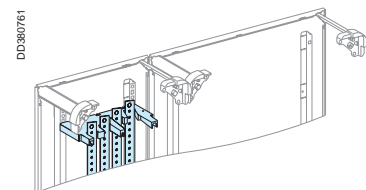
Powerclip insulated busbars

Device	Power supply block	Powerclip insulated busbars
Compact NSX		
NSX400	04070	see page C-5
NSX630	04071	see page C-5

Other distribution solutions



Rear busbars see page C-9.



Multi-stage busbars see page C-7



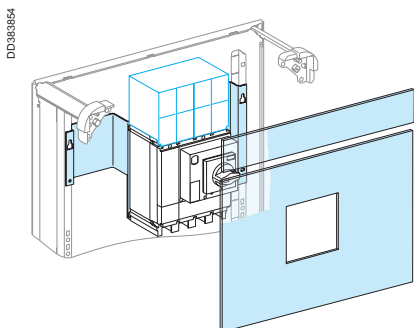
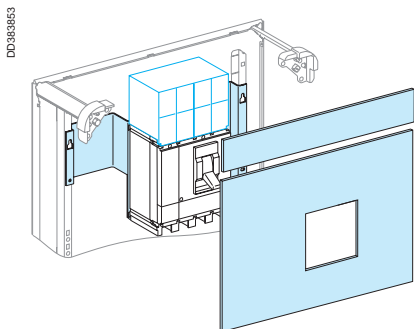
Compact NSX400/630

Vertical

Fixed

Toggle or direct rotary handle

Installation



Toggle

Device	No. of vertical modules ⁽¹⁾	Mounting plate	Cut-out front plate	Upstream front plate	Downstream frontplate	Long terminal shields
Compact NSX and Vigicompact NSX						
NSX400	11	03073	03275	03802		LV432593 (3P) LV432594 (4P)
NSX630	12	03073	03275	03802	03801	LV432593 (3P) LV432594 (4P)
Vigi NSX400	13	03073	03297	03802		LV432593 (3P) LV432594 (4P)
Vigi NSX630	14	03073	03297	03802	03801	LV432593 (3P) LV432594 (4P)

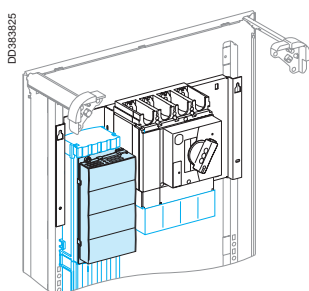
(1) With or without spreaders.

Direct rotary handle

Device	No. of vertical modules ⁽¹⁾	Mounting plate	Cut-out front plate	Upstream front plate	Downstream front plate	Long terminal shields
Compact NSX and Vigicompact NSX						
NSX400	14	03074	03275	03802	03803	LV432593 (3P) LV432594 (4P)
NSX630	14	03074	03275	03802	03803	LV432593 (3P) LV432594 (4P)
Vigi NSX400	17	03074	03297 + LV429285 (collar)	03802	03804	LV432593 (3P) LV432594 (4P)
Vigi NSX630	17	03074	03297 + LV429285 (collar)	03802	03804	LV432593 (3P) LV432594 (4P)

(1) With or without spreaders.

Distribution

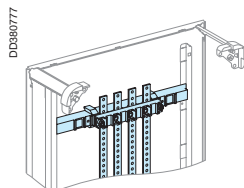


Powerclip insulated busbars, supplied by power supply block (04074) (supplied without connection).

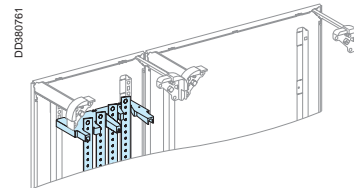
Powerclip insulated busbars

Device	Power supply block (without connection)	Short terminal shields	Powerclip insulated busbars
Compact NSX and Vigicompact NSX			
NSX400/630 and Vigi 3P	04074	32562	see page C-5
4P	04074	32563	

Other distribution solutions



Rear busbars see page C-9.



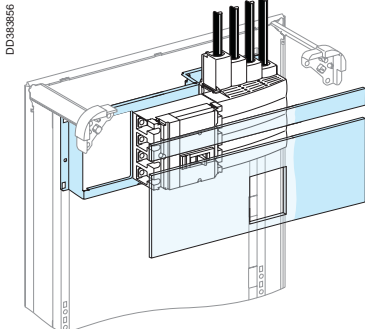
Multi-stage busbars see page C-7



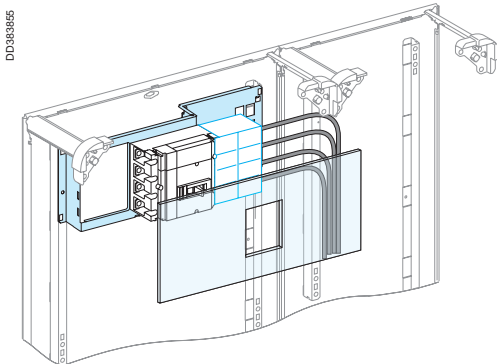
Compact NSX100/250

Horizontal
Fixed or plug-in
Toggle

Installation

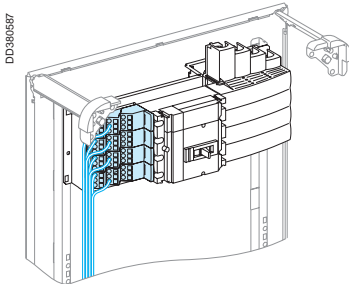


Compact circuit breaker with incoming connection block (04066).

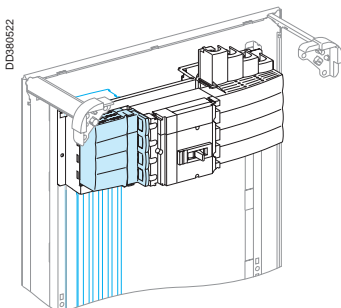


Direct connection to the Compact circuit breaker.

Distribution



Distribution using Polybloc (04034).



Distribution via Powerclip insulated busbars and NS250 power supply block (04060).

Without cable duct: with incoming connection block

Device	No. of vertical modules	Mounting plate	Cut-out front plate	Upstream front plate	Connection block cables via top	cables via bottom
Fixed Compact NSX						
NSX100/250	5	03030	03232	03801	04066	or 04067

Without cable duct: connection directly by cable

Device	No. of vertical modules	Mounting plate	Cut-out front plate	Upstream front plate	Long terminal shields	Cable tying
Fixed Vigicompact NSX						
Vigi NSX100/250	6	03033	03292	03802	LV429517 (3P) LV429518 (4P)	08867

Maximum size of connection cables: 70 mm².

For cable cross-sections greater than 70 mm², use of a cable duct is recommended.

With cable duct: direct connection to the device

Device	No. of vertical modules	Mounting plate	Cut-out front plate	Long terminal shields	Adaptor
Fixed Compact NSX and Vigicompact NSX					
NSX100/250	4	03030	03232	LV429517 (3P) LV429518 (4P)	
NSX100/250 with ammeter module	4	03033	03292	LV429517 (3P) LV429518 (4P)	
Vigi NSX100/250	4	03033	03292	LV429517 (3P) LV429518 (4P)	
Compact NSX, plug-in					
NSX100/250	4	03032	03290	LV429517 + LV429306 (3P) LV429518 + LV429307 (4P)	

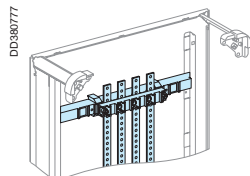
Polybloc

Device		Polybloc 250 A
Fixed Compact NSX and Vigicompact NSX		
NSX100/250	3P	04033
	4P	04034
Vigi NSX100/250	3P	04033
	4P	04034
Compact NSX, plug-in		
NSX100/250	3P	04033
	4P	04034

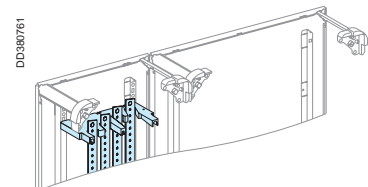
Powerclip insulated busbars

Device	Power supply block	Terminal shields	Powerclip busbars
Fixed Compact NSX and Vigicompact NSX			
NSX100/250	04060		see page C-5
NSX100/250 with ammeter module	04060	LV429515 (3P) LV429516 (4P)	see page C-5
Vigi NSX100/250	04060	LV429515 (3P) LV429516 (4P)	see page C-5

Other distribution solutions



Rear busbars, see page C-9.



Busbars in a duct, see page C-7.



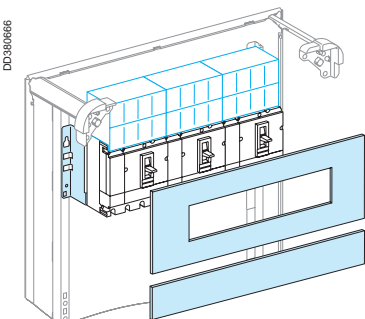
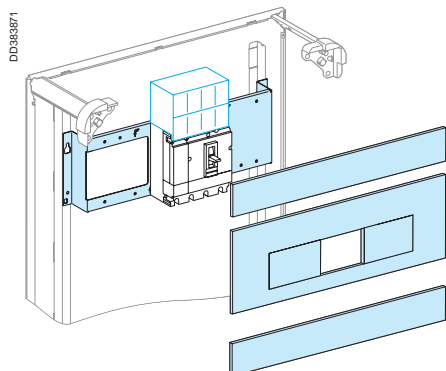
Compact NSX100/250

Vertical

Fixed

Toggle

Installation

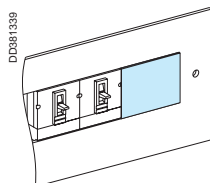


Fixed Compact NSX and Vigicompact NSX

Device	No. of devices per row	No. of vert. mod. (1)	Mounting plate	Cut-out front plate	Upstr. front plate	Downst. front plate	Long terminal shields
NSX100/160							
Toggle	1 4 x 3P, 3 x 4P	7	03040	03243		03802	LV429517 (3P) LV429518 (4P)
Rotary handle motor mech.	1 4 x 3P, 3 x 4P	7	03041	03243		03802	LV429517 (3P) LV429518 (4P)
NSX250							
Toggle	1 4 x 3P, 3 x 4P	9	03040	03243	03802	03802	LV429517 (3P) LV429518 (4P)
Rotary handle motor mech.	1 4 x 3P, 3 x 4P	9	03041	03243	03802	03802	LV429517 (3P) LV429518 (4P)
Vigi NSX100/160							
Toggle	1 4 x 3P, 3 x 4P	8	03040	03241		03801	LV429517 (3P) LV429518 (4P)
Rotary handle motor mech.	1 4 x 3P, 3 x 4P	8	03041	03244 + LV429285 (collar)		03801	LV429517 (3P) LV429518 (4P)
Vigi NSX250							
Toggle	1 4 x 3P, 3 x 4P	11	03040	03241	03802	03802	LV429517 (3P) LV429518 (4P)
Rotary handle motor mech.	1 4 x 3P, 3 x 4P	11	03041	03244 + LV429285 (collar)	03802	03802	LV429517 (3P) LV429518 (4P)

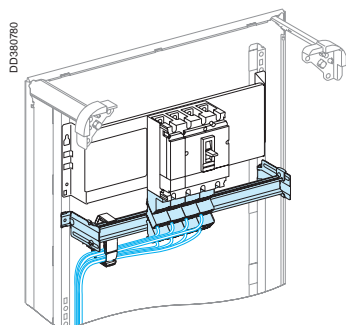
(1) With or without spreaders, whatever the distribution solution (Powerclip insulated busbars, Polybloc distribution block, etc.).

Accessories

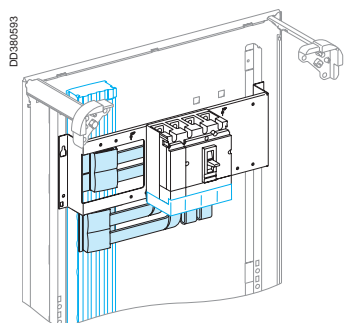


Blanking plate for vertical NSX100/250 (03249): see page D-27.

Distribution



Distribution using a Polybloc distribution block (04034) on an adjustable modular device rail (03002).



Distribution via Powerclip insulated busbars and a 250 A universal power supply block (04061) (without connection) + connection (04062).

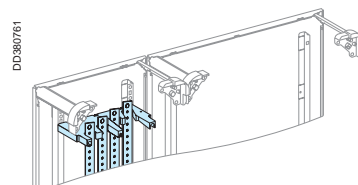
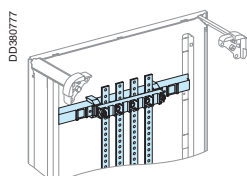
Polybloc

Device		Polybloc 250 A	Modular rail (adjustable)
Fixed Compact NSX and Vigicompact NSX			
NSX100/250	3P	04033	03002
	4P	04034	03002
Vigi NSX100/250	3P	04033	03002
	4P	04034	03002

Powerclip insulated busbars

Device	Univ. power supply block + connection (w/o connection)	Short terminal shields	Powerclip busbars
Fixed Compact NSX and Vigicompact NSX (1 device centred on mounting plate)			
NSX100/250	04061 + 04062	LV429515 (3P) LV429516 (4P)	see page C-5
Vigi NSX100/250	04061 <i>must be made</i>	LV429515 (3P) LV429516 (4P)	see page C-5

Other distribution solutions



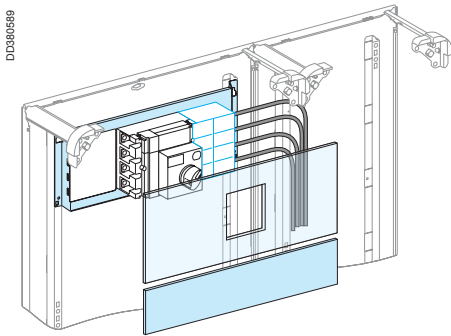
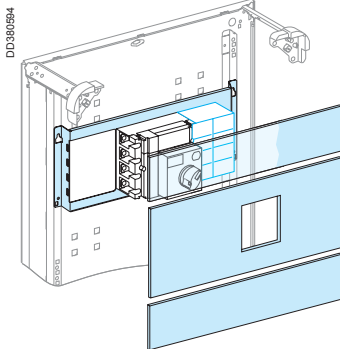


Compact NSX100/250

Horizontal, fixed

Direct rotary handle or motor mechanism

Installation



Without cable duct

Device	No. of vertical modules ⁽¹⁾	Mounting plate	Cut-out front plate	Upstream front plate	Downstr. front plate	Long terminal shields
Compact NSX, Vigicompact NSX, fixe						
NSX100/250 Dir. rotary handle	8	03031	03232	03802	03802	LV429517 (3P) LV429518 (4P)
NSX100/250 Motor mech.	8	03032	03234	03802	03802	LV429517 (3P) LV429518 (4P)
Vigi NSX100/250 Dir. rotary handle	8	03031	03292 + LV429285 (collar)	03802	03802	LV429517 (3P) LV429518 (4P)

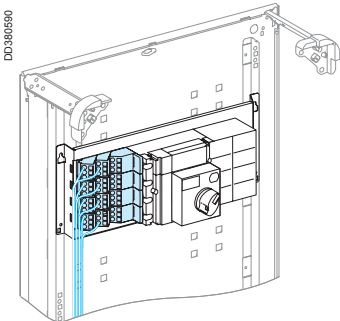
(1) Distribution using Polybloc.
Size reduced two modules, lower front plate (03802) not needed.

With cable duct

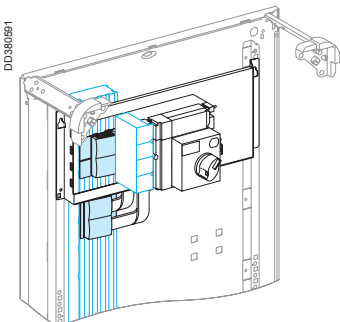
Device	No. of vertical modules ⁽¹⁾	Mounting plate	Cut-out front plate	Downstr. front plate	Long terminal shields
Compact NSX, Vigicompact NSX, fixe					
NSX100/250 Dir. rotary handle	6	03031	03232	03802	LV429517 (3P) LV429518 (4P)
NSX100/250 Motor mech.	6	03032	03234	03802	LV429517 (3P) LV429518 (4P)
Vigi NSX100/250 Dir. rotary handle	6	03031	03292 + LV429285 (collar)	03802	LV429517 (3P) LV429518 (4P)

(1) Distribution using Polybloc.
Size reduced two modules, lower front plate (03802) not needed.

Distribution



Distribution using Polybloc (04034).



Distribution via Powerclip insulated busbars and a 250 A universal power supply block (04061) (supplied without connection).

Polybloc

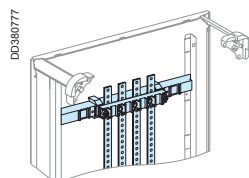
Device	Polybloc 250 A	
Fixed Compact NSX and Vigicompact NSX		
NSX100/250	3P	04033
	4P	04034
Vigi NSX100/250	3P	04033
	4P	04034

For cable cross-sections greater than 70 mm², use of a cable duct is recommended.

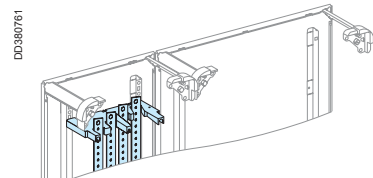
Powerclip insulated busbars

Device	Univ. power supply block (w/o connection)	Short terminal shields	Powerclip busbars
Fixed Compact NSX and Vigicompact NSX			
NSX100/250	04061	LV429515 (3P) LV429516 (4P)	see page C-5
Vigi NSX100/250	04061	LV429515 (3P) LV429516 (4P)	see page C-5

Other distribution solutions



Rear busbars, see page C-9.



Busbars in a duct, see page C-7.



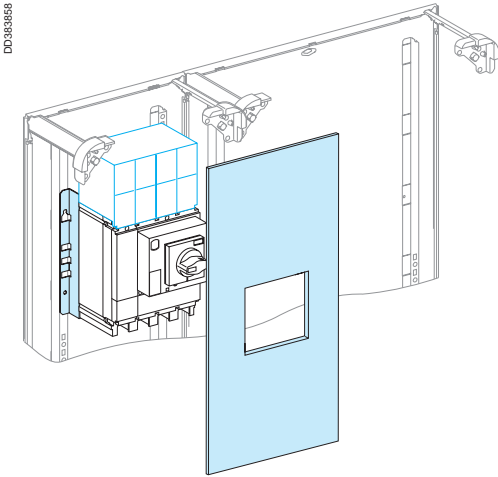
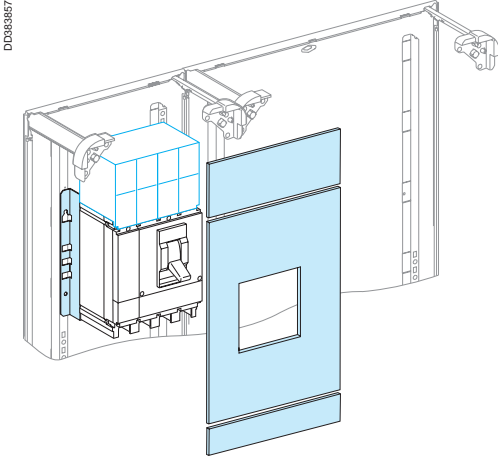
Compact NSX100/630

Vertical

Fixed

Toggle or direct rotary handle

Installation



Toggle

Device	No. of vertical modules ⁽¹⁾	Mounting plate	Cut-out front plate	Upstream front plate	Downstream front plate	Long terminal shields
Compact NSX						
NSX100/250	9	03050	03253			LV429517 (3P) LV429518 (4P)
NSX400	11	03080	03298	03812	03811	LV432593 (3P) LV432594 (4P)
NSX630	12	03080	03298	03812	03812	LV432593 (3P) LV432594 (4P)
Vigi Compact NSX						
Vigi NSX100/250	11	03050	03293			LV429517 (3P) LV429518 (4P)
Vigi NSX400/630	14	03080	03299	03812	03812	LV432593 (3P) LV432594 (4P)

(1) With or without spreaders.

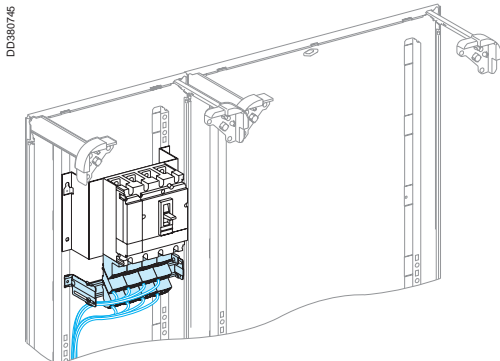
Direct rotary handle

Device	No. of vertical modules ⁽¹⁾	Mounting plate	Cut-out front plate	Long terminal shields
Compact NSX				
NSX100/250	9	03051	03253	LV429517 (3P) LV429518 (4P)
NSX400/630	12	03081	03283	LV432593 (3P) LV432594 (4P)

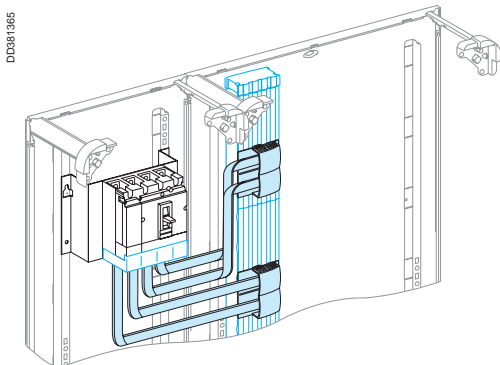
(1) With or without spreaders.



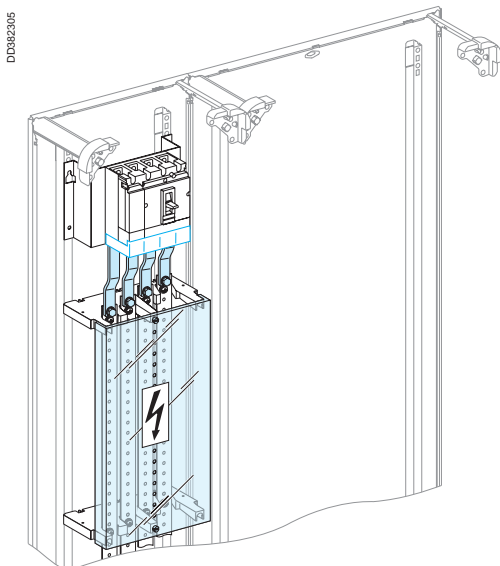
Distribution



Distribution via a Polybloc distribution block (04034) on a modular device rail (03011).



Distribution via Powerclip insulated busbars and a 250 A universal power supply block (04061) (without connection) + connection (04064).



Polybloc

Device	250 A Polybloc	Modular rail (adjustable)
--------	----------------	---------------------------

Compact NSX and Vigi Compact NSX			
NSX100/250 and Vigi	3P	04033	03011
	4P	04034	03011

Powerclip insulated busbars

Device	Univ. power supply block (w/o conn)	Short terminal shields	Powerclip busbars
--------	-------------------------------------	------------------------	-------------------

Compact NSX and Vigi Compact NSX			
NSX100/250 and Vigi	04061	+ 04064	LV429515 (3P) LV429516 (4P)
NSX400/630 and Vigi	04074	+ 04073	LV432591 (3P) LV432592 (4P)

Note: space available at the top of the enclosure after mounting the universal power supply block:

NSX100/630 = 7 modules

Vigi NSX100/630 = 9 modules.

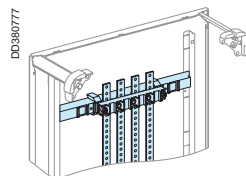
Space required by power supply block on Powerclip busbars = 5 modules.

Multi-stage busbars

Device	Connection	Short terminal shields	Multi-stage busbars
--------	------------	------------------------	---------------------

Designation			
NSX100/250 and Vigi	04065	LV429515 (3P) LV429516 (4P)	see page C-7
NSX400/630 and Vigi	04075	LV432591 (3P) LV432592 (4P)	see page C-7

Other distribution solutions



Rear busbars, see page C-9.

Easypact EZC100

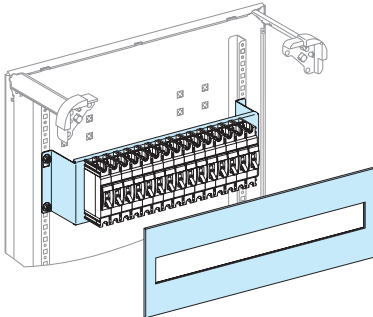
Vertical

Fixed

Toggle

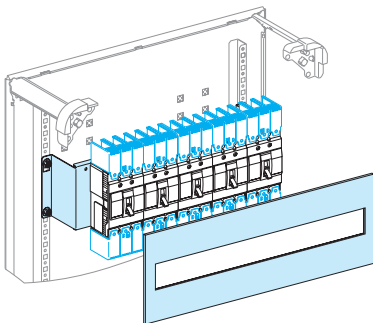
Installation

DD388110



Easypact EZC100 1P.

DD383044



Easypact EZC100 3P.

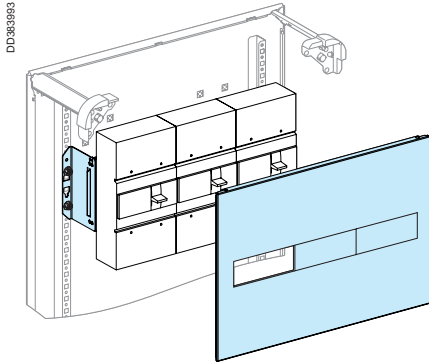
Device	No. of devices per row	No. of vertical modules	Mounting plate	Cut-out front plate	Long terminal shields (set of 2)
Easypact					
EZC100	15 x 1P	5	03102	03303	
	5 x 3P	5	03102	03303	EZATSHD3P
	3 x 4P	5	03102	03303	EZATSHD4P

Accessories

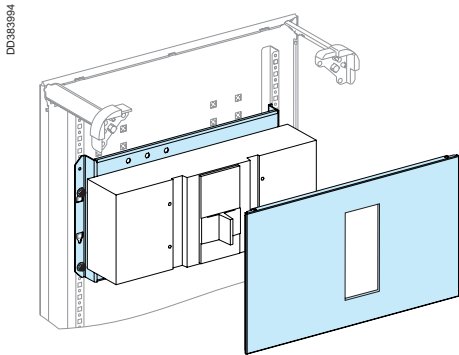
Designation	Cat. no.
1 divisible blanking plate, H = 85 mm, L = 147 mm colour: white RAL 9001	03249



Installation



Easypact Ezc250.



Easypact Ezc400.

Vertical devices

Device	No. of devices per row	No. of vertical modules	Mounting plate	Cut-out front plate	Long terminal shields (set of 2)
Easypact					
Ezc250	4 x 3P	6	03104	03305	EZETSHD3PN
	3 x 4P	6	03104	03305	EZETSHD4PN
Ezc400	1 x 3P	10	03105	03307	EZ4TSHD3P
	1 x 4P	10	03105	03307	EZ4TSHD4P

Horizontal devices

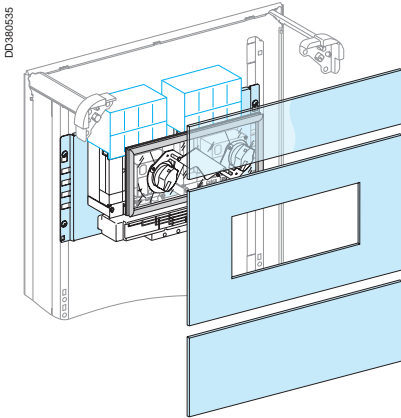
Device	No. of devices per row	No. of vertical modules	Mounting plate	Cut-out front plate	Long terminal shields (set of 2)
Easypact					
Ezc250	1 x 3P	3	03104	03304	EZETSHD3P
	1 x 4P	3	03104	03304	EZETSHD4P
Ezc400	1 x 3P	5	03105	03306	EZ4TSHD3P
	1 x 4P	5	03105	03306	EZ4TSHD4P

Manual source changeover system

Fixed NSX100/250

Direct rotary handle

Source changeover system with mechanical interlocking



Device	No. of vertical modules	Mounting plate	Cut-out front plate	Upstream front plate	Downstream front plate
Compact NSX with direct rotary handle, front connection					
NSX100/250	10	03043	03245	03802	03803
<i>Designation</i>		<i>Cat. no.</i>			
Long terminal shields		LV429517 (3P)			
		LV429518 (4P)			
Mechanical interlock		LV429369			
Coupling accessory		29358 (for 3P device)			
		29359 (for 4P device)			

Circuit breakers

Widths of Multi 9 devices (in number of 9 mm modules)

Description	Width in 9 mm modules			
	1P	1P + N 2P	3P 3P + N	4P
Alarm, ATo4x technical	8			
Ammeter, AMP analogue	8			
Ammeter, mul i-rating	4			
Ammeter, AMP digital	4			
Auxiliaries, for ID, C60, C120	1-2-4			
Auxiliaries, for C32H-DC	1-2			
Auxiliaries, NO/NC	2			
Auxiliaries, ACTp and ACTr for contactor	2			
Auxiliaries, ACTo+f for contactor	1			
Auxiliaries, NTVo and TTVo for remote dimmer	2			
Bell or buzzer	2			
Circuit breaker, D'cl'ic, D'cl'ic XE		2		
Circuit breaker, D'cl'ic Vigi		4		
Circuit breaker, DT40, DT40N		2	6	
Circuit breaker, DT40 Vigi		4		
Circuit breaker, C32H-DC	2	4		
Circuit breaker, C60/N/H/L/LMA	2	4	6	8
Circuit breaker, C120/N/H	3	6	9	12
Circuit breaker, NG125	3	6	9	12
Auxiliary 2 OF or OF + SD	1			
Auxiliary MX + OF or MN	2			
Auxiliary MN s	4			
Circuit breaker, NG125 Vigi s		11	18	21
Circuit breaker, NG125 Vigi I/S/R		11	20	23
Circuit breaker, P25M			5	
Auxiliary MN	1			
Auxiliary MX + OF	2			
Circuit breaker, Reflex XC40		8	10	12
Contactor, CT 16/25 A	2	2	4	4
Contactor, CT 40/63/100 A		4-6	4-6	6-12
Contactor, ACTc auxiliary	2			
Contactor, CDS 1-ph load shedder	10			
Contactor, CDSc 1-ph load shedder	16			
Contactor, CDS 3-ph load shedder			16	
Contactor, CT+ silent	2			
Cooling spacer	1			
Counter, CI pulse	4			
Counter, CH time	4			
Dimmer, Vo1000	10			
Extension, ETL for TL impulse relay	2			
Extension, ERL	2			
Frequency meter, FREQ	4			
Fuse carriers, STI, SF'cl'ic	2	2-4	6	6
Fuse-holder, SBI 14 x 51	3	6	9	12
Fuse-holder, SBI 22 x 58	4	8	12	16
Impulse relay, TL 16 A and 32 A, ETL 16 and 32 A	2	2		
Impulse relay, TLI 16 A and TLc	2			
Impulse relay, Tlm and TLs	2			
Impulse relay auxiliaries, ATLc+c and ATLc+s	2			
Impulse relay auxiliaries, ATLt and ATLz	2			
Impulse relay auxiliaries, ATL4	4			
Impulse relay, TL+ silent	2			
Insulation monitor, SM21	8			
Kilowatt-hour meter, CE, CEr	12			
Load shedder, DSE'cl'ic 2-channel	6			
Load shedder, DSE'cl'ic 4-channel	8			
Multimeter, PM9	8			
Optical repeater, RPo	2 + 2			
Power sockets, PC, 10 A and 16 A		5		
Power sockets, PC, 20 A	8			
Pushbuttons	2			
Rccb, ID'cl'ic	4			
Rccb, ID'cl'icXE	4			
Rccb, ID		4		8
Rccb, ITG40		4		
Regulator, REGad1/REGad2	12			
Relay, RBN low level	2			

Circuit breakers

Description	Width in 9 mm modules			
	1P	1P + N 2P	3P 3P + N	4P
Relay, RCI/RCU/RCP and RCC	4			
Relay, timed-delayed, RTA, RTB, RTC, RTH, RTL, RTMF	2			
Relay, RLI	2			
Remote control, TBS	8			
Remote control, Tm60-Tm120		7	7	
Remote dimmer, TVo1000	10			
Remote dimmer, TVBo	6			
Remote dimmer, TV700, TVe700	6			
Selector switches, CM	2	4		
Selector, 2-position with return to OFF	4			
Selector switch, CMA for ammeters	4			
Selector switch, CMV for voltmeters	4			
Selector switch, CME 2-way	4			
Selector switch, CMD 4-way	4			
Signal lamps	2			
Surge arrester, PF'clac Combi		6		
Surge arrester, 2P, PF8, PF15		4		
Surge arrester, 2P, PF30 (r)		6		
Surge arrester, 4P, PF8, PF15, PF30 (r)			8	
Surge arrester, 4P, PF65 (r)			14	
Surge arrester, 1P, PE65/40/15/8	2			
Surge arrester, PRC'clac telephone	2			
Surge arrester, PRD	2	4	6	8
Switch, 20 A and 32 A	2	2	4	4
Switch, 40, 63, 100 and 125 A	2	4	6	8
Switch, IB double junction		4		
Switch, astronomic light sensitive	5			
Switch, IC200 light sensitive	5			
Switch, IC2000 light sensitive	7			
Switch, IC2000P light sensitive	10			
Switch, INA		5		9
Switch, ISO	6			
Switch-fuse combinations	2	4	6	8
Switch-off warning, PRE	2			
Thermostat, TH3 and TH6	8			
Thermostat, THP1	10			
Thermostat, THP2	10			
Time switch, IHP, IHH, IH	2			
Time switch, IH	6			
Time switch, IH	12			
Time switch, ITM multifunctional	10			
Time switch, IHP 24-hr/7-day. IHP'clac	5			
Time switch, IHP impulse 24-hr/7-day	5			
Time switch, IHP 3-4 ch., impulse	10			
Time switch, IHP, annual	10			
Timer, MIN	2			
Timer, MINe, MINp, MINs	2			
Transformer, TR, 4 VA	4			
Transformer, TR, 8 and 16 VA	4			
Transformer, TR, 25 VA	6			
Transformer, TR, 16 VA to 63 VA	10			
Vigilohm, EM (9, 9B)	8			
Vigilohm, TRS5A and SM21	11			
Vigirex, RH (10A/AP, 320A/AP, 328A/AP)	8			
Vigi module C60 y 25 A		3	6	6
Vigi module C60 y 40 and 63 A		4	7	7
Vigi module C120 all ratings		7	10	10
Vigi module NG125		5	9	11
Vigi module XC40		3	4	5
Vigi module XC40 (30 mA)		3	5	5
Vigi module DT40		2	4	
Vigi module TG40		2	6	
Voltage adaptor module, MDU	1			
Voltmeter, VLT analogue	8			
Voltmeter, VLT digital	4			
Watt-hour meters, ME1, ME1z, ME1zr	4			
Watt-hour meters, ME3, ME3zr, ME3zrt			8	
Watt-hour meters, ME4, ME4zr, ME4zrt				8

Presentation



Very rigid modular rails

Made using an aluminium alloy, the rail design is extremely rigid.

The rails come crimped to their supports.

The rail supports can be either:

- adjustable and indexed to receive the different types of incoming devices
- fixed to receive modular devices.

Fast mounting

The pre-mounted rail supports have positioning studs to guide the rail at the rear of the enclosure.

Only two mounting screws are required.

A removable raised DIN rail

This accessory optimises available space to allow installation of modular devices on both sides of the incoming device.

The raised DIN rail is designed for clip mounting with full electrical continuity ensured between the two supports. Multiple functions

A number of devices clip directly onto the rear of the rails, including 80 A and 200 A Multiclip distribution blocks, all horizontal cable-running accessories such as cable straps and trunking supports, as well as the supports for earth bars.

Supply from all directions

Supply to the rows, using comb busbars or Multiclip distribution blocks, can be via:

- a Polybloc distribution block installed beside the incoming device
- Powerclip insulated busbars installed behind the devices
- multi-stage busbars installed in a lateral duct
- flat busbars installed at the rear of the enclosure.

Polybloc and Distribloc centralised distribution blocks

Downstream circuits are connected from the front, without screws, to spring terminals.

a reliable electrical connection, no maintenance required.

fast connections make phase balancing very easy.

rewiring is very easy if the switchboard is expanded or modified.

Multiclip distribution blocks

Fast and secure front connection using spring terminals.

Particularly reliable connections, will not loosen over time, insensitive to vibrations and thermal variations.

All types of modular devices can be mixed.

Easy balancing of phases.

Interchangeable devices.

Easy installation upgrades.

Fully insulated.

Comb busbars

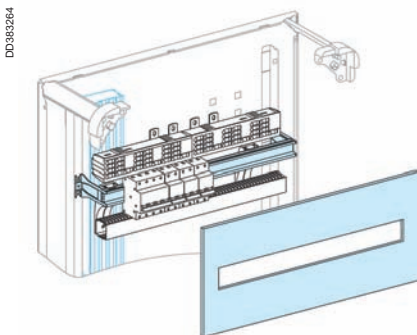
Connection by screws.

Direct connection to device terminals or via a connector.

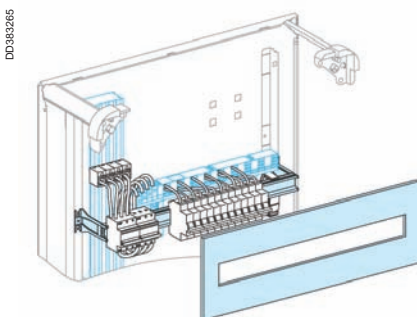
Fully insulated.

Can be cut to length.

Multi 9 devices



Supply: 200 A Multiclip.
Cable running: trunking.
Mounting requires 4 vertical modules.



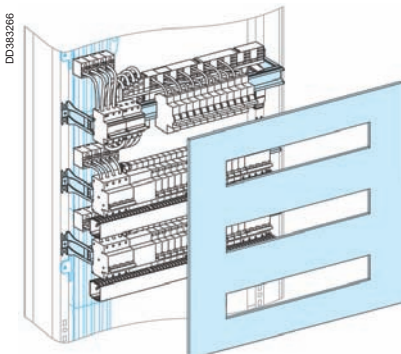
Supply: 80 A Multiclip.
Cable running: cable straps.
Mounting requires 3 vertical modules.

Device	No. of vertical modules	Modular rail	Modular front plate
All Multi 9 devices			
All supply systems (comb busbars, Multiclip) with cable straps and trunking sections	4	03001	03204
Multi 9 devices ≤ 40 A			
Supply via 63/80 A Multiclip or comb busbars with cable straps	3	03001	03203

Capacity of modular rail: 48 Multi 9 modules.

Note: For a modular row with a 160 A (half row) and 200 A Multiclip distribution block positioned directly below a non-modular mounting plate (Compact, Interpact, etc.), or at the top of a switchboard, add one vertical module (i.e. 4 + 1) and a plain upstream front plate (03801).

3 rows of Multi 9 device



Device	No. of vertical modules	Modular rail	Modular front plate
Designation			
3 rows of Multi 9 devices ≤ 40 A supply via comb busbars or Multiclip distribution blocks (63/80 A) Cable running using cables straps	8	03001 x 3	03223

Capacity of modular rail: 48 Multi 9 modules.

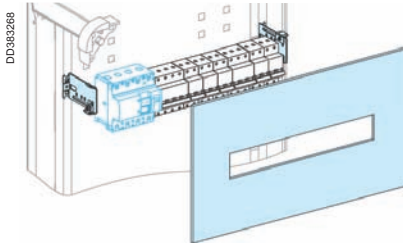
Modular devices

80/160A incoming devices

NG160, NG125, C120 circuit breakers

INS40/160 switch-disconnectors

NG160 circuit breaker



Device	No. of vertical modules	Adjustable modular rail ⁽¹⁾	Modular front plate
NG125 circuit breaker			
NG160, Vigi NG160	5	03002 + 04227	03205

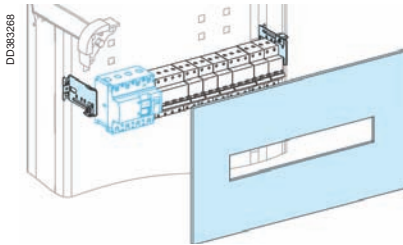
(1) To add modular devices to the row, order a raised DIN rail (04227).

Capacity of modular rail: 48 Multi 9 modules.

Width of NG160 circuit breakers:

- NG160 3P: 10 Multi 9 modules
- NG160 4P: 14 Multi 9 modules
- Vigi NG160 3P: 24 Multi 9 modules
- Vigi NG160 4P: 27 Multi 9 modules

NG125, C120 circuit breaker



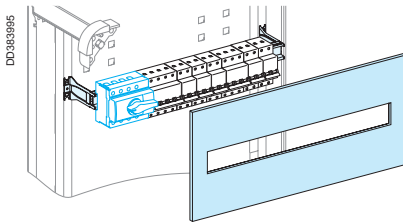
Device	No. of vertical modules	Adjustable modular rail	Modular front plate
NG125 circuit breaker			
NG125, Vigi NG125 C120, Vigi C120	5	03001	03205

Capacity of modular rail: 48 Multi 9 modules.

Width of NG125/C120 circuit breakers:

- NG125 3P: 9 Multi 9 modules
- NG125 4P: 12 Multi 9 modules
- Vigi NG125 3P 63 A: fixed sensitivity 18 Multi 9 modules
adjustable sensitivity 20 Multi 9 modules
- > 63 A: fixed sensitivity 20 Multi 9 modules
adjustable sensitivity 20 Multi 9 modules
- Vigi NG125 4P 63 A: fixed sensitivity 21 Multi 9 modules
adjustable sensitivity 23 Multi 9 modules
- > 63 A: fixed sensitivity 23 Multi 9 modules
adjustable sensitivity 23 Multi 9 modules
- C120 3P: 9 Multi 9 modules
- C120 4P: 12 Multi 9 modules
- Vigi C120 3P: 19 Multi 9 modules
- Vigi C120 4P: 22 Multi 9 modules

INS40/160 switch-disconnector



Device	No. of vertical modules	Adjustable modular rail	Modular front plate
INS40/160			
INS40/160	4	03001	03204
INS100/160 with long terminal shields	5	03001	03205

Capacity of modular rail: 48 Multi 9 modules.

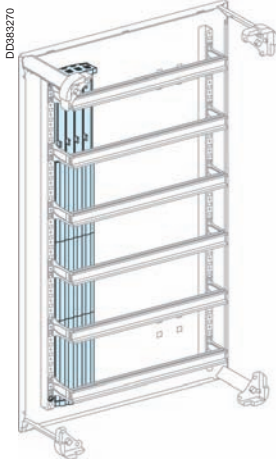
Width of devices:

- INS40/80: width 10 Multi 9 modules
- INS100/160: width 15 Multi 9 modules

Circuit breakers

125 A Powerclip busbars

See page C-4.



Available in two lengths (450 and 750 mm) in three and four-pole versions. The busbars can be cut to length every 150 mm.

They are supplied with clip-on covers that block off the connected cable lugs and can be cut as needed.

Cat. no. selection

125 A Powerclip busbars		Cat. no.
Three-pole	L = 450 mm	04103
	L = 750 mm	04107
Four-pole	L = 450 mm	04104
	L = 750 mm	04108

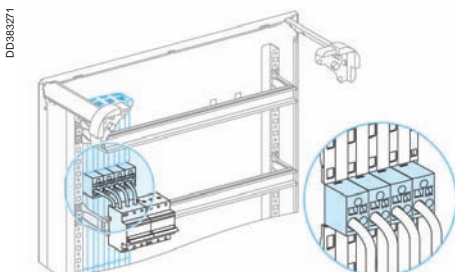
160/630 A Powerclip busbars

Available in two lengths (1000 and 1400 mm) in three and four-pole versions. The busbars can be cut to length every 200 mm.

Prefabricated connections are available for the devices.

Powerclip busbars	160 A	250 A	400 A	630 A	
Three-pole	L = 1000 mm	04111	04112	04113	04114
	L = 1400 mm	04116	04117	04118	04119
Four-pole	L = 1000 mm	04121	04122	04123	04124
	L = 1400 mm	04126	04127	04128	04129

Powerclip accessories



Powerclip tap-off blocks

Each block can be used to connect:

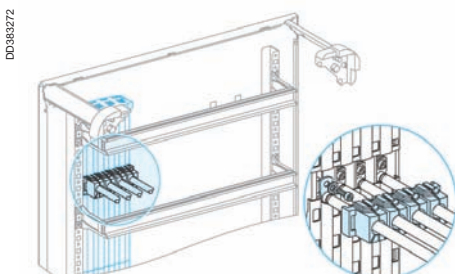
- one 6 mm² and one 10 mm² cable (04151)
- one 16 mm² cables (04152).

Equipped with spring terminals.

Designation	Cat. no.
12 Powerclip tap-off blocks with 6mm ² + 10mm ² terminals	04151
12 Powerclip tap-off blocks with 16 mm ² terminals	04152

Connection cover

Clip-on covers that block off the connected cable lugs and can be cut as needed. They maintain the IPxxB value for cables from 10 to 25 mm² with 90° angle lugs.



Designation	Cat. no.
8 IPxxB covers for Powerclip busbars	04150

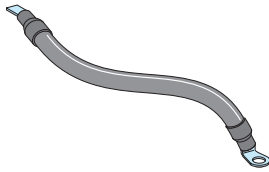
8.8 class mounting hardware

Used for electrical connections to the copper bars.

Designation	Cat. no.
Set of 20 CHC M6 x 12 mm screws for Powerclip busbars	04158

Busbar connection

DD381379



For NG125, and INS40/125 equipped with tunnel terminals

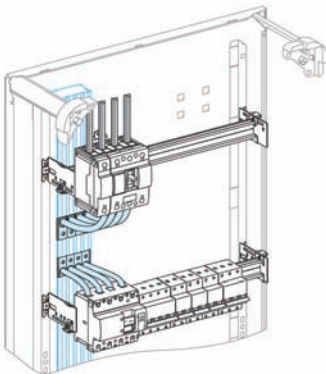
A 35 mm² ferrule for connection to tunnel terminals is crimped to one end.

A 45° ring lug is crimped to the other end.

95 mm² tunnel terminals for INS : cat. no. 28947 (set of 3) or cat. no. 28948 (set of 4).

Designation	Cat. no.
Four 125 A connections, L = 230 mm	04145

DD383273



One-piece device/Powerclip connection

Respects the degree of protection I_pxX_B on both busbar and device ends.

Neutral is clearly indicated (blue).

NG160 incoming device (located on left-hand side), NG125, INS160, C120

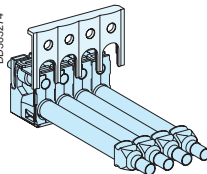
One-piece 3/4 P fast connection to busbars, equipped with male fittings one end for tunnel terminals .

Designation	Cat. no.
One-piece connection, 160A, L = 150 mm	04147

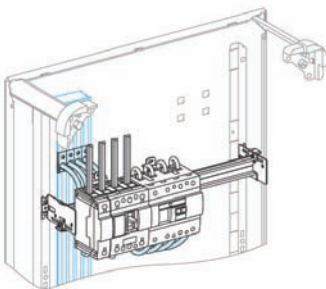
A multi-purpose connection for:

- Supply to Powerclip busbars from a switchboard incomer
- Supply to a row incomer from Powerclip busbars.

DD383274



DD383275



NG160 Vigi incoming device (located on left-hand side)

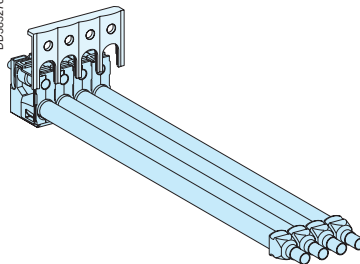
NG160 (without Vigi) incoming device (located in the middle)

NG125, INS160, C120

One-piece 3/4 P fast connection to busbars, equipped with male fittings one end for tunnel terminals .

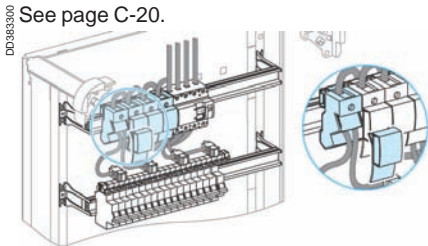
Designation	Cat. no.
One-piece connection, 160A, L = 440 mm	04148

DD383276



160 A Polybloc distribution block

See page C-20.



160 A distribution block

Designation	Cat. no.
160 A Polybloc distribution block, 1P	04031

Note: installation on a raised DIN rail.

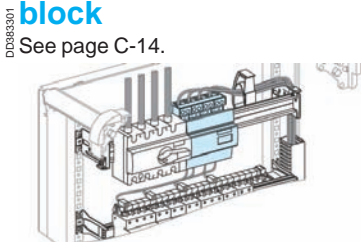
Connection for NG125, NG160, INS40/160 with or without Vigi

Two 45 mm² end fittings for tunnel terminals

Designation	Cat. no.
Four 160 A connections for modular devices, L = 380 mm	04149

125/160 A Distribloc distribution block

See page C-14.



125 A distribution block

Designation	Cat. no.
125 A Distribloc distribution block	04045

Note: installation on a raised DIN rail.

Connection for NG125, INS40/160, C120 with or without Vigi

A male ferrule for a tunnel terminal is crimped on one end.
A 45° angle lug with a hole is crimped on the other end.

Designation	Cat. no.
4 NG-INS125 connections for Distribloc, L = 210 mm	04047

160 A distribution block

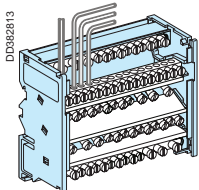
Designation	Cat. no.
160 A Distribloc distribution block	04046

Note: installation on a raised DIN rail.

Connection for NG160, INS100/160 with or without Vigi

The Distribloc 160 A distribution block comes with device connections.

40/125 A multi-stage distribution blocks



Designation	Cat. no.
100 A two-pole multi-stage distribution block (2 x 7 holes)	13506
125 A two-pole multi-stage distribution block (2 x 13 holes)	13507
40 A four-pole multi-stage distribution block (4 x 13 holes)	13508
100 A four-pole multi-stage distribution block (4 x 7 holes)	13510
125 A four-pole multi-stage distribution block (4 x 13 holes)	13512
125 A four-pole multi-stage distribution block (4 x 17 holes)	13514

Rated insulation voltage: 500 V.

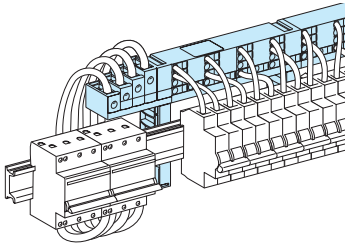
Rated operational current: 40/100/125 A (40 °C).

Additional neutral bar	Cat. no.
For cat. no. 13508	13516
For cat. no. 13510	13515
For cat. no. 13512	13517
For cat. no. 13514	13518

Circuit breakers

Multiclip distribution blocks

DD380675



Distribution block

Designation	Cat. no.
Multiclip, 80 A, 4P	04004
Multiclip, 63 A, 4P, 1/2 row	04008
Multiclip, 200 A, 2P	04012
Multiclip, 200 A, 3P	04013
Multiclip, 200 A, 4P	04014
Multiclip, 160 A, 4P, 1/2 row	04018

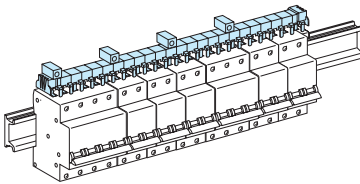
Connections

Designation	Cat. no.
Connection between 200 A Multiclip and Powerclip insulated busbars	04021
Connection between 160 A Multiclip (1/2 row) and devices	04030

See page C-17

Comb busbars

DD380755



For C60 circuit breakers

Designation	Cat. no.
1P 24-module comb busbar (9 mm modules)	14481
Two 48-module comb busbars (9 mm modules)	14891
2P 24-module comb busbar (9 mm modules)	14482
Two 48-module comb busbars (9 mm modules)	14892
3P 24-module comb busbar (9 mm modules)	14483
Two 48-module comb busbars (9 mm modules)	14893
4P 24-module comb busbar (9 mm modules)	14484
Two 48-module comb busbars (9 mm modules)	14894

For C120 and NG125 circuit breakers

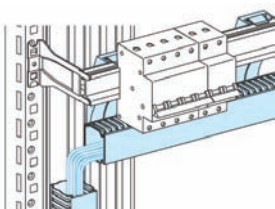
Designation	Cat. no.
1P (W = 430 mm, 16 poles)	14811
2P (W = 430 mm, 16 poles)	14812
3P (W = 430 mm, 16 poles)	14813
4P (W = 430 mm, 16 poles)	14814
Tooth caps (set of 20)	14818

Comb accessories

Designation	Cat. no.
40 end-caps 1P/2P/1P + N, for comb busbars	14886
3P/4P/3P + N, for comb busbars	14887
40 tooth-caps for comb busbar teeth	14888
4 insulated connectors for 25 mm ² cables	14885

Cable running

DD383388

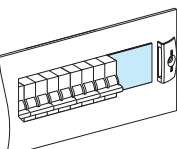


Designation	Cat. no.
Cable straps	04264
12 vertical cable straps	
2 covers, 1-meter long, for vertical cable straps	04263
12 horizontal cable straps	04239
4 covers, 430 mm long, for horizontal cable straps	04243
Trunking	04257
4 horizontal sections, 60 x 30 mm, L = 450 mm	
Vertical section, 80 x 60 mm, L = 2 m	04267
12 horizontal trunking supports	04255
10 adaptable horizontal trunking supports	04256
12 vertical trunking supports	04265

See page C-34

Blanking plates

DD384029

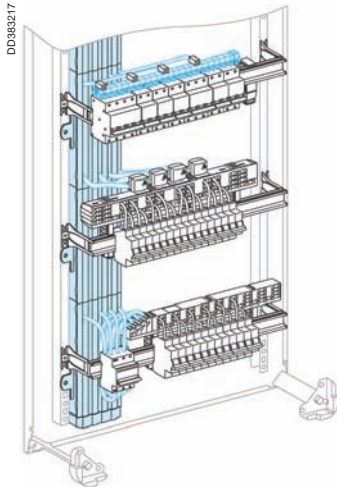


Designation	Cat. no.
Blanking strip, H = 46 mm, L = 1 m	03220
4 divisible blanking plates, H = 46 mm, L = 90 mm	03221

See page D-27

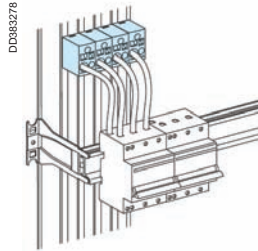
Circuit breakers

Powerclip insulated busbars

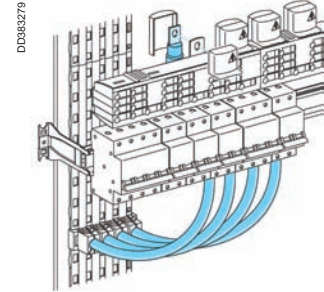


Busbar selection

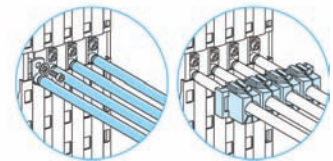
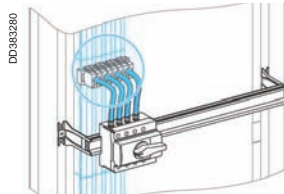
See page C-5.



Tap-off blocks for insulated busbars (04151).



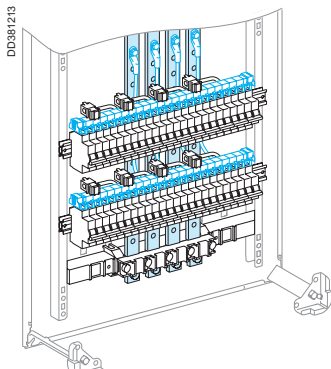
Supply to a 200 A Multiclip distribution block (04021).



Connection 04145.

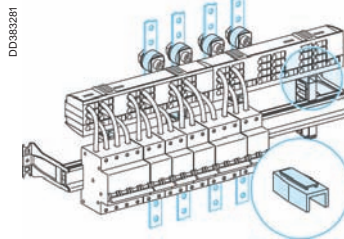
Cover for connection 04150.

Rear busbars

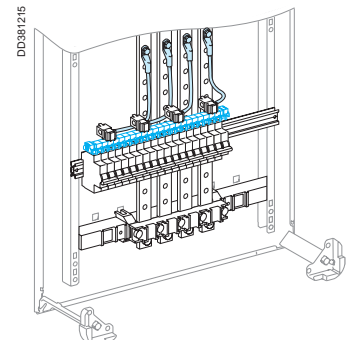


Busbar selection

See page C-9.

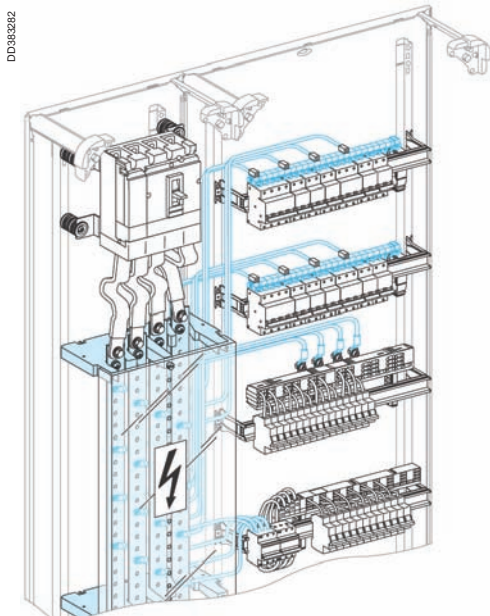


200 A Multiclip connection (04029).



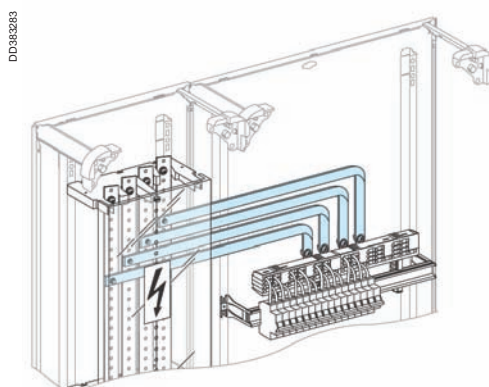
125 A connection to a comb busbar (04145).

Busbars in a duct



Busbar selection

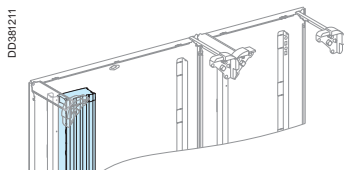
See page C-7.



Supply to a 200 A Multiclip distribution block (04024).

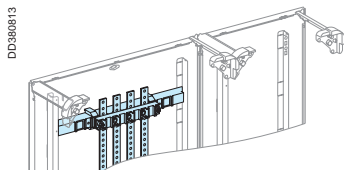
Powerclip insulated busbars

See page C-4.



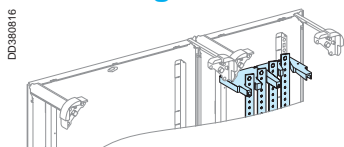
Rear busbars

See page C-9.



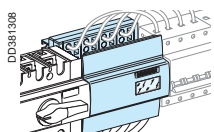
Multi-stage busbars

See page C-7.



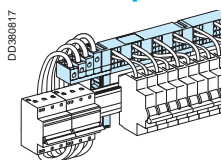
Distribloc distribution blocks

See page C-14.



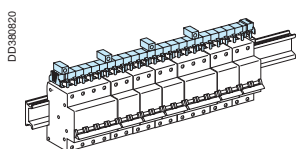
Multiclip distribution blocks

See page C-17.



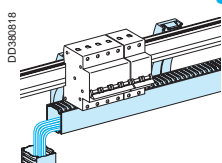
Comb busbars

See page B-20.



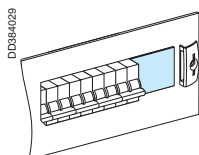
Cable running

See page C-34.



Blanking plates

See page B-53.

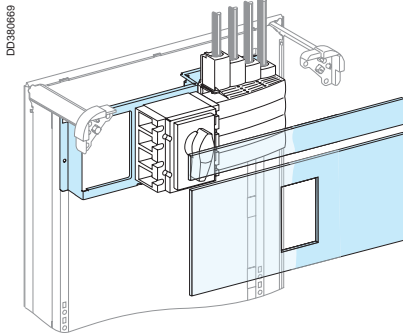


Interpact INS-INV250/630

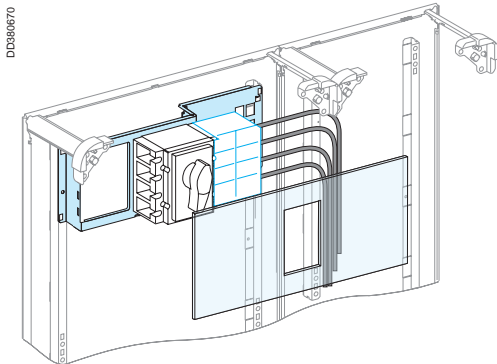
Horizontal

Direct front handle

Installation



Interpact INS-INV250 with incoming connection block (04066).



Direct connection to Interpact INS-INV250.

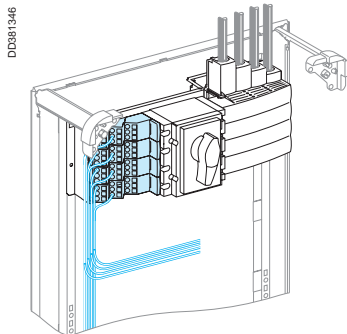
Without cable duct: with connection block

Device	No. of vertical modules	Mounting plate	Cut-out front plate	Upstream front plate	Connection block cables via top	cables via bottom
Interpact INS-INV						
INS-INV250	5	03030	03231	03801	04066	or 04067

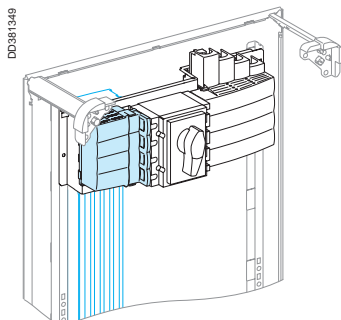
With cable duct: direct connection to the device

Device	No. of vertical modules	Mounting plate	Cut-out front plate	Upstream front plate	Long terminal shields
Interpact INS-INV					
INS-INV250	4	03030	03231		29324
INS-INV250/630 cables via top	9	03070	03271	03803	32565
INS-INV250/630 cables via bottom	6	03070	03271		32565

Distribution



Distribution using Polybloc (4P).



Distribution via Powerclip insulated busbars and NSX250 power supply block (04060).

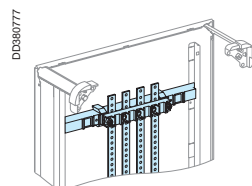
Polybloc

Device		Polybloc 250 A
Interpact INS-INV		
INS-INV250	3P	04033
	4P	04034

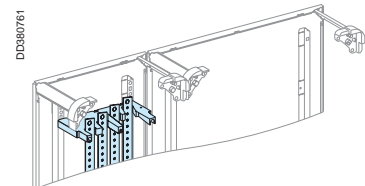
Powerclip insulated busbars

Device	Power supply block	Powerclip busbars
Interpact INS-INV		
INS-INV250	04060	see page C-5
INS-INV250/400	04070	see page C-5
INS-INV500/630	04071	see page C-5

Other distribution solutions



Rear busbars, see page C-9.



Multi-stage busbars, see page C-7.

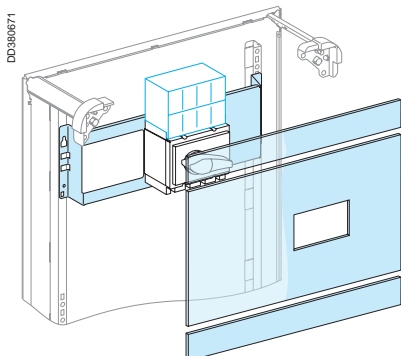
Interpact INS-INV250/630

Vertical

Direct front handle

Lateral handle

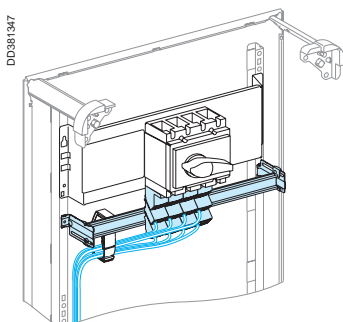
Installation



Device	No. of vertical modules ⁽¹⁾	Mounting plate	Cut-out front plate	Upstream front plate	Downstream front plate	Long terminal shield
Interpact INS-INV						
INS-INV250 front handle	8	03040	03248	03801	03802	29324
INS-INV250 lateral handle	8	03032		03806	03802	29324
INS-INV250/400 front handle	10	03073	03274			32565
INS-INV500/630 front handle	12	03073	03274	03802		32565

(1) With or without spreaders.

Distribution

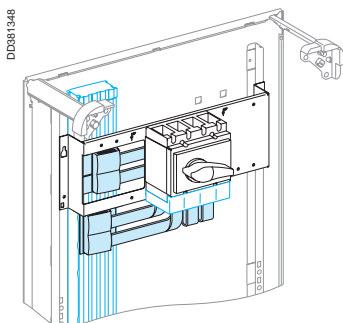


Distribution using a Polybloc distribution block (04034) on an adjustable modular device rail (03002).

Polybloc

Device		Polybloc 250 A	Modular rail adjustable
Interpact INS-INV			
INS-INV250 front handle	3P	04033	03002
	4P	04034	03002
INS-INV250 lateral handle	3P	04033 + 04037	03003
	4P	04034 + 04037	03003

04037: copper spacer.

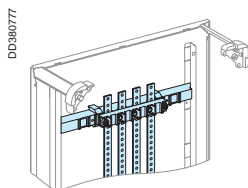


Distribution via Powerclip insulated busbars and a 250 A universal power supply block (04061) (without connection) + connection (04062).

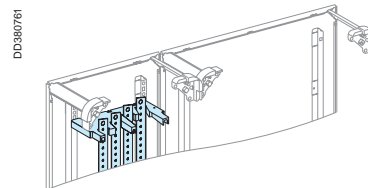
Powerclip insulated busbars

Device	Power supply block (w/o connection)	+ connection	Short terminal shield	Powerclip busbars
Interpact INS-INV				
INS-INV250	04061	+ 04062	29322	see page C-5
INS-INV250/630	04074	must be made	32563	see page C-5

Other distribution solutions

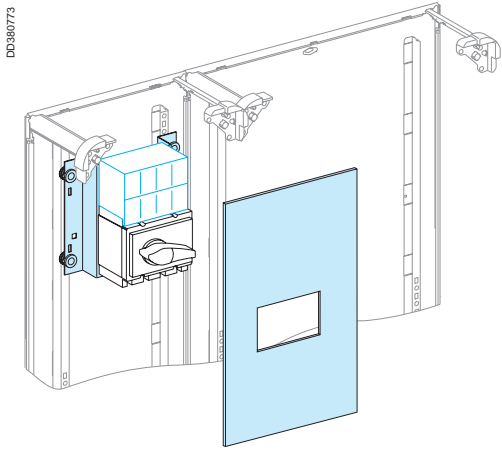


Rear busbars, see page C-9.



Multi-stage busbars, see page C-7.

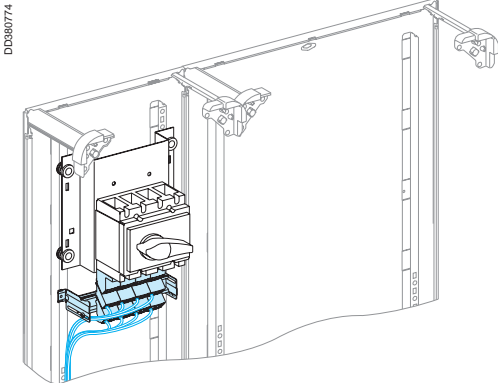
Installation



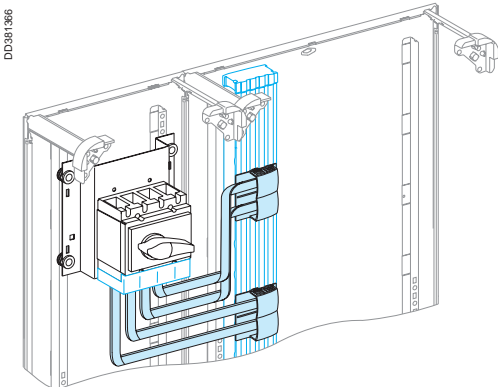
Device	No. of vertical modules ⁽¹⁾	Mounting plate	Cut-out front plate	Downstream front plate	Long terminal shields
Interpact INS-INV					
INS-INV250	9	03050	03251		29324
INS-INV250/400	10	03080	03281		32565
INS-INV500/630	12	03080	03281	03812	32565

(1) With or without spreaders.

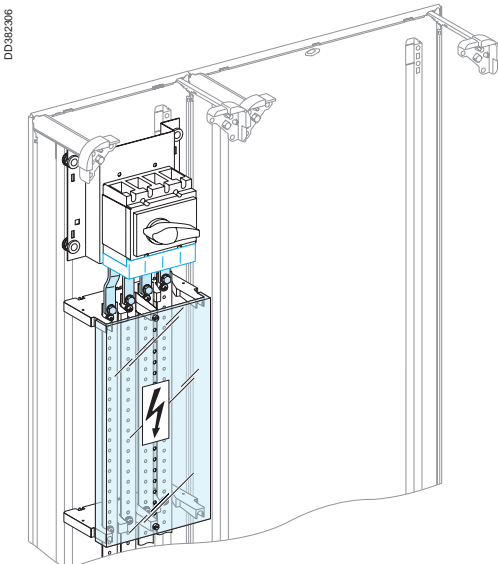
Distribution



Distribution via a Polybloc distribution block (04034) on an adjustable modular device rail (03011).



Distribution via Powerclip insulated busbars and a 250 A universal power supply block (04061) (without connection) + connection (04064).



Polybloc

Device		Polybloc 250 A	Modular rail (adjustable)
Interpact INS-INV			
INS-INV250	3P	04033	03011
	4P	04034	03011

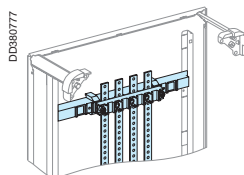
Powerclip insulated busbars

Device	Univ. power supply block (w/o conn)	+ connection	Short terminal shields (set of 2)	Powerclip busbars
Interpact INS-INV				
INS-INV250	04061	+ 04064	29322	see page C-5
INS-INV250/630	04074	+ 04073	32563	

Multi-stage busbars

Device	Connection	Short terminal shields (set of 2)	Multi-stage busbars
Interpact INS-INV switch-disconnector			
INS-INV250	04065	29322	see page C-7
INS-INV250/630	04075	32563	see page C-7

Other distribution solutions



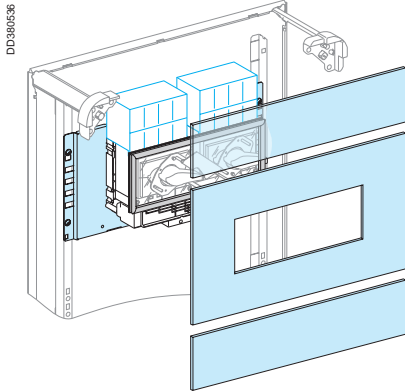
Rear busbars, see page C-9.

Manual source changeover system

INS-INV250

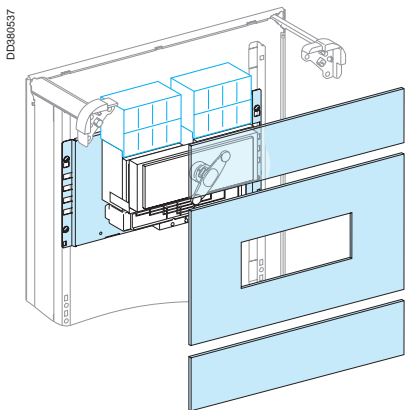
Front direct rotary handle, fixed

Source changeover system with mechanical interlocking



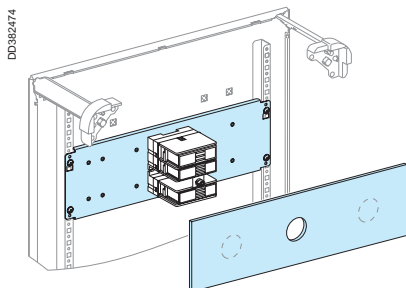
Device	No. of vertical modules	Mounting plate	Cut-out front plate	Upstream front plate	Downstream front plate
Source changeover system with mechanical interlocking					
INS-INV250 changeover system	9	03043 + 31064 x 2	03235	03802	03802
<i>Designation</i>		<i>Cat. no.</i>			
Long terminal shields (set of 2)		29324			
Mechanical interlock		31073			
Coupling accessory		29358 (for 3P device) 29359 (for 4P device)			

Complete source changeover assembly

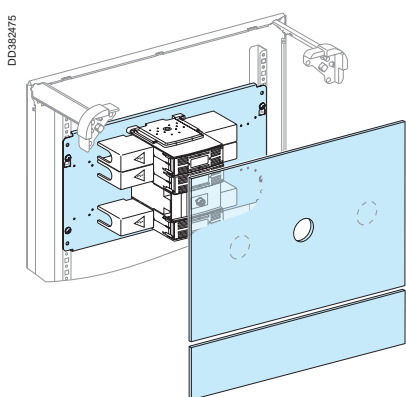


Device	No. of vertical modules	Mounting plate	Cut-out front plate	Upstream front plate	Downstream front plate
Complete source changeover assembly					
INS250 changeover system	9	03043	03247	03802	03802
<i>Designation</i>		<i>Rating</i>	<i>For 3P device</i>	<i>For 4P device</i>	
Complete source changeover assembly		100 A	31140	31141	
		160 A	31144	31145	
		200 A	31142	31143	
		250 A	31146	31147	
<i>Designation</i>		<i>Cat. no.</i>			
Coupling accessory		29358 (for 3P device) 29359 (for 4P device)			
Long terminal shields (set of 2)		29324			

Installation



INF32/40.

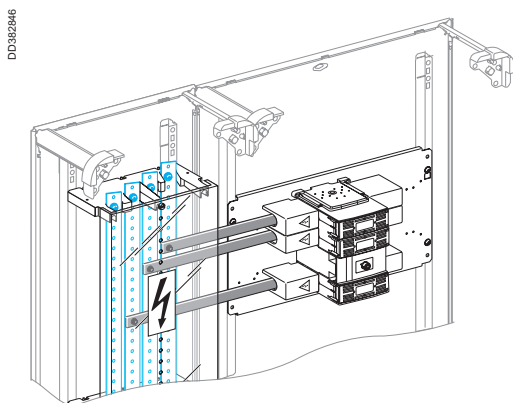


INF100/160.

Device	No. of devices per row	No. of vertical modules	Mounting plate	Cut-out front plate	Downstream front plate	Long terminal shields (qty per device)
Switch-disconnector fuses						
INF32/40	1 x 3/4P	3	03113	03313		
INF63	1 x 3P	5	03114	03314		49658
	1 x 4P	5	03114	03314		49658 x 2
INF100/160 ⁽¹⁾	1 x 3P	7	03114	03314	03802	49659 x 6
	1 x 4P	7	03114	03314	03802	49659 x 8

(1) For direct distribution, downstream front plate (03802) not needed.

Distribution



Multi-stage busbars in a duct

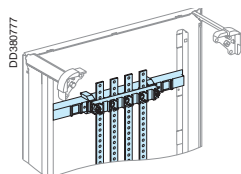
Device	connection	Multi-stage busbars
Switch-disconnector fuses		
INF32/40	must be made	see page C-7
INF63	must be made	see page C-7
INF100/160	must be made	see page C-7

Powerclip busbars ⁽¹⁾

Device	Additional 35 mm ² block	+ connection	Powerclip busbars
Switch-disconnector fuses			
INF100/160	3P	04155	+ must be made see page C-5
	4P	04156	+ must be made

(1) Incoming device; the distribution system is installed under the functional unit.

Other distribution solutions



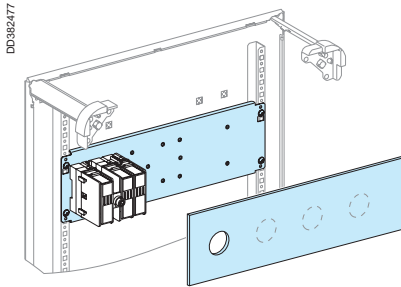
Rear busbars ⁽¹⁾, see page C-9.

Fupact INF

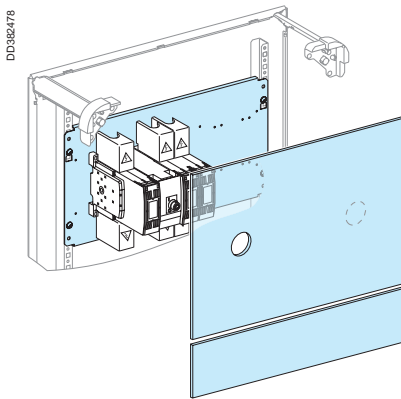
Vertical

Extended rotary handle

Installation



INF32/40.

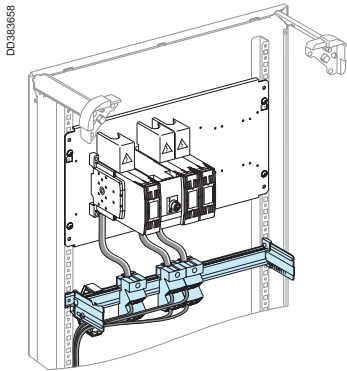


INF100/160.

Device	No. of devices per row	No. of vertical modules	Mounting plate	Cut-out front plate	Downstream front plate	Long terminal shields (qty per device)
Switch-disconnector fuses						
INF32/40	4 x 3P	3	03113	03312		
	3 x 4P	3	03113	03313		
INF63	3 x 3P	5	03114	03314		49658
	2 x 4P	5	03114	03315		49658 x 2
INF100/160 ⁽¹⁾	2 x 3P	7	03114	03315	03802	49659 x 6
	2 x 4P	7	03114	03315	03802	49659 x 8

(1) For direct distribution, downstream front plate (03802) not needed.

Distribution



Polybloc distribution block

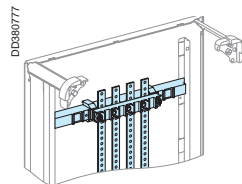
Device	Polybloc	+ connection	Adjustable modular device rail
Switch-disconnector fuses			
INF100/160	3P	04031 x 3	must be made 03002
	4P	04031 x 4	must be made 03002

Powerclip busbars ⁽¹⁾

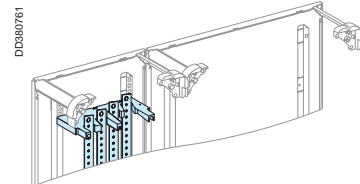
Device	Universal power supply block	+ connection	Powerclip busbars
Switch-disconnector fuses			
INF100/160	04061	+ must be made	see page C-5

(1) Incoming device; the distribution system is installed under the functional unit.

Other distribution solutions



Rear busbars ⁽¹⁾, see page C-9.



Multi-stage busbars in a duct, see page C-7.

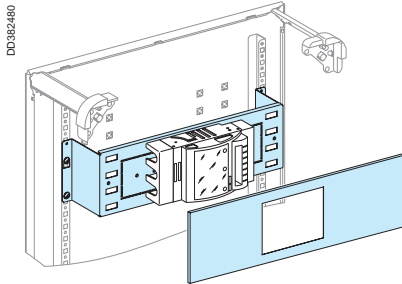
Fupact ISFT

Horizontal

3P

Installation on mounting plate

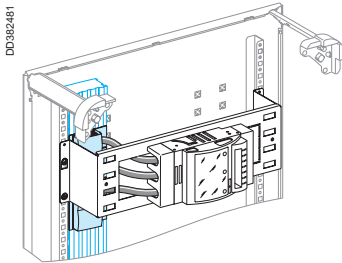
Installation



Device	No. of devices per row	No. of vertical modules occupied	Mounting plate	Cut-out front plate	Long terminal shields	Upstr. front plate	Downstr. front plate
Fuse-switch disconnectors							
ISFT160 ⁽¹⁾	1	6	03121	03326	49869 x 2	03801	03802
ISFT250	1	6	03124	03328	49872 x 2		03801

(1) For direct distribution, downstream front plate (03802) not needed.

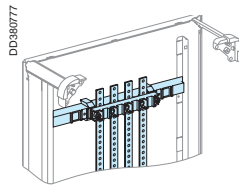
Distribution



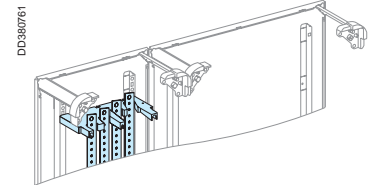
Powerclip busbars

Device	Universal power supply + connection block (w/o connection)	Powerclip busbars
Fuse-switch disconnectors		
ISFT160	04061 + must be made	see page C-5
ISFT250	04061 + must be made	see page C-5

Other distribution solutions



Rear busbars, see page C-9.



Multi-stage busbars in a duct, see page C-7.

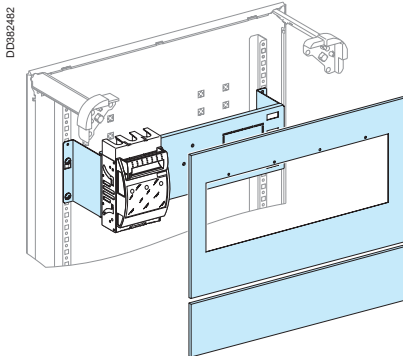
Fupact ISFT

Vertical

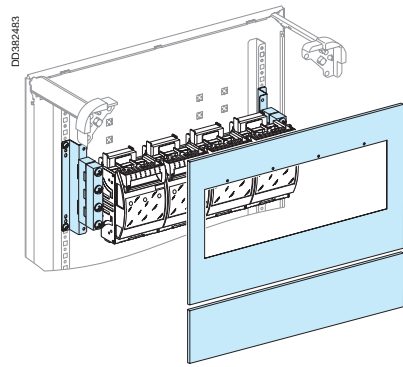
3P

Installation on mounting plate or busbars

Installation



ISFT160: installation on mounting plate.

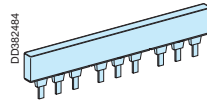


ISFT160: installation on busbars.

Device	No. of devices per row	No. of vertical modules occupied	Mounting plate	Cut-out front plate	Downstr. front plate	Long terminal shields (qty per device)
Fuse-switch disconnectors ⁽¹⁾						
ISFT100 (installation on mounting plate)	5	7	03120	03320	03801	
ISFT160 (installation on mounting plate)	4	8	03121	03321	03802	49869 x 2
ISFT160 (installation on busbars)	4	8	03122	03321	03802	49869 x 2

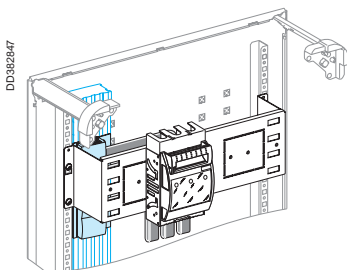
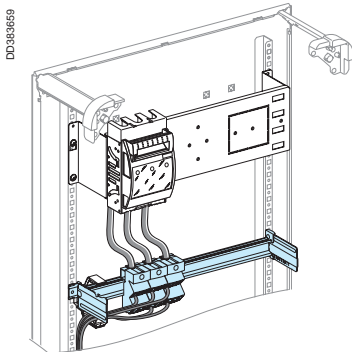
(1) For direct distribution, downstream front plate (03802) not needed.

Accessories



Comb busbars for ISFT100	
for 2 devices	49861
for 3 devices	49862
for 4 devices	49863
Coupler to connect 2 busbars	49890
Tooth cover	49864
Set of 3 connectors (25 to 95 mm ²)	49865
Set of 3 distribution connectors 3 x 10 mm ²	49860

Distribution



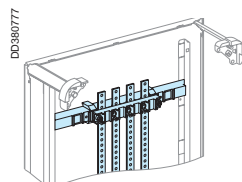
Polybloc distribution block

Device		Polybloc	+ connection	Adjustable modular device rail
Fuse-switch disconnectors				
ISFT100	3P	04031 x 3	+ must be made	03002
ISFT160	3P	04031 x 3	+ must be made	03002

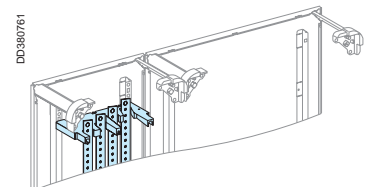
Powerclip busbars

Device	Universal power supply block (w/o connection)	+ lconnection	Powerclip busbars
Fuse-switch disconnectors			
ISFT100	04061	+ must be made	see page C-5
ISFT160	04061	+ must be made	see page C-5

Other distribution solutions

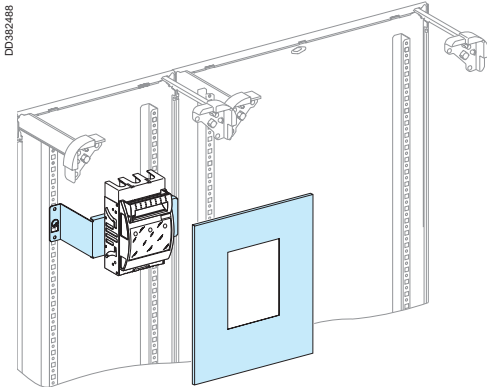


Rear busbars, see page C-9.



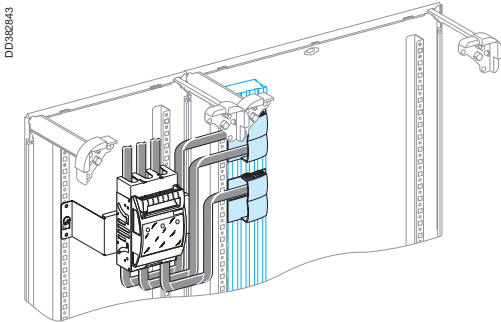
Multi-stage busbars in a duct, see page C-7.

Installation



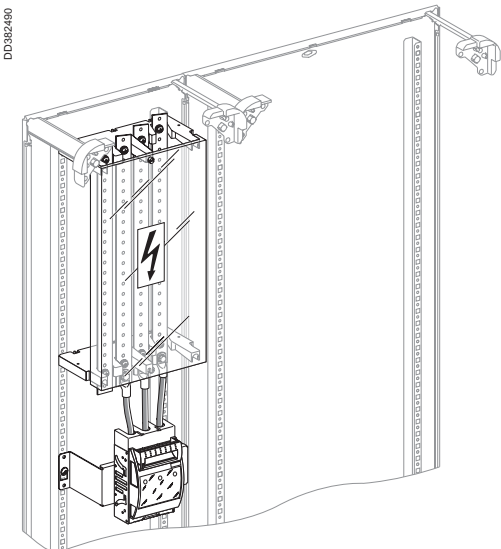
Device	No. of devices per row	No. of vertical modules occupied	Mounting plate	Cut-out front plate	+ Long terminal shields
Fuse-switch disconnectors					
ISFT160	1	6	03123	03327	+ 49869 x 2
ISFT250	1	9	03125	03329	+ 49872 x 2

Distribution



Powerclip busbars

Device	Universal power supply block (w/o connection)	+ connection	Powerclip busbars
Fuse-switch disconnectors			
ISFT160	04061	+ must be made	see page C-5
ISFT250	04061	+ must be made	see page C-5



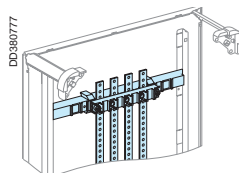
Multi-stage busbars

Device	Connection	Multi-stage busbars
Fuse-switch disconnectors		
ISFT160	must be made	see page C-7
ISFT250	must be made	see page C-7

Polybloc distribution block

Device	Polybloc	+ connection	Adjustable modular device rail
Fuse-switch disconnectors			
ISFT160	04031 x 3	+ must be made	03011

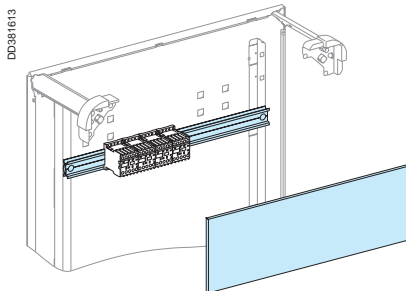
Other distribution solutions



Rear busbars, see page C-9.

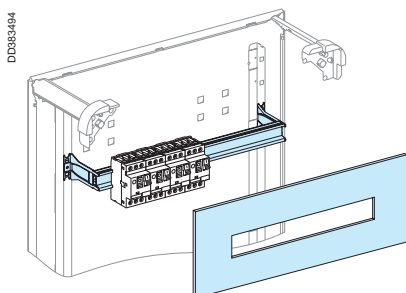
Others

Series D and K contactors



Device	No. of vertical modules	Useful rail length (mm)	Rear modular rail	Plain front plate
Series D and K contactors				
Series D and K contactors ≤ 40 A	3	432	03004	03803

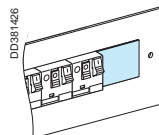
GV2/GV3 circuit breakers



Device	No. of vertical modules	Useful length of rail (mm)	Modular rail	Cut-out front plate
GV2/GV3 circuit breakers				
GV2	3	432	03001	03203
GV3	5	432	03002	03205

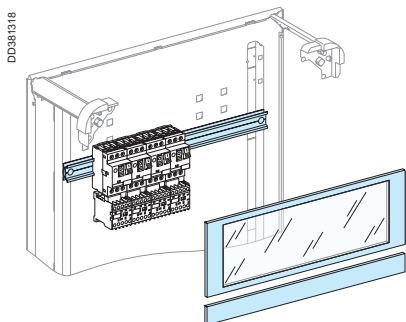
Width of devices without lateral auxiliaries: 5 x M9 modules.

Accessories



Modular blanking plates: see page D-27.

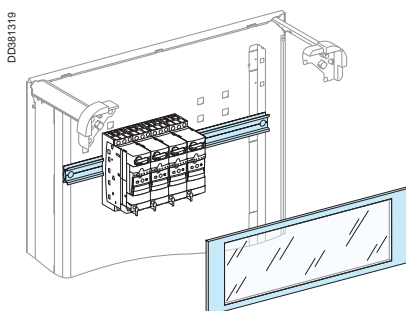
GV2 + contactor combination



Device	No. of vertical modules	Useful length of rail (mm)	Rear modular rail	Transparent front plate	Plain front plate
GV2 + contactor combination					
GV2 + Series D or K contactor ≤ 40 A	5	432	03004	03342	03801

Width of devices without lateral auxiliaries: 5 x M9 modules.

TeSys U model



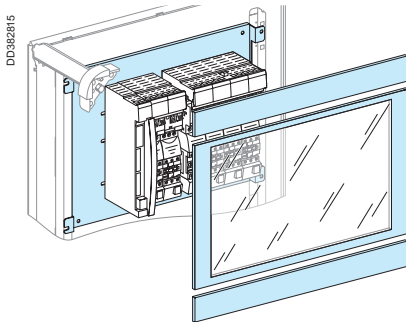
Device	No. of vertical modules	Useful length of rail (mm)	Rear modular rail	Transparent front plate
TeSys U model				
TeSys U model	5	432	03004	03205
TeSys U model ⁽¹⁾	4	432	03004	03342 - 03804

⁽¹⁾ Version without communication module auxiliary contact and reversing module.

Width of devices without lateral auxiliaries: 5 x M9 modules.

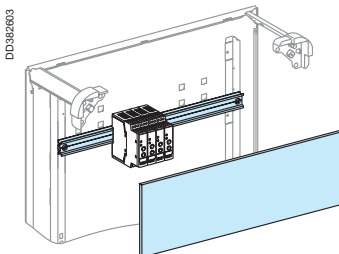
Others

Tego Power

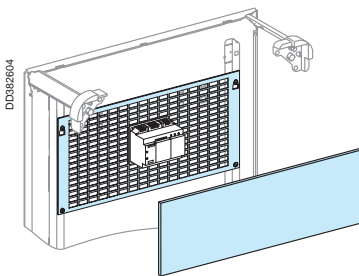


Device	No. of vertical modules	Mounting plate	Transparent front plate	Upstream front plate	Downstream front plate
Tego Power					
Tego Power 2 to 8 feeders	8	03168	03343	03801	03801

ATS01 soft starters



Device	No. of vertical modules	Useful length of rail (mm)	Modular rail	Plain front plate
On a modular rail				
ATS01N103/106FT	4	432	03004	03804
ATS01N109/112FT	5	432	03003	03805
ATS01N206 to 212	5	432	03003	03805
ATS01N222 to 232	6	432	03003	03806
ATS01N230LY	5	432	03003	03805
ATS01N244LY	5	432	03003	03805
ATS01N244Q	5	432	03003	03805

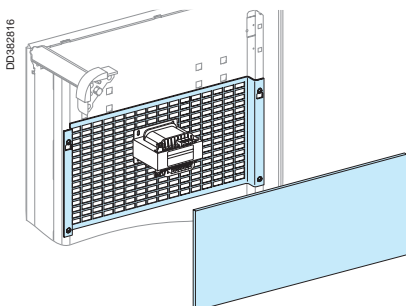


Device	No. of vertical modules	Recessed slotted mounting plate	Plain front plate
On a slotted plate			
ATS01N272LY	6	03172	03806
ATS01N285LY	6	03172	03806
ATS01N272Q	6	03172	03806
ATS01N285Q	6	03172	03806

Width of devices (in number of 9 mm modules):

ATS01N103/106FT: 2.5	ATS01N244LY: 20
ATS01N109/112FT: 5	ATS01N244Q: 20
ATS01N206 to 212: 5	ATS01N272LY: 20
ATS01N222 to 232: 5	ATS01N285LY: 20
ATS01N230LY: 20	ATS01N272Q: 20
	ATS01N285Q: 20

Alimentation and LV/LV transformer



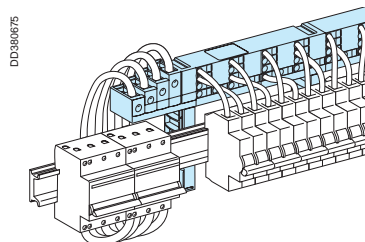
Device	No. of vertical modules	Recessed slotted mounting plate	Plain front plate
LV/LV transformer			
ABL6-TS/TD up to 630 VA	4	03171	03804
LV/LV alimentation			
ABL6-RF up to 120 W	4	03171	03804

Others

Cable running and distribution

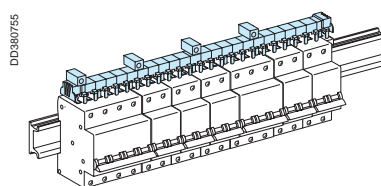
Multiclip distribution blocks

see page D-27



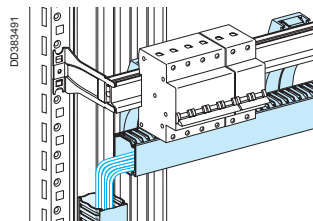
Comb busbars

see the Telemecanique catalogue



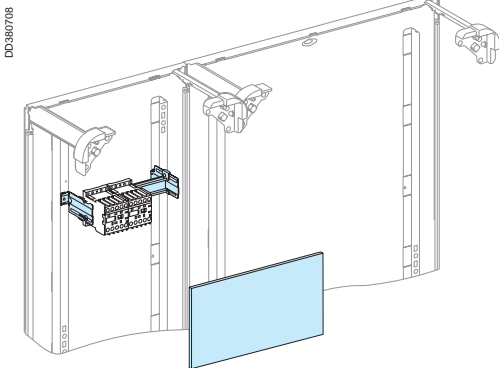
Cable running

see page C-34



Others

Series D and K contactors

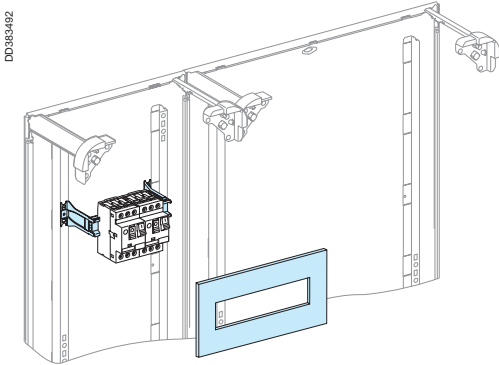


Device	No. of vertical modules	Useful rail length (mm)	Modular rail (adjustable)	Plain front plate
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Series D and K contactors

Series D and K contactors ≤ 40 A	3	180	03011	03813
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GV2/GV3 circuit breakers



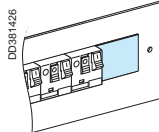
Device	No. of vertical modules	Useful rail length (mm)	Modular rail	Cut-out front plate	Upstream front plate	Downstream front plate
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GV2/GV3 circuit breakers

GV2	3	180	03010	03213		
GV3	5	180	03011	03213	03811	03811

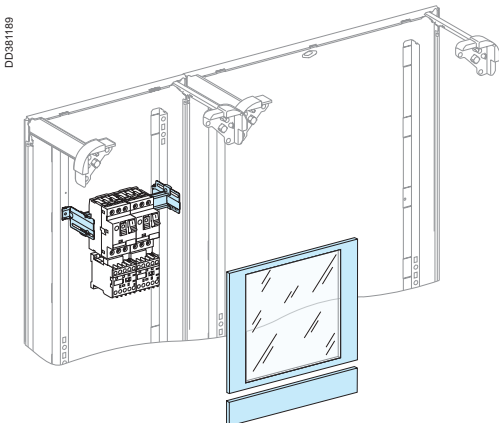
Width of devices without lateral auxiliaries: 5 x M9 modules.

Accessories



Modular blanking plates, see page D-27.

GV2 + contactor combination



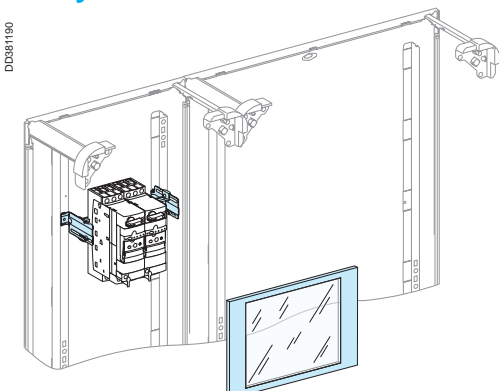
Device	No. of vertical modules	Useful rail length (mm)	Modular rail (adjustable)	Transparent front plate	Plain front plate
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GV2 + contactor combination

GV2 + Series D or K contactor ≤ 40 A	5	180	03011	03352	03811
--------------------------------------	---	-----	-------	-------	-------

Width of devices without lateral auxiliaries: 5 x M9 modules

TeSys U model



Device	No. of vertical modules	Useful rail length (mm)	Modular rail (adjustable)	Transparent front plate
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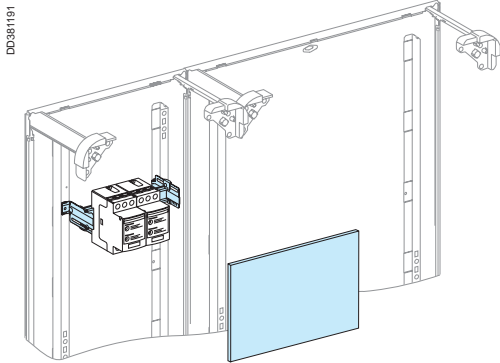
TeSys U model

TeSys U model	4	180	03011	03352
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Width of devices without lateral auxiliaries: 5 x M9 modules.

Others

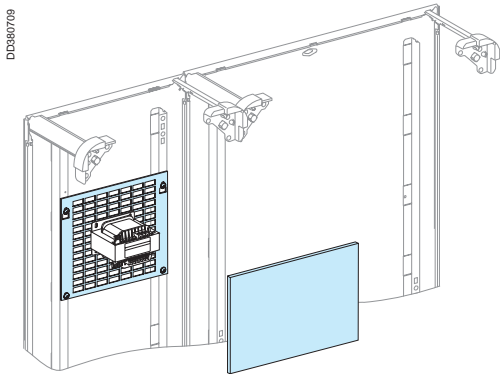
LH4 soft starters



Device	No. of vertical modules	Useful rail length (mm)	Modular rail (adjustable)	Plain front plate
LH4 soft starters				
LH4 N1	4	180	03011	03814
LH4 N2				

Width of devices:
 LH4 N1 : 5 x M9 modules
 LH4 N2: 10 x M9 modules.

Alimentation and LV/LV transformer

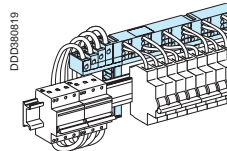


Device	No. of vertical modules	Slotted mounting plate	Plain front plate
LV/LV transformer			
ABL6-TS/TD up to 630 VA	4	03175	03814
LV/LV alimentation			
ABL-6RF up to 120 W	4	03175	03814

Cable running and distribution

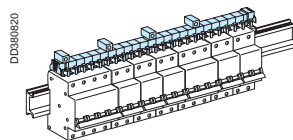
Multiclip distribution blocks

see page D-27



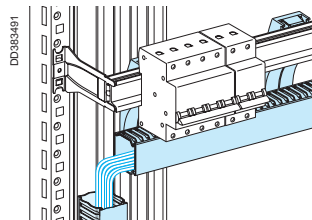
Comb busbars

see the Telemecanique catalogue

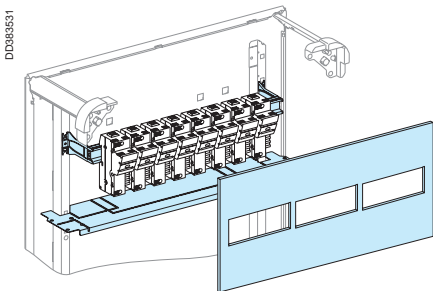
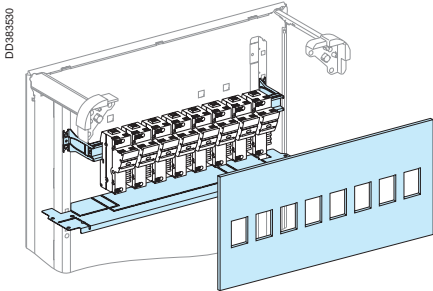


Cable running

see page C-34



Installation



Device	No. per row	No. of vertical modules	Modular rail	Cut-out front plate	Horizontal partitioning ⁽¹⁾
Fusegear					
1 Ph	8	4	03001	03359	04331
3 Ph	3	4	03001	03159	04331

(1) If not installed at the top of the enclosure, order an addition horizontal partition (04331).

Metering

Single-phase kilowatt-hour meters

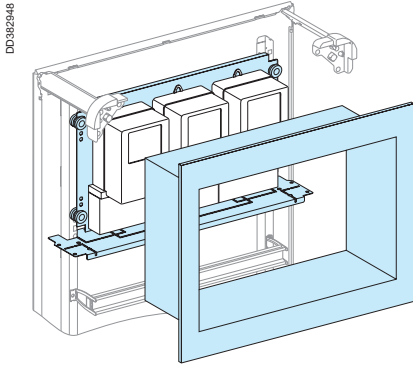
Class 2

Installation

Meters can be installed at different levels on the functional uprights of enclosures. Class 1: Depending on preferences and needs, meters can be installed directly on mounting plates equipped with earthing braids and combined with partitioning or front plates.

The mounting plates can be raised using M5 spacers: see page B-54.

Meters accessible at the top of an enclosure

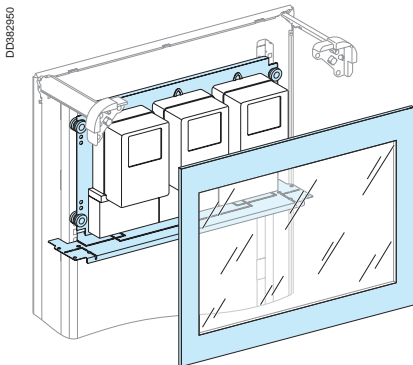


Device	No. per row	No. of vertical modules	Mounting plate	Insulating plate	Metering front plate	Horizontal partitioning ⁽¹⁾
Meter						
Ph + N	3	6	03157	03154	03155	04331

Earthing wire, 6mm² : cat. no. **08911**

(1) If not installed at the top of an enclosure, order an addition horizontal partition (04331).

Meters behind front plate at the top of an enclosure



Device	No. per row	No. of vertical modules	Mounting plate	Insulating plate	Horizontal partitioning ⁽¹⁾	Front plate transparent or plain
Meter						
Ph + N	3	6	03157	03154	04331	03343 03806

Earthing wire, 6mm² : cat. no. **08911**

(1) If not installed at the top of an enclosure, order an addition horizontal partition (04331).

Metering

3-phase kilowatt-hour meters

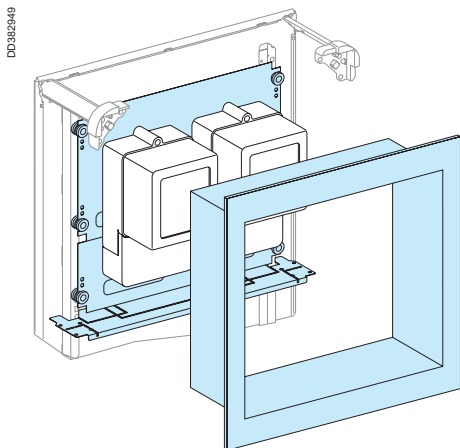
Class 2

Installation

Meters can be installed at different levels on the functional uprights of enclosures. Class 1: Depending on preferences and needs, meters can be installed directly on mounting plates equipped with earthing braids and combined with partitioning or front plates.

The mounting plates can be raised using M5 spacers: see page B-54.

Meters accessible at the top of an enclosure

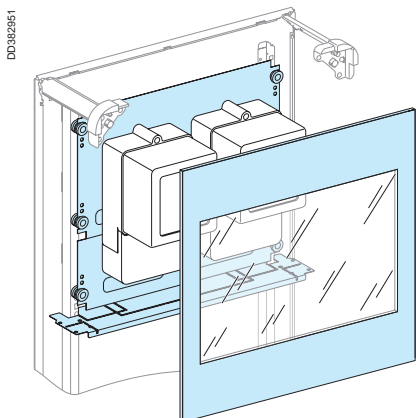


Device	Qty per row	No. of vertical modules	DD382264 Mounting plate	DD382260 Insulating plate	DD382260 Metering front plate	DD382263 Horizontal partitioning ⁽¹⁾
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Meter						
3 Ph + N	2	9	03152	03154	03158	04331

Earthing wire, 6mm² : cat. no. **08911**

(1) If not installed at the top of an enclosure, order an addition horizontal partition (04331).



Meters behind front plate at the top of an enclosure

Device	No. per row	No. of vertical modules	DD382264 Mounting plate	DD382260 Insulating plate	DD382260 Horizontal partitioning ⁽¹⁾	DD382265 Front plate transparent	DD382266 or plain
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Meter							
3 Ph + N	2	9	03152	03154	04331	03344	03807

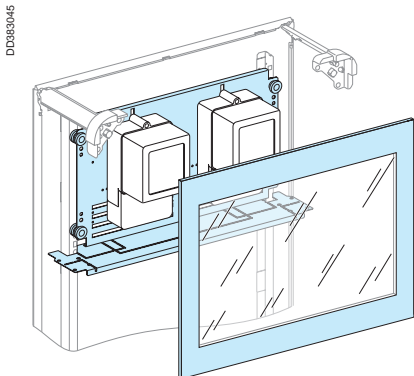
Earthing wire, 6mm² : cat. no. **08911**

(1) If not installed at the top of an enclosure, order an addition horizontal partition (04331).

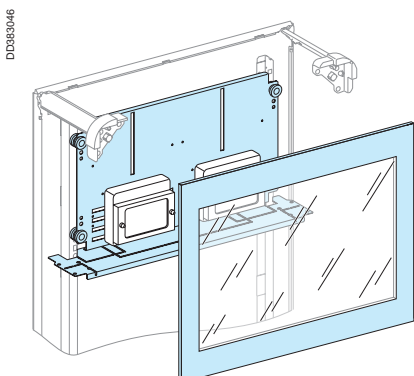
Installation

Meters can be installed at different levels on the functional uprights of enclosures. The mounting plates can be raised using M5 spacers: see page B-54.

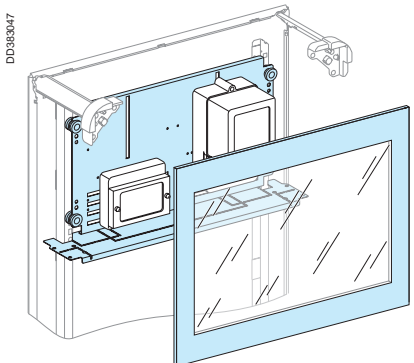
Meters behind front plate at the top of an enclosure



2 meters



2 connection blocks



1 meter + 1 connection block

Device	No. per row	No. of vertical modules	Mounting plate	Horizontal partitioning ⁽¹⁾	Front plate transparent or plain
Meter and connection block					
Meter 3 Ph + N	2	6	03160	04331	03343 03806
Connection block	2				
Meter + connection block	1 + 1				

Earthing wire, 6 mm² : cat. no. **08911**.

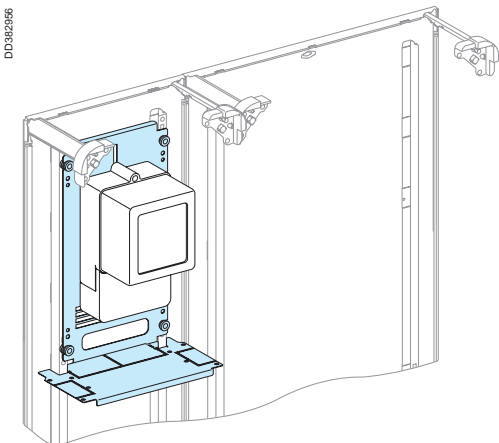
(1) If not installed at the top of an enclosure, order an addition horizontal partition (04331).

Installation

Meters can be installed at different levels on the functional uprights of ducts. Class 1: Depending on preferences and needs, meters can be installed directly on mounting plates equipped with earthing braids and combined with partitioning or front plates.

The mounting plates can be raised using M5 spacers: see page B-54.

Meters behind the front plate at the top of a duct



Device	No. per row	No. of vertical modules	Mounting plate	Horizontal partitioning ⁽¹⁾	Front plate transparent or plain
Meter					
3 Ph + N	1	9	03156	04332	03354 03817

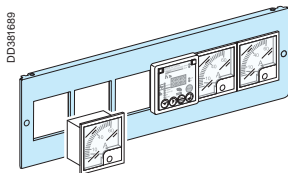
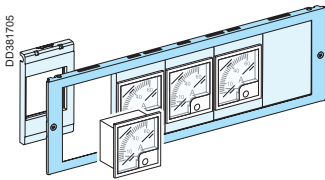
Earthing wire, 6 mm² : cat. no. **08911**.

(1) If not installed at the top of an enclosure, order an addition horizontal partition (04332).

The human-switchboard interface mounting plates have been modified to ensure compatibility with the new front plates (catalogue numbers unchanged). The visor has also been changed to ensure compatibility with the new mounting plates.

The old human-switchboard interface mounting plates and visor are not compatible with the new front plates.

Presentation

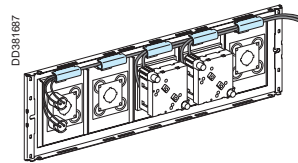


Device mounting

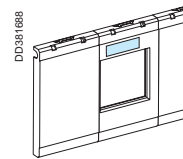
On an interface with plastic mounting plates, H = 150 mm (3 modules)

The interface is made up of a metal front plate and plastic mounting plates that clip onto the front plate:

- the devices are attached in the cut-outs of the plastic mounting plates and insulated from the front plate
- a system at the rear of the mounting plates guides the wires
- each mounting plate can receive an adhesive label
- plain mounting plates are available to blank off any unused locations.



The mounting plates have guides for auxiliary wires.



Mounting plates can be identified by a label.

On a metal front plate with cut-outs, H = 150 mm (3 modules)

- devices are attached directly to the metal front plate
- blanking plates are available to blank off any unused locations
- economical solution.

Installation in a switchboard

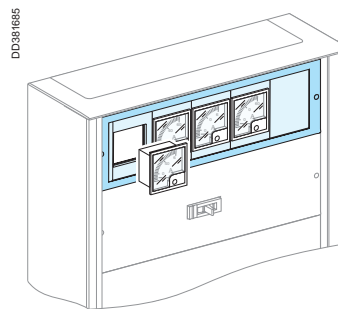
The mounted assembly can be installed:

- in the device zone of enclosures and cubicles, like a front plate
- on a door with cut-outs in a 300 or 400 mm wide cubicle
- on a partial door with cut-outs in wall-mounted and floor-standing enclosures (except IP55).

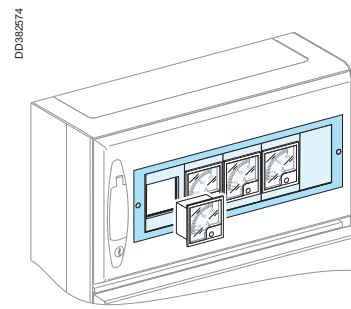
The degree of protection for installed devices is IP30.

Note: to maintain the IP55 degree of protection, the measurement devices must be installed behind a transparent door.

If they are installed on a plain door, use the corresponding mounting plates (see page D-36).

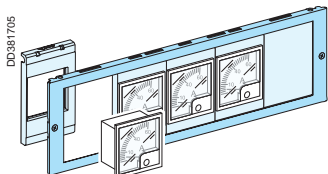


Mounting in the device compartment of an enclosure.



Mounting on a partial door with cut-outs.

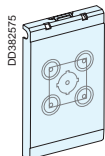
72 x 72 mm measurement devices



On an interface with plastic mounting plates

Cat. no. selection

Designation	Cat. no.
Front plate with cut-outs, 3 modules (for 5 plastic mounting plates)	03904
Plastic mounting plate with cut-out (for 72 x 72 mm device)	03902
Plain plastic mounting plate	03900



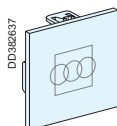
The plain plastic mounting plates have knock-outs:

- 4 holes, 16 mm diameter
- 5 holes, 22 mm diameter
- 1 hole, 45 x 45 mm

On a metal front plate with cut-outs

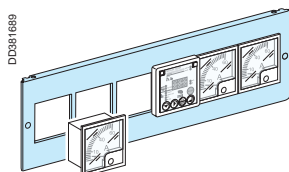
Cat. no. selection

Designation	Cat. no.
Metal front plate with cut-outs, 3 modules (for six 72 x 72 mm devices)	03910
Blanking plate (for 72 x 72 mm hole)	03907

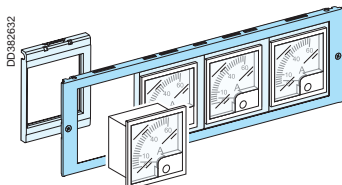


The blanking plates have knock-outs:

- 3 holes, 22 mm diameter
- 1 hole, 45 x 45 mm



96 x 96 mm measurement devices

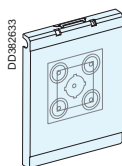


On an interface with plastic mounting plates

Cat. no. selection

Designation	Cat. no.
Front plate with cut-outs, 3 modules (for 4 plastic mounting plates)	03904
Plastic mounting plate with cut-out (for 96 x 96 mm device)	03903 ⁽¹⁾
Plain plastic mounting plate	03901

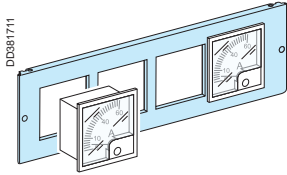
⁽¹⁾ Not designed for Power meter PM700/800 installation.



The plain plastic mounting plates have knock-outs:

- 4 holes, 16 mm diameter
- 5 holes, 22 mm diameter
- 1 hole, 45 x 45 mm
- 1 hole, 72 x 72 mm

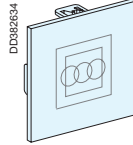
96 x 96 mm measurement devices



On a metal front plate with cut-outs

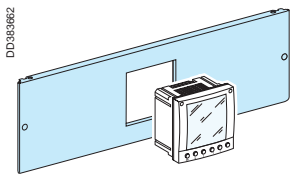
Cat. no. selection

Designation	Cat. no.
Metal front plate with cut-outs, 3 modules (for four 96 x 96 mm devices)	03911
Blanking plate (for 96 x 96 mm hole)	03908



The blanking plates have knock-outs:

- 3 holes, 22 mm diameter
- 1 hole, 45 x 45 mm
- 1 hole, 72 x 72 mm

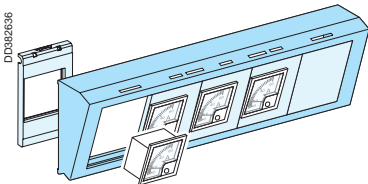


On a metal front plate with cut-outs

Cat. no. selection

Designation	Cat. no.
Metal front plate with cut-outs, 3 modules (for one 96 x 96 device)	03913

Visor for measurement devices on an interface with plastic mounting plates



The human-switchboard interface mounting plates have been modified to ensure compatibility with the new front plates (catalogue numbers unchanged). The visor has also been changed to ensure compatibility with the new mounting plates.

The old human-switchboard interface mounting plates and visor are not compatible with the new front plates.

Presentation

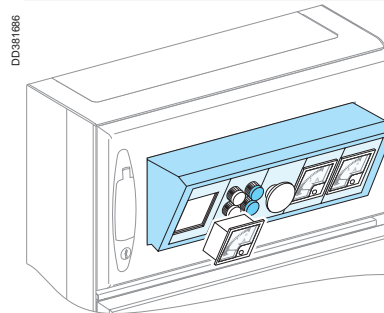
A visor can be used to incline 72 x 72 or 96 x 96 mm devices by 30°.

The devices are mounted on a cut-out plastic mounting plate (see previous page) that clips directly to the visor.

The visor can be installed on 300 and 400 mm wide doors with cut-outs in cubicles or on partial doors with cut-outs, in wall-mounted and floor-standing enclosures. It is supplied with a drilling diagram for mounting on a plain door.

Cat. no. selection

Designation	Cat. no.
Visor	03928

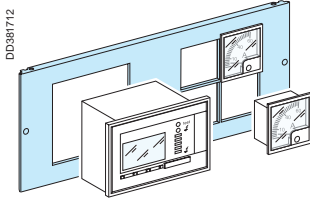


Human-switchboard interface

144 x 144 mm devices

22.2 mm diameter lamps, pushbuttons

One 144 x 144 mm device + four 72 x 72 mm devices

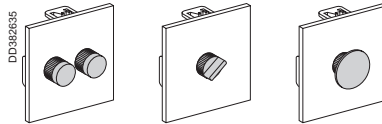


Installation

Devices are installed in the device compartment on a metal front plate with cut-outs. Blanking plates clip onto the unused 72 x 72 mm holes.

Cat. no. selection

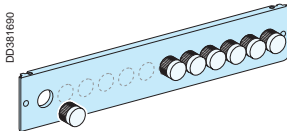
Designation	Cat. no.
Metal front plate with cut-outs, 4 modules (for one 144 x 144 mm device + four 72 x 72 mm devices)	03912
Blanking plate (for 72 x 72 mm hole)	03907



The blanking plates have knock-outs (22 mm diameter) to install:

- 1 to 2 lamps or pushbuttons
- 1 switch
- 1 emergency off (EPO) pushbutton.

Pushbuttons or lamps



Installation

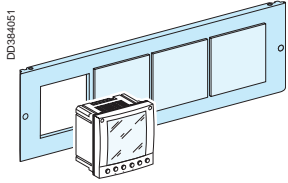
In the device compartment on a metal front plate with cut-outs.

Cat. no. selection

Designation	Cat. no.
Metal front plate with knock-outs (2 modules) for twelve 22 mm diameter lamps or pushbuttons	03914

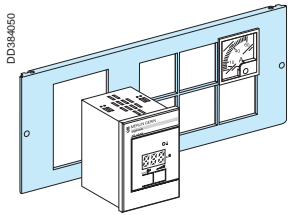
Others

Powerlogic system



Device	No. of vertical modules	Cut-out front plate
PowerMeter PM		
Power Meter PM400/500/800 (96 x 96 mm case)	3	03911
FDM121	3	03911

Vigilohm

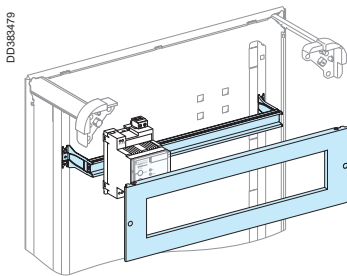


Installation in the device compartment.

Device	No. of vertical modules	Modular rail	Cut-out front plate
Vigilohm			
TR22A/AH (1 TR + 6 measurement devices, 72 x 72 mm)	4		03934
EM9, TR5A, SM21 (modular devices)	3	03001	03203

03934.

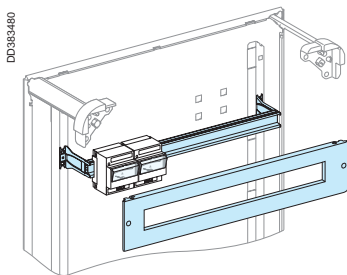
Vigirex



Installation in the device compartment.

Device	No. of vertical modules	Modular rail	Cut-out front plate
Vigirex			
RH10/RH21/RH99 relays			
Modular device	3	03001	03203
72 x 72 mm cases	see page B-46		
RHU relay (72 x 72 mm cases)	see page B-46		
RMH relay and RM12T multiplexer			
RMH (modular devices)	3	03001	03203
RM12T (72 x 72 mm cases)	see page B-46		

Multi 9 measurement device



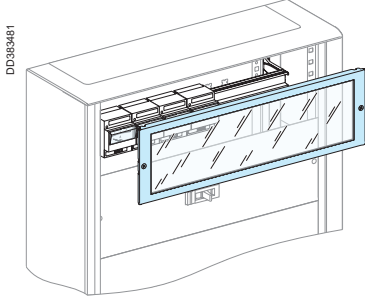
Installation in the device compartment.

Device	No. of vertical modules	Modular rail	Cut-out front plate
Multi 9 measurement device			
Lamps, pushbuttons, etc.	2	03001	03202⁽¹⁾
Ammeter, voltmeter, etc.	3	03001	03203

(1) For installation at the top or bottom of the enclosure, use a 3-module modular front plate (03203).

Others

Device behind transparent front plate

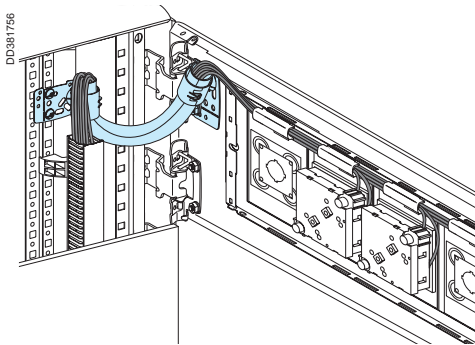


Installation in the device compartment.

500 mm wide transparent front plate

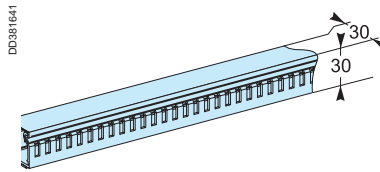
Transparent front plate, 4 modules, H = 200 mm	03342
Transparent front plate, 6 modules, H = 300 mm	03343
Transparent front plate, 9 modules, H = 450 mm	03344
Transparent front plate, 12 modules, H = 600 mm	03345

Cable running

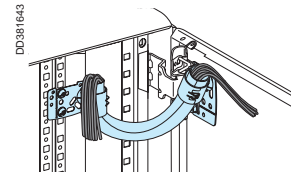


Auxiliary wiring on partial door with cut-outs.

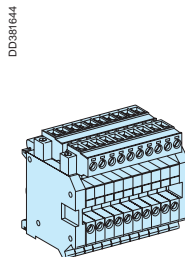
Designation	Cat. no.
Cable trunking for doors, L = 2000 mm	04233
Flexible trunking for wiring to door	04235
Terminal block for auxiliaries	04228
10 grommets for wiring through front	04234



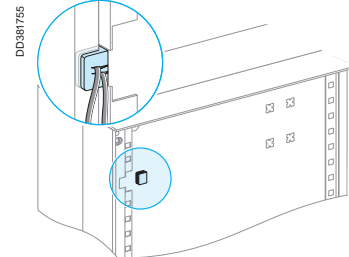
Trunking for a door.



Flexible trunking to protect and guide wires.



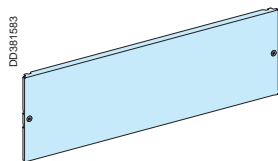
Terminal block for auxiliaries.



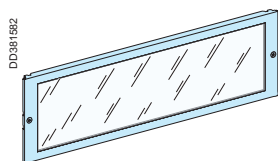
Grommets.

Others

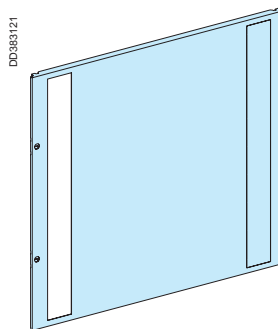
Device compartment, W = 600 mm



500 mm wide plain front plate	Cat. no.
1 module (H = 50 mm)	03801
2 modules (H = 100 mm)	03802
3 modules (H = 150 mm)	03803
4 modules (H = 200 mm)	03804
5 modules (H = 250 mm)	03805
6 modules (H = 300 mm)	03806
9 modules (H = 450 mm)	03807
12 modules (H = 600 mm)	03808

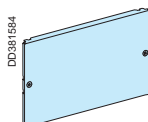


500 mm wide transparent front plate	Cat. no.
4 modules (H = 200 mm)	03342
6 modules (H = 300 mm)	03343
9 modules (H = 450 mm)	03344
12 modules (H = 600 mm)	03345

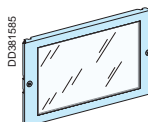


500 mm wide vertical modular front plate	Cat. no.
9 modules (H = 450 mm)	03228
12 modules (H = 600 mm)	03229

Lateral compartment W = 300 mm



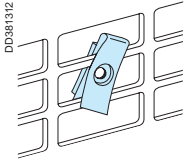
250 mm wide plain front plate	Cat. no.
1 module (H = 50 mm)	03811
2 modules (H = 100 mm)	03812
3 modules (H = 150 mm)	03813
4 modules (H = 200 mm)	03814
5 modules (H = 250 mm)	03815
6 modules (H = 300 mm)	03816
9 modules (H = 450 mm)	03817



250 mm wide transparent front plate	Cat. no.
4 modules (H = 200 mm)	03352
6 modules (H = 300 mm)	03353
9 modules (H = 450 mm)	03354

Others

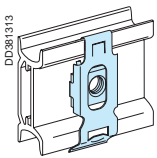
Clip-nuts for slotted mounting plates



These nuts are used to install various devices (contactors, transformers) on a slotted mounting plate. They can also be installed on the cable-tie supports in enclosures and cubicles, as well as on the universal lateral and longitudinal cross-members in cubicles.

Designation	Cat. no.
20 clip-nuts for slotted mounting plates	
M4	03180
M5	03181
M6	03182

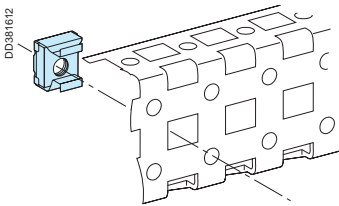
Clip-nuts for modular rails



These nuts are used to install various devices on a modular rail.

Designation	Cat. no.
20 clip-nuts for modular rails	
M4	03164
M5	03165
M6	03166

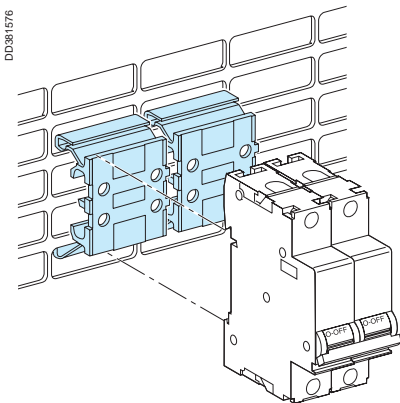
Clip-nuts for lateral and longitudinal cross-members



These nuts can be installed on the universal lateral and longitudinal cross-members in cubicles, as well as on the functional uprights in IP30/55 wall-mounted and floor-standing enclosures.

Designation	Cat. no.
20 M6 captive nuts	03194

Pratic raiser



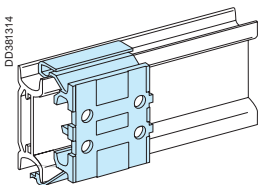
Colour RAL 9001.

The raiser clips onto a slotted mounting plate or a modular rail.

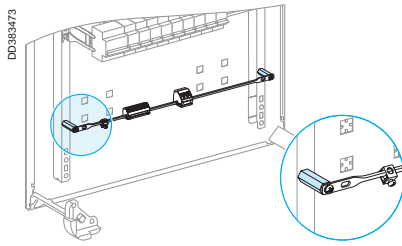
It is 27 mm wide and serves to raise a device 10 mm.

It is made of an insulating material and can directly receive terminal blocks, modular devices, etc.

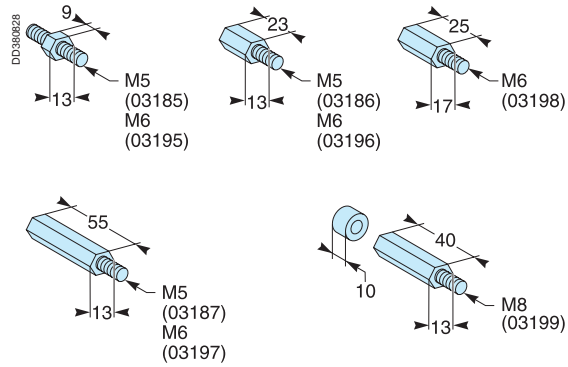
Designation	Cat. no.
5 Pratic raisers	04224



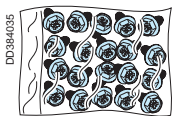
Hexagonal spacers



Designation		Cat. no.
M5 hexagonal spacers		
4 spacers	H = 9 mm	03185
	H = 23 mm	03186
	H = 55 mm	03187
M6 hexagonal spacers		
4 spacers	H = 9 mm	03195
	H = 23 mm	03196
	H = 25 mm	03198
	H = 55 mm	03197
M8 hexagonal spacers		
4 spacers	H = 40 + 10 mm	03199

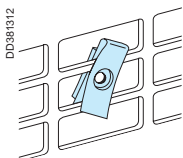


M5 self-tapping screws



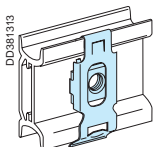
Designation	Cat. no.
B-550 M5 self-tapping screws for mounting on functional uprights	03183

Clip-nuts for slotted mounting plates



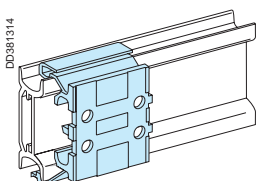
Designation	Cat. no.
20 clip-nuts for slotted mounting plates	see page B-53
M4 (03180)	
M5 (03181)	
M6 (03182)	

Clip-nuts for modular rails



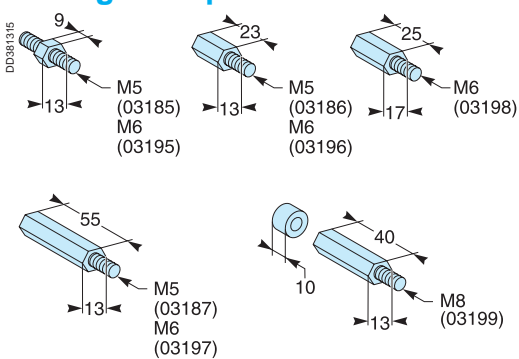
Designation	Cat. no.
20 clip-nuts for modular rails	see page B-53
M4 (03164)	
M5 (03165)	
M6 (03166)	

Pratic raiser



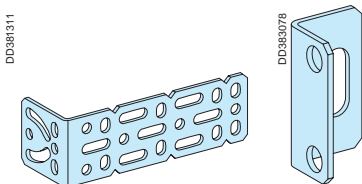
Designation	Cat. no.
5 Pratic raisers (04224)	see page B-53

Hexagonal spacers



Designation	Cat. no.
M5 hexagonal spacers 4 spacers H = 9 mm (03185) H = 3 mm (03186) H = 55 mm (03187)	see page B-54
M6 hexagonal spacers 4 spacers H = 9 mm (03195) H = 23 mm (03196) H = 25 mm (03198) H = 55 mm (03197)	
M8 hexagonal spacers 4 spacers H = 10 + 40 mm (03199)	

Universal angle bracket

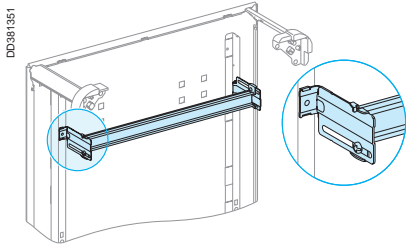


03581

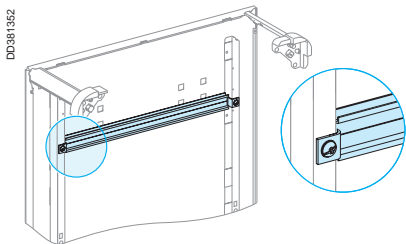
03583

Designation	Cat. no.
2 universal angle brackets	03581
6 universal angle brackets	03583

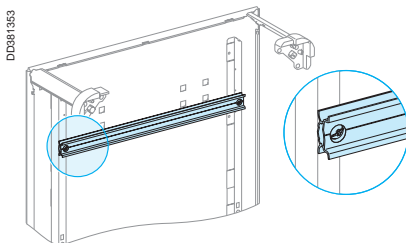
Installation on a modular rail



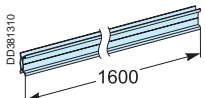
Modular rail (adjustable) (03002).



Recessed modular device rail (03003).

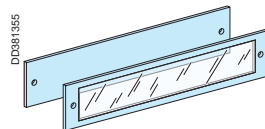


Rear modular rail (03004).



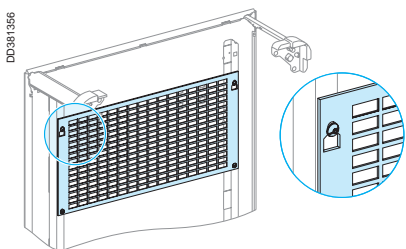
Modular rail, L = 1600 mm (04226).

Designation	Depth behind front plate (mm)	Useful length (mm)	Cat. no.
Modular rail			
Modular rail (adjustable)	47 to 114	432	03002
Recessed modular rail	158	432	03003
Rear modular rail	128	432	03004
2 modular rails, with 4 holes, dia. 6.4 mm, 450 mm between centres		1600	04226

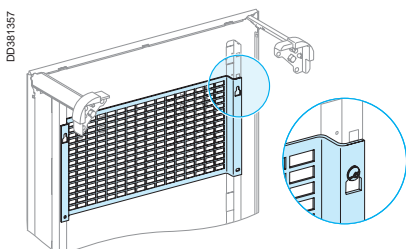


Plain and transparent front plates: see page B-52.

Installation on a slotted plate

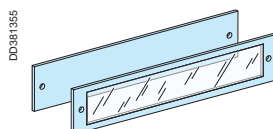


Flat slotted mounting plate (03170).



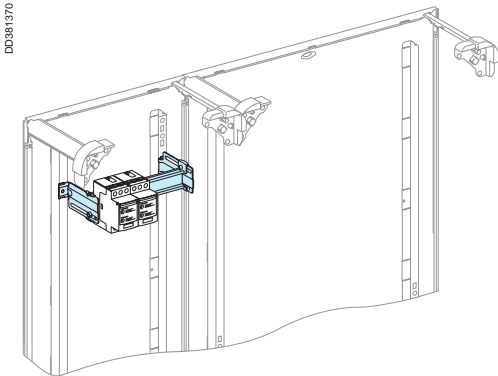
Recessed slotted mounting plate (03171).

Designation	No. of vertical modules	Useful height (mm)	Useful width (mm)	Depth behind front plate	Cat. no.
Slotted mounting plate					
Flat slotted mounting plate	4	200	440	140	03170
Recessed slotted mounting plate	4	200	420	160	03171
	6	300	420	160	03172
	9	450	450	160	03173

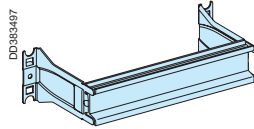


Plain and transparent front plates: see page B-52.

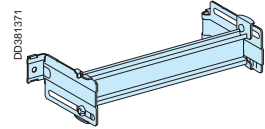
Installation on a modular rail



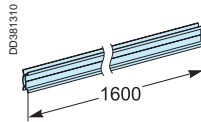
Designation	Cat. no.
Modular rail	
Modular rail	03010
Adjustable modular rail	03011
2 modular rails, L = 1600 mm with 4 holes, dia. 6.4 mm, 450 mm between centres	04226



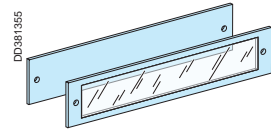
Modular rail (03010).



Adjustable modular rail (03011).

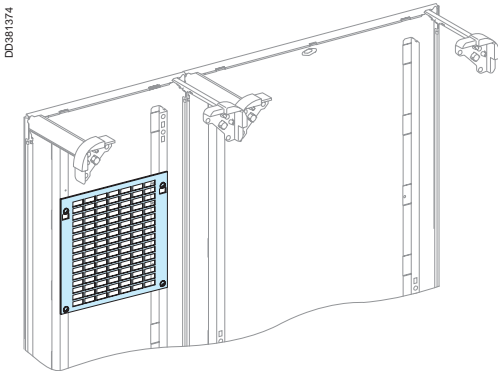


Modular rail, L = 1600 mm (04226).

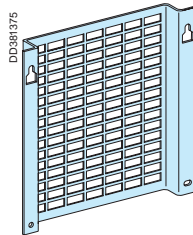


Plain and transparent front plates, see page B-52.

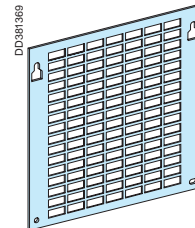
Installation on a slotted mounting plate



Designation	No. of modules	Useful height (mm)	Useful width (mm)	Depth behind front plate	Cat. no.
Slotted mounting plate					
Flat slotted mounting plate	4	200 mm	172	140	03175
Recessed slotted mounting plate	4	200 mm	172	160	03176
	6	300 mm	172	160	03177
	9	450 mm	172	160	03178



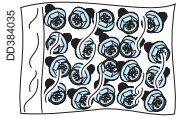
Recessed slotted mounting plate.



Flat slotted mounting plate.

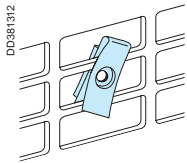
Others

M5 self-tapping screws



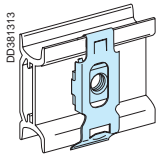
Designation	Cat. no.
20 M5 self-tapping screws for mounting on functional uprights	03183

Clip-nuts for slotted mounting plates



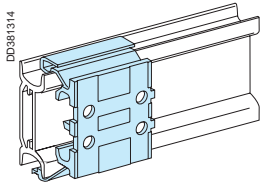
Designation	Cat. no.
20 clip-nuts for slotted mounting plates	see page B-53
M4 (03180)	
M5 (03181)	
M6 (03182)	

Clip-nuts for modular rails



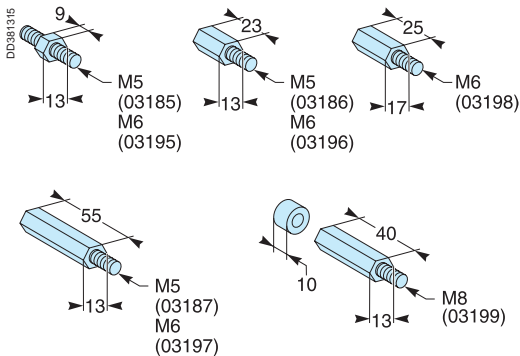
Designation	Cat. no.
20 clip-nuts for modular rails	see page B-53
M4 (03164)	
M5 (03165)	
M6 (03166)	

Pratic raiser



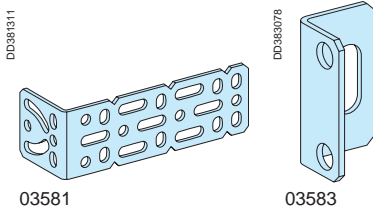
Designation	Cat. no.
5 Pratic raisers (04224)	see page B-53

Hexagonal spacers



Designation	Cat. no.
M5 hexagonal spacers	see page B-54
4 spacers H = 9 mm (03185)	
H = 23 mm (03186) H = 55 mm (03187)	
M6 hexagonal spacers	
4 spacers H = 9 mm (03195)	
H = 23 mm (03196) H = 25 mm (03198) H = 55 mm (03197)	
M8 hexagonal spacers	
4 spacers H = 10 + 40 mm (03199)	

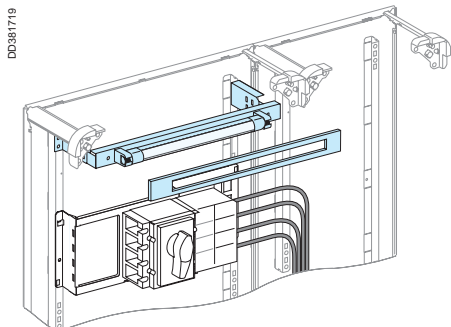
Universal angle bracket



Designation	Cat. no.
2 universal angle brackets (03581)	see page B-55
6 universal angle brackets (03583)	

Others

Switchboard lighting



Installation in a wall-mounted or floor-standing enclosure.

This system is generally used to illuminate the front of a switchboard.

The kit is made up of:

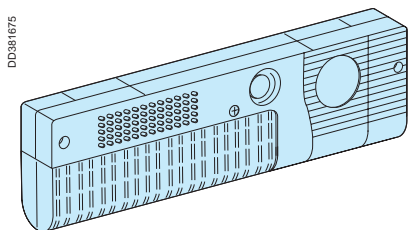
- a base
- a neon tube
- a front plate with cut-out (1 module)
- a door contact.

Characteristics

- supply voltage: 220/240 V
- power rating: 8 W.

Designation	No. of modules	Cat. no.
Switchboard lighting	1	08964

Switchboard portable lamp



Lamp with a magnetic base for installation behind a door or directly on the cubicle framework.

Supplied without a power cord.

It does not take up any useful space in the switchboard.

Designation	Cat. no.
Switchboard portable lamp	08965

Characteristics

- supply voltage: 220/240 V
- power rating: 11 W.

TOOLS

schneider-electric.com

This international site allows you to access all the Schneider Electric products in just 2 clicks via comprehensive range data-sheets, with direct links to:

- complete library: technical documents, catalogs, FAQs, brochures...

- selection guides from the e-catalog.

- product discovery sites and their Flash animations.

You will also find illustrated overviews, news to which you can subscribe, the list of country contacts...

Training

Training allows you to acquire the Schneider Electric expertise (installation design, work with power on, etc.) for increased efficiency and a guarantee of improved customer service.

The training catalogue includes beginner's courses in electrical distribution, knowledge of MV and LV switchgear, operation and maintenance of installations, design of LV installations to give but a few examples.



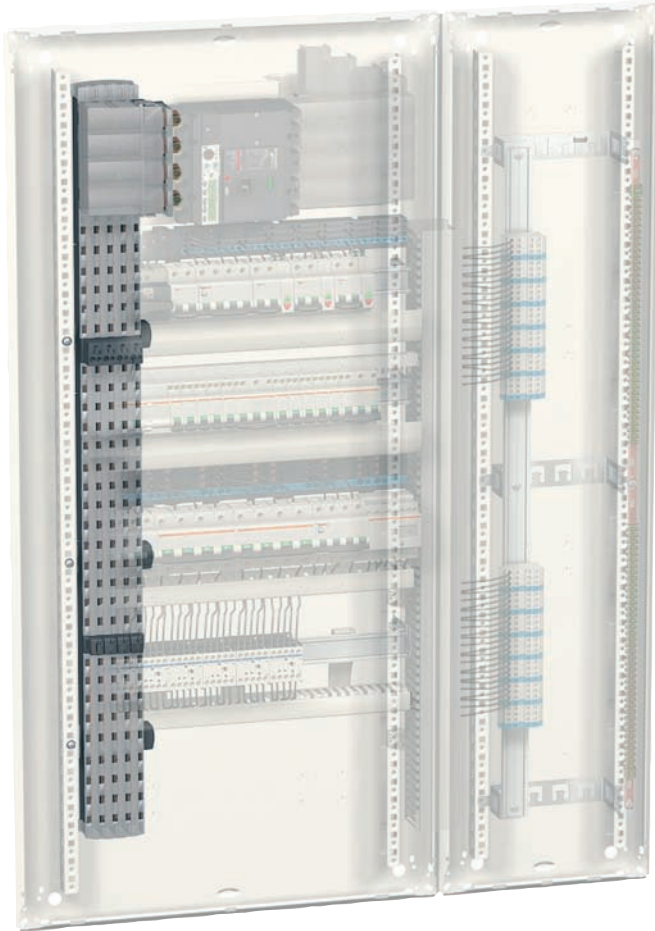
<i>Presentation</i>	20
<i>Pack wall-mounted enclosures</i>	A-1
<i>Functional units</i>	B-1
Non-centralised distribution	C-2
Main distribution	C-2
Powerclip busbars	C-2
Polybloc centralised distribution block - 400 A rear busbars - 630 A multi-stage busbars	C-3
630 A Powerclip busbars	C-4
630 A multi-stage busbars	C-7
400 A rear busbars	C-9
Insulated flexible bars	C-11
Centralised distribution	C-14
Distribloc distribution block	C-14
160/630 A multi-stage distribution block	C-16
Multiclip distribution block	C-17
Polybloc distribution block	C-20
Insulated flexible bars	C-22
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Terminal blocks	C-27
Spring technology	C-27
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<i>Additional information</i>	E-1

Non-centralised distribution

Powerclip busbars

Powerclip busbars are compact and fully insulated (IPxxB). They are supplied ready for installation in the switchboard. There are three and four-pole versions with ratings from 125 to 630 A. Available in four lengths, they can be cut every 150 or 200 mm, depending on the rating (see page C-5).

PD390337

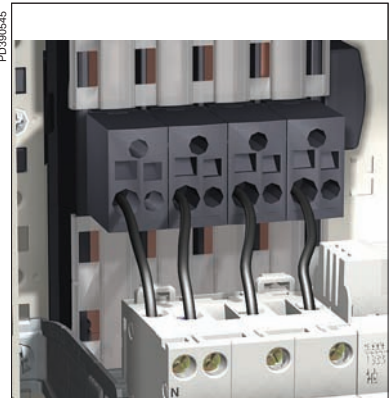


PD390340



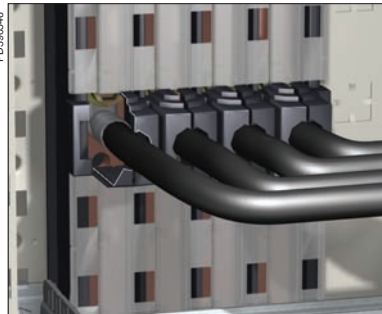
Additional 35 mm² blocks installed on the connection between the device and the busbars.

PD390545



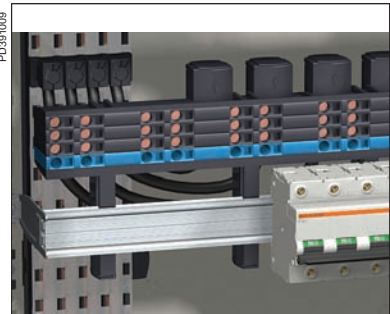
Powerclip tap-off blocks for 6 and 10 mm² cables.

PD390546



Clip-on covers insulate the cable lugs.

PD391009



200 A connection for a Multiclip distribution block.

Distribution

Non-centralised distribution

Main distribution

Polybloc centralised distribution block

400 A rear busbars

630 A multi-stage busbars

Polybloc centralised distribution block

The Polybloc distribution block is designed for optimum installation directly downstream of horizontal Compact NSx100/250 and Interpact INS250 devices. Mounting is very fast. It simply hooks onto the device mounting plate. Electrical connections are made directly to the device terminals.

It has the same width as the devices and does not require extra space in the switchboard. The connection terminals are slanted to facilitate cable entry and reduce the space required behind the front plate (see page C-20).

PD390341



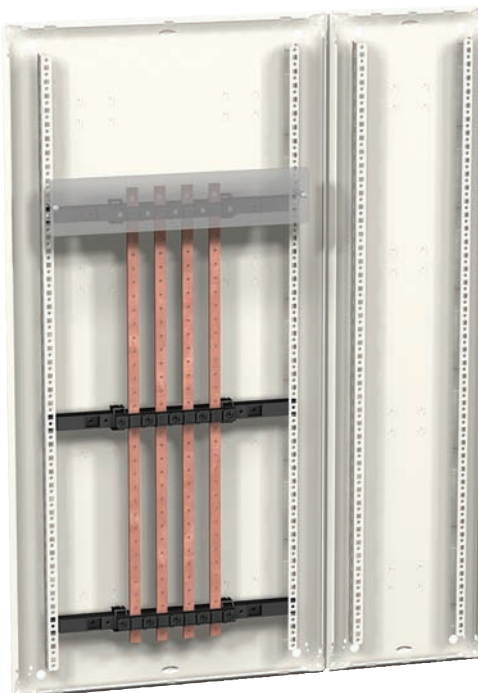
400 A rear busbars

The rear busbars are mounted directly on the rear of enclosures.

There are three and four-pole versions with ratings from 160 to 400 A.

Available in two lengths, 1000 and 1400 mm, they can be cut as needed (see page C-9).

PD390532



630 A multi-stage busbars

The multi-stage busbars are installed in a 300 mm wide duct.

They are particularly useful for distribution to two enclosures on each side of the duct.

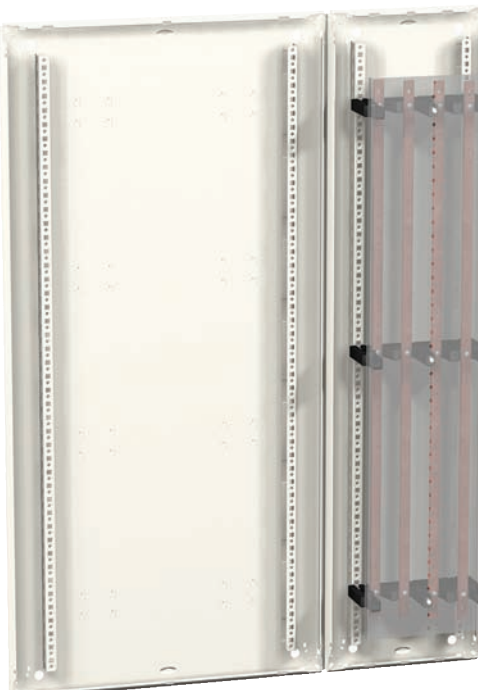
All connection points are easily accessible from the front.

The inclination of the bars facilitates connections and improves cable running.

There are three and four-pole versions with ratings from 160 to 630 A.

Available in two lengths, 1000 and 1400 mm, they can be cut as needed (see page C-7).

PD390533

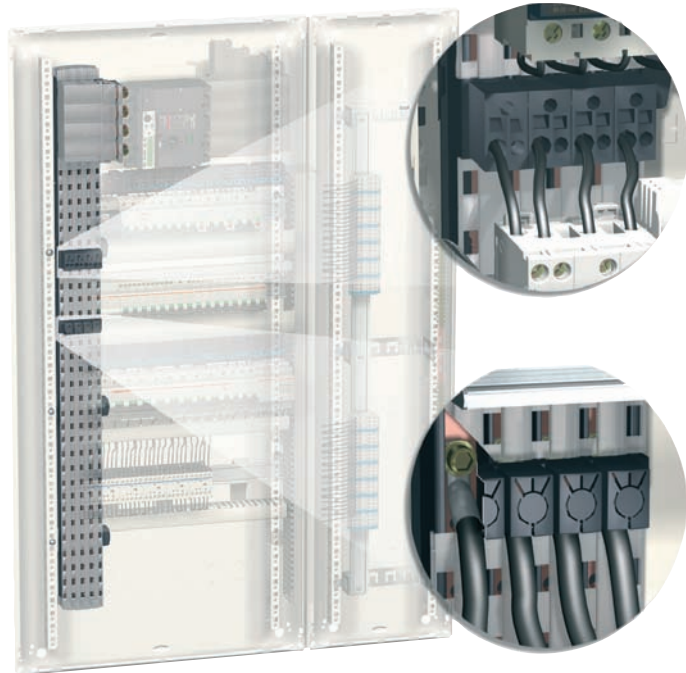


Non-centralised distribution

Presentation

Powerclip busbars are compact and fully insulated (IPxxB). They are supplied ready for installation in the switchboard. There are three and four-pole versions with ratings from 125 to 630 A. Available in four lengths, they can be cut every 150 or 200 mm, depending on the rating.

PD380349



Composition

Powerclip busbars are made up of ETP H12 channelled copper bars with threaded M6 holes every 25 mm. They are mounted on insulated bases and can be cut every 150 or 200 mm, depending on the rating. The ends of the busbars are plugged. Clip-on covers protect against direct contact from the front. The covers can be easily cut for the connections to the devices.

Installation

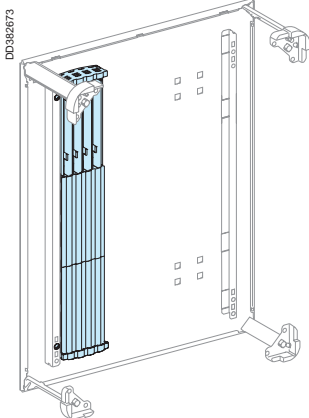
The busbars are supplied with supports that screw to the functional uprights of enclosures or to an adapter in a cubicle. They can be cut every 150 or 200 mm, depending on the rating.

Electrical characteristics

Permissible current of the busbars (A)	Rated short-time withstand current I_{cw} (kA rms / 1 s)	Rated peak withstand current I_{pk} (kA)
125	8.5	20
160	10	30
250	13	30
400	20	52.5
630	25	52.5

- rated insulation voltage:
 - Powerclip 125 A busbars: $U_i = 500$ V
 - Powerclip 160/400 A busbars: $U_i = 750$ V
 - Powerclip 630 A busbars: $U_i = 1000$ V
- impulse withstand voltage:
 - Powerclip 125/630 A busbars: $U_{imp} = 8$ kV.

125 A Powerclip busbars



Available in two lengths (450 and 750 mm) in three and four-pole versions. The busbars can be cut to length every 150 mm. They are supplied with clip-on covers that block off the connected cable lugs and can be cut as needed.

Cat. no. selection

Powerclip busbars 125 A		Cat. no.
Three-pole	L = 450 mm	04103
	L = 750 mm	04107
Four-pole	L = 450 mm	04104
	L = 750 mm	04108

Busbar connection

Four 125 A connections, L = 230 mm (for NG125, NSA and INS equipped with tunnel terminals) **04145**

A 35 mm² ferrule for connection to tunnel terminals is crimped to one end.

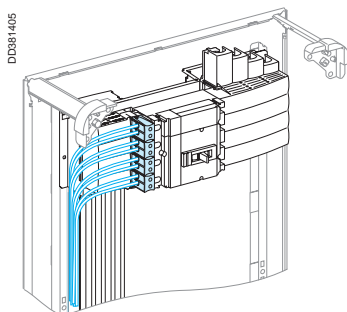
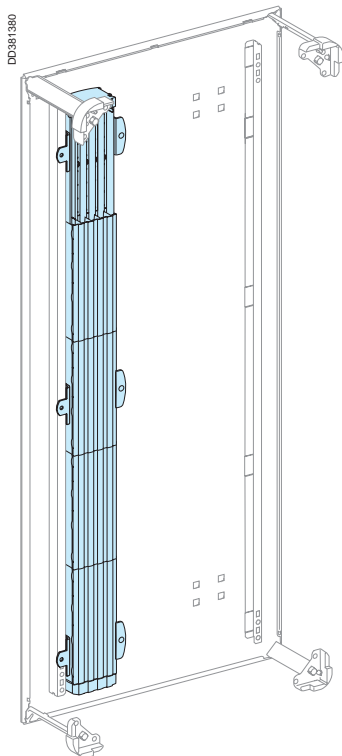
A 45° ring lug is crimped to the other end.

95 mm² tunnel terminals for INS : cat. no. 28947 (set of 3)

cat. no. 28948 (set of 4)

Non-centralised distribution

160/630 A Powerclip busbars

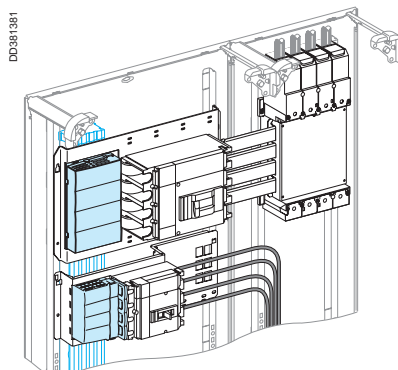


35 mm² 4P additional blocks (04156).

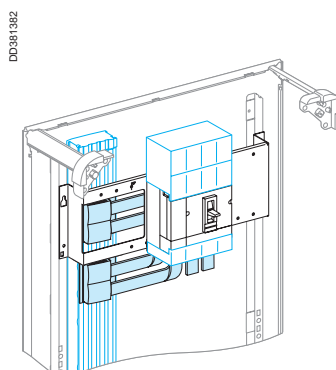
Available in two lengths (1000 and 1400 mm) in three and four-pole versions. The busbars can be cut to length every 200 mm. Prefabricated connections are available for the devices.

Powerclip busbars	160 A	250 A	400 A	630 A
Three-pole L = 1000 mm	04111	04112	04113	04114
L = 1400 mm	04116	04117	04118	04119
Four-pole L = 1000 mm	04121	04122	04123	04124
L = 1400 mm	04126	04127	04128	04129

Connection between incoming device and Powerclip busbars	Cat. no.	
Power supply block (with connection)	NSX250	04060
	NSX400	04070
	NSX630	04071
Universal power supply block (without connection)	100/250 A	04061
	400/630 A	04074
Connection for universal power supply block	Vertical NSX100/250	04062
	Vertical NSX100/250 in duct	04064
	Vertical NSX400/630 in duct	04073



NSX400 power supply block (04070) between incoming device and busbars.
NSX250 power supply block (04060) between busbars and Compact NS250.



250 A universal power supply block (04061) + 250 A connection (04062) between incoming device and busbars.

Connection between 200 A Multiclip and Powerclip busbars	Cat. no.	
200 A 4P connection for Multiclip (supplied with mounting hardware)	04021	
35 mm² additional blocks		
35 mm ² additional blocks	3P	04155
	4P	04156

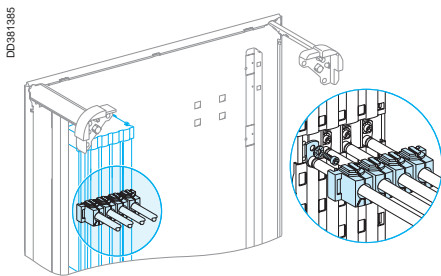
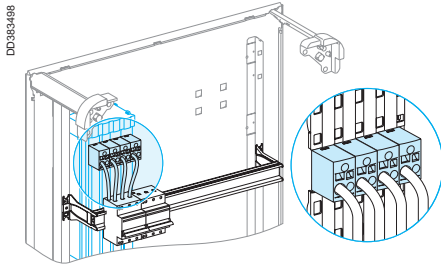
Busbar connection	Cat. no.
4 160 A connections, L = 230 mm (for NSA160)	04146

A 45 mm² ferrule for connection to tunnel terminals is crimped to one end.
A 45° ring lug is crimped to the other end.

Cable lugs
Bare tubular elbow cable lugs: see page E-8

Non-centralised distribution

Accessories

**Powerclip tap-off blocks**

Each block can be used to connect:

- one 6 mm² and one 10 mm² cable (04151)
- one 16 mm² cables (04152).

Equipped with spring terminals.

Designation	Cat. no.
12 Powerclip tap-off blocks with 6 mm ² + 10 mm ² terminals	04151
12 Powerclip tap-off blocks with 16 mm ² terminals	04152

Connection cover

Clip-on covers that block off the connected cable lugs and can be cut as needed.

They maintain IPxxB with 90° angle lugs and/or cable sizes from 10 to 25 mm².

Designation	Cat. no.
8 IPxxB covers for Powerclip busbars	04150

8.8 class mounting hardware

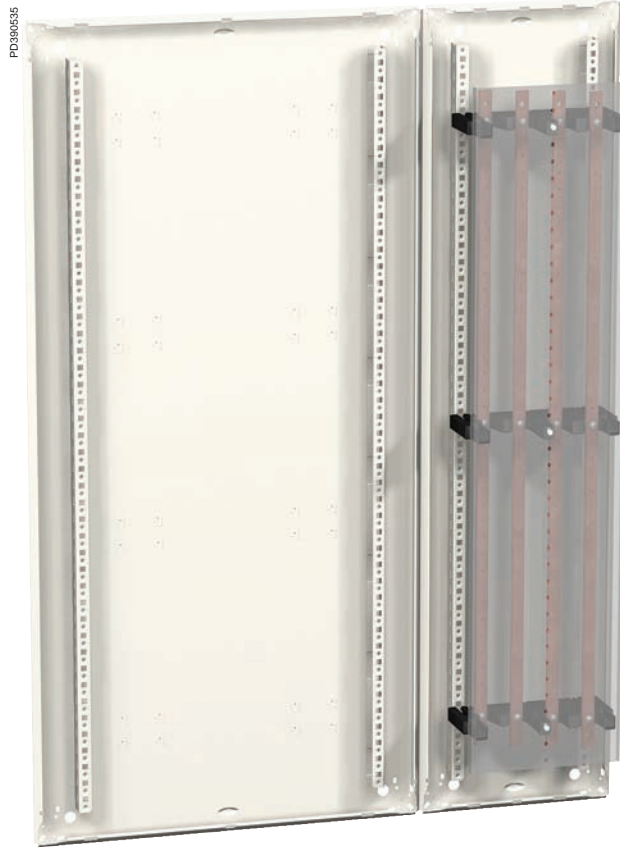
Used for electrical connections to the copper bars.

Designation	Cat. no.
Set of 20 CHC M6 x 12 mm screws for Powerclip busbars	04158

Non-centralised distribution

Presentation

The multi-stage busbars are installed in a 300 mm wide duct.
 They are particularly useful for distribution to two enclosures on each side of the duct.
 All connection points are easily accessible from the front.
 The inclination of the bars facilitates connections and improves cable running.
 There are three and four-pole versions with ratings from 160 to 630 A.
 Available in two lengths, 1000 and 1400 mm, they can be cut as needed.



Composition

Flat, copper bars with threaded M6 holes every 25 mm for connection along the entire length of the busbars. There are 8.2 mm diameter holes at each end for supply. The staggered supports are made of an insulating material. An optional, insulating, front barrier is available to protect against direct contact from the front.

Installation

The busbars are installed in a 300 mm wide duct for the enclosures.

Connection

- 16 mm² to 50 mm² flexible cables, with crimped lugs
- insulated flexible bars (see page C-11).

Electrical characteristics

- rated peak withstand current I_{pk} (kÂ)
 - 30 kÂ for 160 A busbars
 - 40 kÂ for 250 A busbars
 - 55 kÂ for 400 A busbars
 - 55 kÂ for 630 A busbars
- rated insulation level U_i = 750 V.

Busbar calculation

Busbar size and distance between supports

The table below indicates:

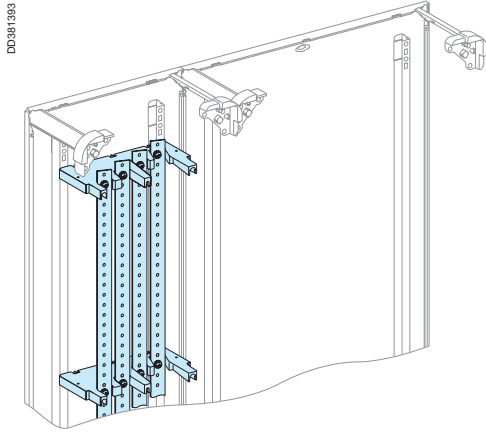
- the size of the bars to be used, depending on the permissible current level in the busbars
- the distance between supports, depending on the rated short-time withstand current (I_{cw}).

Rating (A)	Size of bars (mm)	Distance between support centres (mm)				
		I _{cw} (kA rms / 1 s)				
		10	13	15	20	25
160	15 x 5					
250	20 x 5					
400	32 x 5					
630	32 x 8					
		450			300	300 ⁽¹⁾

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

Non-centralised distribution

Busbar selection



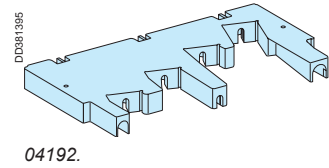
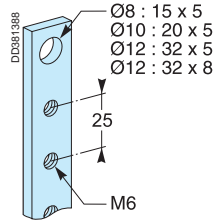
Copper bars

Copper bars	Rating (A)	Size of bars (mm)	Cat. no.
Four copper bars, L = 1000 mm	160	15 x 5	04161
	250	20 x 5	04162
	400	32 x 5	04163
Four copper bars, L = 1400 mm	160	15 x 5	04171
	250	20 x 5	04172
	400	32 x 5	04173
	630	32 x 8	04174

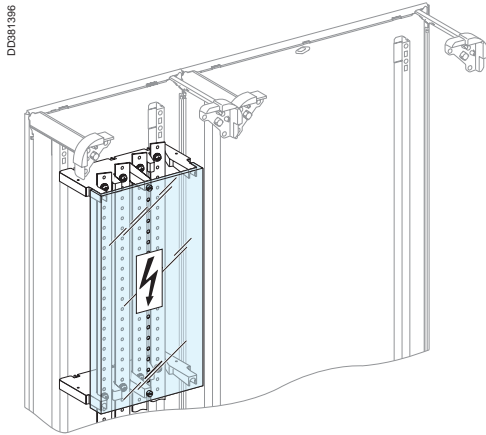
Busbar supports

Multi-stage busbar support	04192 ⁽¹⁾
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(1) Supplied with mounting hardware for barrier, cat.no. 04197.



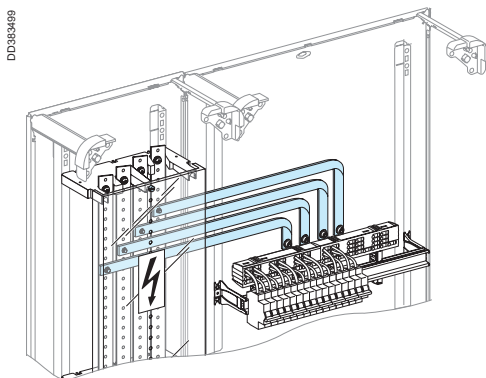
Accessories



Multi-stage busbar barrier

Protects against direct contact with the busbar connections from the front.

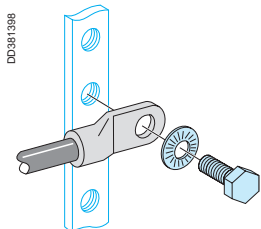
Designation	Cat. no.
Multi-stage busbar barrier, L = 1500 mm	04197



Multiclip connection

For supply to a 200 A Multiclip.

Designation	Cat. no.
Multi-stage busbar 4P connection for 200 A Multiclip distribution block	04024



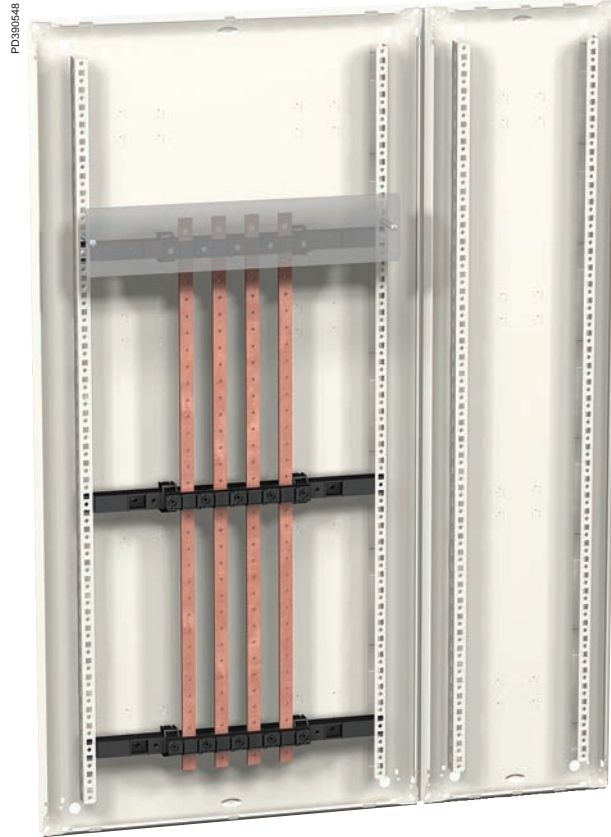
8.8 class mounting hardware

Designation	Cat. no.
Set of 20 M6 x 20 bolts (20 bolts + 20 nuts + 40 contact washers)	04194
Set of 40 M6 x 16 screws (40 screws + 40 contact washers)	04195

Non-centralised distribution

Presentation

The rear busbars are mounted directly on the uprights of the framework.
 There are three and four-pole versions with ratings from 160 to 400 A.
 Available in two lengths, 1000 and 1400 mm, they can be cut as needed.
 The connection with a Compact or Interpact incoming device occupies two vertical modules (50 mm each).



Composition

Flat, copper bars with threaded M6 holes every 25 mm for connection along the entire length of the busbars.
 The insulating supports can receive a fifth bar, 15 x 5 mm or 20 x 5 mm, to create an earth bar.

Installation

The busbars are mounted directly on the functional uprights of enclosures or on an adapter (03595) in a cubicle.

Connection

- 16 mm² to 50 mm² flexible cables, with crimped lugs
- insulated flexible bars (see page C-22).

Electrical characteristics

- rated peak withstand current I_{pk} (kÂ)
 - 30 kÂ for 160 A busbars
 - 40 kÂ for 250 A busbars
 - 55 kÂ for 400 A busbars
- rated insulation level U_i = 1000 V

Busbar calculation

Busbar size and distance between supports

The table below indicates:

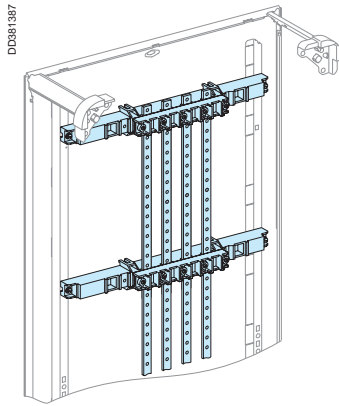
- the size of the bars to be used, depending on the permissible current level in the busbars
- the distance between supports, depending on the rated short-time withstand current (I_{cw}).

Rating (A)	Size of bars (mm)	Distance between support centres ⁽¹⁾ (mm)				
		I _{cw} (kA rms / 1 s)				
		10	13	15	20	25
160	15 x 5					
250	20 x 5					
400	32 x 5					

⁽¹⁾ Multiclip 200 A distribution blocks equipped with connections (04029) can be used as intermediate supports (200 mm max. distance between centres) in addition to the top and bottom supports.

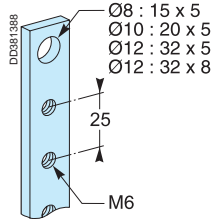
Non-centralised distribution

Busbar selection

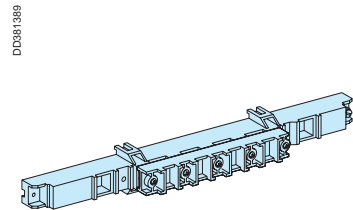


DD381337

Copper bars	Rating (A)	Size of bars (mm)	Cat. no.
Four copper bars, L = 1000	160	15 x 5	04161
	250	20 x 5	04162
	400	32 x 5	04163
Four copper bars, L = 1400	160	15 x 5	04171
	250	20 x 5	04172
	400	32 x 5	04173
Busbar supports			
Rear busbar support			04191

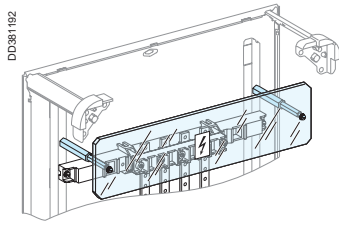


Copper bars.



Busbar supports.

Accessories



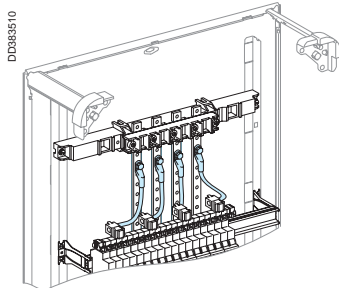
DD381182

04198.

Rear busbar barrier

Protects against direct contact with the busbar connections.
Supplied with mounting hardware.

Designation	Cat. no.
Rear busbar barrier, H = 100 mm	04198



DD383510

04145.

125 A connection

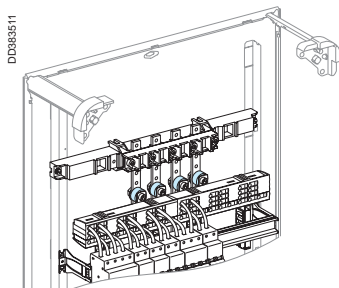
For direct supply to comb busbars from the rear busbars in the switchboard.

Designation	Cat. no.
Four 125 A connections, L = 230 mm (for NG125, NSA and INS equipped with tunnel terminals) A 35 mm ² ferrule for connection to tunnel terminals is crimped to one end. A 45° ring lug is crimped to the other end. 95 mm ² tunnel terminals for INS : cat. no. 28947 (set of 3) cat. no. 28948 (set of 4)	04145

160 A connection

For direct supply to an NSA160 from the rear busbars in the switchboard.

Designation	Cat. no.
4 160 A connections A 45 mm ² ferrule for connection to tunnel terminals is crimped to one end. A 45° ring lug is crimped to the other end.	04146



DD383511

04029.

200 A connection

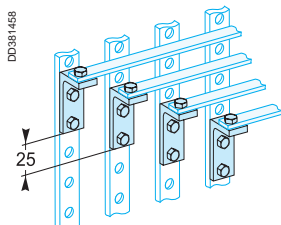
For supply of a 200 A Multiclip distribution block from the rear busbars in the switchboard.

Designation	Cat. no.
Rear busbar connection for 200A Multiclip distribution block	04029

Connection between busbars

For electrical connections between two sets of rear busbars.

Designation	Cat. no.
4 copper angle brackets, 250A	04190



DD381458

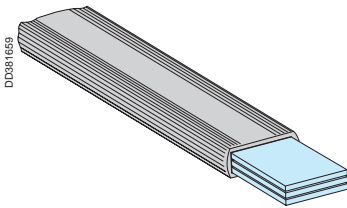
04190.

8.8 class mounting hardware

Designation	Cat. no.
Set of 20 M6 x 20 bolts (20 bolts + 20 nuts + 40 contact washers)	04194
Set of 40 M6 x 16 screws (40 screws + 40 contact washers)	04195

Non-centralised distribution

Presentation



The insulated flexible bars are tested in a type-tested switchboard environment. Their design takes into account the switchboard architecture where they are often in close proximity to a protection device (circuit breaker or fuse) with significant heat losses.

In-depth knowledge of switchboard architecture and the connected devices led to the establishment of a selection table based on the type of device.

Flexible bars are 1800 mm long and made of copper with an insulating sheath.

Rated insulation level $U_i = 1000$ V.

The sizes for the flexible bars indicated below take into account the heat losses of Schneider devices in a Prisma Plus switchboard.

Catalogue number selection

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.

Device	Size (mm)	Cat. no.
NSX100	20 x 2	04742
NSX160/250	20 x 3 ⁽¹⁾	04743
NSX400	32 x 5	04751
NSX630	32 x 8	04753
INS125/160	20 x 2	04742
INS250	20 x 3	04743
INS400	32 x 5	04751
INS630	32 x 6	04752
200 A Multiclip	20 x 3	04743
Polypact, 3P ⁽²⁾	32 x 8	04753
Polypact, 4P ⁽²⁾	32 x 8	04753
Fupact 250	24 x 5	04746
Fupact 400	32 x 5	04751
Fupact 630	32 x 8	04753

⁽¹⁾ To connect a Compact NSX250 to Powerclip busbars, use a 24 x 5 mm flexible bar (04746).

⁽²⁾ The connection of a Polypact distribution block using insulated flexible bars is not compatible with Form 2 partitioning (04922).

In this case, use the form 2 restoration kit 04924.

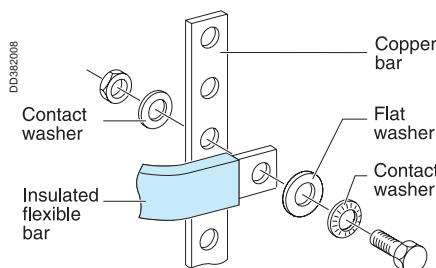
Connection between busbars

Flexible bars are designed for connections between busbars taking into account the following characteristics:

a maximum temperature of 60 °C inside the switchboard. This corresponds to the average temperature inside a switchboard for an ambient temperature of 35 °C

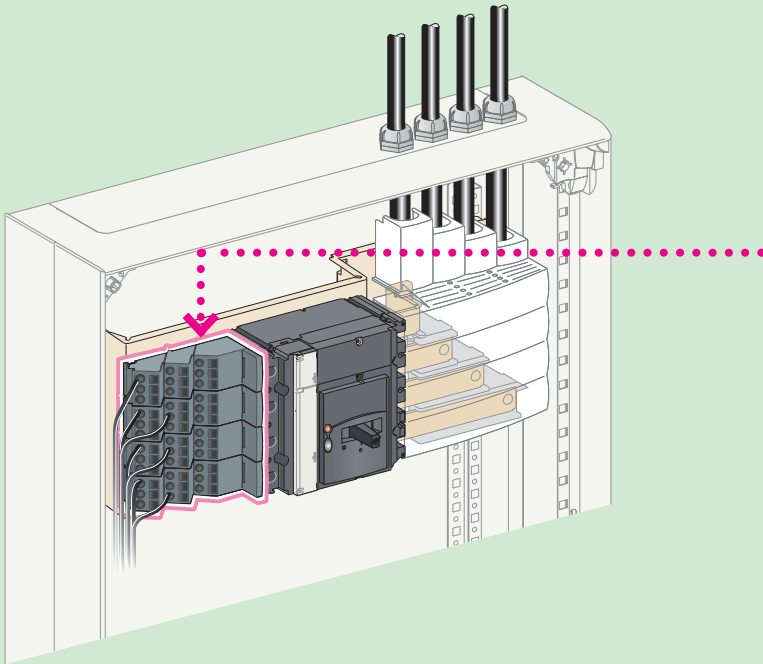
■ the maximum withstand temperature for the insulating material is 125 °C.

Ie max. (A)	Size (mm)	Cat. no.
200	20 x 2	04742
250	20 x 3	04743
400	24 x 5	04746
520	32 x 5	04751
580	32 x 6	04752
660	32 x 8	04753

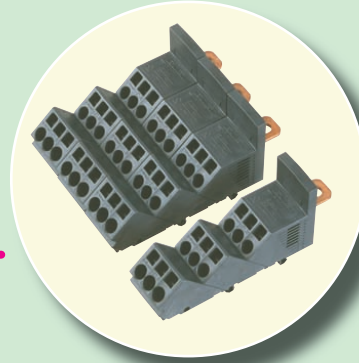


Prisma Plus System G

For incoming devices

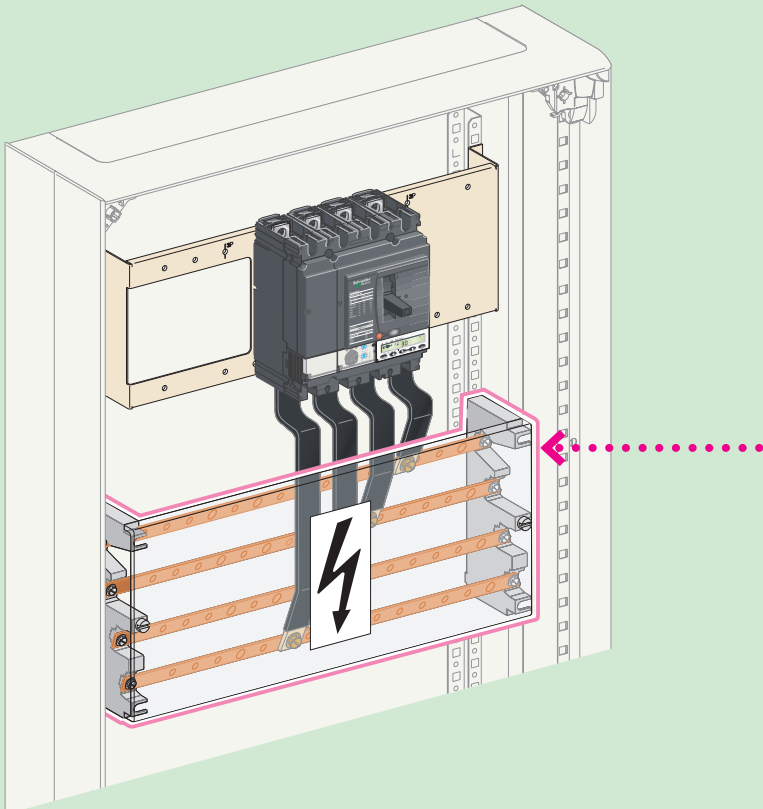


160 to 250 A Polybloc

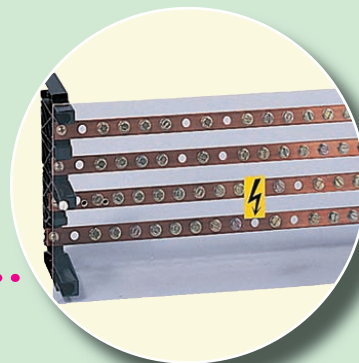


- Reliable spring-terminal connections for outgoing circuits, requiring no maintenance
- Horizontal or vertical installation in minimum space

▶ C-20



160 to 630 A multi-stage distribution block

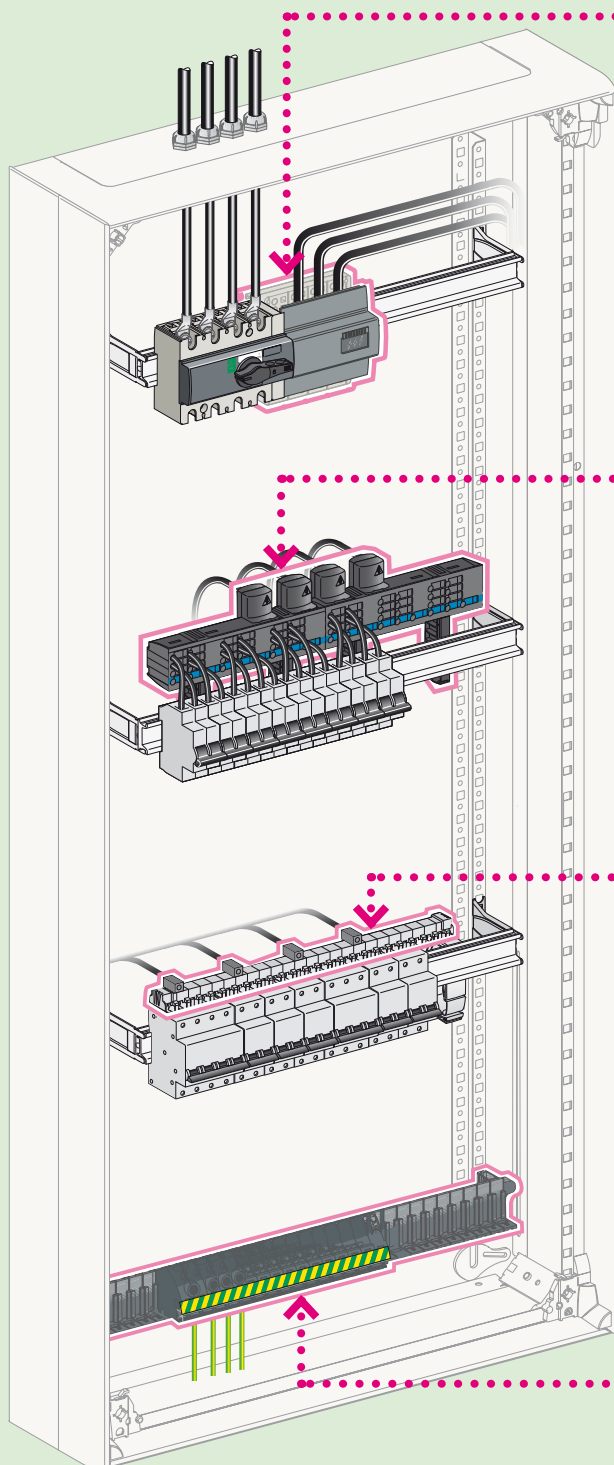


- Traditional, highly versatile solution
- Many installation possibilities

▶ C-16

distribution blocks

For rows of modular devices



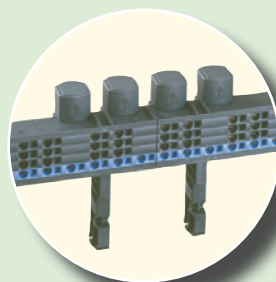
125 to 160 A Distribloc



- Spring terminals for electrical connections that stay tight
- Front designed to integrate perfectly with modular devices

► C-14

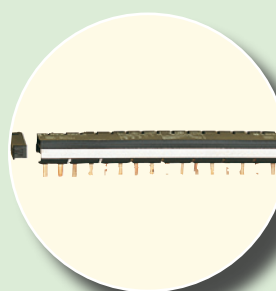
63/200 A Multiclip



- Reliable spring-terminal connections requiring no maintenance
- Fast installation
- Easy upgrades through replacement or addition of devices
- Easy balancing of phases

► C-17

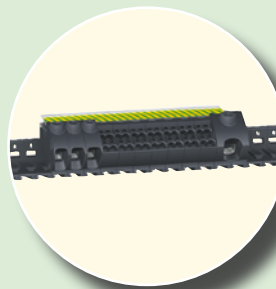
80 to 125 A comb busbars



- Fast and direct connections, adaptable to all needs
- Fast, economical connections

► B-22

63/160 A adaptable earthing terminal blocks

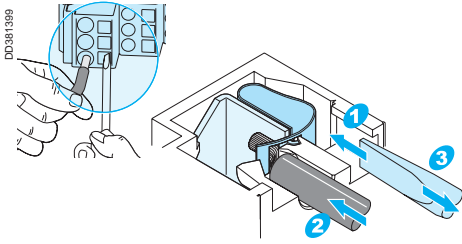


- Innovative solution

► C-30

Centralised distribution

General



Cable connection.

Downstream circuits are connected from the front, to spring terminals. Contact pressure automatically adapts to the size of the conductor. It does not depend on the operator. Contacts are insensitive to vibrations and thermal variations. Only one cable (flexible or rigid, without a metal ferrule) can be inserted in a spring terminal. Degree of protection: IPxxB.

Advantages

- a reliable electrical connection, no maintenance required (tightness guaranteed over time)
- very fast connection
- easy phase balancing
- rewiring is very easy if the switchboard is expanded or modified.

Distribloc distribution block



The four-pole distribution block is made up of:

- a fully insulated, one-piece distribution block complying with the degree of protection IPxxB (protection against direct contacts)
- a modular cover.

The design of the front (45 mm nose) blends perfectly into a row comprising modular devices.

Designation	Cat. no.
125 A Distribloc distribution block	04045
160 A Distribloc distribution block + connection	04046

Electrical characteristics

- rated insulation level: $U_i = 750\text{ V}$
- rated operational current $I_e (40^\circ\text{C})$:
 - 125 A for the 125 A Distribloc
 - 160 A for the 160 A Distribloc with its prefabricated connection for INS160 or NSA160
- short-circuit withstand current: the reinforced breaking capacity due to cascading in circuit-breaker combinations is maintained. The worst-case situations have been tested.
- complies with the low-voltage device standard IEC 60947.7.1 and/or IEC 60439.1
- impulse withstand voltage $U_{imp} = 8\text{ kV}$.

Supply

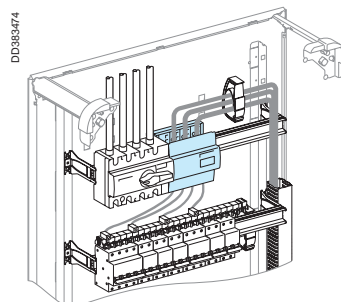
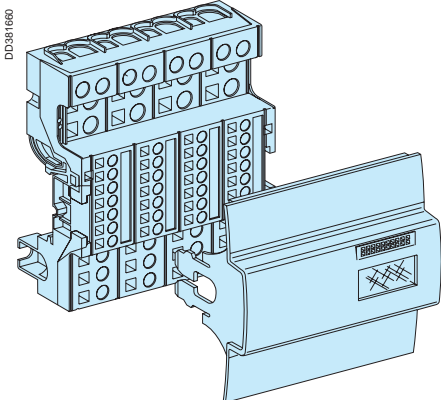
- tunnel terminal on 125 A Distribloc 125 for 6 to 35[□] flexible cables (10 to 35[□] rigid cables)
- the 160 A Distribloc is supplied with a prefabricated flexible connection. It is designed for an INS100/160 or NSA160 switch-disconnector, installed on the left or right.

Distribution (125 and 160 A Distribloc)

- spring terminals:
 - 2 outgoing from 1 to 10[□], flexible or rigid
 - 3 outgoing from 1 to 6[□], flexible or rigid
 - 7 outgoing from 1 to 4[□], flexible or rigid
- tunnel terminals:
 - 1 outgoing from 4 to 16[□], flexible (4 to 25[□] rigid)

Supply

- an identification label
- adhesive labels for phase identification
- a prefabricated flexible connection for the INS160 or NSA160 (160 A Distribloc only).

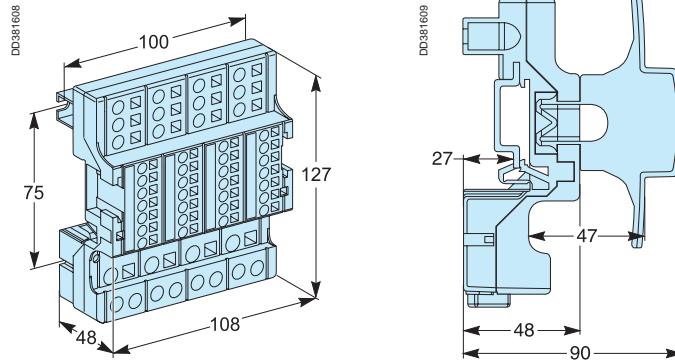


Centralised distribution

Installation

- clipped onto a modular rail
- width occupied is 12 modules (9 mm each)
- screwed to plain or slotted backplate. Distances between centres = 100 x 75 mm.

Dimensions



125 A connection



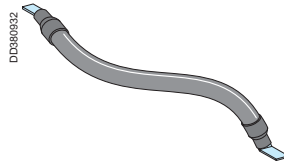
Set of four flexible connections, 35^{sq}, L = 210 mm.
To supply a 125 A Distribloc from an NG125 or an INS125.

Designation

4 NG-INS125 connections for Distribloc

Cat. no.

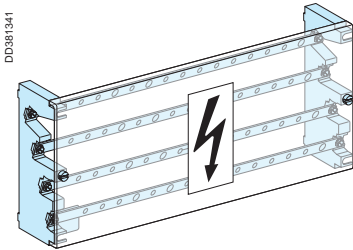
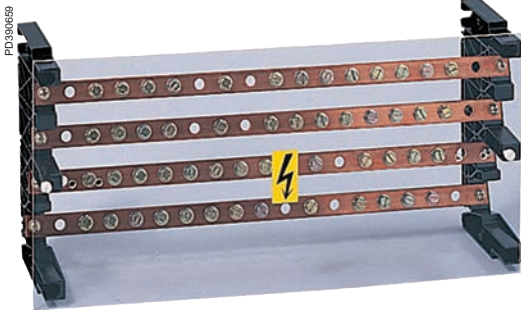
04047



160/630 A multi-stage distribution block

Centralised distribution

160/630 A four-pole multi-stage distribution block



The distribution block can be installed horizontally in the device zone or vertically in the 300 mm wide duct of wall-mount and floor-standing enclosures. It is not compatible with Pack enclosures.

The distribution block is made up of:

- two staggered supports made of an insulating material
- four slanted copper bars with holes every 25 mm
- 13 threaded M6 holes for outgoing
- four 12.2 mm diameter holes to supply the distribution block.

It is supplied with:

- M6 hardware
- one IPxxB insulating barrier for the front.

Cat. no. selection

Multi-stage distri. block	Size of bars (mm)	Cat. no.
160 A Distribloc (40 °C)	15 x 5	04052
250 A Distribloc (40 °C)	20 x 5	04053
400 A Distribloc (40 °C)	32 x 5	04054
630 A Distribloc (40 °C)	32 x 8	04055

Electrical characteristics

- rated operational current I_e (40 °C):
 - 160 A for distribution block 04052
 - 250 A for distribution block 04053
 - 400 A for distribution block 04054
 - 630 A for distribution block 04055
- rated insulation level $U_i = 750$ V
- rated short-time withstand current I_{cw} :
 - 10 kA rms / 1 s for 160 A block
 - 13 kA rms / 1 s for 250 A block
 - 20 kA rms / 1 s for 400 A block
 - 25 kA rms / 1 s for 630 A block
- rated peak withstand current I_{pk} :
 - 30 kA for 160 A block
 - 30 kA for 250 A block
 - 40 kA for 400 A block
 - 40 kA for 630 A block
- impulse withstand voltage $U_{imp} = 8$ kV.

Supply

- 16 mm² to 50 mm² cables with crimped lugs
- 20 x 2 mm flexible bars for NSX100/160
- 20 x 3 mm flexible bars for NSX250
- 32 x 5 mm flexible bars for NSX400
- 32 x 8 mm flexible bars for NSX630.

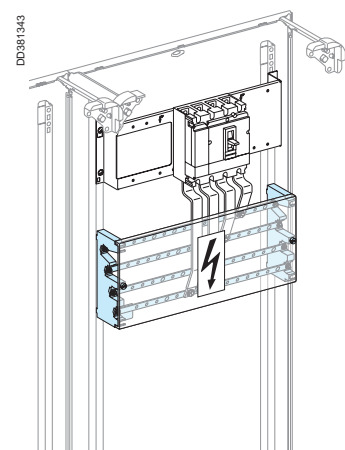
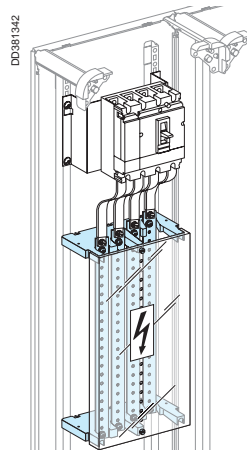
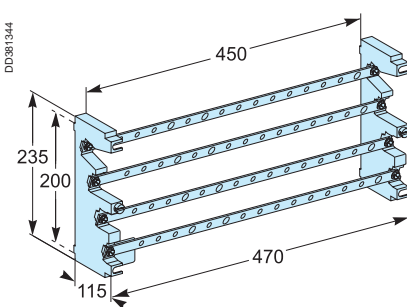
Distribution

13 outgoing per phase, max. 50 mm².

Installation

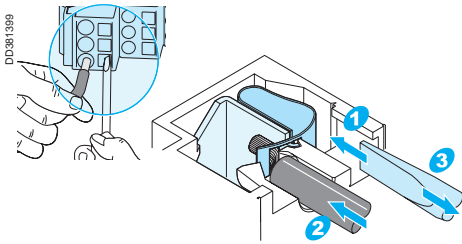
- screwed horizontally onto the functional uprights of wall-mount and floor-standing enclosures
- screwed vertically onto the functional uprights of the 300 mm wide duct
- screwed to plain or slotted backplate.

Dimensions



Centralised distribution

General



Cable connection.

For connections, the distribution block uses a proven technique, i.e. spring terminals. Downstream circuits are connected from the front, without screws, to spring terminals. Contact pressure does not depend on the operator. It automatically adapts to the size of the conductor (minimum size = 1 mm²). Contacts are insensitive to vibrations and thermal variations.

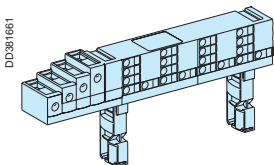
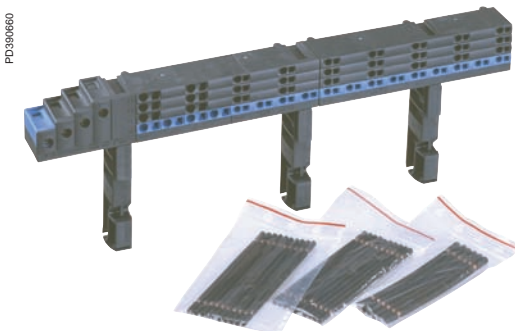
Only one cable (flexible or rigid, without a metal ferrule) can be inserted in a spring terminal.

Degree of protection: IPxxB.

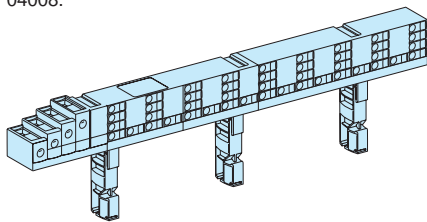
Advantages

- a reliable electrical connection, no maintenance required (tightness guaranteed over time)
- the fast connections make phase balancing very easy.
- rewiring is very easy if the switchboard is expanded or modified.

63/80 A Multiclip distribution blocks



04008.



04004.

Application

Distribution over half or full rows of modular devices. It is generally supplied by a device at the head of a group of outgoing (NG125, INS, C60, etc.).

Cat. no. selection

Designation	Cat. no.
80 A Multiclip distribution block, 4P	04004
63 A Multiclip distribution block, 4P, 1/2 row	04008

Electrical characteristics

- rated insulation level $U_i = 500$ V
- impulse withstand voltage $U_{imp} = 6$ kV
- short-circuit withstand current: the reinforced breaking capacity due to cascading in circuit-breaker combinations is maintained. The worst-case situations have been tested.
- 63/80 A Multiclip distribution blocks:
 - 4 mm² cable outgoing: $I_{max} = 32$ A
 - 6 mm² cable outgoing: $I_{max} = 40$ A
 - two 6 mm² cables: $I_{max} = 63$ A.

Supply

Via tunnel terminals up to 25 mm², generally from a device supplying a group of outgoing.

The tunnel terminals are positioned to facilitate cable entry and screw tightening. They are designed for cables arriving from the top or bottom.

Distribution

■ for the full-row Multiclip, 4P (04004), each phase offers:

- 2 connection points for 6 mm² max. cable
- 7 connection points for 4 mm² max. cable

the neutral offers:

- 4 connection points for 6 mm² max. cable
- 13 connection points for 4 mm² max. cable

■ for the half-row Multiclip, 4P (04008), each phase offers:

- 2 connection points for 6 mm² max. cable
- 2 connection points for 4 mm² max. cable

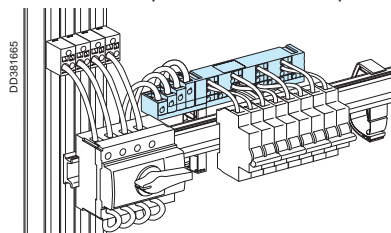
the neutral offers:

- 4 connection points for 6 mm² max. cable
- 4 connection points for 4 mm² max. cable

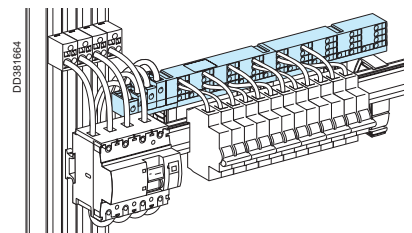
Each connection point can receive a single cable, either flexible or rigid.

Installation

- clipped onto the rear of modular rail
- screwed to plain or slotted backplate



Half-row Multiclip distribution block supplied by an INS switch-disconnector.



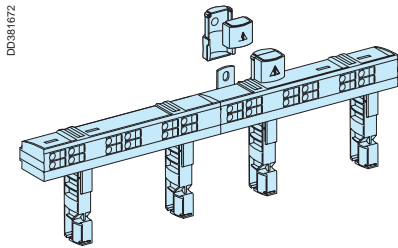
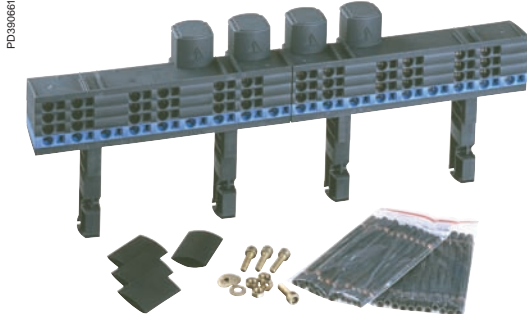
Multiclip distribution block supplied by a Vigi NG125 circuit breaker.

Supplied with 100 mm long bared copper connections

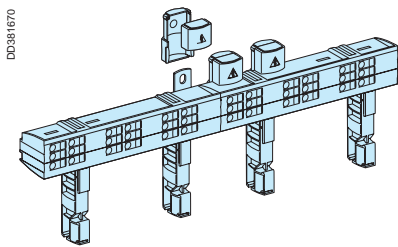
- for full-row Multiclip (04004):
 - 2 sets of ten 4 mm² connections + 1 set of six 6 mm² connections
- for half-row Multiclip (04008):
 - 1 set of ten 4 mm² connections + 1 set of six 6 mm² connections.

Centralised distribution

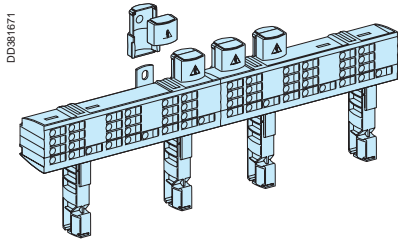
160/200 A Multiclip distribution blocks



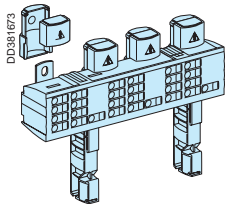
04012.



04013.



04014.



04018.

Application

Distribution over full rows of modular devices. The distribution block is generally supplied by busbars in enclosures and cubicles.

Cat. no. selection

Designation	Cat. no.
200 A Multiclip, 2P	04012
200 A Multiclip, 3P	04013
200 A Multiclip, 4P	04014
160 A Multiclip, 4P, 1/2 row	04018

Electrical characteristics

- rated insulation level $U_i = 750\text{ V}$
- impulse withstand voltage $U_{imp} = 8\text{ kV}$
- short-circuit withstand current: the reinforced breaking capacity due to cascading in circuit-breaker combinations is maintained. The worst-case situations have been.
- 160/200 A Multiclip distribution blocks:
 - 10 mm² cable outgoer: $I_{max} = 50\text{ A}$
 - two 10 mm² cables: $I_{max} = 63\text{ A}$.

Supply

- direct to terminals:
 - 50 mm² cables with crimped lugs
 - 20 x 3 mm flexible bars
- from Powerclip insulated busbars in a wall-mount or floor-standing enclosure (04021)
- from lateral, channelled busbars in a cubicle (connection must be made)
- from busbars in the duct of a wall-mount or floor-standing enclosure (04024)
- from busbars in the rear of a wall-mount or floor-standing enclosure (04029).

Busbar connection

Designation	Cat. no.
Connection between 200 A Multiclip and Powerclip insulated busbars (enclosure)	04021
Connection between 200 A Multiclip and busbars in a duct (enclosure)	04024
Connection between 200 A Multiclip and rear busbars (enclosure)	04029

Distribution

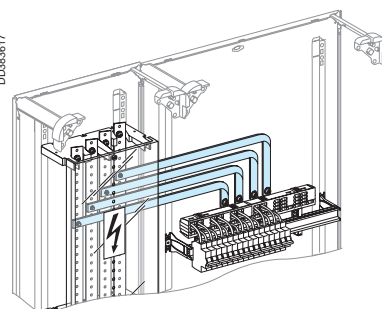
- 200 A Multiclip, 2P (04012):
 - 12 connection points for phase and neutral
 - 200 A Multiclip, 3P and 4P (04013 and 04014):
 - 12 connection points for each phase
 - 18 connection points for the neutral
 - 160 A Multiclip, 4P, 1/2 row (04018):
 - 6 connection points for each phase
 - 9 connection points for the neutral
- Each connection point can receive a single 10 mm² cable, either flexible or rigid.

Installation

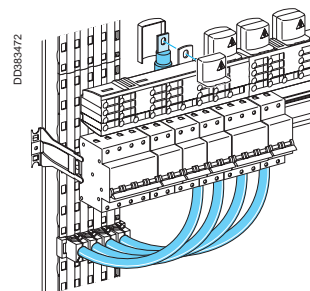
- clipped onto the rear of modular rail
- screwed to plain or slotted backplate.

Supplied with:

- 100 mm long, bared 10 mm² copper connections
- 200 A Multiclip, 2P, 3P and 4P (04012, 04013 et 04014): 2 sets of 12 connections
- 160 A Multiclip, 1/2 row (04018): 1 set of 12 connections
- protection covers for the supply terminals (IPxxB)
- the hardware required for the supply terminals.



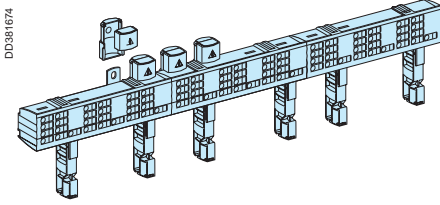
Supply from busbars in the duct of a wall-mount or floor-standing enclosure (connection 04024).



Supply from Powerclip busbars in a wall-mount or floor-standing enclosure (connection 04021).

Centralised distribution

200 A Multiclip distribution block (36 modules)



04026.

Application

Distribution over full rows of modular devices.
The distribution block is generally supplied by busbars in enclosures.

Cat. no. selection

Designation	Cat. no.
200 A Multiclip, 4P (36 modules)	04026

Electrical characteristics

- rated insulation level $U_i = 750\text{ V}$
- impulse withstand voltage $U_{imp} = 8\text{ kV}$
- short-circuit withstand current: the reinforced breaking capacity due to cascading in circuit-breaker combinations is maintained. The worst-case situations have been.
- 200 A Multiclip:
 - 10 mm² cable outgoer: $I_{max} = 50\text{ A}$
 - two 10 mm² cables: $I_{max} = 63\text{ A}$.

Supply

direct to terminals:

- 50 mm² cables with crimped lugs
- 20 x 3 mm flexible bars
- from Powerclip insulated busbars in a wall-mounted or floor-standing enclosure (connection 04021)
- from busbars in the rear of a wall-mounted or floor-standing enclosure (connection 04029).

Designation	Cat. no.
Connection between 200 A Multiclip and Powerclip insulated busbars (enclosure)	04021
Connection between 200 A Multiclip and rear busbars (enclosure)	04029

Distribution

18 connection points for each phase.

27 connection points for the neutral.

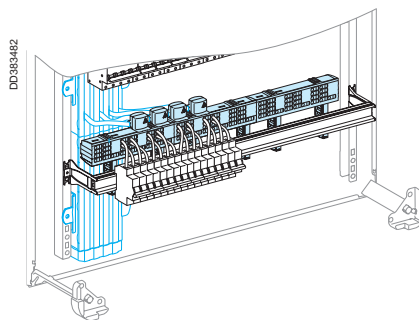
Each connection point can receive a single 10 mm² cable, either flexible or rigid.

Installation

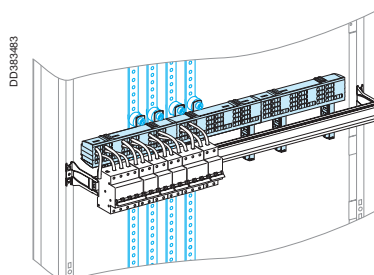
- clipped onto the rear of modular rail
- screwed to plain or slotted backplate.

Supplied with:

- 3 sets of twelve 100 mm long, bared 10 mm² copper connections
- protection covers for the supply terminals (IPxxB)
- the hardware required for the supply terminals.



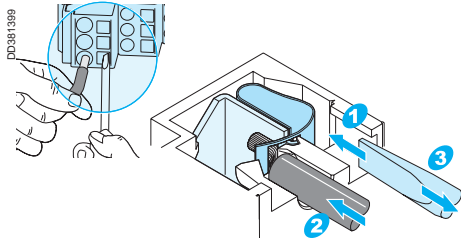
Supply from Powerclip busbars in a wall-mounted or floor-standing enclosure (connection 04021).



Supply from busbars in the rear of a wall-mounted or floor-standing enclosure (connection 04029).

Centralised distribution

General



Downstream circuits are connected from the front, without screws, to spring terminals. Contact pressure automatically adapts to the size of the conductor (minimum size = 1 mm²). Contacts are insensitive to vibrations and thermal variations.

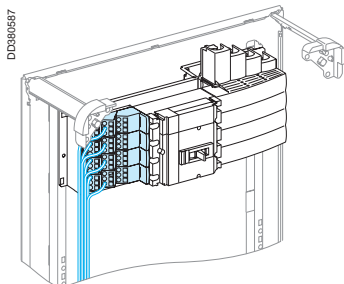
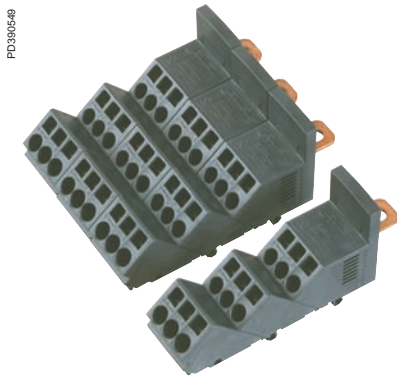
Only one cable (flexible or rigid, without a metal ferrule) can be inserted in a spring terminal.

Degree of protection: IPxxB.

Advantages of spring terminals

- a reliable electrical connection, no maintenance required
- the fast connections make phase balancing very easy.
- rewiring is very easy if the switchboard is expanded or modified.

250 A Polybloc distribution block



Horizontally mounted Polybloc in a wall-mounted enclosure.

Applications

The Polybloc distribution block is designed for installation directly downstream of Compact circuit breakers and Interpact switch-disconnectors devices up to 250 A. It can be rapidly mounted in the horizontal position. Electrical connections are made directly to the device terminals.

It has the same width as the devices and does not take up any additional space in the switchboard.

The connection terminals are slanted to facilitate cable entry and not exceed the bending radius of the flexible and rigid cables.

Cat. no. selection

Designation	Cat. no.
Polybloc distribution block, 3P, 250 A	04033
Polybloc distribution block, 4P, 250 A	04034

Electrical characteristics

The electrical characteristics are perfectly compatible with the connected devices. Neither the temperature derating curves nor the performance levels of the circuit breakers and switch-disconnectors are altered.

- rated insulation level $U_i = 750$ V
- short-circuit withstand current: the reinforced breaking capacity due to cascading in circuit-breaker combinations is maintained. The worst-case situations have been tested.

impulse withstand voltage $U_{imp} = 8$ kV.

Supply

Directly to the terminals of the Compact NSX and Interpact INS devices up to 250 A.

Distribution

Via cables, up to six 10 mm² cables and three 16 mm² cables per phase.

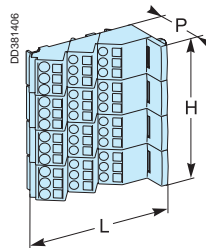
Installation

Directly on the mounting plates of horizontally mounted Compact NSX100/250 and Interpact INS250 devices in the enclosures.

It can also be mounted downstream of vertically mounted Compact NSX100/250 and Interpact INS250 devices in the enclosures. In this case, the Polybloc is mounted on a depth-adjustable modular rail (03002).

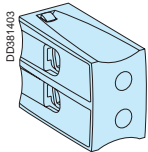
Dimensions

	H (mm)	L (mm)	P (mm)
Polybloc, 3P	105	138	63
Polybloc, 4P	140	138	63



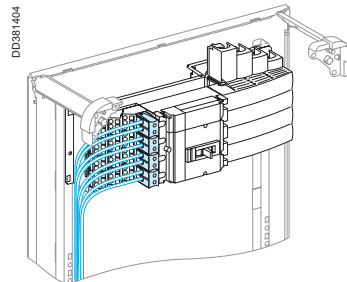
Centralised distribution

35 mm² additional blocks



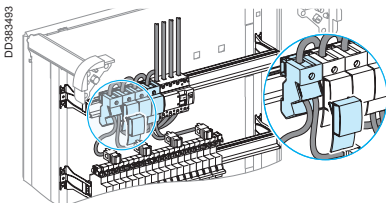
These blocks with screw terminals can be mounted on the 250 A Polybloc for connection of two 35 mm² cables per phase.

Designation	Cat. no.
35 mm ² 3P additional blocks (3 blocks)	04155
35 mm ² 4P additional blocks (4 blocks)	04156



Additional blocks with a Polybloc distribution block.

160 A Polybloc distribution block



Three 160 A Polybloc distribution blocks in the vertical position on a modular rail, supplied by an NG125.

The 160 A Polybloc is made up of individual elements that can be used alone or with others to make two-pole, three-pole or four-pole distribution blocks. Mounting is very fast. It clips onto a modular rail and is supplied by cables via a tunnel terminal.

The connection spring terminals are slanted to facilitate cable entry and bending of the flexible and rigid cables.

It is supplied with a cover that also guides the cables.

Cat. no. selection

Designation	Cat. no.
Polybloc distribution block, 1P, 160 A	04031

Electrical characteristics

- rated insulation level $U_i = 750\text{ V}$
- short-circuit withstand current: the reinforced breaking capacity due to cascading in circuit-breaker combinations is maintained. The worst-case situations were tested. The electrical characteristics are perfectly compatible with the connected devices. Neither the temperature derating curves nor the performance levels of the circuit breakers and switch-disconnectors are altered.
- impulse withstand voltage $U_{imp} = 8\text{ kV}$.

Supply

Direct to a tunnel terminal, for cables up to 70 mm².

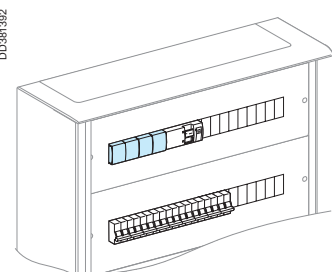
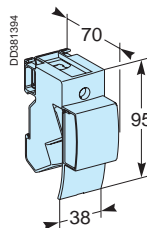
Distribution

Via cables, up to six 16 mm² cables.

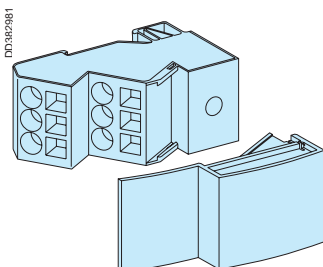
Installation

The blocks clip onto a modular rail.

Dimensions

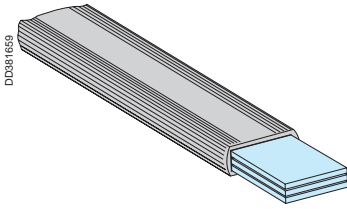


160 A Polybloc distribution block in a front plate cut-out.



Centralised distribution

Presentation



The insulated flexible bars are tested in a type-tested switchboard environment. Their design takes into account the switchboard architecture where they are often in close proximity to a protection device (circuit breaker or fuse) with significant heat losses.

In-depth knowledge of switchboard architecture and the connected devices led to the establishment of a selection table based on the type of device.

Flexible bars are 1800 mm long and made of copper with an insulating sheath. Rated insulation level $U_i = 1000$ V.

The sizes for the flexible bars indicated below take into account the heat losses of Schneider devices in a Prisma Plus switchboard.

Catalogue number selection

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.

Device	Size (mm)	Cat. no.
NSX100	20 x 2	04742
NSX160/250	20 x 3 ⁽¹⁾	04743
NSX400	32 x 5	04751
NSX630	32 x 8	04753
INS125/160	20 x 2	04742
INS250	20 x 3	04743
INS400	32 x 5	04751
INS630	32 x 6	04752
200 A Multiclip	20 x 3	04743
Polypact, 3P ⁽²⁾	32 x 8	04753
Polypact, 4P ⁽²⁾	32 x 8	04753
Fupact 250	24 x 5	04746
Fupact 400	32 x 5	04751
Fupact 630	32 x 8	04753

(1) To connect a Compact NSX250 to Powerclip busbars, use a 24 x 5 mm flexible bar (04746).

(2) The connection of a Polypact distribution block using insulated flexible bars is not compatible with Form 2 partitioning (04922).

In this case, use the form 2 restoration kit 04924.

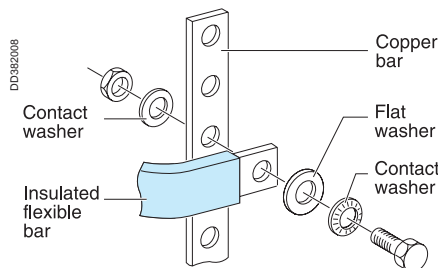
Connection between busbars

Flexible bars are designed for connections between busbars taking into account the following characteristics:

a maximum temperature of 60 °C inside the switchboard. This corresponds to the average temperature inside a switchboard for an ambient temperature of 35 °C

■ the maximum withstand temperature for the insulating material is 125 °C.

Ie max. (A)	Size (mm)	Cat. no.
200	20 x 2	04742
250	20 x 3	04743
400	24 x 5	04746
520	32 x 5	04751
580	32 x 6	04752
660	32 x 8	04753

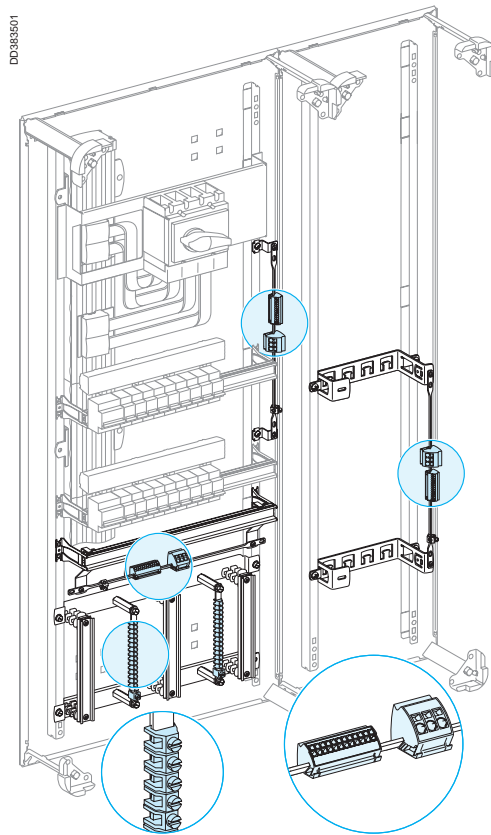


Centralised distribution

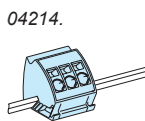
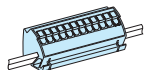
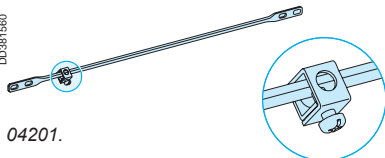
Position of the earth bar in the switchboard

In Prisma Plus wall-mounted and floor-standing enclosures, the earth bar is installed:

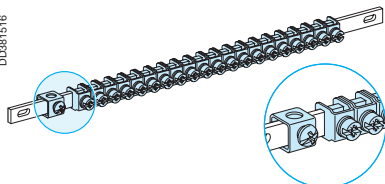
- in a duct, which may be a dedicated zone, totally separate from the devices
- in the device compartment, at the top or bottom.



Earth bar



04215.



04200.

Presentation

The earth bar can be:

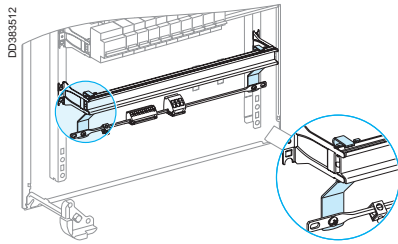
- a bare earth bar, 12 x 3 mm with 330 mm of connection space, equipped with a 35 mm² tunnel terminal and on which earth blocks with spring terminals can be clipped
- an earth bar (200 or 450 mm long), equipped with a 35 mm² tunnel terminal and clamps with captive screws.

Designation	Cat. no.
Bare earth bar, 12 x 3 mm with 330 mm of connection space, equipped with a 35 mm² tunnel terminal (for earth blocks with spring terminals)	04201
4 ear h blocks with 12 x 4 mm² spring terminals (L = 75 mm)	04214
4 ear h blocks with 3 x 16 mm² spring terminals (L = 37 mm)	04215

Earth bar with clamps	Cat. no.
Earth bar with 40 clamps + one 35 mm² terminal (L = 450 mm)	04200
2 ear h bars with 20 clamps + one 35 mm² terminal (L = 200 mm)	04202

Centralised distribution

Top or bottom installation

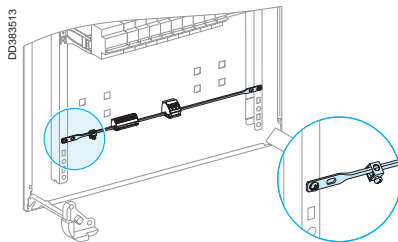


Earth bar mounted on rear of modular rail

Designation	Cat. no.
2 supports for earth bar on modular rail	04205

Earth bar used:

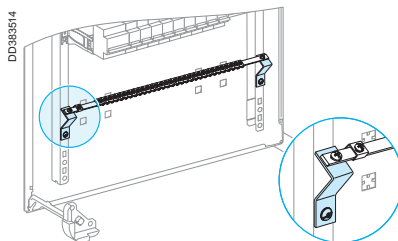
- 450 mm earth bar with clamps or spring terminals in an enclosure
- 200 mm earth bar with clamps in the 300 mm wide duct.



Earth bar mounted at rear of enclosure

Earth bar used:

- 450 mm earth bar with clamps or spring terminals in an enclosure
- 200 mm earth bar with clamps in the 300 mm wide duct.

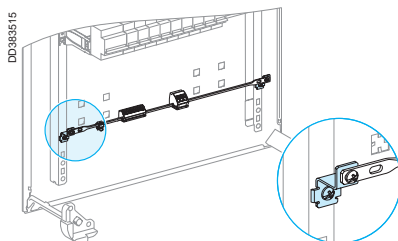


Earth bar mounted on 45° supports

Designation	Cat. no.
Two 45° supports for modular rail	03005

Earth bar used:

- 450 mm earth bar with clamps or spring terminals in an enclosure
- 200 mm earth bar with clamps in the 300 mm wide duct.

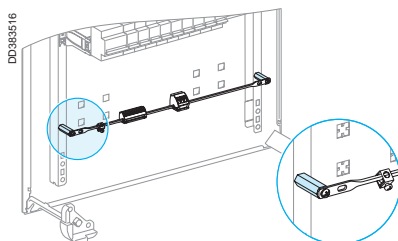


Earth bar mounted on fixing brackets

Designation	Cat. no.
2 fixing brackets for the earth bar on the functional uprights	
H = 15 mm	04206
H = 45 mm	04207
H = 80 mm	04208

Earth bar used:

- 450 mm earth bar with clamps or spring terminals in an enclosure
- 200 mm earth bar with clamps in the 300 mm wide duct.



Earth bar mounted on hexagonal spacers

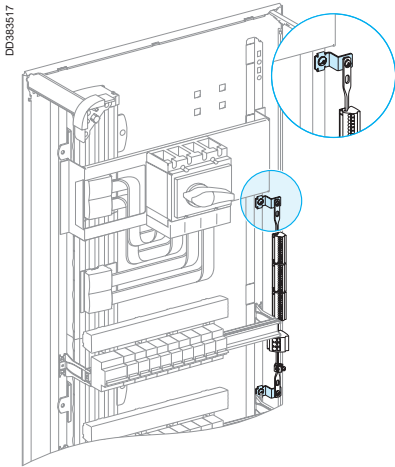
Designation	Cat. no.
Set of four M6 hexagonal spacers	
H = 9 mm	03195
H = 23 mm	03196
H = 55 mm	03197

Earth bar used:

- 450 mm earth bar with clamps or spring terminals in an enclosure
- 200 mm earth bar with clamps in the 300 mm wide duct.

Centralised distribution

Installation on the side



The earth bar can be installed vertically on two fixing brackets secured to a functional upright.

This solution saves considerable space in the device zone and avoids the need for the 300 mm wide duct.

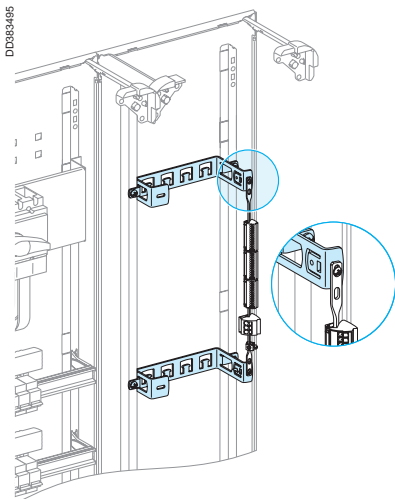
Cat. no. selection

Designation	Cat. no.
2 fixing brackets for the earth bar on the functional uprights	
H = 15 mm	04206
H = 45 mm	04207
H = 80 mm	04208

Earth bar used:

- earth bar with clamps or spring terminals.

Installation in the 300 mm wide duct



A mounting plate (04220), made up of two supports, is equipped with:

- a 1600 mm modular rail (04226) for terminal blocks
- an earth bar.

The supports have cut-outs that can be used to easily tie down the connection wires.

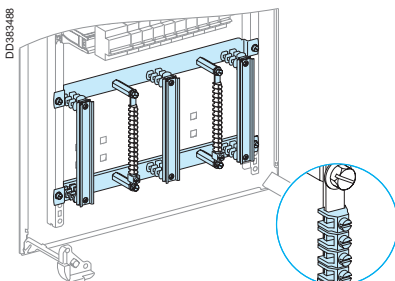
Cat. no. selection

Designation	Cat. no.
Mounting plate for terminal block and earth bar	04220

Earth bar used:

- earth bar with clamps or spring terminals.

Installation on a dedicated mounting plate



The mounting plate for terminal blocks (04223) can be equipped with two 200 mm earth bars with clamps.

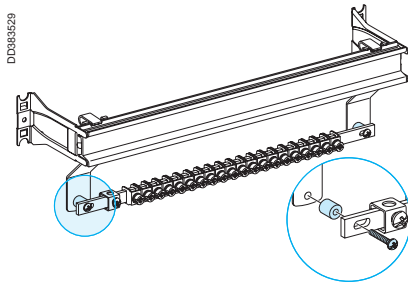
Designation	Cat. no.
Mounting plate with 4 vertical DIN rails for terminal blocks	04223

Earth bar used:

- 200 mm earth bar with clamps.

Centralised distribution

Neutral bar



A neutral bar is created by inserting insulating spacers behind an earth bar.

Designation
Kit for neutral bar

Cat. no.
04210

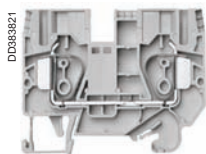
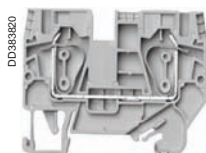
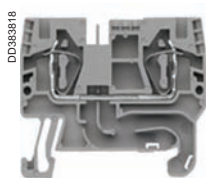
Terminal blocks

Terminal blocks for 4 to 16[□] cables, flexible or rigid, without a metal ferrule.

- connection to spring terminals, no screws
- contact pressure automatically adapts to the size of the conductor
- only one cable can be inserted in a spring terminal
- two versions:
 - 4 - 6 - 10 - 16[□]: one in-come and one out-goer for cables
 - 4[□]: one in-come and two out-goers for cables
- three colours: grey for phases, blue for neutral and green/yellow for earth
- mounting by clipping onto a modular rail
- rated insulation level $U_i = 800\text{ V}$
- rated impulse withstand voltage $U_{imp} = 8\text{ kV}$.

Advantages

- the quality of the connection does not depend on the operator and remains stable over time without maintenance
- contacts are insensitive to vibrations and thermal variations
- less expensive to apply
- permits a frontal connection.



Terminal blocks for 4 [□] cables 6 mm wide		Number per set	Cat. no.
1 in-come, 1 out-goer			
Grey block	2 x 4 [□]	100	AB1 RRN435U2GR
Blue block	2 x 4 [□]	100	AB1 RRN435U2BL
Green/yellow block	2 x 4 [□]	100	AB1 RRNTP435U2
Partition		10	AB1 RRNTPAC442
Grey end plate		10	AB1 RRNAC443GR
Blue end plate		10	AB1 RRNAC443BL
1 in-come, 2 out-goers			
Grey block	3 x 4 [□]	100	AB1 RRN435U3GR
Blue block	3 x 4 [□]	100	AB1 RRN435U3BL
Partition		10	AB1 RRNTPAC443
Commoning link	2 pole	10	AB1 RRAL42
Grey end plate		10	AB1 RRNAC443GR
Blue end plate		10	AB1 RRNAC443BL

Terminal blocks for 6 [□] cables 8 mm wide		Number per set	Cat. no.
Grey block	2 x 6 [□]	100	AB1 RRN635U2GR
Blue block	2 x 6 [□]	100	AB1 RRN635U2BL
Green/yellow block	2 x 6 [□]	100	AB1 RRNTP635U2
Commoning link		10	AB1 RRNAL62

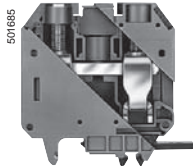
Terminal blocks for 10 [□] cables 10 mm wide		Number per set	Cat. no.
Grey block	2 x 10 [□]	50	AB1 RRN1035U2GR
Blue block	2 x 10 [□]	50	AB1 RRN1035U2BL
Green/yellow block	2 x 10 [□]	50	AB1 RRNTP1035U2
Commoning link		10	AB1 RRAL102

Terminal blocks for 16 [□] cables 12 mm wide		Number per set	Cat. no.
Grey block	2 x 16 [□]	50	AB1 RRN1635U2GR
Blue block	2 x 16 [□]	50	AB1 RRN1635U2BL
Green/yellow block	2 x 16 [□]	50	AB1 RRNTP1635U2
Commoning link		50	AB1 RRAL162

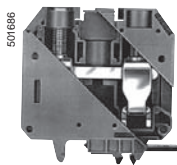
Terminal blocks

Terminal blocks for 35 to 150² cables, flexible or rigid, without a metal ferrule. Complementary offer "terminal blocks spring technology" for cables up to 16².

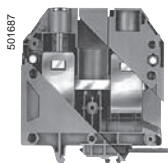
- two colours: grey for phases, blue for neutral
- mounting by clipping onto a modular rail
- rated insulation level:
 - terminal blocks for 35 to 70² cables: $U_i = 800\text{ V}$
 - terminal blocks for 150² cables: $U_i = 1000\text{ V}$
- rated impulse withstand voltage:
 - terminal blocks for 35 to 150² cables: $U_{imp} = 8\text{ kV}$.



Terminal blocks for 35 ² cables 16 mm wide		Number per set	Cat. no.
Grey block	2 x 35 ²	20	AB1 VVN3535U
Blue block	2 x 35 ²	20	AB1 VVN3535UBL
Commoning link	2 pole	10	AB1 ALN352



Terminal blocks for 70 ² cables 24 mm wide		Number per set	Cat. no.
Grey block	2 x 70 ²	20	AB1 VVN7035U
Blue block	2 x 70 ²	20	AB1 VVN7035UBL
Commoning link	2 pole	10	AB1 ALN702

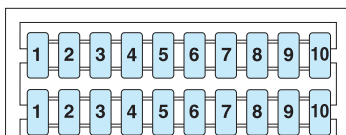
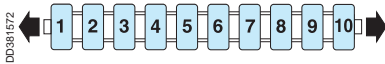


Terminal blocks for 150 ² cables 28 mm wide		Number per set	Cat. no.
Grey block	2 x 150 ²	10	AB1 VVN15035U
Blue block	2 x 150 ²	10	AB1 VVN15035UBL
Commoning link	2 pole	10	AB1 ALN1502

Stop plate

Stop plate	Number per set	Cat. no.
Stop plate	100	AB1 AB8P35

Markers



Sold in lots of 25 identical strips.

Marking	6 mm pitch	8 mm pitch
Blank	AB1-BV6	AB1-BV8
1 to 10	AB1-B610	AB1-B810
11...20	AB1-B620	AB1-B820
21...30	AB1-B630	AB1-B830
31...40	AB1-B640	AB1-B840
41...50	AB1-B650	AB1-B850
51...60	AB1-B660	AB1-B860
61...70	AB1-B6670	AB1-B870
71...80	AB1-B680	AB1-B880
81...90	AB1-B690	AB1-B890
91...100	AB1-B6100	AB1-B8100
L1	AB1-B6L1	
L2	AB1-B6L2	
L3	AB1-B6L3	
+ red	AB1-BV6RP	
- blue	AB1-BV6BM	

Marking	Number per set	Cat. no.
Blank clip-on marker (4.5 x 8 3 mm)	500	AB1-SA1

Marker strips with numbers 101 to 110, etc. up to 991 à 999.

Please consult "Terminal blocks" catalogue, reference number: ART960061.

Spring-technology terminal blocks

AB1 XX XXXXX XX XX

Colour	Grey GR	Blue BL	
No. of points	2 U2	3 U3 ⁽¹⁾	4 U4 <i>(1) For 4 mm² only.</i>
Block type	Pass-through		For protective earth
Conductor size	4 mm ² 435	6 mm ² 635	10 mm ² 1035
	16 mm ² 1635	4 mm ² TP435	6 mm ² TP635
		10 mm ² TP1035	16 mm ² TP1635
Technology	Spring RRN		

Example: AB1RR635U2GR: grey 2-point spring-type terminal block for 6 mm² conductors.

Screw-technology terminal blocks

AB1 XX XXXXX XX XX

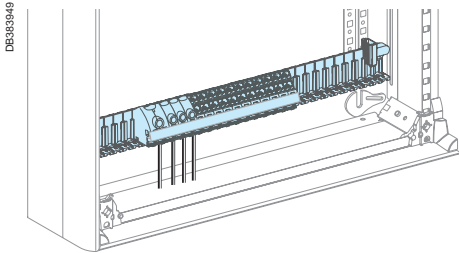
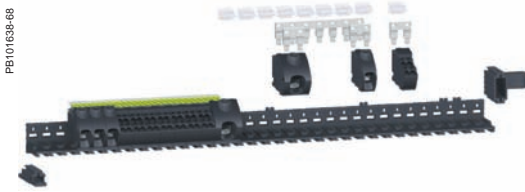
Colour	Grey GR	Blue BL
No. of points	2 U	
Block type	Pass-through	
Conductor size	35 mm ² N3535	
	70 mm ² N7075	
	150 mm ² N15035	
Technology	Screw VV	

Example: AB1VVN3535UBL: blue 2-point screw-type terminal block for 35 mm² conductors.

Adjustable earth + neutral terminal blocks

Spring or screw technology

Terminal block components

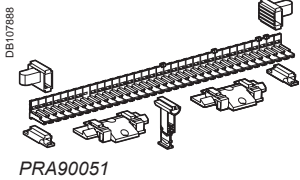
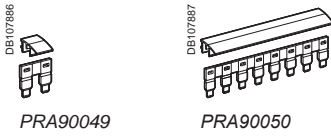
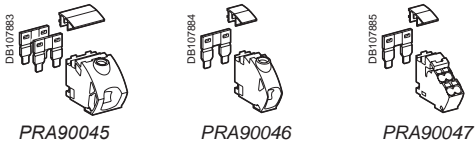


These components are used to build and install a terminal block:

- on the framework near the conductor entry point
- on a DIN rail mounted on the enclosure framework
- at the rear of the enclosure or the interface
- on the functional uprights in Prisma Plus switchboards.

Permissible current:

- 50 mm² terminal block kit: 160 A max. at 40°C
- 25 mm² terminal block kit: 90 A max. at 40°C
- 6 x 4 mm² terminal block kit: 63 A max. at 40°C
- 8-block junction kit:
 - 90 A with 1 junction
 - 160 A with 2 junctions mounted in parallel
- 2-block junction kit: 90



Terminal blocks			Cat. no.
50 mm ² terminal block kit	W = 2 blocks	Batch of 2	PRA90045
25 mm ² terminal block kit	W = 1 block	Batch of 5	PRA90046
4 x 6 mm ² terminal block kit	W = 1 block	Batch of 10	PRA90047
Terminal block junction			
8-block junction kit	W = 8 blocks	Batch of 1	PRA90050
2-block junction kit	W = 2 blocks	Batch of 10	PRA90049
Terminal block support			
Terminal block support kit	W = 34 blocks maximum	Batch of 1	PRA90051

Use as incoming splitter block



Incoming splitter block kit W = 1 block Batch of 4 **PRA90048**

For converting terminal block kits PRA90045/PRA90046/PRA90047 into an incoming splitter block up to 125 A and 50 mm².

Permissible current:

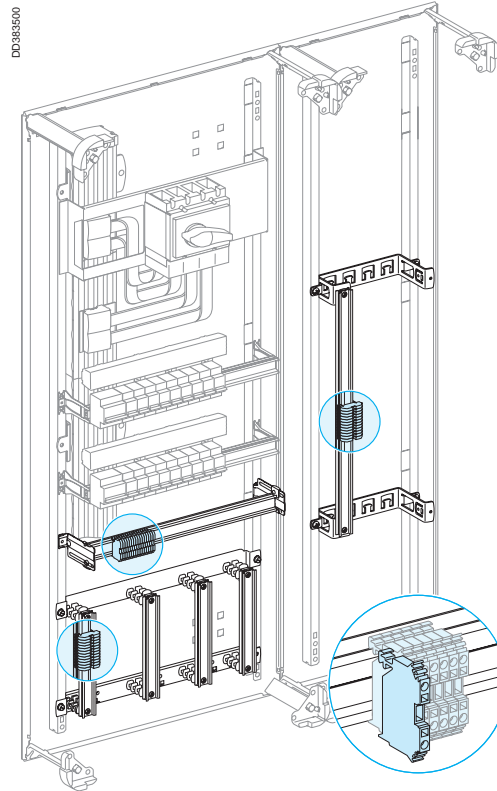
- entry via PRA90046 (1 x 25 mm² - 1 block): 80 A
 - entry via PRA90045 (1 x 50 mm² - 2 blocks): 125 A
- Ui: 400 V and Uimp: 6 kV

Centralised distribution

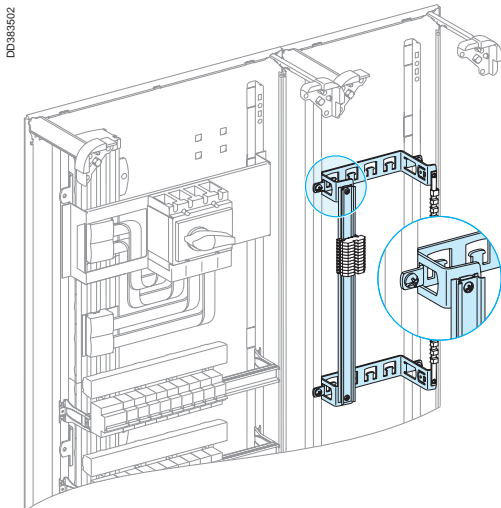
Terminal-block layout

In Prisma Plus wall-mounted and floor-standing enclosures, terminal blocks are installed:

- in a duct, which may be a dedicated zone, totally separate from the devices
- in the device compartment, at the top or bottom.



Installation in the 300 mm wide duct



A mounting plate, made up of two supports, is equipped with:

- a modular rail for the terminal blocks, that is 1600 mm long, can be cut to length and has 6.4 mm holes every 450 mm
- an earth bar.

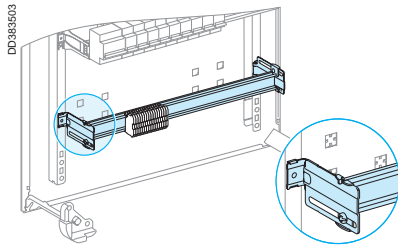
The supports have cut-outs that can be used to easily tie down the connection wires.

Cat. no. selection

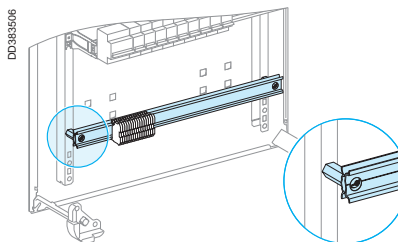
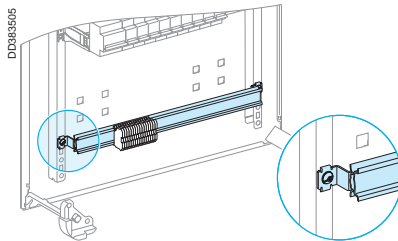
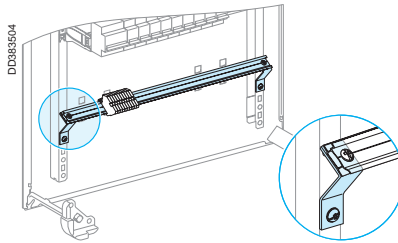
Designation	Cat. no.
Mounting brackets for terminal block and earth bar	04220
2 modular rails, L = 1600 mm	04226

Centralised distribution

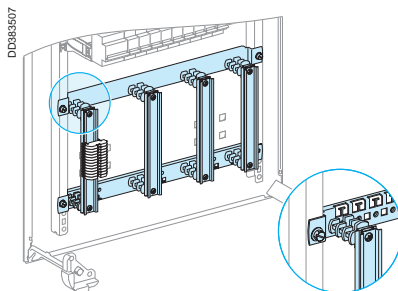
Top or bottom installation



Depth-adjustable modular device rail.



Installation on a dedicated mounting assembly



The terminal blocks are grouped on a modular rail:

- that is depth adjustable (03002)
- or mounted at the rear of the switchboard (03004). In this case, it can be raised on supports or spacers, or turned 45° on special supports.

Installation directly on the functional uprights

Designation	Cat. no.
Depth-adjustable modular rail, L = 432 mm	03002
Rear modular rail, L = 432 mm	03004

Space required in switchboard

Max. cable CSA	Width of terminal block	No. of vertical modules required	Corresponding plain front plate
4 mm ²	6 mm	3	03803
6 mm ²	8 mm	3	03803
10 mm ²	10 mm	5	03805
16 mm ²	12 mm	6	03806

Installation of the rail on 45° supports

Designation	Cat. no.
Two 45° supports for modular rail	03005

Installation of the rail on fixing brackets

Designation	Cat. no.
Two fixing brackets on functional uprights	
H = 15 mm	04206
H = 45 mm	04207
H = 80 mm	04208

Installation of the rail on hexagonal spacers

Designation	Cat. no.
Set of four M6 hexagonal spacers	
H = 9 mm	03195
H = 23 mm	03196
H = 55 mm	03197

This mounting assembly is used to easily install and connect a large number of terminal blocks in a minimum amount of space. It is particularly useful when a duct is not warranted or cannot be installed.

Presentation

Mounting brackets, fixed to the functional uprights at the top or bottom of the enclosure, is equipped with four 200 mm symmetrical rails. They are installed vertically to facilitate cable running.

To facilitate mixing of different size terminal blocks and ensure convenient connections from the front or the side, the distance between rails and the depth of each rail can be adjusted.

The assembly has cut-outs that can be used to easily tie down the connection wires. Earth bars, supplied separately, can be installed between the rows of terminal blocks to form different configurations, e.g.:

- four sets of terminal blocks
- 3 sets of terminal blocks + one or two earth bars (L = 290 mm)

The mounting assembly occupies a height of 250 mm, i.e. five 50 mm vertical modules.

Cat. no. selection

Designation	Cat. no.
Mounting plate with 4 vertical DIN rails for terminal blocks	04223

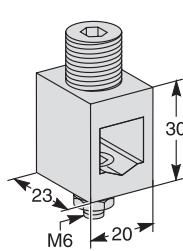
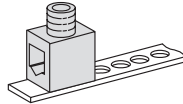
Connector



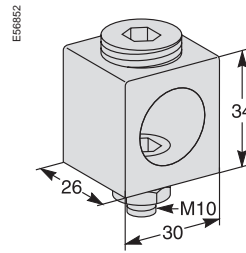
4 connectors for copper or aluminium cables.

Designation	Cat. no.
180 A for rigid cables 70 mm ²	07051 ⁽¹⁾
250 A for rigid cables 185 mm ²	07052 ⁽¹⁾
400 A for rigid cables 300 mm ²	07053 ⁽¹⁾

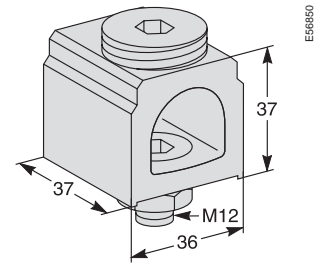
(1) These connectors are designed for use on rear busbars only.



07051



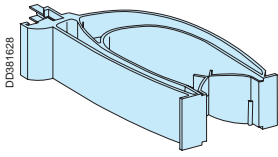
07052



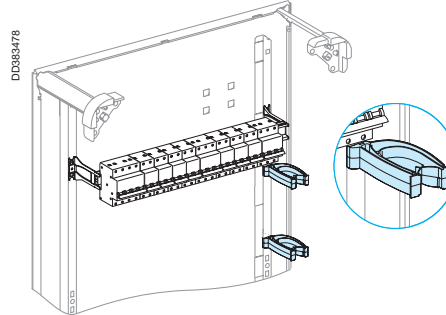
07053

Centralised distribution

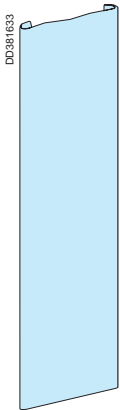
Vertical cable straps



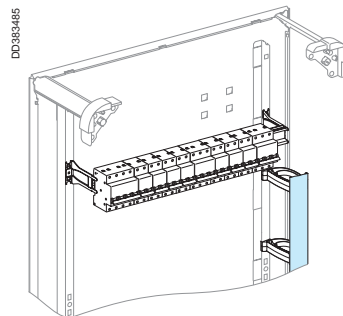
Designation	Cat. no.
12 cable straps for vertical cables	04264



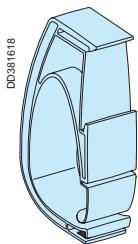
Cover for vertical cable straps



Designation	Cat. no.
2 covers for vertical cable straps L = 1 m	04263

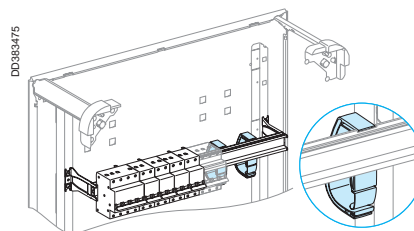


Horizontal cable straps

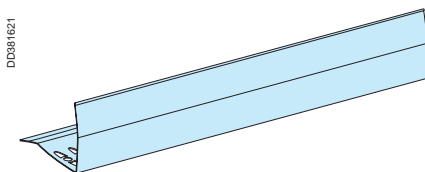


Designation	Cat. no.
12 cable straps for horizontal cables	04239

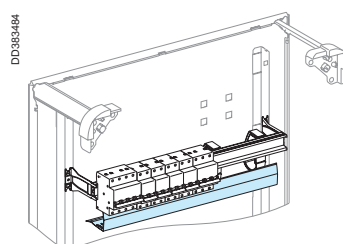
Horizontal cable straps have the same capacity as 60 x 30 mm trunking.



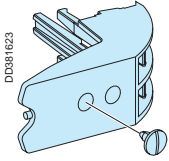
Cover for horizontal cable straps



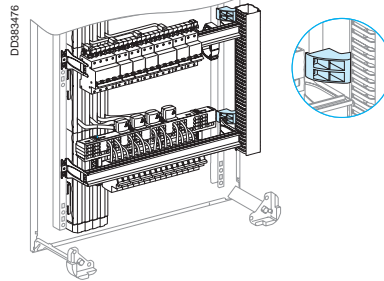
Designation	Cat. no.
4 covers for horizontal cable straps L = 430 mm	04243



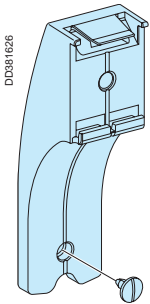
Vertical trunking support



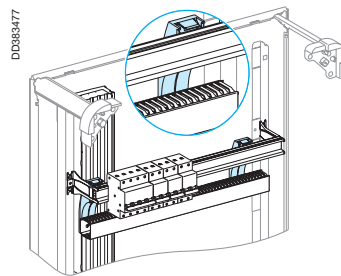
Designation	Cat. no.
12 vertical trunking supports	04265



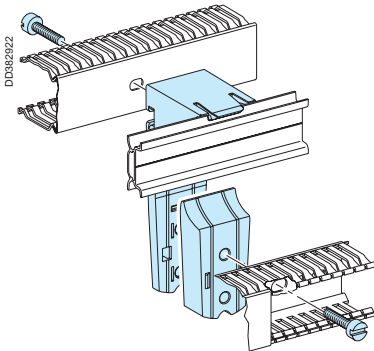
Horizontal trunking support



Designation	Cat. no.
12 horizontal trunking supports	04255

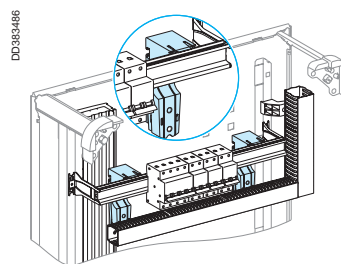


Trunking installed horizontally on the rear of a modular rail.



Aligns the cover of a horizontal trunking section (H = 60 or 80 mm) with that of a vertical trunking section (H = 80mm).

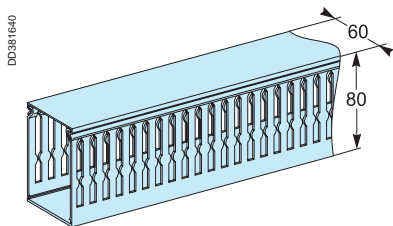
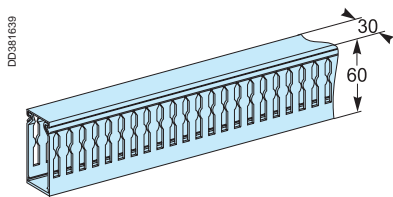
Designation	Cat. no.
10 adaptable support for horizontal trunking	04256



Note: not designed for use with Pack enclosures.

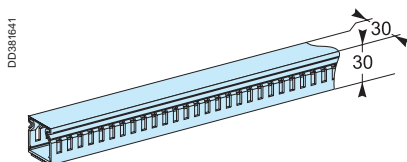
Centralised distribution

Trunking



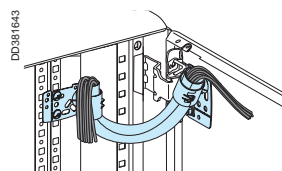
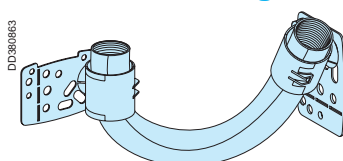
Designation	Cat. no.
4 horizontal sections, 60 x 30 mm, L = 450 mm (with supports)	04257
Vertical trunking, 80 x 60 mm, L = 2000 mm (sold in sets of 18)	04267

Cable trunking for doors



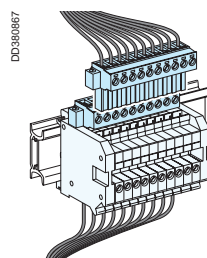
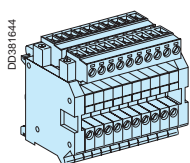
Designation	Cat. no.
Cable trunking for doors, L = 2000 mm (sold in sets of 30)	04233
.Adhesive trunking, 30 x 30 mm	

Flexible trunking



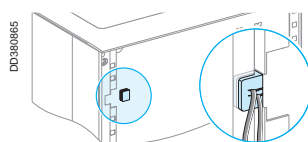
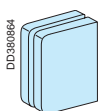
Designation	Cat. no.
Flexible trunking for wiring to door	04235
Length = 500 mm, inner diameter = 19mm.	

Terminal block for auxiliaries



Designation	Cat. no.
Disconnectable terminal block for auxiliaries	04228

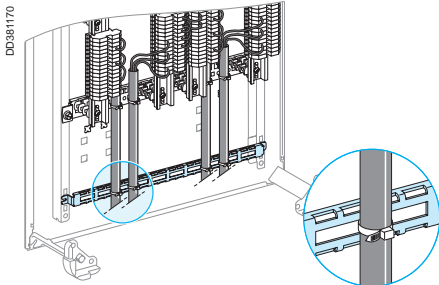
Grommets for wiring through front



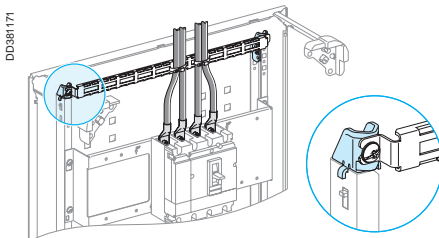
Designation	Cat. no.
10 grommets for wiring through front	04234

Centralised distribution

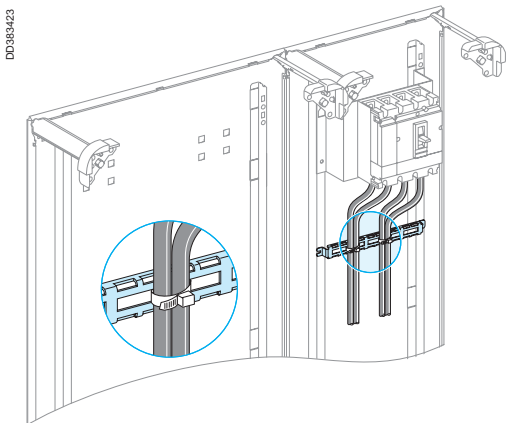
Cable-tie supports in IP30 to IP55 enclosures



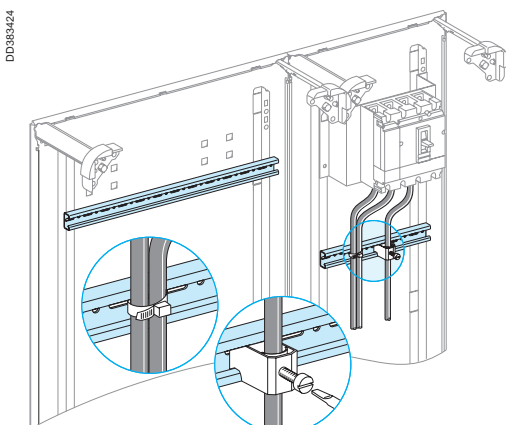
Cable tying in wall-mount or floor-standing enclosures



The adapter makes it possible to tie down the cables next to the gland plate and gain one module in height.



Cable tying in a duct.



Cable tying in wall-mount or floor-standing enclosures and ducts.

Cable-tie supports for wall-mount or floor-standing enclosures

Designation	Cat. no.
2 cable-tie supports for wall-mount or floor-standing enclosure	08867
Cable-tie support adapter	08866

Supplied with hardware for mounting on the functional uprights of the enclosure.

Cable-tie supports for the 300 mm wide duct

Designation	Cat. no.
4 cable-tie supports for 300 mm wide ducts	08868

Supplied with hardware for mounting on the functional uprights of the duct.

C-shaped cable-tie supports for wall-mount or floor-standing enclosures and ducts

Designation	Cat. no.
Cable-tie support, L = 1600 mm	08783

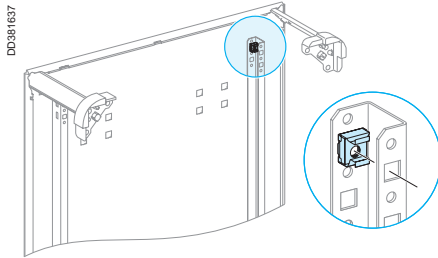
1600 mm support that can be cut to length as needed.

Supplied with hardware for mounting on the functional uprights of the enclosure or duct.

Cables secured by ties or cable clamps.

Centralised distribution

Captive nuts



The captive nuts clip onto the functional uprights of wall-mounted and floor-standing enclosures.

They can also be mounted on slotted mounting plates.

Designation

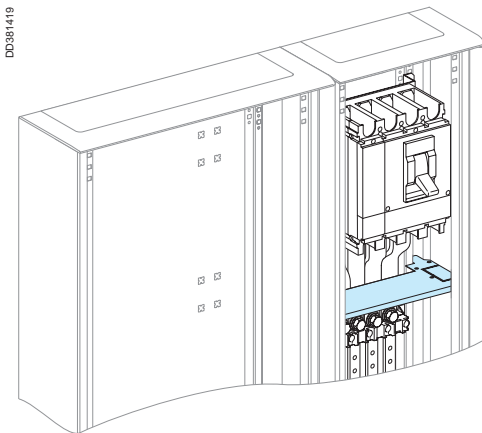
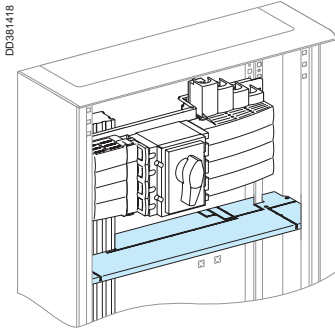
Set of 20 M6 captive nuts

Cat. no.

03194

Centralised distribution

Horizontal partitioning

**Presentation**

The partition is a metal barrier installed in a wall-mounted enclosure, a floor-standing enclosure or a 300 mm wide duct.

It is used to:

- separate the functional units from one another
- create a physical separation between devices and a terminal block, for example.

It is mounted directly on the functional uprights.

Lateral and rear knock-outs are available for cable running or the installation of busbars at the rear of the switchboard.

Cat. no. selection

Designation	Cat. no.
Horizontal partition	
for wall-mounted or floor-standing enclosure	04331
for a duct, W = 300 mm	04332

Centralised distribution

Presentation

The metal partition creates a physical separation between the device compartment and the 300 mm wide duct of a wall-mounted enclosure or a floor-standing enclosure.

It is used to:

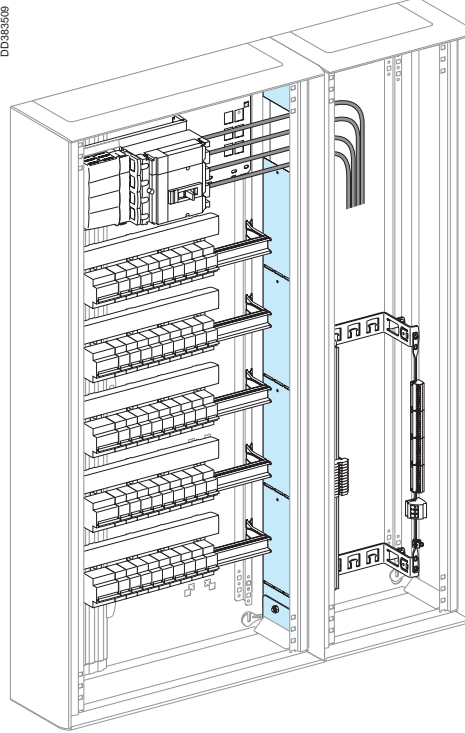
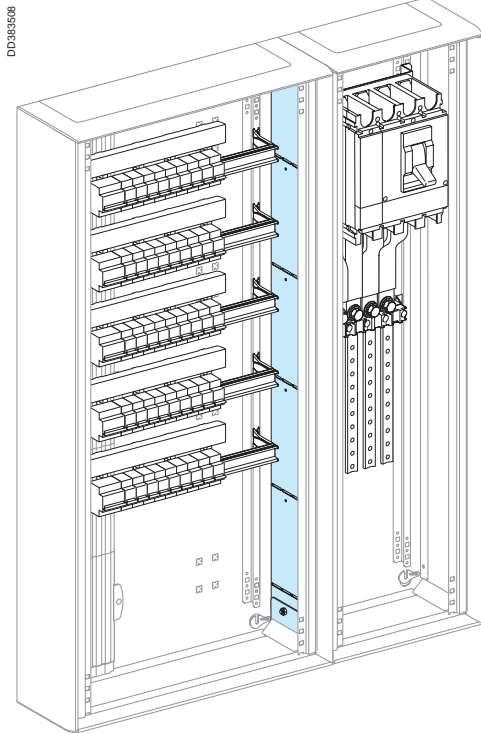
- separate the devices from busbars or a distribution block installed in the duct
- set up a special zone for terminal blocks in the duct.

IP30 vertical partitioning

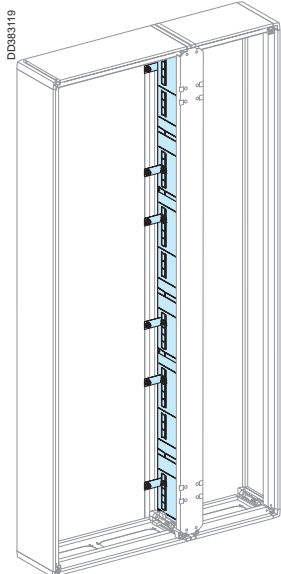
It can be cut to length every 150 mm and can be used for partitioning up to 33-module in wall mount enclosure and floor-standing enclosure (H = 1830 mm).

Cat. no. selection

Designation	Cat. no.
Vertical partition	04330



IP55 vertical partitioning



	No. of vertical modules	Height (mm)	Cat. no.
IP55 vertical partition			
For enclosures	7	450	08384
	11	650	
	15	850	08384 x 2
	19	1050	
	23	1250	08384 x 3
	27	1450	
	33	1750	



TOOLS

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The electrical installation guide

According to IEC 60364

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- all the components
- of an installation from a global point of view
- all the IEC standards modifications
- all the fundamental electrotechnical knowledge
- all the design stages, from medium to low voltage.



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Dimensions **D-40**

IP30/31/43 wall-mounted enclosures	D-40
IP30/31/43 floor-standing enclosures	D-42
IP55 enclosures	D-44

<i>Additional information</i>	E-1
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IP30/IP31/IP43 wall-mounted and floor-standing enclosures Presentation

Carefully designed in every detail, Prisma Plus wall-mounted and floor-standing enclosures are the solution for all common switchboard configurations up to 630 A:

- a sufficiently wide range with 8 wall-mounted enclosure heights from 330 to 1380 mm in 50 mm steps and 3 floor-standing enclosure heights from 1530 to 1830 mm, including a 150 mm plinth

- two widths:

- 595 mm for devices

- 305 mm for cables, terminal blocks, busbars or devices

- can be combined side-by-side (and one on top of another for wall-mounted enclosures)

- a standard degree of protection IP30 (with or without a door) that can be upgraded to IP43

- a structure designed to facilitate fast and total access at all times to the devices and all the connection points in the switchboard

- a discreet appearance that blends well in commercial settings, including entry halls or passageways

- colour RAL9001.

Prisma Plus wall-mounted enclosures comply with standard EN 50298.

PD390463



Combination of a wall-mounted enclosure with a 300 mm wide duct.

PD390476



Combination of a basic floor-standing enclosure with a 300 mm wide duct.

IP30/IP31/IP43 wall-mounted and floor-standing enclosures Presentation



*The entire front can be removed for fast, direct access to all the devices.
The front plates are equipped with clip-mount grips with a built-in quarter-turn fastening system for fast handling and installation.
The lead-sealing function is directly integrated in the grip mechanism.
A wide range of locks are available for the "push and pull" handle.*

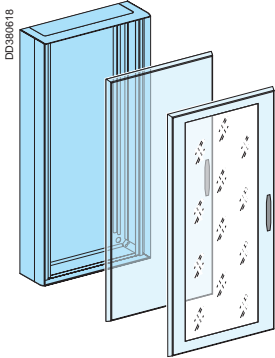


Discreet and user-friendly handle.

IP30/IP31/IP43 wall-mounted enclosures

Wall-mounted and floor standing enclosures

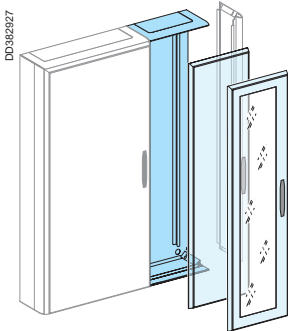
Wall-mounted enclosure (IP30)



No. of vertical modules	Height of enclosure	Enclosure	Plain door	Transparent door
Wall-mounted enclosure (IP30)				
6	330	08102	08122	08132
9	480	08103	08123	08133
12	630	08104	08124	08134
15	780	08105	08125	08135
18	930	08106	08126	08136
21	1080	08107	08127	08137
24	1230	08108	08128	08138
27	1380	08109	08222	08232

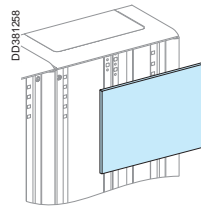
■ reversible doors (opening to left or right), equipped with a handle and keylock (key 405). For other possibilities, see page D-16.

Duct, W = 300 mm (IP30)



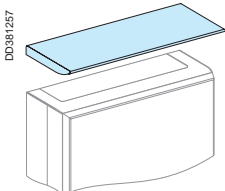
No. of vertical modules	Height of duct	Duct, W = 300 mm	Plain door	Transparent door
Duct (IP30)				
6	330	08172	08182	
9	480	08173	08183	
12	630	08174	08184	
15	780	08175	08185	
18	930	08176	08186	
21	1080	08177	08187	08197
24	1230	08178	08188	08198
27	1380	08179	08282	08292

■ the duct is supplied with a combination kit for the enclosure
 ■ reversible doors (opening to left or right), equipped with a handle and keylock (key 405). For other possibilities, see page D-16.



Duct front plate, see page B-52.

Canopy (IP31)



The addition of a canopy over the wall-mounted enclosure (and the duct) equipped with a door ensures compliance with the degree of protection IP31 (see page D-13).

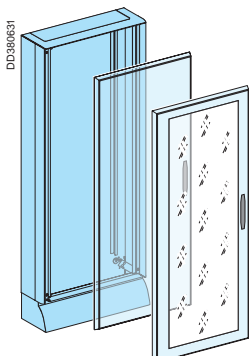
Gasket (IP43)

When the wall-mounted enclosure (and the duct) is equipped with a canopy, a gasket for the door of the wall-mounted enclosure (and the duct) ensures compliance with the degree of protection IP43 (see page D-13).

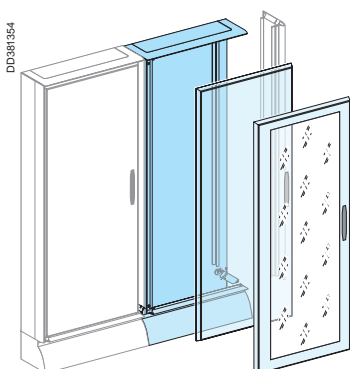
IP30/IP31/IP43 floor-standing enclosures

Wall-mounted and floor standing enclosures

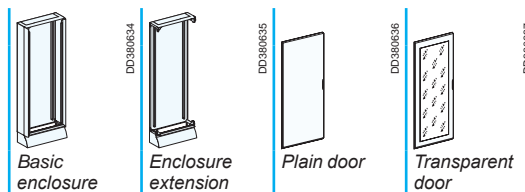
Floor-standing enclosure (IP30)



Basic floor-standing enclosure.



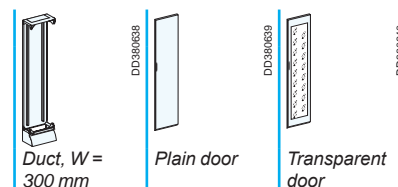
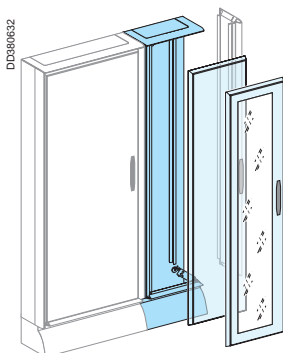
Floor-standing enclosure extension.



No. of vertical modules	Height of enclosure	Basic enclosure	Enclosure extension	Plain door	Transparent door
Floor-standing enclosure (IP30)					
27	1530	08202	08212	08222	08232
30	1680	08203	08213	08223	08233
33	1830	08204	08214	08224	08234

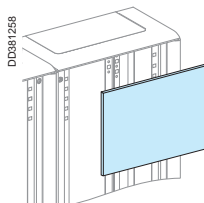
- two basic floor-standing enclosures cannot be combined
- to create a switchboard comprising a number of enclosures, use a basic floor-standing enclosure and one or more floor-standing enclosure extensions
- floor-standing enclosure extensions are supplied with a combination kit for the basic floor-standing enclosure.
- reversible doors (opening to left or right), equipped with a handle and keylock (key 405). For other possibilities, see page D-16.
- cables can be run on the sides of the plinth (diameter ≤ 140 mm).

Duct, W = 300 mm (IP30)



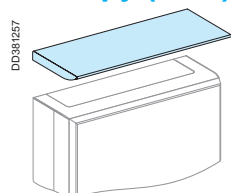
No. of vertical modules	Height of duct	Duct, W = 300 mm	Plain door	Transparent door
Duct, W = 300 mm (IP30)				
27	1530	08272	08282	08292
30	1680	08273	08283	08293
33	1830	08274	08284	08294

- the duct is supplied with a combination kit for the basic enclosure
- reversible doors (opening to left or right), equipped with a handle and keylock (key 405). For other possibilities, see page D-16.



Duct front plate, see page B-52.

Canopy (IP31)



The addition of a canopy over the floor-standing enclosure (and the duct) equipped with a door ensures compliance with the degree of protection IP31 (see page D-13).

Gasket (IP43)

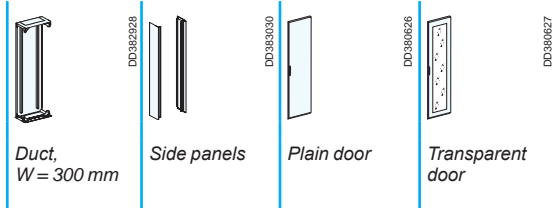
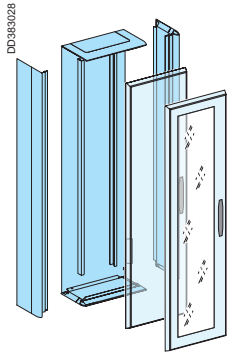
When the floor-standing enclosure (and the duct) is equipped with a canopy, a gasket for the door of the floor-standing enclosure (and the duct) ensures compliance with the degree of protection IP43 (see page D-13).

IP30 enclosures

300 mm wide

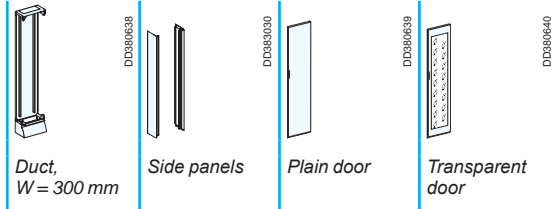
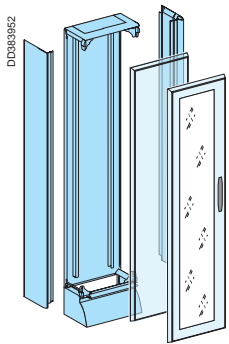
Wall-mounted and floor standing enclosures

Wall-mounted enclosures



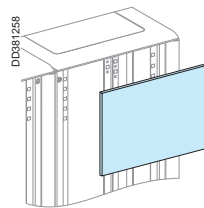
No. of vertical modules	Height (mm)	Duct, W = 300 mm	Side panels	Plain door	Transparent door
Duct, W = 300 mm (IP30)					
6	330	08172	2 x 01040	08182	
9	480	08173	2 x 01041	08183	
12	630	08174	2 x 01042	08184	
15	780	08175	2 x 01043	08185	
18	930	08176	2 X 01044	08186	
21	1080	08177	2 x 01045	08187	08197
24	1230	08178	2 x 01046	08188	08198
27	1380	08179	2 x 01035	08282	08292

Floor-standing enclosures



No. of vertical modules	Height (mm)	Duct, W = 300 mm	Side panels	Plain door	Transparent door
Duct, W = 300 mm (IP30)					
27	1530	08272	2 x 01035	08282	08292
30	1680	08273	2 x 01034	08283	08293
33	1830	08274	2 x 01033	08284	08294

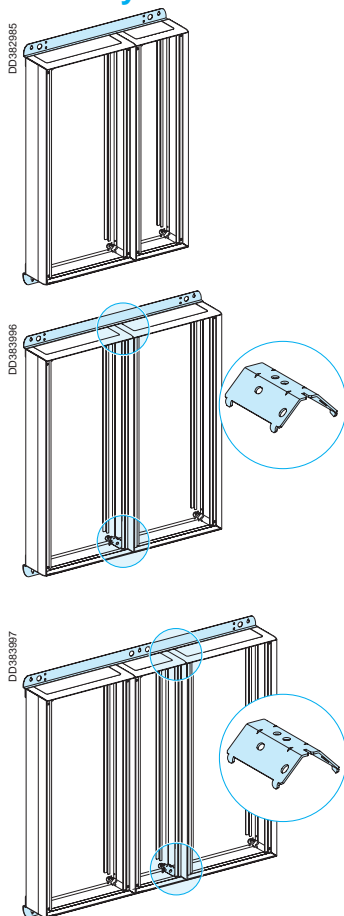
Reversible doors (opening to left or right), equipped with a handle and keylock (key 405).
For other possibilities, see page D-16.



Duct front plate, see page B-52.

Wall-mounted and floor standing enclosures

Side-by-side combination



Enclosure + 300 mm wide duct

The combination kit (two combination brackets) is supplied with the duct. To make the combination more rigid, particularly during transport, it is advised to use a set of cross-members secured to the rear of the switchboard.

Designation	Cat. no.
Set of two lifting/reinforcement cross-members for single wall-mounted enclosure and 300 mm wide duct	08812

To make the combination more rigid, particularly during transport, it is mandatory to use a set of cross-members secured to the rear of the switchboard.

Enclosure + enclosure

A combination kit (must be ordered) ensures the mechanical connection between the two wall-mounted enclosures.

Designation	Cat. no.
Combination kit	08816
Set of two lifting/reinforcement cross-members	08811

Enclosure + two 300 mm wide duct (whatever the ducts position)

The combination kit (two mechanical combination brackets) is supplied with the ducts.

Designation	Cat. no.
Set of two lifting/reinforcement cross-members	08811

Enclosure + 300 mm wide duct + enclosure (whatever the duct position)

A combination kit is supplied with the duct. Only one additional combination kit must be ordered for the mechanical connection between the two wall-mounted enclosures and the duct.

To make the combination more rigid, particularly during transport, it is mandatory to use a set of cross-members secured to the rear of the switchboard.

Designation	Cat. no.
Combination kit	08816
Set of two lifting/reinforcement cross-members for two wall-mounted or floor-standing enclosures and a duct	08813

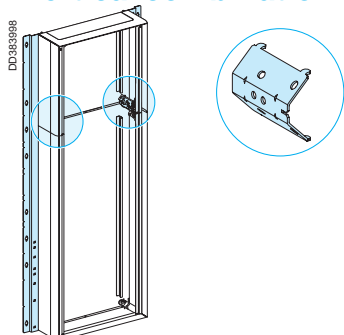
Duct + enclosure + duct + enclosure or duct + enclosure + enclosure + duct

Designation	Cat. no.
Combination kit	08816
Set of two lifting/reinforcement cross-members	08814

Duct + enclosure + duct + enclosure + duct

Designation	Cat. no.
Combination kit	08816
Set of two lifting/reinforcement cross-members	08826

Vertical combination



A combination kit (must be ordered) ensures the mechanical connection between the two wall-mounted enclosures.

To make the combination more rigid, particularly during transport, it is mandatory to use a set of combination uprights secured to the rear of the switchboard.

For more than 33 modules, a mechanical connection kit is used to join the 2 combination uprights.

Designation	Cat. no.
Combination kit	08816
Two combination uprights	08817

Square combination

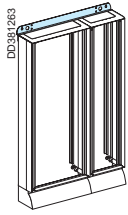
The square shape is created by combining three enclosures (extension or duct) with a basic enclosure.

Square combinations are only possible with enclosures that have the same number of vertical modules.

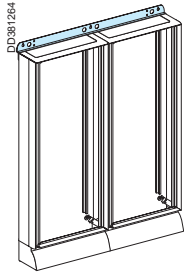
Designation	Cat. no.
Combination kit	08816
Two combination uprights	08817
Multiple combination kit	08818

Wall-mounted and floor standing enclosures

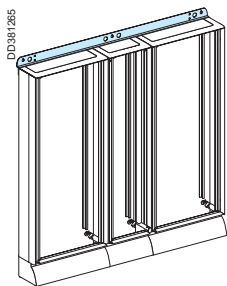
Side-by-side combination



Basic floor-standing enclosure + duct.



Basic floor-standing enclosure + extension.



Basic floor-standing enclosure + duct + extension.

Basic enclosure + 300 mm wide duct

The combination kit (two mechanical combination brackets) is supplied with the duct. To make the combination more rigid, particularly during transport, it is advised to use one cross-member secured to the rear of the switchboard.

Designation	Cat. no.
Set of two lifting/reinforcement cross-members for basic floor-standing enclosure and 300 mm wide duct	08812

Basic enclosure + enclosure extension or basic enclosure + two 300 mm wide duct (whatever the ducts position)

A combination kit for mechanical connection is supplied with the floor-standing enclosure extension and each duct. To make the combination more rigid, particularly during transport, it is mandatory to use one cross-member secured to the rear of the switchboard.

Designation	Cat. no.
Set of two lifting/reinforcement cross-members	08811

Basic enclosure + 300 mm wide duct + basic extension (whatever the duct position)

A combination kit for mechanical connection is supplied with the duct and the floor-standing enclosure extension.

To make the combination more rigid, particularly during transport, it is mandatory to use one cross-member secured to the rear of the switchboard.

Designation	Cat. no.
Set of two lifting/reinforcement cross-members for basic floor-standing enclosure, 300 mm wide duct and extension	08813

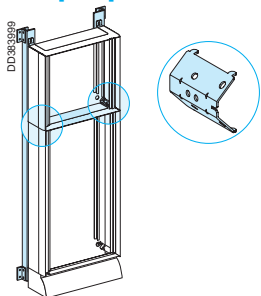
Duct + enclosure + duct + enclosure or duct + enclosure + enclosure + duct

Designation	Cat. no.
Set of two lifting/reinforcement cross-members	08814

Duct + enclosure + duct + enclosure + duct

Designation	Cat. no.
Set of two lifting/reinforcement cross-members	08826

Superposition

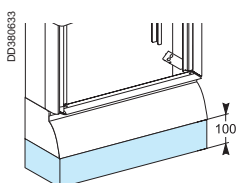


Basic enclosure + wall-mounted enclosures

A combination kit (ordered separately) can be added to the plain backplate to mechanically join the 2 enclosures. The uprights leave space behind the switchboard for cable running and to improve ventilation.

Designation	Cat. no.
Combination kit	08816
Mounting upright (L = 1950 mm)	08391
Plain plate for wall-mounted and floor-standing enclosure	08882

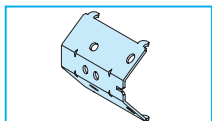
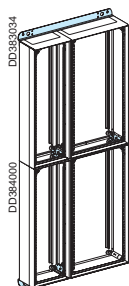
Plinth raiser



Designation	Cat. no.
Plinth raiser, H = 100 mm	
for basic floor-standing enclosure or extension	08805
for a duct, W = 300 mm	08807

IP30/IP31/IP43 wall-mounted enclosures combinations

Multiple combinations

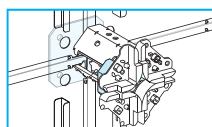
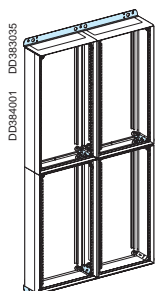


Combination kit

To make the combination more rigid, particularly during transport, it is mandatory to use a set of cross-members secured to the rear of the switchboard.

2 enclosures + 2 x 300 mm wide ducts

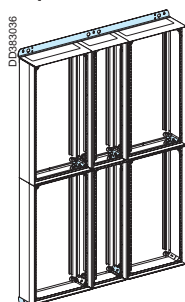
Designation	Cat. no.
Combination kit	08816
Multiple combination kit	08818
Set of two lifting/reinforcement cross-members for single wall-mounted enclosure and 300 mm wide duct	08812



Multiple combination kit

4 enclosures

Designation	Cat. no.
Combination kit	3 x 08816
Multiple combination kit	08818
Set of two lifting/reinforcement cross-members for two wall-mounted enclosures	08811



2 wall-mounted enclosures + 2 ducts + 2 wall-mounted enclosures

Designation	Cat. no.
Combination kit	3 x 08816
Multiple combination kit	2 x 08818
Set of two lifting/reinforcement cross-members for two wall-mounted enclosures and a duct	08813

Duct + enclosure + duct + enclosure or duct + enclosure + enclosure + duct

Designation	Cat. no.
Set of two lifting/reinforcement cross-members	08814

Duct + enclosure + duct + enclosure + duct

Designation	Cat. no.
Set of two lifting/reinforcement cross-members	08826

Additional wall-mounted enclosures and ducts

Any number of wall-mounted enclosures and ducts can be combined horizontally or vertically.

To make the combination more rigid, particularly during transport, it is mandatory to use a set of user-made cross-members secured to the rear of the switchboard.

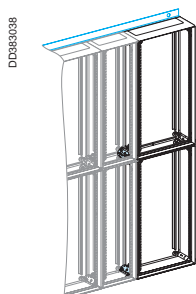
For each 300 mm wide extension duct

Designation	Cat. no.
Multiple combination kit	08818
Set of two lifting/reinforcement cross-members	must be made



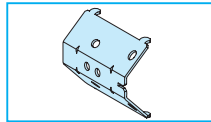
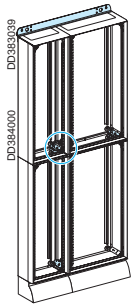
For each enclosure extension

Designation	Cat. no.
Combination kit	2 x 08816
Multiple combination kit	08818
Set of two lifting/reinforcement cross-members	must be made



IP30/IP31/IP43 floor-standing enclosures combinations

Multiple combinations

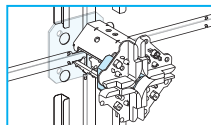
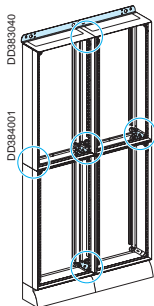


Combination kit

To make the combination more rigid, particularly during transport, it is mandatory to use one cross-member secured to the rear of the switchboard.

Basic enclosure and duct + wall-mounted enclosure and duct

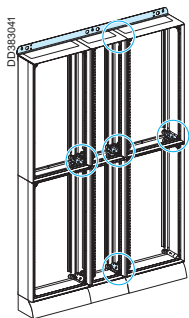
Designation	Cat. no.
Combination kit	08815
Multiple combination kit	08818
Set of two lifting/reinforcement cross-members for basic floor-standing enclosure and 300 mm wide duct	08812



Multiple combination kit

Basic enclosure, enclosure extension + 2 wall-mounted enclosures

Designation	Cat. no.
Combination kit	2 x 08815
Multiple combination kit	08818
Set of two lifting/reinforcement cross-members for two wall-mounted enclosures	08811



Basic enclosure, duct, enclosure extension + 2 wall-mounted enclosures and duct.

Designation	Cat. no.
Combination kit	2 x 08815
Multiple combination kit	2 x 08818
Set of two lifting/reinforcement cross-members for two wall-mounted enclosures and a duct	08813

Duct + enclosure + duct + enclosure or duct + enclosure + enclosure + duct

Designation	Cat. no.
Set of two lifting/reinforcement cross-members	08814

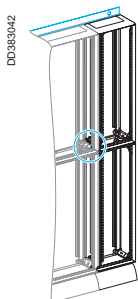
Duct + enclosure + duct + enclosure + duct

Designation	Cat. no.
Set of two lifting/reinforcement cross-members	08826

Additional floor-standing enclosures, ducts and wall-mounted enclosures

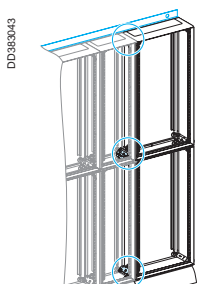
Any number of floor-standing enclosures, ducts and wall-mounted enclosures can be combined horizontally.

To make the combination more rigid, particularly during transport, it is mandatory to use one user-made cross-member secured to the rear of the switchboard.



For each 300 mm wide duct extension

Designation	Cat. no.
Multiple combination kit	08818
Set of two lifting/reinforcement cross-members	must be made

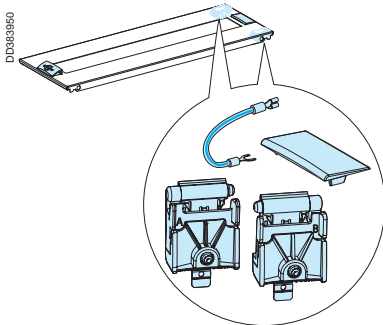


For each enclosure extension

Designation	Cat. no.
Combination kit	08815
Multiple combination kit	08818
Set of two lifting/reinforcement cross-members	must be made

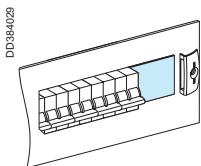
Wall-mounted and floor standing enclosures

Front plate accessories



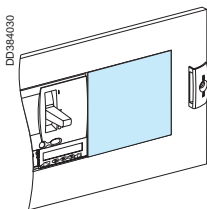
Designation	Cat. no.
Front plate hinge kit (set of 2 hinges)	08585

Blanking plates



For modular devices

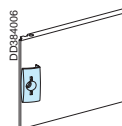
Designation	Cat. no.
Blanking strip, H = 46 mm, L = 1000 mm	03220
4 divisible blanking plates, H = 46 mm, L = 90 mm colour: white RAL 9001	03221



For Compact NSX100/250

Designation	Cat. no.
1 divisible blanking plates, H = 85 mm, L = 147 mm colour: white RAL 9001	03249

Front plate grips



Designation	Cat. no.
20 self adhesive front plate grips colour: white (RAL 9001)	01093

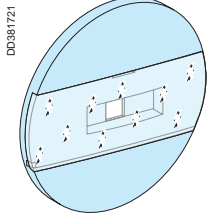
■ easily fitted using double-face adhesive tabs, to harmonise the front plates of your switchboards.

Adhesive labels for mimic diagrams

Designation	Black
10 lines, 900 mm long and 7 mm thick	01005
10 outgoing arrows	01006
10 incoming arrows	01007
10 transformers	01008
10 earth symbols	01009

Wall-mounted and floor standing enclosures

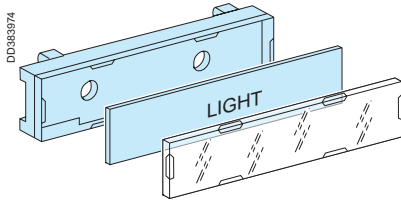
Switchboard identification plate



DD381721

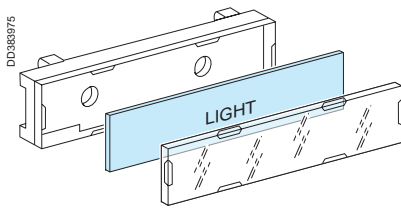
Designation	Cat. no.
Switchboard identification plate	08900

Identification labels



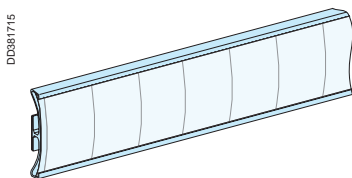
DD383974

Clip-on label.

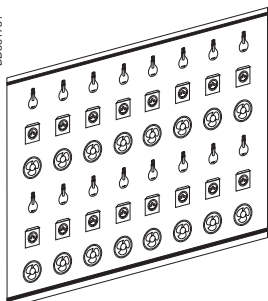


DD383975

Engraving plate.

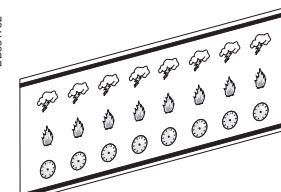


DD381715



DD381751

Standard symbols.



DD381752

Special symbols.

Clip-on labels

Clip-on labels

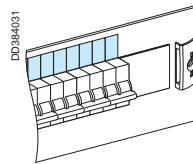
The clip-on support is supplied with a paper label and a transparent cover. It clips onto the front plate horizontally or vertically and can be screwed to any support (plain door, plain front plate, etc.).

Engraving plates

Supplied separately, these plates simply replace the paper labels.

Cat. no. selection

Designation		Cat. no.
12 clip-on labels	18 x 35	08913
	18 x 72	08915
	25 x 85	08917
12 engraving plates	18 x 35	08914
	18 x 72	08916
	25 x 85	08918



DD384031

Adhesive labels

The adhesive label holders are supplied with a paper label and a transparent cover.

Designation		Cat. no.
12 label holders, W = 180 mm	H = 24 mm	08905
	H = 36 mm	08906
12 label holders, W = 432 mm	H = 24 mm	08903
	H = 36 mm	08904

Symbol sheets

Each sheet comprises adhesive symbols that can be positioned on the identification labels to immediately identify the type of circuit.

Standard symbols:

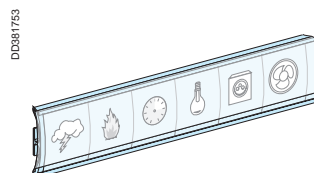
- loads: sockets, lights, heating units, etc.
- rooms: bedroom, bathroom, etc.

Special symbols:

- loads: lightning arrestor, gate, swimming pool, etc.
- rooms: technical room, computer room, etc.

Cat. no. selection

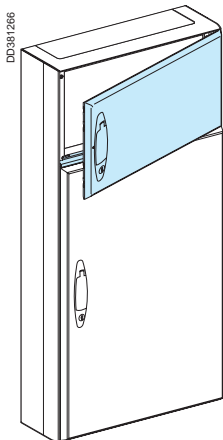
Designation		Cat. no.
Set of ten symbol sheets	standard	13735
	special	13736



DD381753

Symbols on an adhesive label holder.

Partial door



24-module wall-mounted enclosure with a 6-module partial plain door and an 18-module plain door.

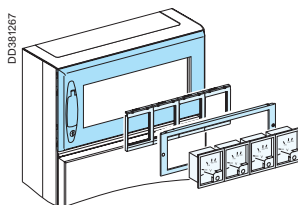
- plain door or with cut-outs (for the interface with 72 x 72 or 96 x 96 mm measurement devices,)
- height: 6 modules
- installation:
 - on a wall-mounted enclosure at least 12 modules high ($H \geq 630$ mm)
 - on a basic floor-standing enclosure or extension
- reversible (opening to left or right), equipped with a handle and keylock (key 405). For other possibilities, see page D-16.

Note: each wall-mounted enclosure and basic floor-standing enclosure or extension can be equipped with only one partial door. The front must be completed with another door.

The useful height behind a partial door is five modules.

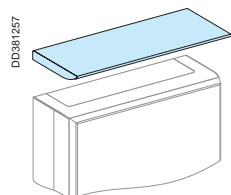
Cat. no. selection

Designation	Cat. no.
Partial plain door	08850
Partial door with cut-outs for 72 x 72 or 96 x 96 mm devices	08851



Measurement devices on a partial door with cut-outs.

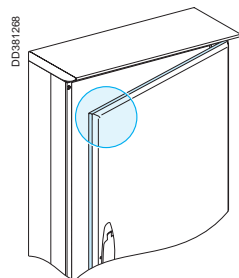
Canopy (IP31)



The addition of a canopy over a wall-mounted or floor-standing enclosure equipped with a door ensures compliance with the degree of protection IP31.

Designation	Cat. no.
Canopy for wall-mounted or floor-standing enclosure alone	08830
for wall-mounted encl. + duct or floor-standing encl. + duct	08832
for 2 wall-mounted or 2 floor-standing enclosures	08831
for 2 wall-mounted encl. + duct or 2 floor-standing encl. + duct (duct position not important)	08833
for duct + wall-mounted or floor-standing enclosure + duct	08827

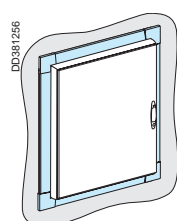
Gasket (IP43)



When the switchboard is equipped with a canopy, a gasket for the doors ensures compliance with the degree of protection IP43. For combinations, order one gasket per door.

Designation	Cat. no.
Gasket for one wall-mounted encl./one floor-standing encl./one duct	
6 to 21 modules (L = 3300 mm)	08840
24 to 33 modules (L = 5300 mm)	08841

Flush-mount kit

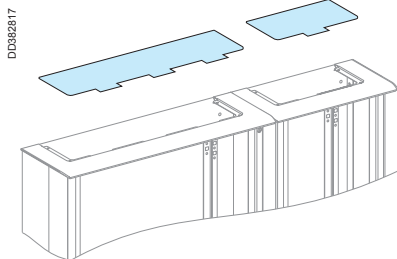


For wall-mounted enclosure and wall-mounted enclosure + duct

Designation	Cat. no.
Flush-mount kit for wall-mounted enclosures, 6 to 18 modules	08819
Flush-mount kit for wall-mounted enclosures, 21 to 27 modules	08820

Wall-mounted and floor standing enclosures

Gland plates



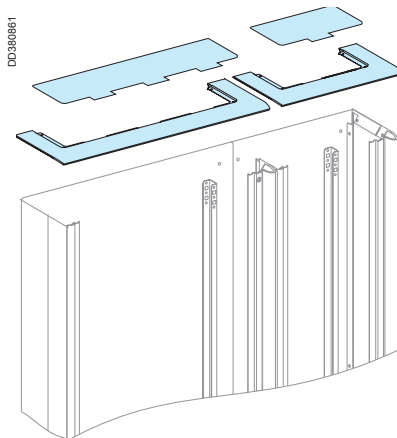
Metal gland plates

Enclosures (wall-mounted, floor-standing, 300 mm wide ducts) are supplied with a plastic gland plate installed on the top or bottom panel.

To cover all connection needs, the plastic gland plate can be replaced by a plain metal gland plate supplied separately.

Designation	Cat. no.
Plain metal gland plate	
for wall-mounted and basic floor-standing enclosure or extension	08870
for a duct, W = 300 mm	08874
Gland plate for floor-standing enclosure plinth	08887
Gland plate for duct plinth	08888

Top or bottom plate with plastic gland plate



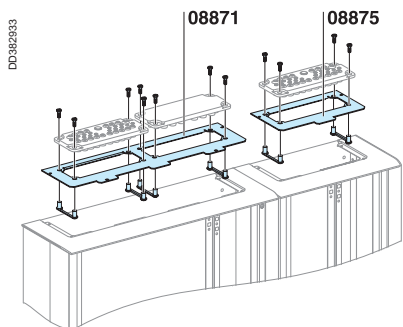
■ top or bottom plate with cut-outs and a plastic gland plate

■ can be installed:

- at the top or bottom of a wall-mounted enclosure (or duct)
- at the top of a floor-standing enclosure (or duct).

Designation	Cat. no.
Plate with cut-outs + plastic gland plate	
for wall-mounted or floor-standing enclosure	08880
for a duct, W = 300 mm	08884

Wall-mounted and floor standing enclosures

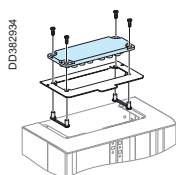


Metal plate with cut-outs

Enclosures (wall-mounted, floor-standing, 300 mm wide ducts) are supplied with a plastic gland plate installed on the top or bottom panel. This gland plate can be replaced by an interface plate with cut-outs for special cable entry systems made of an insulating material (plain, with knockouts or membrane-type).

Designation	Cat. no.
Metal plate with cut-outs	
for wall-mounted and basic floor-standing enclosure or	08871
for a duct, W = 300 mm	08875

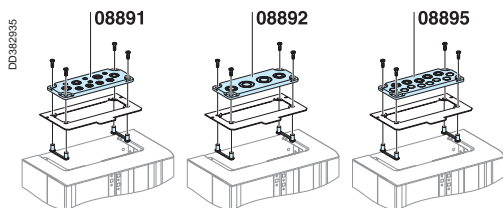
Gland plates



The gland plates are easy to install using the mounting kit (supplied with each gland plate) that positions and holds the nuts during installation. This makes it possible to mount the gland plates using a single tool.

Plain gland plate

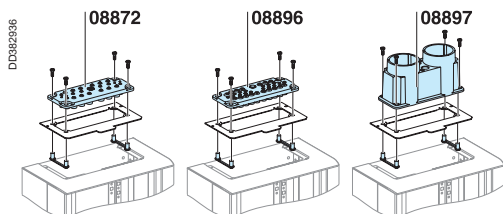
Designation	Cat. no.
Plain gland plates	08881



Gland plates with knockouts

Designed for metric cable glands.

Designation	Cat. no.
Gland plates with knockouts	
4 x M12 + 4 x M12 or M20 + 4 x M16 or M25	08891
2 x M20 or M32 + 2 x M25 or M40	08892
5 x M16 or M25 + 8 x M20	08895



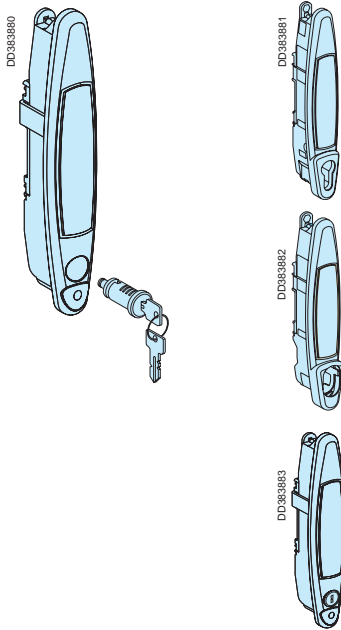
Membrane-type gland plates

Gland plates with membranes for perforation according to required diameter.

Number of entries	Number of entries per diameter	Cable diameters between		Cat. no.
		Min.	Max.	
25	4	5	7	08872
	4	8	12	
	12	10	14	
	4	14	20	
	1	20	26	
35	2	5	7	08896
	6	6	10	
	8	7	12	
	16	10	14	
	2	12	18	
2	1	17	32	08897
	2	28	60	

Wall-mounted and floor standing enclosures

Handles (except System G IP55)

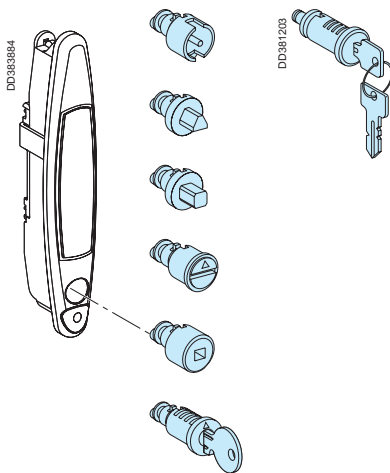


Designation	Cat. no.
EURO handle without barrel	08932

Designation	Cat. no.
ASSA/ABLOY handle without barrel	08933

Designation	Cat. no.
Ral 7016 standard handle	08931
Can be equipped with all the barrel locks and inserts presented below.	

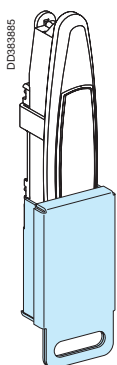
Barrel locks, inserts



The barrel locks and inserts below can be mounted on handle 08930 and on all the door handles of the Prisma Plus range (except System G IP55) after removing the standard barrel lock (key no. 405).

Designation	Cat. no.
Barrel locks	
Barrel lock +1 keys no. 405	08940
Barrel lock + 2 keys no. 455	08941
Barrel lock + 2 keys no. 1242E	08942
Barrel lock + 2 keys no. 3113A	08943
Barrel lock + 2 keys no. 2433A	08944
Barrel lock + 2 keys no.2432E	08956
Inserts	
DIN double bar insert	08945
Screwdriver slot insert	08946
6 5 mm male triangle insert	08947
7 mm male triangle insert	08948
8 mm male triangle insert	08949
9 mm male triangle insert	08950
6 mm male square insert	08951
7 mm male square insert	08952
8 mm male square insert	08953
6 mm female square insert	08955

Padlocking

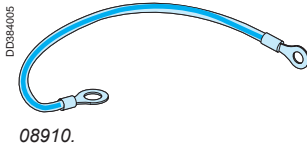


Designation	Cat. no.
Handle padlocking kit	08938

The kit can be installed on the door handles of the Prisma Plus range (except System G IP55) equipped with any of the barrel locks and inserts above.

Wall-mounted and floor standing enclosures

Earthing braid

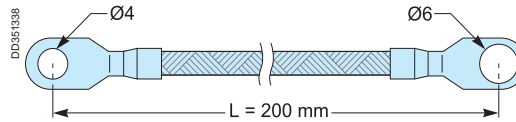
**Designation**Earthing braid, 6 mm²**Cat. no.**

08910

The braid is equipped with a 4 mm diameter lug at one end and a 6 mm diameter lug on the other.

It is used to earth:

- a door or wicket door with devices
- a front-plate support frame equipped with switchgear in a cubicle.

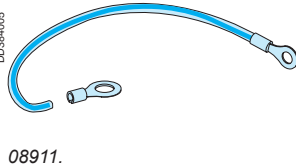
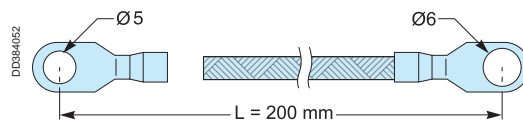
**Designation**Earthing wire, 6 mm²**Cat. no.**

08911

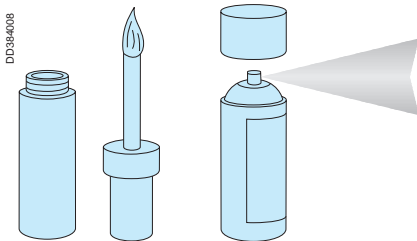
The wire is equipped with a 5 mm diameter lug at one end and a 6 mm diameter lug on the other.

The earthing wire is used to earth:

- a door or wicket door with devices
- a front-plate support frame equipped with switchgear in a cubicle.



Touch-up accessories

**Designation**

Touch-up spray paint, colour RAL 9001

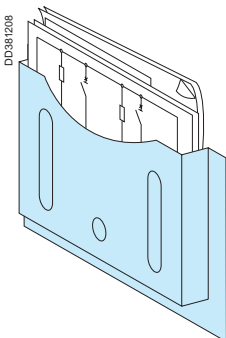
Cat. no.

08962

Touch-up paint brush, colour RAL 9001

08961

Drawing holder

**Designation**

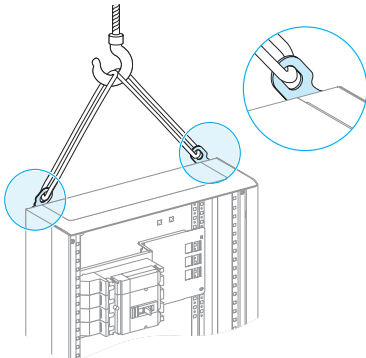
Adhesive drawing holder, colour RAL 9001

Cat. no.

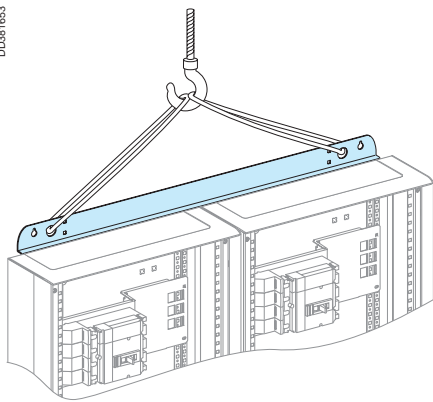
08963

Wall-mounted and floor standing enclosures

Lifting accessories



DD381653



Lifting rings

The lifting rings are used to move a single wall-mounted or floor-standing enclosure. For combined enclosures, use the lifting/reinforcement cross-members (see below).

Designation	Cat. no.
Set of two lifting rings for single wall-mounted or floor-standing enclosures	08801

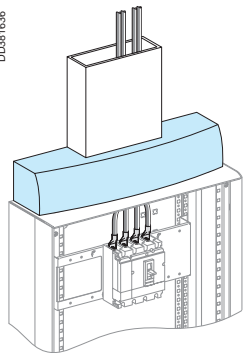
Lifting/reinforcement cross-members

The lifting cross-members, already installed to reinforce combined enclosures, have holes for lifting. Whatever the ducts position.

Designation	Cat. no.
Set of two lifting/reinforcement cross-members for two wall-mounted or two floor-standing enclosures for a wall-mounted or floor-standing enclosure + two 300 mm wide ducts	08811
for a wall-mounted or floor-standing enclosure + 300 mm wide duct	08812
for two wall-mounted or floor-standing enclosures + 300 mm wide duct	08813
for duct+ enclosure + duct + enclosure or duct + enclosure + enclosure + duct	08814
for duct+ enclosure + duct + enclosure + duct	08826

Trunking spreader

DD381636



For a professional-looking connection between the trunking and the enclosure. Can be installed at the top or bottom.

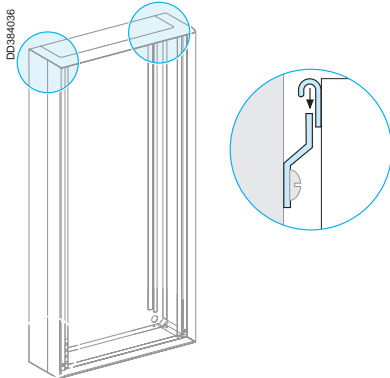
The spreader is marked for cut-outs for standard trunking sizes. The maximum capacity is two 250 x 80 mm trunking sections.

Designation	Cat. no.
Trunking spreader	08824

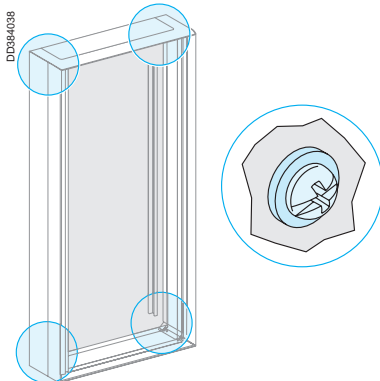


Wall-mounted and floor standing enclosures

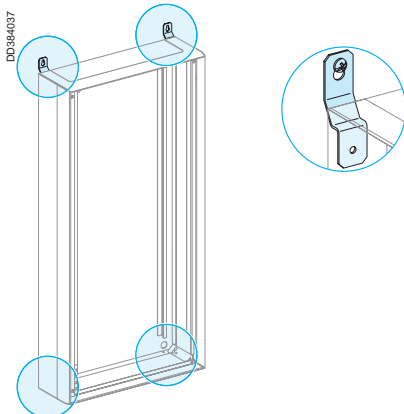
Wall mounted



Mounting through the rear.



Mounting via the inside.



Mounting using the external wall-mounted brackets (08804).

Switchboards can be mounted on a wall in three manners:

- on a support rail: the enclosure comes with 2 cross-members secured to the back of the enclosure (top and bottom) and a support rail (with levelling adjustment) for screw-mounting on the wall. The enclosure is easily mounted on the support rail
- via the inside of the enclosure: the enclosure can be mounted through the spacers in the 4 holes provided on the enclosure using 8 mm diameter screws (2 knockouts can be removed if necessary to provide 2 other holes)
- using external wall-mounted brackets.

Combined enclosures can be mounted using the lifting/reinforcement cross-members, set of two lifting/reinforcement cross-members, see previous page.

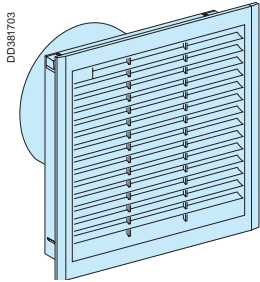
Designation	Cat. no.
Four external wall-mounted brackets	08804

Wall-mounted and floor standing enclosures

Presentation

In most cases and notably for IP30 switchboards, convection takes place naturally and does not require fans.
 However, when the switchboard is installed in temperate environments or when the degree of protection is high (IP55), ventilation accessories are indispensable. For more in-depth information on selecting air-conditioning accessories and the thermal management of switchboards, see page E-21.

Front or side fan



The switchboard is cooled by drawing in cool external air.

Presentation

The set comprises the fan with a grill and a filter.
 It can be clipped directly on the cut-out front plate.

Installation

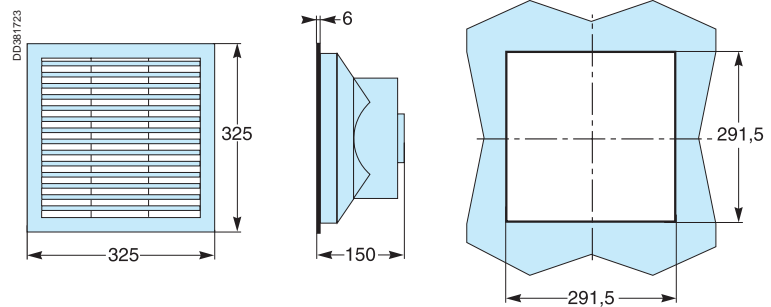
These fans are generally installed at the bottom of floor-standing enclosures:

- by cutting out a side panel
- or on the front, using the front plate with cut-out for a fan.

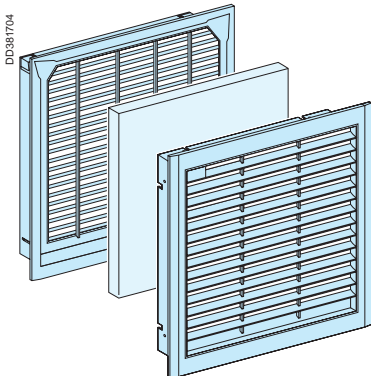
Designation	Cat. no.
Fan	08987
Front plate with cut-out for fan or filter (7 modules)	03890

Characteristics

- Power rating: 70 W.
- Input voltage: 230 V.
- Noise level: 69 dB.
- Degree of protection: IP54.
- Weight: 3 kg.
- Unimpeded throughput: 460 m³/h.
- Throughput with counterpressure (grill + standard filter, cat. no. 08988): 350 m³/h.



Filter for front or side fan



Presentation

The grill is supplied with a standard filter that can be replaced or exchanged for a finer filter.
 The grill can be clipped directly on the cut-out front plate.

Installation

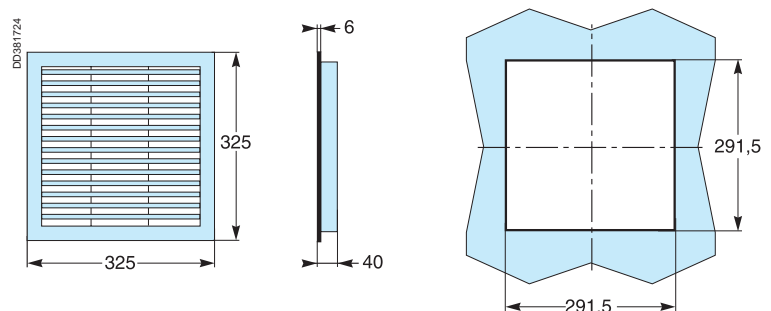
The grill/filter can be installed:

- by cutting out a side panel
- or on the front, using the front plate with cut-out for a fan.

Characteristics

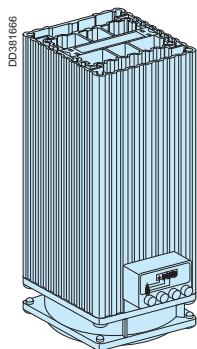
Degree of protection: IP54.

Designation	Cat. no.
Grill with filter (supplied with standard filter, maximum throughput = 350 m ³ /h)	08988
5 standard filters (replacement)	08989
5 fine filters	08990
Front plate with cut-out for fan or filter (7 modules)	03890



Wall-mounted and floor standing enclosures

Heating elements



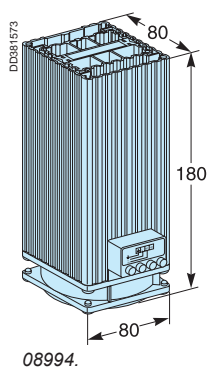
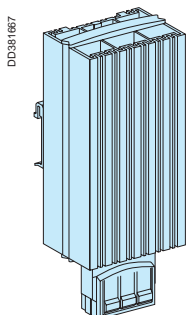
Designation	H	W	D (mm)	Cat. no.
55 W heating resistor	184	70	60	08992
90 W heating resistor	184	70	60	08993
250 W heating resistor	180	80	80	08994

The resistors can be mounted horizontally or vertically. They prevent condensation, corrosion and superficial leakage currents.

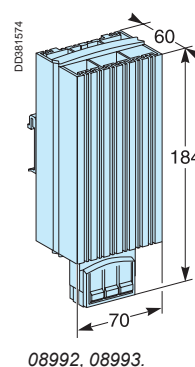
They maintain a positive temperature in the enclosures and cubicles when external temperatures drop very low.

Characteristics

- aluminium case with fins
- turns off at 60 °C, turns on at 25-30 °C (temperature of the resistor itself)
- equipped with a symmetrical rail for rapid mounting (clips on)
- input voltage: 230 V.

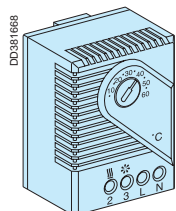


08994.



08992, 08993.

Thermostat



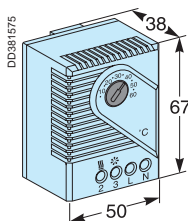
Designation	Cat. no.
Thermostat	08998

Used to control the temperature inside electrical switchboards in conjunction with heating resistors and fans.

Setting range: +5 °C to +60 °C.

Input voltage: 230 V.

Fixing: clips onto a modular rail.



Wall-mounted enclosures

Prisma Plus IP55 enclosures are designed for indoor switchboards in severe environments such as industrial and agricultural buildings, basements, kitchens, etc. All System G components can be used to form switchboards that:

- the front plates are equipped with clip-mount grips with a built-in quarter-turn fastening system for fast handling and installation
- the lead-sealing function is directly integrated in the grip mechanism
- les plastrons peuvent être rendus pivotant grâce à un kit de pivotement plastron.
- have heavy-duty IP55 / IK10 characteristics
- can be dismantled and combined to facilitate installation, on-site connections and later modifications
- offer functional installation of control and indication devices (lights, pushbuttons, etc.) on the front of the switchboard, on a plain or partial door
- offer functional installation of Schneider industrial sockets
- can be installed anywhere in a building (on a wall, on a pole, on free-standing structures, etc.).



Installation on a wall structure.

IP55 enclosures Presentation

Wall-mounted enclosures

PD380537



Sockets on a partial door.

PD380538



Sockets on the side.

PD380539



Lights and pushbuttons on a partial door.

PD380540



Extended rotary handle on a door.

PD380489



Gland plates on an enclosure and a duct.

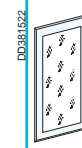
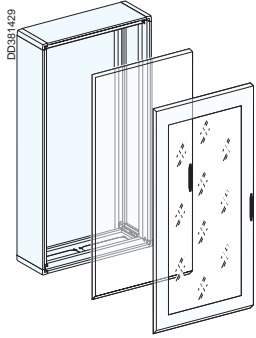
PD380501



Gland plates on an enclosure.

Wall-mounted enclosures

Enclosure

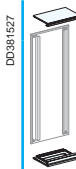
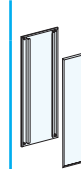
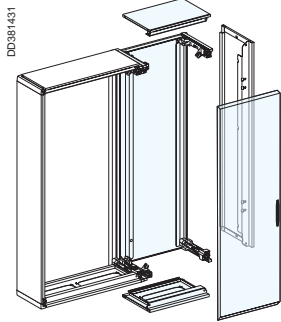


No. of vertical modules	Height (mm)	Enclosure	Plain door	Transparent door
-------------------------	-------------	-----------	------------	------------------

Basic enclosure				
7	450	08302	08322	08332
11	650	08303	08323	08333
15	850	08304	08324	08334
19	1050	08305	08325	08335
23	1250	08306	08326	08336
27	1450	08307	08327	08337
33	1750	08309	08329	08339

■ reversible doors (opening to left or right), equipped with a handle and keylock (key 405). For other possibilities, see page D-33.

Duct, W = 300 mm

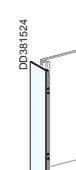
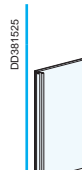
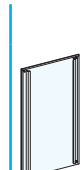
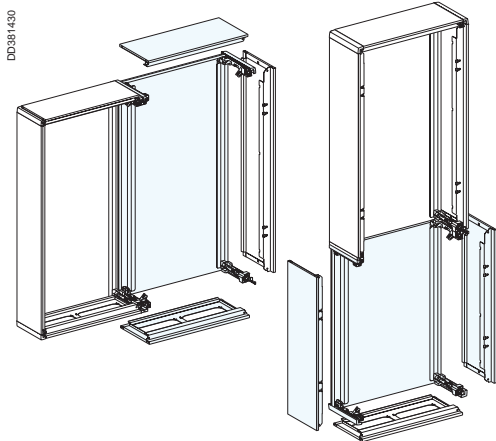


No. of vertical modules	Height (mm)	Rear + door, W = 300 mm	Top and bottom plates
-------------------------	-------------	-------------------------	-----------------------

Duct, W = 300 mm			
7	450	08342	08372
11	650	08343	08372
15	850	08344	08372
19	1050	08345	08372
23	1250	08346	08372
27	1450	08347	08372
33	1750	08349	08372

■ reversible doors (opening to left or right), equipped with a handle and keylock (key 405). For other possibilities, see page D-33.

Enclosure extension



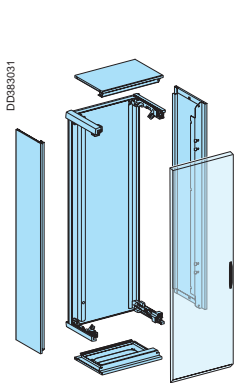
No. of vertical modules	Height (mm)	Side-by-side combination Rear	+ Top and bottom plates	Vertical combination Rear	+ Side panels
-------------------------	-------------	-------------------------------	-------------------------	---------------------------	---------------

Enclosure extension					
7	450	08312	08371	08312	08352
11	650	08313	08371	08313	08353
15	850	08314	08371	08314	08354
19	1050	08315	08371	08315	08355
23	1250	08316	08371	08316	08356
27	1450	08317	08371	08317	08357
33	1750	08319	08371	08319	08359

■ the enclosure extension uses the same doors as the basic enclosure.

IP55 wall-mounted enclosures 300 mm wide

Wall-mounted enclosures



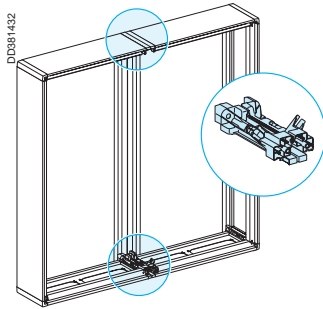
No. of vertical modules	Height (mm)	Rear + door, W = 300 mm	Top and bottom plates	Side panels	2 struts
Duct, W = 300 mm					
7	450	08342	08372	08352	2 x 01025
11	650	08343	08372	08353	2 x 01025
15	850	08344	08372	08354	2 x 01025
19	1050	08345	08372	08355	2 x 01025
23	1250	08346	08372	08356	2 x 01025
27	1450	08347	08372	08357	2 x 01025
33	1750	08349	08372	08359	2 x 01025

■ reversible doors (opening to left or right), equipped with a handle and keylock (key 405).

For other possibilities, see page D-33.

Wall-mounted enclosures

Combination kits



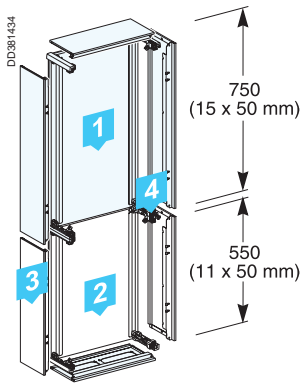
IP55 enclosures can be combined side-by-side and vertically. To make a combination, start with a basic enclosure and add a duct or one (or more) enclosure extensions using the corresponding combination kits.

Cat. no. selection

Designation	Cat. no.
Combination kit	
horizontal/vertical (two double struts)	08381
"L" shape (one triple strut and one single strut)	08382
square shape (one quadruple strut)	08383

Note: for combinations of more than two enclosures, the switchboard must be reinforced using mounting uprights (08391), see page D-35.

Examples of combinations



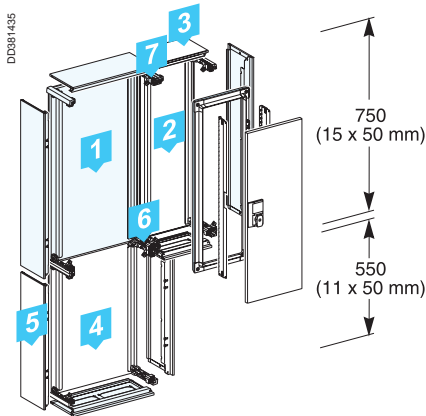
Vertical combination

A basic enclosure is positioned above an enclosure extension, whatever its height. Use the horizontal/vertical combination kit with two double struts.

Catalogue numbers for the configuration opposite

Item	Designation	Cat. no.
1	1 basic enclosure	08304
2	1 rear plate for enclosure extension	08313
3	1 set of two side panels	08353
4	1 horizontal/vertical combination kit	08381

See previous page for plain and transparent doors for basic enclosures and extensions.



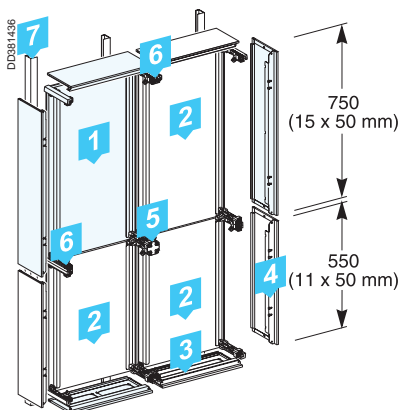
"L" combination

The "L" shape is created by combining two enclosures (extension or duct) with a basic enclosure.

Catalogue numbers for the configuration opposite

Item	Designation	Cat. no.
1	1 basic enclosure	08304
2	1 rear + door for duct, W = 300 mm	08344
3	1 set of two top and bottom plates for duct	08372
4	1 rear plate for enclosure extension	08313
5	1 set of two side panels	08353
6	1 "L" combination kit	08382
7	1 horizontal/vertical combination kit	08381

See previous page for plain and transparent doors for basic enclosures and extensions.



Square combination

The square shape is created by combining three enclosures (extension or duct) with a basic enclosure.

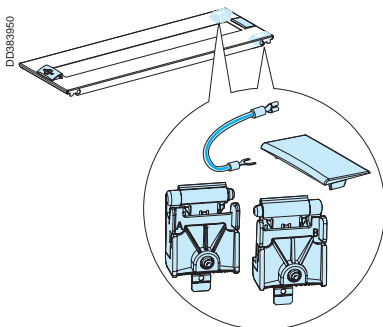
Catalogue numbers for the configuration opposite

Item	Designation	Cat. no.
1	1 basic enclosure	08303
2	3 rear plates for enclosure extensions	08313
3	1 set of two top and bottom plates for enclosure extensions	08371
4	1 set of two side panels	08353
5	1 square combination kit	08383
6	2 horizontal/vertical combination kits	2 x 08381
7	3 mounting uprights L = 1950 mm (to reinforce the switchboard)	3 x 08391

See previous page for plain and transparent doors for basic enclosures and extensions.

Wall-mounted enclosures

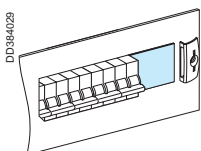
Front plate accessories



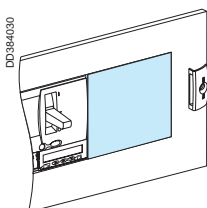
Designation	Cat. no.
Front plate hinge kit (set of 2 hinges)	08585 ⁽¹⁾

(1) In case of mounting a front plate with hinges at the top or bottom of a IP55 enclosure, it is recommended to insert at the top or bottom a fixed front plate 1M (03801) before positioning the front plate with hinges.

Blanking plates

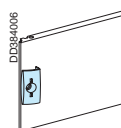


For modular devices	
Designation	Cat. no.
Blanking strip, H = 46 mm, L = 1000 mm	03220
4 divisible blanking plates, H = 46 mm, L = 90 mm colour: white RAL 9001	03221



For Compact NSX100/250	
Designation	Cat. no.
1 divisible blanking plates, H = 85 mm, L = 147 mm colour: white RAL 9001	03249

Front plate grips



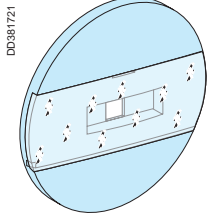
Designation	Cat. no.
20 self adhesive front plate grips colour: white (RAL 9001)	01093
■ easily fitted using double-face adhesive tabs, to harmonise the front plates of your switchboards.	

Adhesive labels for mimic diagrams

Designation	Black
10 lines, 900 mm long and 7 mm thick	01005
10 outgoing arrows	01006
10 incoming arrows	01007
10 transformers	01008
10 earth symbols	01009

Wall-mounted enclosures

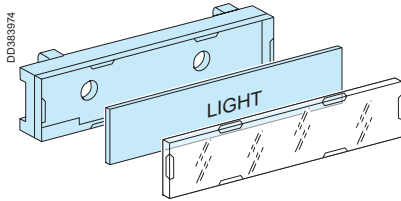
Switchboard identification plate



DD381721

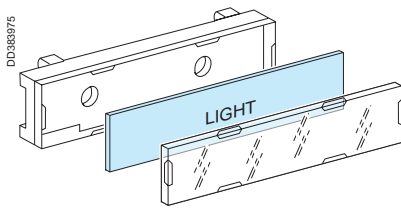
Designation	Cat. no.
Switchboard identification plate	08900

Identification labels



DD383974

Clip-on label.



DD383975

Engraving plate.

Clip-on labels

Clip-on labels

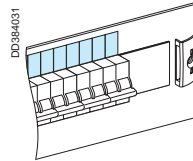
The clip-on support is supplied with a paper label and a transparent cover. It clips onto the front plate horizontally or vertically and can be screwed to any support (plain door, plain front plate, etc.).

Engraving plates

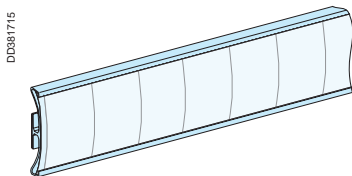
Supplied separately, these plates simply replace the paper labels.

Cat. no. selection

Designation		Cat. no.
12 clip-on labels	18 x 35	08913
	18 x 72	08915
	25 x 85	08917
12 engraving plates	18 x 35	08914
	18 x 72	08916
	25 x 85	08918



DD384031

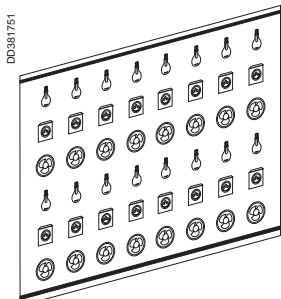


DD381715

Adhesive labels

The adhesive label holders are supplied with a paper label and a transparent cover.

Designation		Cat. no.
12 label holders, W = 180 mm	H = 24 mm	08905
	H = 36 mm	08906
12 label holders, W = 432 mm	H = 24 mm	08903
	H = 36 mm	08904



DD381751

Standard symbols.

Symbol sheets

Each sheet comprises adhesive symbols that can be positioned on the identification labels to immediately identify the type of circuit.

Standard symbols:

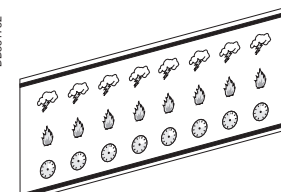
- loads: sockets, lights, heating units, etc.
- rooms: bedroom, bathroom, etc.

Special symbols:

- loads: lightning arrestor, gate, swimming pool, etc.
- rooms: technical room, computer room, etc.

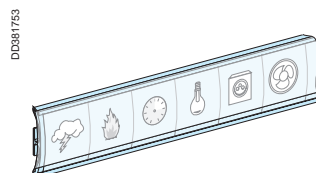
Cat. no. selection

Designation		Cat. no.
Set of ten symbol sheets	standard	13735
	special	13736



DD381752

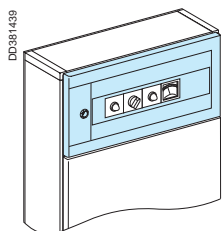
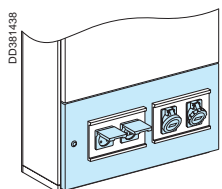
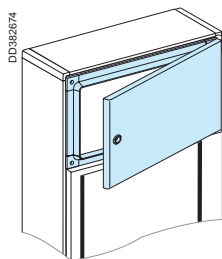
Special symbols.



DD381753

Symbols on an adhesive label holder.

Partial doors



Whether plain or with cut-outs, they can be mounted on basic enclosures or extensions at least eleven modules high (H = 650 mm).

They are equipped with:

- hinges that open 170°
- a 8 mm male triangle insert (key not supplied).

The front can be completed with a standard door, either plain or transparent.

Each basic enclosure or extension can be equipped with only one partial door.

Partial plain door

Designation	Cat. no.
Partial plain door	
4 modules (H = 200 mm) for enclosures from 11 to 27 modules high	08374
6 modules (H = 300 mm) for enclosures 33 modules high	08375

Partial door with cut-outs

Designed for two mounting plates with 22 mm diameter devices or Schneider industrial sockets.

Designation	Cat. no.
Partial door with cut-outs	
4 modules (H = 200 mm) for enclosures from 11 to 27 modules high	08376
6 modules (H = 300 mm) for enclosures 33 modules high	08377

They are supplied with an insulating plain mounting plate that can be used to blank off a reserve hole or to install all types of devices (sockets, EPO devices, measurement devices).

The dimensions of the two holes are 200 mm x 112 mm.

Tego Dial partial door

Designed for "Tego Dial" mounting plates (H = 100 mm) on which it is possible to mount control, monitoring, measurement and indication devices.

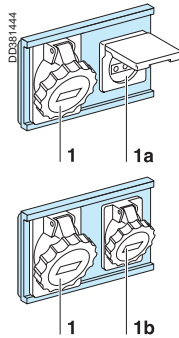
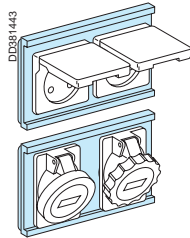
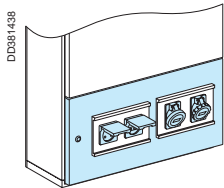
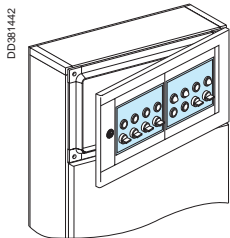
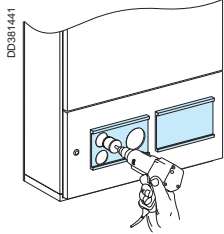
Designation	Cat. no.
Tego Dial partial door	
4 modules (H = 200 mm) for enclosures from 11 to 27 modules high	08378
6 modules (H = 300 mm) for enclosures 33 modules high	08379

The cut-out is 375 mm wide (five 75 mm modules).

For selection of Tego Dial mounting plates, see the Schneider industrial control catalogue.

Wall-mounted enclosures

Mounting plates for 22 mm diameter devices or industrial sockets



Plastic mounting plates are used for 22 mm diameter devices or industrial sockets on the outside of the switchboard.

They can be installed:

- horizontally on the partial doors with cut-outs
- horizontally vertically at any point on a door or side panel.

Plain mounting plate

A plain plate is used to blank off partial doors with cut-outs.

Designation	Cat. no.
Plain mounting plate, 210x150 mm	08861

Can be used to mount any type of device (EPO devices, measurement devices, sockets).

Mounting plate for 22 mm diameter devices

For installation of eight 22 mm diameter devices (lights, switches, pushbuttons, etc.).

Designation	Cat. no.
Mounting plate with eight 22 mm diameter holes	08862

Supplied with 4 blanking plug

Mounting plate for Schneider industrial sockets

Mounting plate with two 65 x 85 mm holes.

Intended for the installation of:

- 10/16 A residential sockets
- flush-mount 16 A LV sockets, inclined or straight, IP44/IP67, IK08.

Designation	Cat. no.
Mounting plate with two 65 x 85 mm holes	08863

Supplied with a 65 x 85 mm blanking plate.

Mounting plate with two holes, 65 x 85 mm and 90 x 100 mm

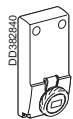
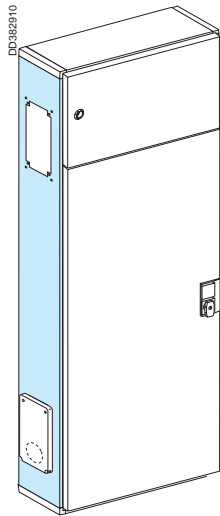
Intended for the installation of:

- inclined 16 and 32 A IP44 and IP67 sockets in the 90 x 100 mm hole (1)
- residential sockets (< 10/16 A) in the 65 x 85 mm hole (1a)
- flush-mount inclined or straight 16 A LV sockets, IP44/IP67, IK08, in the 65 x 85 mm hole (1b).

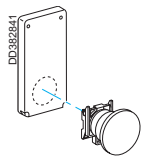
Designation	Cat. no.
Mounting plate with two holes, 65 x 85 mm and 90 x 100 mm	08864

Supplied with a 65 x 85 mm blanking plate.

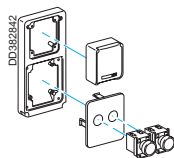
Side panel with cut-out



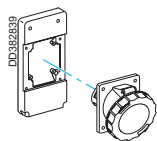
Montage direct.



13143.



13142.



13144.

These panels are designed to replace the standard side panel. They can be mounted on the left or right-hand side.

Designation	Cat. no.
1 side panel with cut-out	
7 mod.	08362
11 mod.	08363
15 mod.	08364
19 mod.	08365
23 mod.	08366
27 mod.	08367
33 mod.	08369

The cut-outs are designed for the installation of Practika PK industrial sockets up to 63 A either directly or on 103 x 225 mm adaptation plates of the Kaedra enclosure range.

Installation is direct (in 103 x 225 mm cut-outs) for:

- 16/32 A interlocked LV sockets, IP44/IP65, IK08
- 16 A VLV sockets with safety transformers, IP44/IP65, IK08

- blanking plates, also used for mounting accessories such as pushbuttons of the Kaedra range (plate cat. no. 13143)

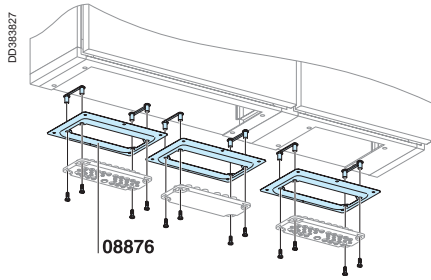
Installation requires a Kaedra adaptation plate for:

- 16 A and 32 A LV and VLV sockets (plate cat. no. 13142)

- 63 A LV sockets, IP67, IK08 (plate cat. no. 13144).

For selection of PK industrial sockets and adaptation plates: see Kaedra catalogue.

Wall-mounted enclosures

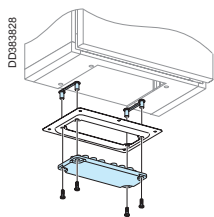


Metal plate with cut-outs

Enclosures are supplied with metal gland plates installed on the top or bottom panel of the enclosures (2 plates) or 300 mm wide ducts (1 plate). These plates can be replaced by metal plates with cut-outs for special cable entry systems made of an insulating material (plain, with knockouts or membrane-type). They are designed for entry of cables of different cross-sectional areas via the bottom of a switchboard while maintaining the IP55 degree of protection.

Designation	Cat. no.
Metal plate with cut-outs for enclosure and duct L = 300 mm	08876

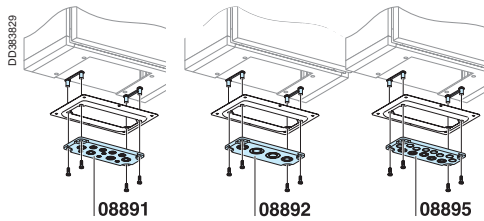
Gland plates



The gland plates are easy to install using the mounting kit (supplied with each gland plate) that positions and holds the nuts during installation. This makes it possible to mount the gland plates using a single tool.

Plain gland plate

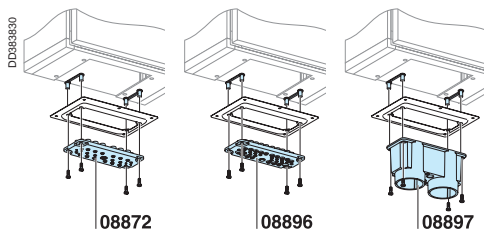
Designation	Cat. no.
Plain gland plates	08881



Gland plates with knockouts

Designed for metric cable glands.

Designation	Cat. no.
Gland plates with knockouts 4 x M12 + 4 x M12 or M20 + 4 x M16 or M25	08891
2 x M20 or M32 + 2 x M25 or M40	08892
5 x M16 or M25 + 8 x M20	08895
Gland plates with 39 x 7 to 26 mm diameter entries	08898
Gland plates with 2 x 33 to 72 mm diameter entries	08899



Membrane-type gland plates

Gland plates with membranes for perforation according to required diameter.

Number of entries	Number of entries per diameter	Cable diameters between		Cat. no.
		Min.	Max.	
25	4	5	7	08872
	4	8	12	
	12	10	14	
	4	14	20	
	1	20	26	
35	2	5	7	08896
	6	6	10	
	8	7	12	
	16	10	14	
	2	12	18	
	1	17	32	
2	2	28	60	08897

Presentation

The small plain and transparent doors (7 to 23 modules) are supplied with a small handle comprising a barrel lock no. 405.

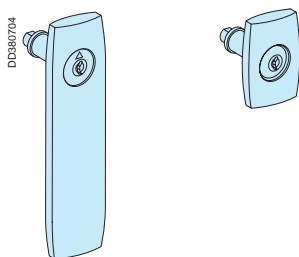
The large plain and transparent doors (27 to 33 modules) are supplied with a large handle comprising a barrel lock no. 405.

The partial doors are supplied with an 8 mm male triangle insert.

All doors can receive as optional equipment:

- a large or small handle with a barrel lock no. 405. The latter can be replaced by other barrel locks or special inserts
- a large EURO handle, supplied without a barrel lock
- door inserts (squares, triangles, double bars, screwdriver slots).

Handles

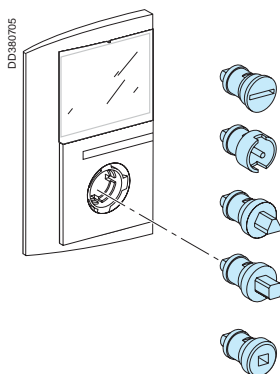


Replacement handles

Designation	Cat. no.
Door latch with lock and 2 no. 405 keys	08936
Handle (L = 155 mm) with lock and 2 no. 405 keys	08935
EURO handle without a barrel lock ⁽¹⁾	08934

(1) Do not suit to barrels with an automatic return stroke of the key.

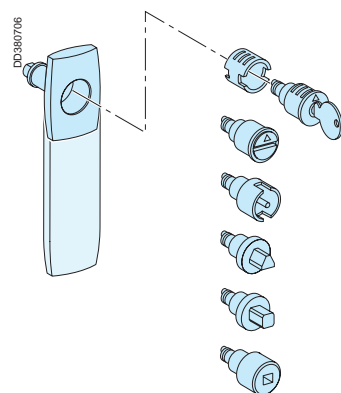
Door insert



These inserts simply replace a standard handles.

Designation	Cat. no.
Screwdriver slot insert	09981
3 mm double bar insert	09982
7 mm male triangle insert	09983
8 mm male triangle insert (CNOMO)	09984
9 mm male triangle insert (EDF)	09985
6 mm male square insert	09986
7 mm male square insert	09987
8 mm male square insert	09988
6 mm female square insert	09989

Handle barrel locks and inserts



Barrel locks

These components may equip handles after removing the standard barrel lock no. 405.

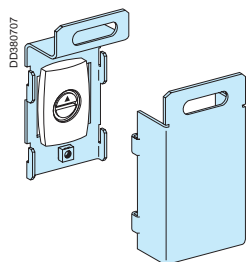
Designation	Cat. no.
Barrel lock + 2 keys no. 2433A	09933
Barrel lock + 2 keys no. 455	09945
Barrel lock + 2 keys no. 1242 E	09942
Barrel lock + 2 keys no. 3113 A	09943

Other A and E combinations are available from Ronis, please consult us.

Inserts

Designation	Cat. no.
Screwdriver slot insert	09931
6 mm female square insert	09946
6 mm male square insert	09949
7 mm male square insert	09947
8 mm male square insert	09948
7 mm male triangle insert	09937
8 mm male triangle insert (CNOMO)	09938
9 mm male triangle insert (EDF)	09939
3 mm double bar insert	09932

Padlocking



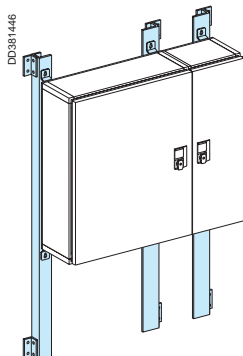
Kit designed for three padlocks.

Designation	Cat. no.
IP55 handle padlocking kit	08939

The kit can be installed on all IP55 doors, except those equipped with an EURO lock.

Wall-mounted enclosures

Mounting supports



Mounting uprights

The uprights are used to mount on a wall one or more enclosures combined horizontally or vertically.

The uprights leave space behind the switchboard for cable running and to improve ventilation.

Colour RAL7016.

For one enclosure, order two uprights.

For each enclosure extension or duct, order one additional upright.

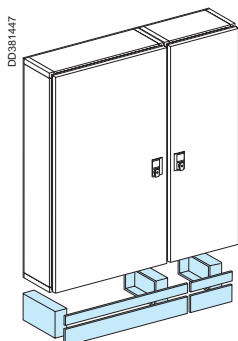
Designation	Cat. no.
1 mounting upright (L = 1950 mm)	08391

Supplied with:

- two adjustable fixing brackets
- one joint for combination with a plinth or another upright.

Note: to create the configuration opposite, order:

- three mounting uprights (08391 x 3).



Plinth, H = 150 mm

The plinth, installed in the factory or on-site, raises the switchboard to protect it and facilitate spreading of cables arriving from a trough.

Colour RAL7016.

The wall-fixing brackets supplied with the plinth ensure that the switchboard cannot topple over.

For the basic enclosure, order two gussets and one 600 mm wide plinth cover panel.

For each enclosure extension or duct, order one additional gusset and the corresponding cover panel.

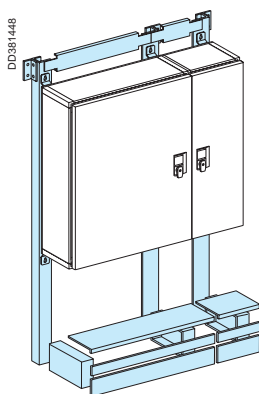
Designation	Cat. no.
Plinth gusset	08392
Plinth cover panel, W = 600 mm (for enclosure)	08393
Plinth cover panel, W = 300 mm (for duct)	08394

Note: to create the configuration opposite, order:

- three plinth gussets (08392 x 3)

- one plinth cover panel, W = 600 mm (08393)

- one plinth cover panel, W = 300 mm (08394).



Wall structure

The switchboard can be mounted on the structure in the factory or on site.

Two wall-fixing brackets supplied with the basic enclosure ensure that the switchboard cannot topple over.

Colour RAL7016.

Designation	Cat. no.
1 mounting upright (L = 1950 mm)	08391
1 plinth gusset	08392
Plinth cover panel, W = 600 mm (for enclosure)	08393
Plinth cover panel, W = 300 mm (for duct)	08394

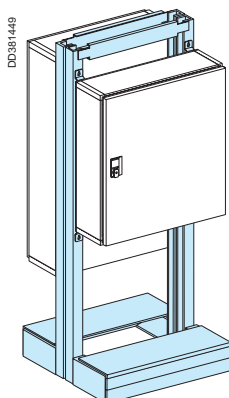
Note: to create the configuration opposite, order:

- three mounting uprights (08391 x 3)

- three plinth gussets (08392 x 3)

- one plinth cover panel, W = 600 mm (08393)

- one plinth cover panel, W = 300 mm (08394).



Free-standing structure

The free-standing structure is simply two wall structures combined back-to-back.

The switchboard can be positioned anywhere.

It can be fixed to the floor and moved easily using the lifting rings (08396).

It can be equipped with one or more enclosures with Schneider sockets.

Colour RAL7016.

Designation	Cat. no.
1 mounting upright (L = 1950 mm)	08391
1 plinth gusset	08392
Plinth cover panel, W = 600mm (for enclosure)	08393
Plinth cover panel, W = 300 mm (for duct)	08394

Note: to create the configuration opposite, order:

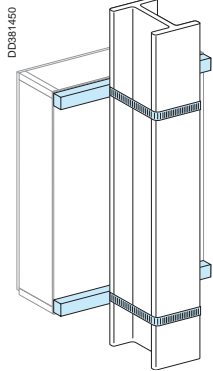
- four mounting uprights (08391 x 4)

- four plinth gussets (08392 x 4)

- two plinth cover panels, W = 600 mm (08393 x 2).

Wall-mounted enclosures

Mounting on a pole



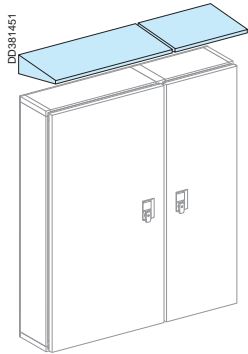
The kit is used to mount an enclosure or an enclosure + duct combination, without drilling, to an I-beam or concrete pole that can be rectangular or cylindrical. The maximum circumference of the pole is 580 mm.

Designation	Cat. no.
Pole-mount kit for enclosures	08395

The kit is made up of:

- two reinforcement cross-members to support the enclosure
- mounting components and hardware.

Canopies



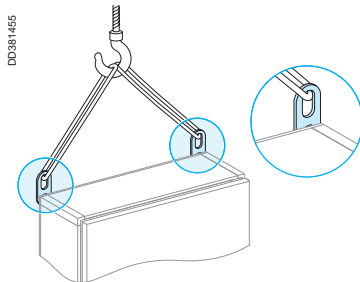
Installed on the mounting uprights or directly on the wall, canopies improve switchboard protection against vertically falling water and objects. Colour RAL7016.

Designation	Cat. no.
Canopy, W = 600 (for enclosure)	08386
Canopy, W = 300 (for duct)	08387

Supplied with:

- the hardware required for mounting on the uprights
- the components required for combination with another canopy.

Lifting rings



The lifting rings are secured directly to the switchboard or to the mounting uprights. Supplied with mounting hardware.

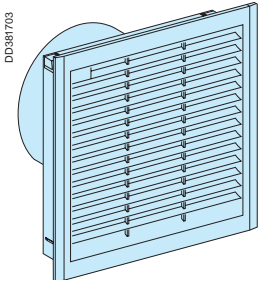
Designation	Cat. no.
Set of two lifting rings	08396

Wall-mounted enclosures

Presentation

In most cases and notably for IP30 switchboards, convection takes place naturally and does not require fans. However, when the switchboard is installed in temperate environments or when the degree of protection is high (IP55), ventilation accessories are indispensable. For more in-depth information on selecting air-conditioning accessories and the thermal management of switchboards, see page E-20.

Front or side fan



The switchboard is cooled by drawing in cool external air.

Presentation

The set comprises the fan with a grill and a filter. It can be clipped directly on the cut-out front plate.

Installation

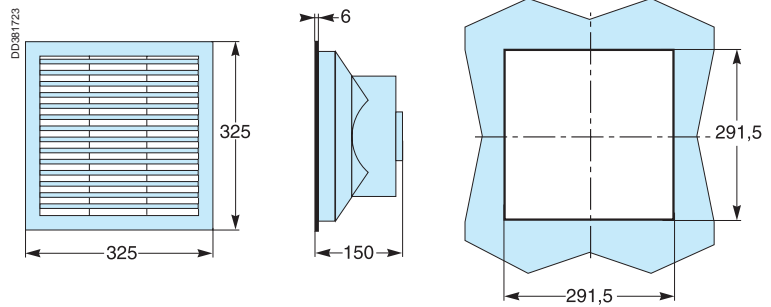
These fans are generally installed at the bottom of floor-standing enclosures:

- by cutting out a side panel
- or on the front, using the front plate with cut-out for a fan.

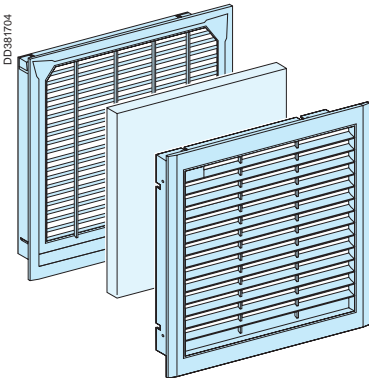
Designation	Cat. no.
Fan	08987
Front plate with cut-out for fan or filter (7 modules)	03890

Characteristics

- Power rating: 70 W.
- Input voltage: 230 V.
- Noise level: 69 dB.
- Degree of protection: IP54.
- Weight: 3 kg.
- Unimpeded throughput: 460 m³/h.
- Throughput with counterpressure (grill + standard filter, cat. no. 08988): 350 m³/h.



Filter for front or side fan



Presentation

The grill is supplied with a standard filter that can be replaced or exchanged for a finer filter. The grill can be clipped directly on the cut-out front plate.

Installation

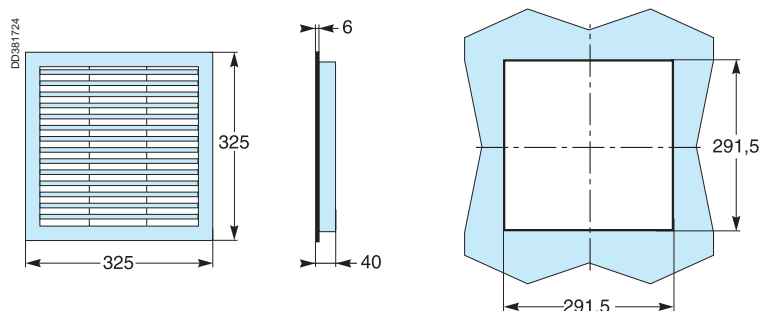
The grill/filter can be installed:

- by cutting out a side panel
- or on the front, using the front plate with cut-out for a fan.

Characteristics

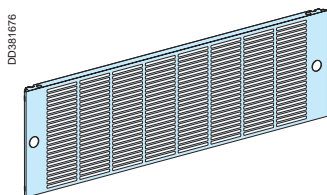
Degree of protection: IP54.

Designation	Cat. no.
Grill with filter (supplied with standard filter, maximum throughput = 350 m ³ /h)	08988
5 standard filters (replacement)	08989
5 fine filters	08990
Front plate with cut-out for fan or filter (7 modules)	03890



Wall-mounted enclosures

Ventilated front plate

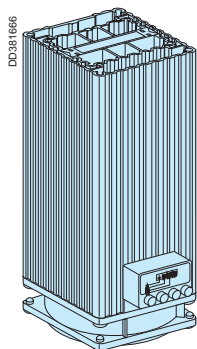


Designation	Cat. no.
IP30 ventilated front plate, H = 50 mm (1 module), S = 80 cm ²	03891
IP30 ventilated front plate, H = 150 mm (3 modules), S = 250 cm ²	03895

Located at the top and bottom of the switchboard, IP30 ventilated front plates facilitate natural convection in the switchboard.
S is the surface area of the openings.

Wall-mounted enclosures

Heating elements



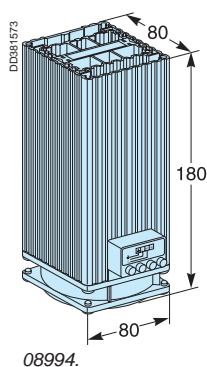
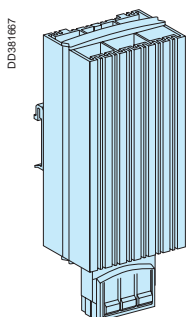
Designation	H	W	D (mm)	Cat. no.
55 W heating resistor	184	70	60	08992
90 W heating resistor	184	70	60	08993
250 W heating resistor	180	80	80	08994

The resistors can be mounted horizontally or vertically. They prevent condensation, corrosion and superficial leakage currents.

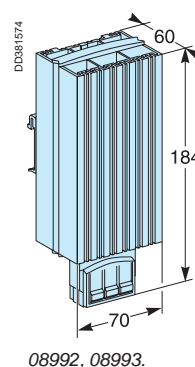
They maintain a positive temperature in the enclosures and cubicles when external temperatures drop very low.

Characteristics

- aluminium case with fins
- turns off at 60 °C, turns on at 25-30 °C (temperature of the resistor itself)
- equipped with a symmetrical rail for rapid mounting (clips on)
- input voltage: 230 V.

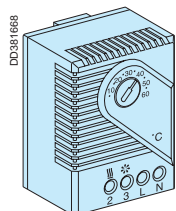


08994.



08992, 08993.

Thermostat



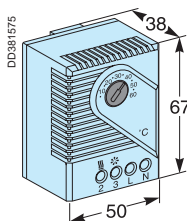
Designation	Cat. no.
Thermostat	08998

Used to control the temperature inside electrical switchboards in conjunction with heating resistors and fans.

Setting range: +5 °C to +60 °C.

Input voltage: 230 V.

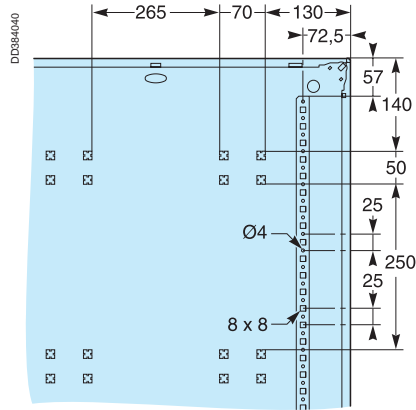
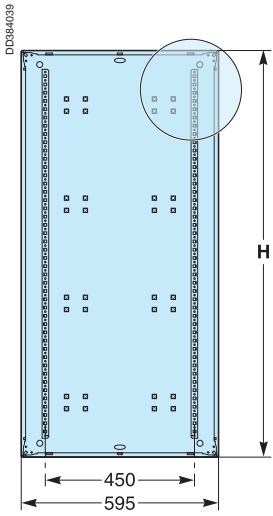
Fixing: clips onto a modular rail.



IP30/31/43 wall-mounted enclosures

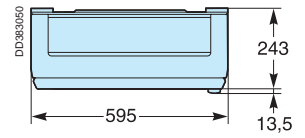
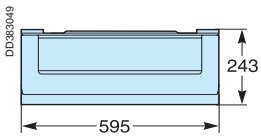
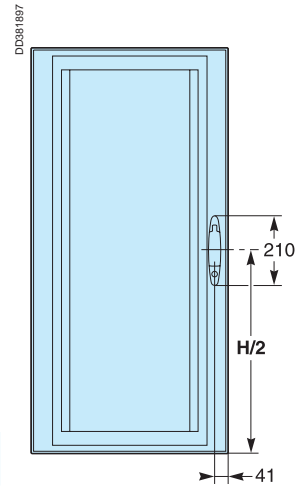
Dimensions

Wall-mounted enclosures

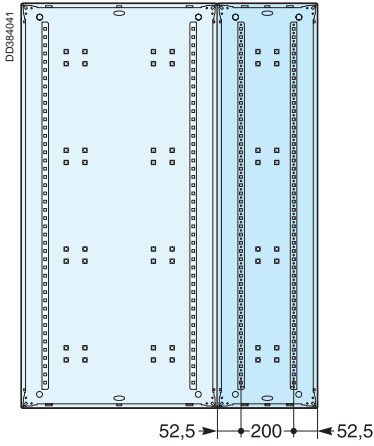


	No. of modules							
	6	9	12	15	18	21	24	27
H	330	480	630	780	930	1080	1230	1380

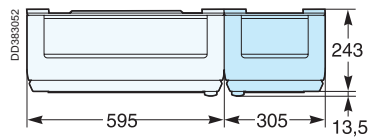
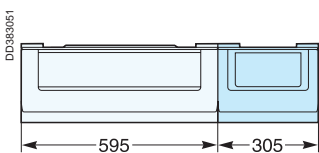
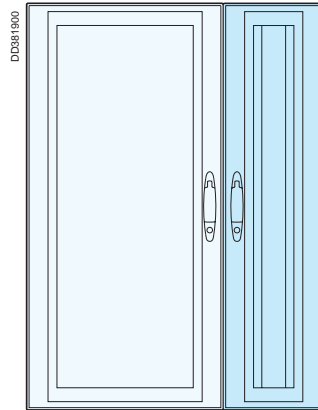
Door



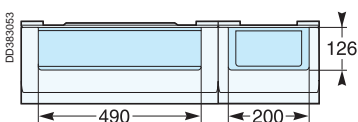
300 mm wide duct



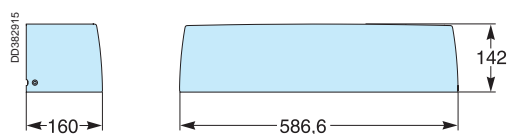
Door



Cable entry

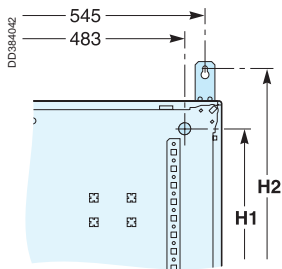


Trunking spreader

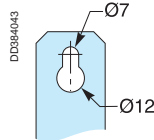


Dimensions

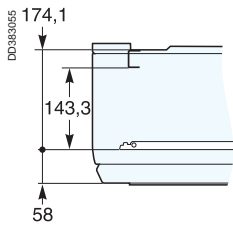
Wall mounted



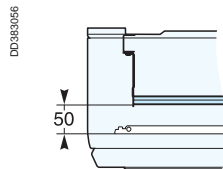
	No. of modules							
	6	9	12	15	18	21	24	27
H1	246	396	546	696	846	996	1146	1296
H2	430	580	730	880	1030	1180	1330	1480



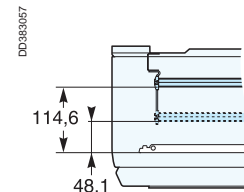
Depth behind front plate Functional uprights



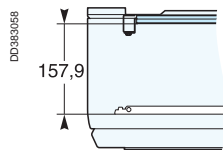
Modular rail



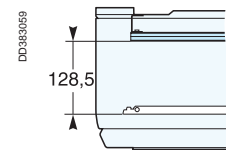
03001/03010.



03002/03011.

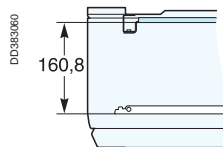


03003.

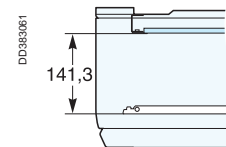


03004.

Slotted mounting plate



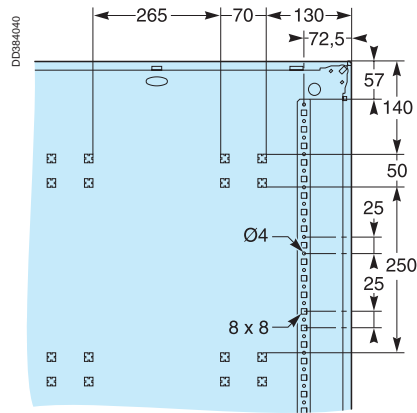
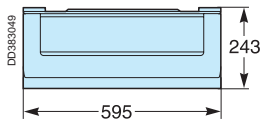
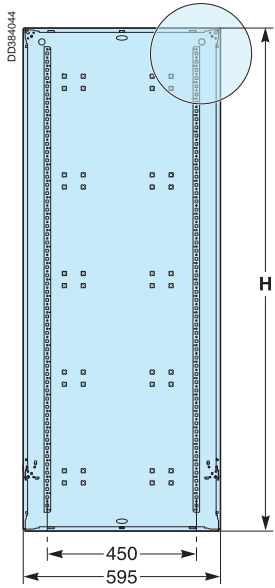
03171/03172/03173/
03176/03177/03178.



03170/03175.

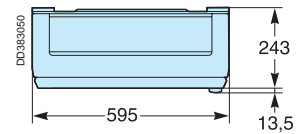
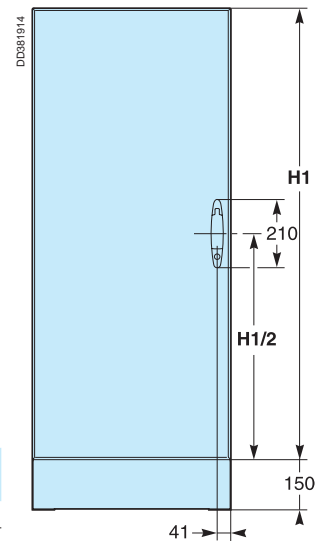
Dimensions

Floor-standing enclosure

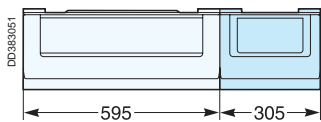
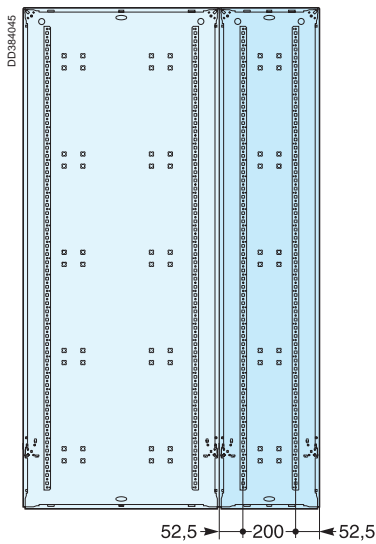


	No. of modules		
	27	30	33
H	1530	1680	1830
H1	1380	1530	1680

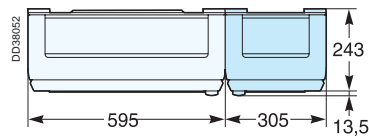
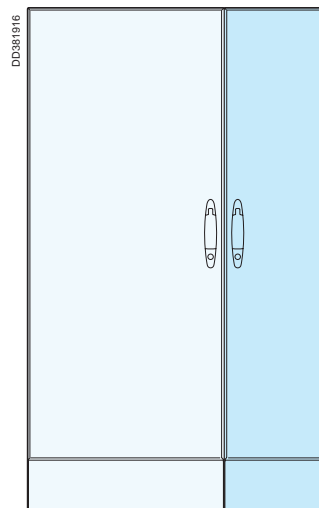
Door



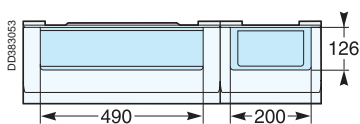
300 mm wide duct



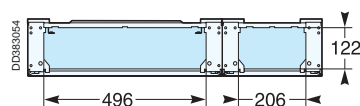
Door



Top cable entry

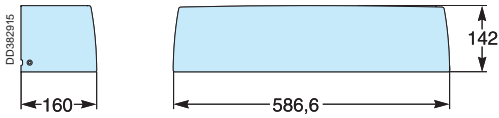


Cable entry for plinths

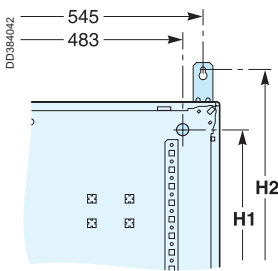


Dimensions

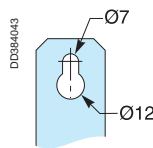
Trunking spreader



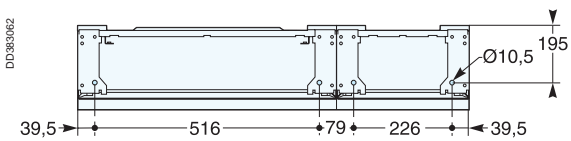
Wall mounted



	No. of modules		
	27	30	33
H1	1488	1638	1788
H2	1580	1730	1880

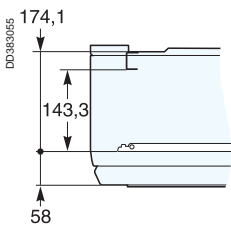


Fixing to floor

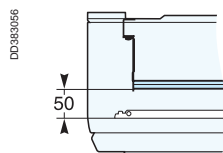


Depth behind front plate

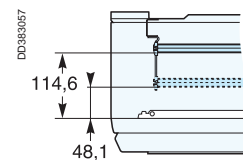
Functional uprights



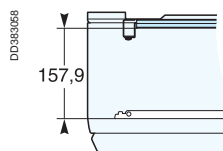
Modular rail



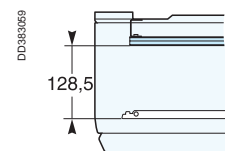
03001/03010.



03002/03011.

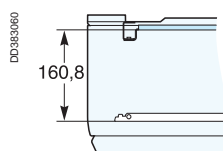


03003.

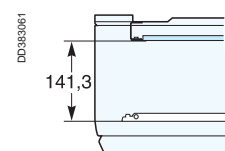


03004.

Slotted mounting plate



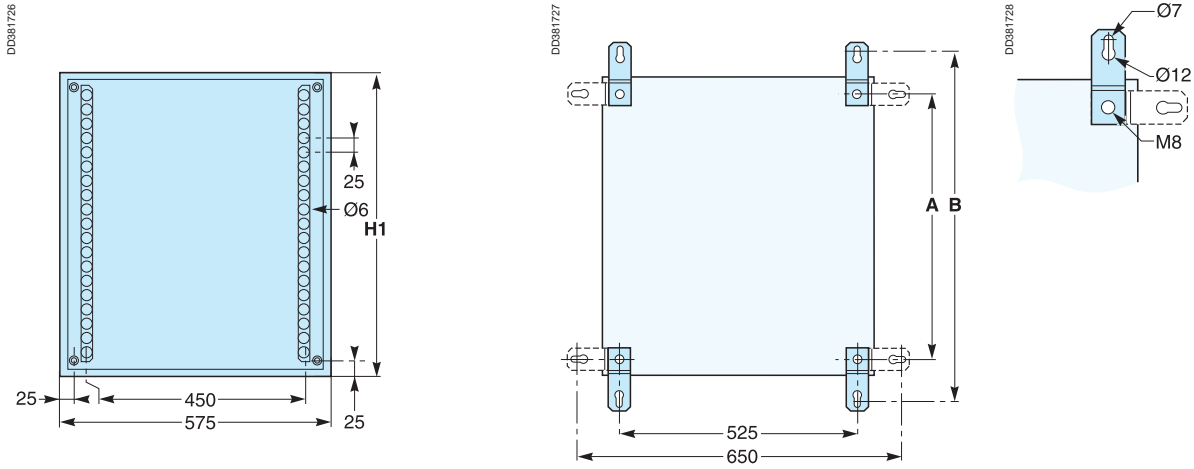
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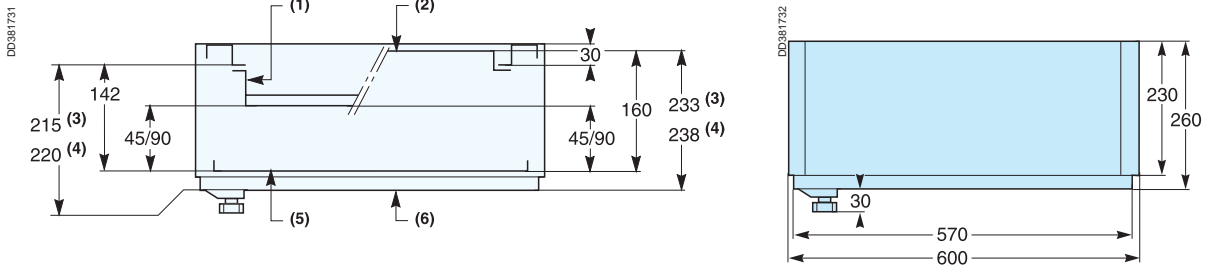
03170/03175.

Dimensions

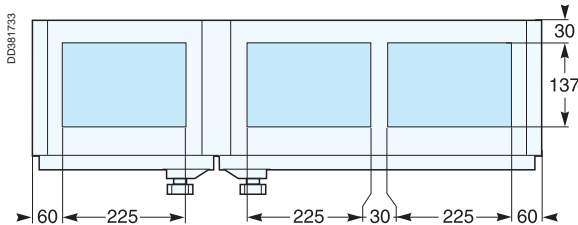
Enclosures



Useful depth

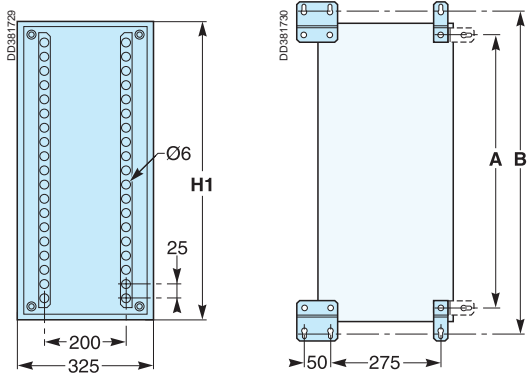


Gland plates



- (1) Multifix rail.
- (2) Recessed slotted mounting plate.
- (3) Transparent door.
- (4) Plain door.
- (5) Front plate.
- (6) Door.

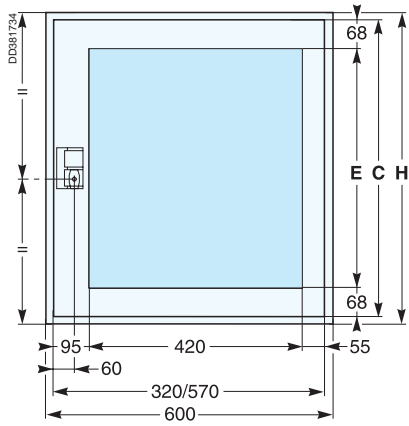
Duct



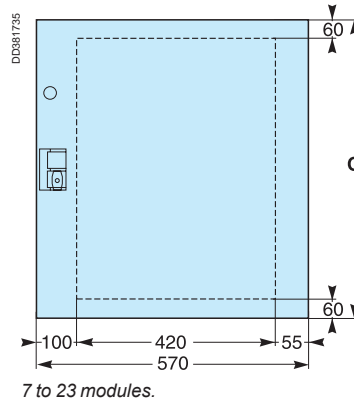
No. of modules	H1	A	B
7	425	375	475
11	625	575	675
15	825	775	875
19	1025	975	1075
23	1225	1175	1275
27	1425	1375	1475
33	1725	1675	1775

Dimensions

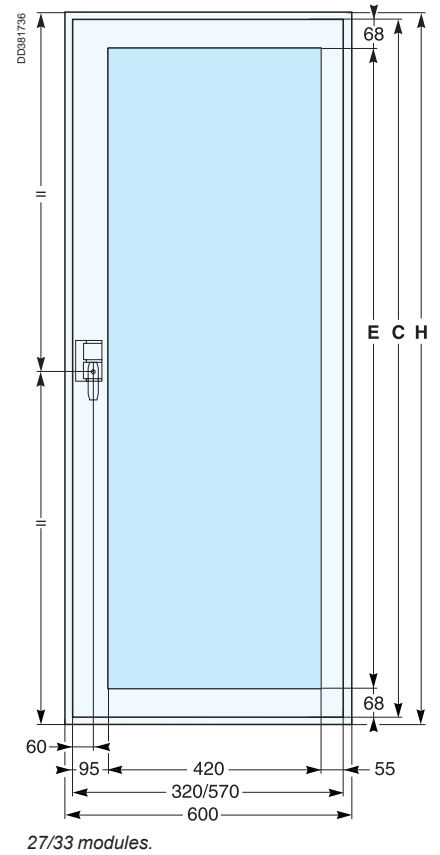
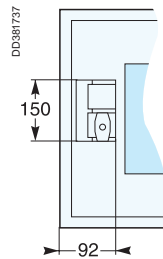
Door



Useful door surface

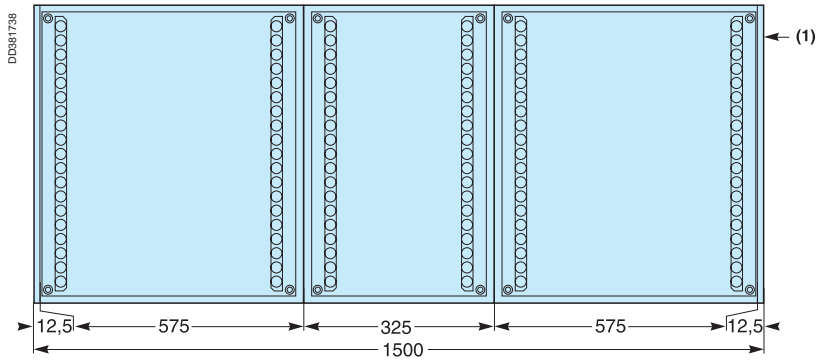


No. of modules	C	E	H
7	420	284	450
11	620	484	650
15	820	684	850
19	1020	884	1050
23	1220	1084	1250
27	1420	1284	1450
33	1720	1584	1750



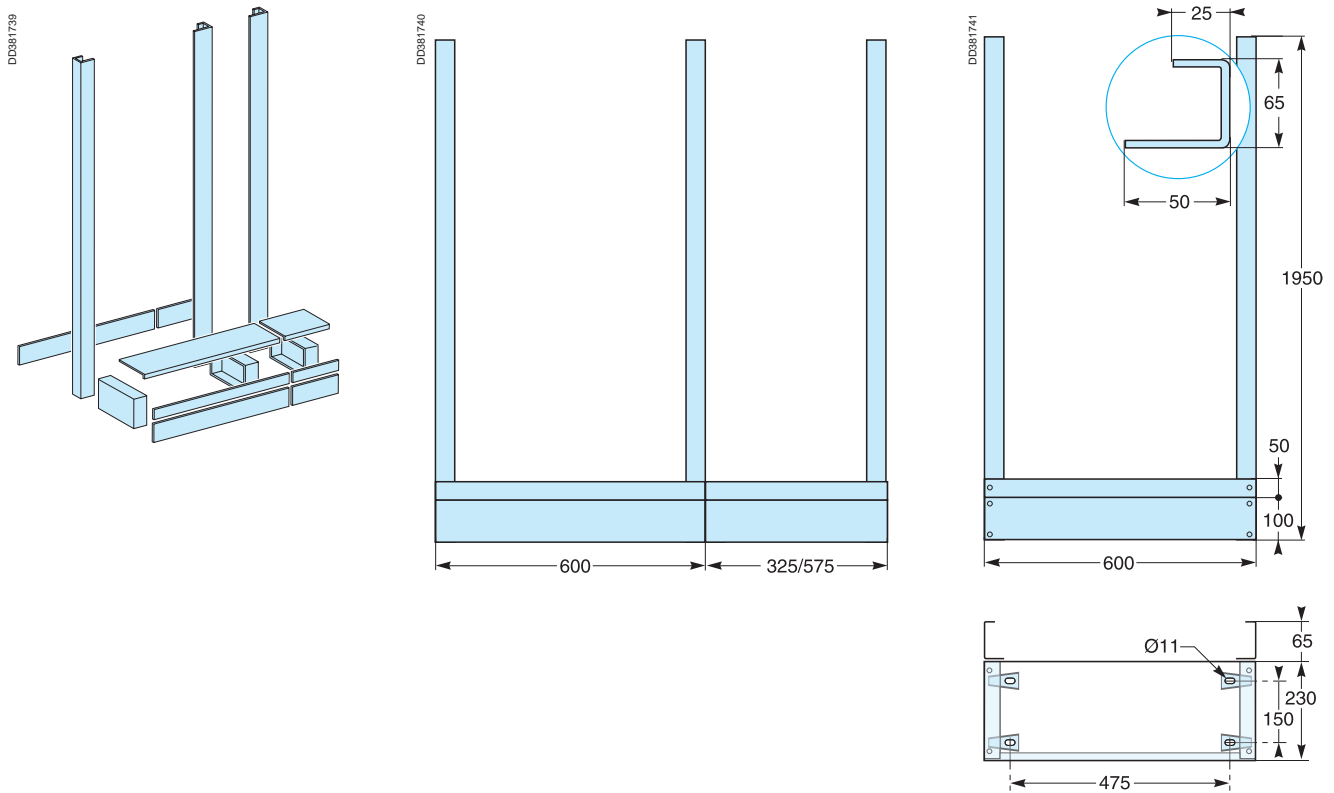
Dimensions

Enclosure combinations

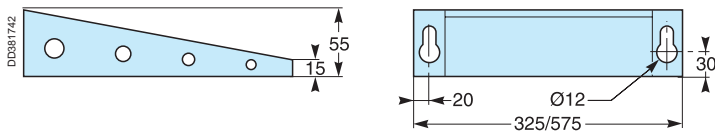


(1) Side panel.

Wall structure

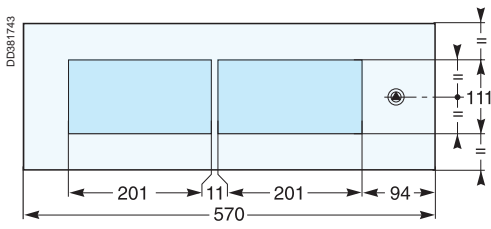


Canopy



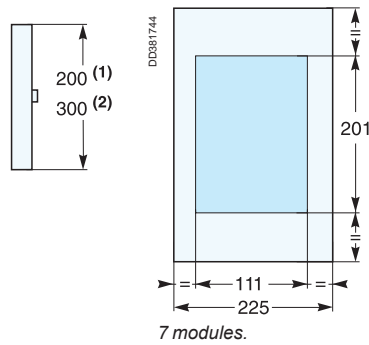
Dimensions

Partial door with cut-outs

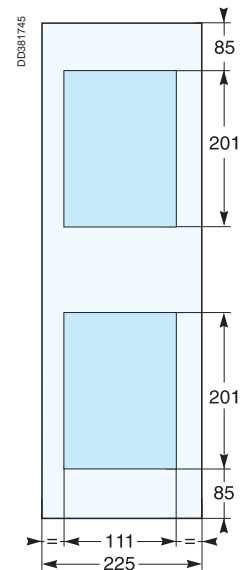


(1) 7 to 23 modules.
(2) 27 to 33 modules.

Side panels with cut-outs

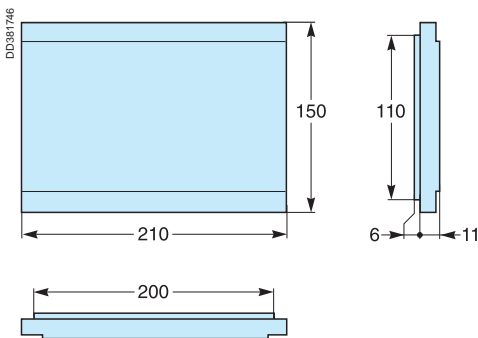


7 modules.

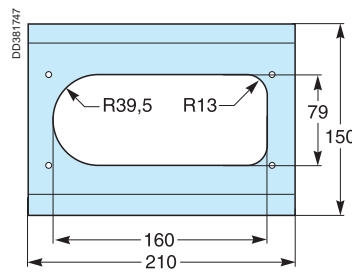


11 to 33 modules.

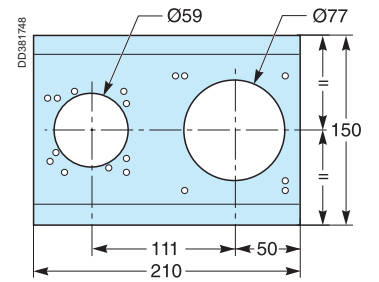
Functional mounting plates



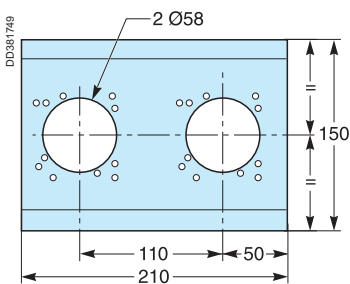
08861.



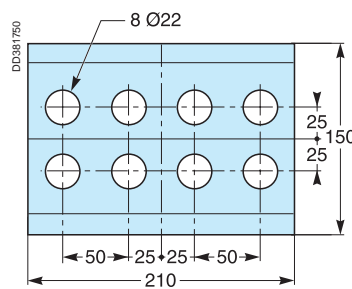
08865.



08864.



08863.



08862.

TOOLS

schneider-electric.com

This international site allows you to access all the Schneider Electric products in just 2 clicks via comprehensive range data-sheets, with direct links to:

- complete library: technical documents, catalogs, FAQs, brochures...

- selection guides from the e-catalog.

- product discovery sites and their Flash animations.

You will also find illustrated overviews, news to which you can subscribe, the list of country contacts...



The technical guide

These technical guides help you comply with installation standards and rules i.e.: the electrical installation guide, the protection guide, the switchboard implementation guide, the technical booklets and the co-ordination tables all form genuine reference tools for the design of high performance electrical installations.

For example, the LV protection co-ordination guide - discrimination and cascading - optimises choice of protection and connection devices while also increasing markedly continuity of supply in the installations.



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Rear panel accessories

Wall-mounted enclosure (IP30)	
Accessories for rear of duct	01016
4 corner pieces	
2 door stops	
2 combination uprights	
2 combination brackets	
1 earthing braid plug	
Mounting hardware	
Floor-standing enclosure (IP30)	
4 struts	01036
4 struts + strut heads	
1 combination reinforcement	
2 combination brackets	
Mounting hardware	
Designation	
Accessories	01018
4 struts + strut heads	
1 earthing braid plug	
4 corner pieces	
2 door stops	
Mounting hardware	
4 washers for rear panel	01098
(IP55)	
2 single struts, RAL 9001	01025
4 struts	

Door accessories

Wall-mounted enclosure (IP30)	
Closing accessories for System G wall-mounted enclosure door	01038
2 fixed hinges + pins	
■ 1 bolt stop	
(IP30)	
Closing accessories for System G floor-standing enclosure door	01032
3 fixed hinges + pins	
■ 1 bolt stop	
System G Retrofit handle	01220
(IP55)	
Handle wall-mounted enclosure RAL 7016	01205
Handle floor standing enclosure RAL 7016	01206
Hub cap handle IP55	01207
Set of spare parts for IP55 wall-mounted enclosures	01247
Set of spare parts for IP55 door	01248
IP55 closing system spare parts	01249

Sides

Wall-mounted enclosure (IP30)	
Side for 6-module System G wall-mounted enclosures	01040
Side for 9-module System G wall-mounted enclosures	01041
Side for 12-module System G wall-mounted enclosures	01042
Side for 15-module System G wall-mounted enclosures	01043
Side for 18-module System G wall-mounted enclosures	01044
Side for 21-module System G wall-mounted enclosures	01045
Side for 24-module System G wall-mounted enclosures	01046
Floor-standing enclosure (IP30)	
Side for 27-module System G floor-standing enclosures	01035
Side for 30-module System G floor-standing enclosures	01034
Side for 33-module System G floor-standing enclosures	01033

Central uprights

Floor-standing enclosure (IP30)

Combination piece for 27-module System G floor-standing enclosures	01030
Combination piece for 30-module System G floor-standing enclosures	01029
Combination piece for 33-module System G floor-standing enclosures	01028

Front-plate accessories

Grips

Quarter-turn closing accessories	01094
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Plinths

Floor-standing enclosure (IP30)

Accessories for plinth with holes	01050
Accessories for plinth	01051
Plinth front, 600mm	01052
Plinth front, 300mm	01053
Plinth front, 850mm	01054

Top plates

Wall-mounted enclosure (IP30)

Support plate for duct, W=300mm	01039
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Gland plates

Wall-mounted enclosure (IP30)

STD gland plate	01017
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Wall-mounted enclosure (IP55)

FL21 gland plate for Pack enclosures	01020
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Powerclip busbar accessories

Designation

Powerclip busbar accessories, 160 to 400A Mounting hardware 2 end plugs 2 Powerclip supports	01210
Powerclip busbar accessories, 630A	01211

Mounting hardware

Designation

12 1/4 turn front plate screws	01200
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Busbars

Designation

2 IPxxB clipon covers for Powerclip busbars	01201
4 terminal covers for 200A Multiclip	01202

Designing Prisma Plus power circuits

Presentation and approach

The Prisma Plus system takes into account the installation and connection conditions of Schneider Electric devices.
The entire installation complies with standard IEC 60439-1. The result is a type tested switchboard.



PD3980528-51-

In the following pages you will find a number of examples, validated for Prisma Plus switchboards, intended to assist in determining the busbars as well as the upstream and downstream connections for the installation.

The examples assume that the devices have already been selected.

A complete process involves a number of steps before making final choices (transformer, conductors, protection, etc.).

Schneider Electric offers a number of tools to assist in designing a complete installation (technical guides, software).

Busbar sizing

The factors that must be taken into account in determining the size of busbars include:

- the diversity factor.

Not all the loads supplied by a set of busbars are used at full rated load or at the same time. The diversity factor is the means to determine the maximum load current used to size the busbars.

Standard IEC 60439-1 §4.7 specifies the table below.

Number of circuits	Diversity factor
2 and 3	0.9
4 and 5	0.8
6 to 9	0.7
10 and more	0.6

- the degree of protection IP.
- the ambient temperature around the switchboard.

Supply of devices for outgoers ≤ 630 A

Flexible copper bars with an insulating cover.

To determine the required sizes for flexible bars, see the tables starting on page E-5, which indicate the correct size for each type of connected device.

- an insulated flexible bar (not connected) must meet standards IEC 60243-1 (dielectric), NFC 32201 (insulation) and IEC 60332-1 (fire)
- a flexible bar connected to a device in an enclosure must comply with standard IEC 60439-1.

Cables

To determine the cables required, see the table on page E-8.

They can be used to determine:

- the size of cables as a function of:
 - the circuit breaker rating
 - the current
 - the ambient temperature around the switchboard
- the permissible current for individually tied cables or touching cables as a function of:
 - the size of the cables
 - the degree of protection for the switchboard.

Flexible copper bars with an insulating sheath

Switchboards that comply with standard IEC 60439-1

It is imperative to use the values indicated below that have been validated for the installation of devices in Prisma Plus switchboards.

The parameters determining the size of flexible bars are:

- the environment in which the devices are installed:
 - position in the enclosure
 - dimensions of other conductors in the circuit
 - ambient temperature around the switchboard
- the characteristics of the connected devices:
 - device heat losses
 - the type of installation (horizontal or vertical)
 - the type of device (fixed or withdrawable).

Only the equipment manufacturer with in-depth knowledge on:

- the characteristics of the installed devices
 - the configuration of the installation in the enclosure
- can provide the correct sizes of flexible bars for a given permissible current.

Insulated, flexible bars make for easy, fast and flexible implementation up to 630 A, but higher ratings require sizes that cancel these advantages.

For high I_{sc} values, it is advised to use rigid bars which require fewer supports.

Insulated flexible bars are better than cables, they offer:

- better insulation temperature withstand (125 °C for bars, 105 °C for cables) and a larger exchange surface for an equivalent size, i.e. a smaller size for a given current
- greater rigidity offering better electrodynamic characteristics for short-circuit currents
- no intermediate parts (lugs) for a direct connection between the device and the busbars therefore less temperature rise and less risk of error
- fast implementation of prefabricated connections already cut to length, formed and drilled.

Technical characteristics

- thickness of the insulation: variable depending on the bar size, 2 mm on average
- rated insulation level U_i = 1000 V
- impulse withstand voltage U_{imp} = 12 kV
- maximum withstand temperature of insulating material = 125 °C.

Connection

In all cubicles with IP ≤ 55

- the switchboard internal temperature is 60 °C
- the withstand temperature of the insulating material is 125 °C.

If the withstand temperature of the insulation is only 105 °C, use the next largest flexible bar.

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

Connection of devices and distribution blocks to busbars

Device	INS125	INS160	INS250	INS320 INS400	INS500 INS630	NSX100 ⁽¹⁾	NSX160 ⁽¹⁾
S (mm)	20 x 2	20 x 2	20 x 3	32 x 5	32 x 6	20 x 2	20 x 3
Device	NSX250 ⁽¹⁾	NSX400 ⁽¹⁾	NSX630	INF250 ISFT250	INF400 ISFT400	INF630 ISFT630	
S (mm)	20 x 3	32 x 5	32 x 8	24 x 5	32 x 5	32 x 8	

(1) The values for circuit breakers apply to contactors with the same ratings.

To connect a Compact NSX250 to Powerclip busbars, use a 24 x 5 mm flexible bar (04746).

Device	Multiclip distribution block (200 A)	Polypact distribution block (3P)	Polypact distribution block (4P)
S (mm)	20 x 3	32 x 6	32 x 5

Disconnectors, terminal blocks, connections, busbars to busbars

I max. (60 °C)	200 A	250 A	400 A	400 A	480 A	520 A	580 A	660 A
S (mm)	20 x 2	20 x 3	24 x 5	24 x 5	24 x 6	32 x 5	32 x 6	32 x 8

Note: the values indicated above have been validated for Prisma Plus switchboards.

Compact NSX100 to NSX250

Insulated flexible copper bars

Devices		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
IP ≤ 55							
NSX100 TMD-TMG	Size per phase	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2
	I (A)	100	97.5	95	92.5	90	85
NSX125 TMD-TMG	Size per phase	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2
	I (A)	125	122	119	116	113	100
NSX160 ⁽¹⁾ TMD-TMG	Size per phase	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3
	I (A)	160	156	152	147	144	140
NSX250 ⁽¹⁾ TMD-TMG	Size per phase	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3
	I (A)	250	244	238	231	225	198
NSX100 STR	Size per phase	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2
	I (A)	100	100	100	100	100	100
NSX160 STR	Size per phase	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3
	I (A)	160	160	160	160	160	160
NSX250 ⁽²⁾ STR	Size per phase	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3
	I (A)	250	250	237.5	237.5	225	225

(1) For a withdrawable NSX160 or NSX250 equipped with a Vigi or an insulation-monitoring module, multiply the I_n values by 0.9.

(2) For a withdrawable NS250 equipped with a Vigi or an insulation-monitoring module, multiply the I_n values by 0.86.

Compact NSX400 to NSX630

Permissible current (A)

Insulated flexible copper bars

Devices		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
IP ≤ 55							
NSX400N/H/L fixed	Size per phase	32 x 5	32 x 5	32 x 5	32 x 5	32 x 5	32 x 5
	I (A)	400	400	400	390	380	370
NSX400N/H/L with Vigi	Size per phase	32 x 5	32 x 5	32 x 5	32 x 5	32 x 5	32 x 5
	I (A)	400	390	380	370	360	350
NSX400N/H/L withdrawable	Size per phase	32 x 5	32 x 5	32 x 5	32 x 5	32 x 5	32 x 5
	I (A)	400	390	380	370	360	350
NSX630N/H/L fixed	Size per phase	32 x 6	32 x 6	32 x 6	32 x 6	32 x 6	32 x 6
	I (A)	630	615	600	585	570	550
NSX630N/H/L Vigi or withdrawable	Size per phase	32 x 8	32 x 8	32 x 8	32 x 8	32 x 8	32 x 8
	I (A)	570	550	535	520	505	490

Note: the values indicated above have been validated for Prisma Plus switchboards.

Compact NSX100 to NSX250

Horizontal mounting

Determining the permissible current of NSX100 to NSX630 connection and power supply blocks as a function of the ambient temperature around the switchboard and their IP degree of protection.

Device				Permissible current (A)											
				Ambient temperature around the switchboard											
				25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
				IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
NSX100 TMD-TMG	Incoming connection block	via the top	04066	100	95	100	92	100	90	97	87	95	85	92	■
		via the bottom	04067												
	Power supply block			04060											
NSX100STR	Incoming connection block	via the top	04066	100	100	100	97	100	95	100	92	100	90	97	■
		via the bottom	04067												
	Power supply block			04060											
NSX160 TMD-TMG	Incoming connection block	via the top	04066	160	152	160	147	160	144	156	140	152	136	147	■
		via the bottom	04067												
	Power supply block			04060											
NSX160STR	Incoming connection block	via the top	04066	160	160	160	156	160	152	160	147	160	144	156	■
		via the bottom	04067												
	Power supply block			04060											
NSX250 TMD-TMG	Incoming connection block	via the top	04066	238	213	231	207	225	200	219	193	213	185	207	■
		via the bottom	04067												
	Power supply block			04060											
NSX250STR	Incoming connection block	via the top	04066	250	219	245	213	238	207	225	200	219	193	213	■
		via the bottom	04067												
	Power supply block			04060											
NSX400N/H/L fixe	Incoming conn. block		04076	400	360	390	350	380	340	370	330	360	320	350	■
	Power supply block			04070											
NSX630N/H/L fixe	Incoming conn. block		04076	570	520	555	505	540	490	525	470	510	450	495	■
	Power supply block			04071											

■ connection not possible.

The indicated performance characteristics are valid for:

- Compact NSX100/160/250/400 circuit breakers used as incoming or outgoing devices
- Compact NSX630 circuit breakers used as incoming device.

Note: the values indicated above have been validated for Prisma Plus switchboards.

Cables

Practical guidelines

Schneider Electric provides cabling recommendations according to the rating of the circuit breaker.

The size of cables must be selected according to:

- the level of current
- the ambient temperature around the conductors
- the degree of protection for the switchboard.

The tables below take into account the installation conditions for each type of device (permissible temperature at connection terminals, etc.).

They follow the temperature derating values for installed devices in all cubicles with cover panels rated IP ≤ 55.

- switchboard internal temperature 60 °C
- connections using copper cables.

For System G, the volumes, ratings and connection lengths are low.

Select the values in the “Cables tied together” column, according to the IP.

Connection of circuit breakers

Size of cables (mm ²)	Permissible current (A) Cables tied individually		Cable tied together	
	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
1.5	16	14	14	12
2.5	25	25	22	20
4	32	29	28	24
6	40	39	36	33
10	63	55	55	50
16	90	77	80	70
25	110	100	100	93
35	135	125	125	120
50	180	150		
70	230	190		
95	275	230		

Connection of other devices

Size of cables (mm ²)	Permissible current (A) Cables tied individually		Cable tied together	
	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
1.5	13	12	12	10
2.5	23	21	20	19
4	28	26	25	22
6	36	35	32	30
10	55	50	50	46
16	80	70	72	63
25	100	90	90	84
35	120	115	110	103
50	165	135		
70	210	176		
95	250	210		

Connection of NSX100 to 630 A

Device	NSX100	NSX160	NSX250
Size (mm ²)	25	50	95

Note: Schneider Electric recommends connecting NSX400/630 circuit breakers with insulated flexible bars or rigid bars. see page E-6.

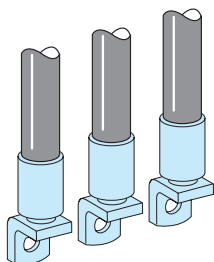
Note: the values indicated above have been validated for Prisma Plus switchboards.

Designing connections with cables

Tubular lugs

Tubular lugs for incoming connection blocks

D0382788



Maximum size of lugs for connection to the different incoming connection blocks.

	Standard Cu lugs	Narrow Cu lugs	Narrow bimetal lugs
Incoming connection block for NSX-INS250 supplied via the top or bottom, cat. no. 04066 and 04067	150 mm ²	240 mm ²	185 mm ²
In-duct incoming connection block for NSX630, cat. no. 04076	240 mm ²	300 mm ²	300 mm ²

Narrow bimetal lugs

Cat. no. selection

Cat. no.	Cable size (mm ²)	Quantity
Lugs for aluminium cable⁽¹⁾		
29504	150	3
29505	150	4
29506	185	3
29507	185	4
32504	240	3
32505	240	4
32506	300	3
32507	300	4

⁽¹⁾ Supplied with 2 or 3 interphase barriers.

Size of PEN protective conductor

Practical guidelines

The size of the PEN is determined in the same manner as a neutral conductor, i.e.:

- for copper single-phase circuits or sized $\leq 16\text{mm}^2$, it must be the same size as the phase conductors

- for copper three-phase circuits sized $> 16\text{mm}^2$, it can be:

- the same size as the phase conductors

- smaller on the condition that:

- the current likely to flow in the neutral during normal operation is less than the permissible current for the conductor
- the power rating of single-phase loads does not exceed 10% of the total rating.

The conductor must be accessible to enable connections both in the factory and on site, as well as checks on the tightness of connections.

Implementing the PEN protective conductor

Practical guidelines

According to standard IEC 60439-1, the practical guidelines for implementing the PEN are the following:

- at the entry to the assembly, the PEN connection must be next to the phase connections

- within the assembly, the PEN does not need to be insulated from the exposed conductive parts (except on sites where there is a risk of fire or explosion)

- the size of the conductor must be at least equal to that of the neutral

- the size must remain constant throughout the main busbars

- the change from a TNC to a TNS system must take place at a single point in the switchboard, via a marked neutral-disconnection bar that is accessible and can be dismantled to facilitate the impedance measurement of the fault loop

- after the TNS creation point, it is forbidden to recreate a TNC system.

The PE and the neutral must meet their specific requirements.

Selection of enclosures according to the premises

Enclosure characteristics

The IP and IK degrees of protection provided by an enclosure must be specified as a function of the various external influences defined by standard IEC 30364-5-51, in particular:

- presence of foreign solid bodies (code AE)
- presence of water (code AD)
- mechanical stress (code not specified)
- capability of persons (code BA)
-

Prisma Plus switchboards are designed for indoor installation.

Unless the rules, standards and regulations of a specific country stipulate otherwise, Schneider Electric recommends the following IP and IK values based on French guide UTE C 15-103 (March 2004).

Using the table

- 1 Opposite the relevant premises, read the recommended IP and IK values.
- 2 The ■ symbol indicates the enclosure or cubicle satisfying the criteria of the UTE guide.
Any enclosure or cubicle with a higher degree of protection can also be used.
- 3 If several degrees of protection are possible (refer to the standard for more details) and the □ and ■ symbols are indicated (e.g. 24[□]/25[■]), enclosures that correspond to the higher degree of protection (■) are suitable for the lower degree of protection (□).

Example:

Selection of an enclosure for a laundry room.

Minimum degree of protection: IP21/IK02

A wall-mounted enclosure with a door (plain or transparent), a canopy and a gasket offer IP31/IK08 degrees of protection and are therefore suitable for this application.

Type of premises	Enclosure or cubicle					
	Wall-mounted enclosure	without door	with door	with door + canopy	with door + canopy + gasket	IP55
	Floor-standing enclosure	without door	with door	with door + canopy	with door + canopy + gasket	
	Cubicle	with fixed frame	with door + IP30 cover	with door + gasket + IP30 cover		with door + IP55 cover
Min. IP/IK required		IP30/IK07	IP30/IK08	IP31/IK08	IP43/IK08	IP55/IK10
	IP	IK				
Domestic or comparable premises or locations						
Porch	24	07				■
Bathrooms (see washrooms)						
Bicycles, motorcycles, tricycles, etc. (premises for)	20	07	■			
Water, sewer and heating connections	23	02			■	
Laundries	21	02		■		
Cellars, garages, furnace rooms	20	02/07	■			
Bedrooms	20	02	■			
Trash rooms	25	07				■
Halls in cellars	20	07	■			
Courtyards	24/25	02/07				■
Kitchens	20	02	■			
Shower rooms (see washrooms)						
Indoor stairways and alleys	20	02/07	■			
Outdoor stairways and outdoor alleys without roofs	24	07				
Outdoor alleys with roofs	21	02		■		
Attics (roof space)	20	02	■			
Garden shelters	24/25	02/07				■
Latrines	20	02	■			
Dustbin rooms	25	02/07				■
Ironing room	20	02	■			
Access ramps to garages	25	07				■

Selection of enclosures according to the premises

Enclosure characteristics

Type of premises		Enclosure or cubicle					
		Wall-mounted enclosure	with door	with door	with door + canopy	with door + canopy + gasket	IP55
		Floor-standing enclosure	with door	with door	with door + canopy	with door + canopy + gasket	
		Cubicle	with fixed frame	with door + IP30 cover	with door + gasket + IP30 cover		with door + IP55 cover
		Min. IP/IK required	IP30/IK07	IP30/IK08	IP31/IK08	IP43/IK08	IP55/IK10
		IP	IK				
Washrooms, rooms containing a bathtub or shower	volume 0	27	02				
	volume 1	24	02				■
	volume 2	23	02			■	
	volume 3	21	02		■		
Lounges, living rooms, etc		20	02	■			
Drying rooms		21	02			■	
Covered terraces		21	02			■	
WCs		20	02	■			
Verandas		20	02	■			
Crawl spaces		23	07			■	
Commercial premises and adjoining areas							
Gunsmiths (storage area, workshop)		30	08		■		
Laundries (wash room)		24	07				■
Butchers	shop	24	07				■
	cold room ≤ -10 °C	23	07			■	
Bakers, cake shops (kitchens)		50	07				■
Coffee roasters		21	02			■	
Coal, wood, oil		20	08		■		
Delicatessen (production)		24	07				■
Sweets (production)		20	02	■			
Shoe repair shops		20	02	■			
Dairies		24	02				■
Hardware stores (storage areas for chemicals and paint)		33	07			■	
Wood workers		50	07				■
Art galleries		20	02/07	■			
Florists		24	07				■
Furriers		20	07	■			
Fruit and vegetable merchants		24	07				■
Grain shops		50	07				■
Bookshops, stationers		20	02	■			
Motorcycle and bicycle repairs and accessories		20	08		■		
Messenger services		20	08		■		
Furniture shops (antiques, second-hand)		20	07	■			
Glass and mirror merchants (workshop)		20	07	■			
Wallpaper shop (storage area)		20	07	■			
Cosmetics shop (storage area)		20	02	■			
Chemists (storage area)		20	02	■			
Photographers (dark room)		23	02			■	
Plumbers (storage area)		20	08		■		
Fishmongers		25	07				■
Dry cleaners		23	02			■	
Hardware stores (without paint, chemicals, etc.)		20	07	■			
Locksmiths		20	07 ² /08 ²	□	■		
Vintners, spirits		20	07	■			
Interior decorator (carding)		50	07				■
Tailors, clothing retailers (storage area)		20	02	■			
Pet care		35	07				■

Selection of enclosures according to the premises

Enclosure characteristics

Type of premises		Enclosure or cubicle					
		Wall-mounted enclosure	without door	with door	with door + canopy	with door + canopy + gasket	IP55
		Floor-standing enclosure	without door	with door	with door + canopy	with door + canopy + gasket	
		Cubicle	with fixed frame	with door + IP30 cover	with door + gasket + IP30 cover		with door + IP55 cover
		Min. IP/IK required	IP30/IK07	IP30/IK08	IP31/IK08	IP43/IK08	IP55/IK10
		IP	IK				
Buildings open to the general public							
Shared premises of buildings open to the general public	storage rooms	20	08		■		
	packing rooms	20	08		■		
	archive rooms	20	02	■			
	film and magnetic media storage	20	02	■			
	linen rooms	20	02	■			
	laundry rooms	24	07				■
	misc. shops	21	07/08			■	
	kitchens (large)						
J	Reception old and handicapped people	20	02	■			
L	Lecture halls, meeting rooms, auditoriums, halls used for several purposes	20	02/07	■			
	stage areas	20	08		■		
	scenery storage rooms	20	08		■		
M	costume rooms	20	07	■			
	Retail premises, shopping malls	20	08		■		
	sales premises	20	08		■		
	areas for storage and handling of packing	20	08		■		
N	Restaurants and cafes	20	08		■		
O	Hotels and boarding houses	20	02	■			
P	Dance halls and gaming parlours	20	07	■			
R	Teaching establishments, holiday camps	20	02	■			
	classrooms	20	02	■			
S	dormitories	20	08		■		
	Libraries and documentation centres	20	02	■			
T	Exhibitions	20	02	■			
	halls and rooms	20	02	■			
U	Healthcare establishments	20	07	■			
	bedrooms	20	02	■			
	incineration	21	07/08			■	
	operating rooms	20	07	■			
	centralised sterilisation	24	02/07				■
	pharmacies and labs with more than 10 l of inflammable liquids	21 ² /23 ²	02 ² /07 ²			□	■
V	Places of worship	20	02	■			
W	Administrative premises, banks	20	02	■			
X	Indoor sports facilities	20	07 ² /08 ²	□	■		
	halls	21	08			■	
	premises containing refrigeration facilities						
Y	Museums	20	02	■			
PA	Covered open air facilities	23 ² /25 ²	08 ² /10 ²			□	■
CTS	Marquees and tents	44	08				■
SG	Inflatable structures	44	08				■
PS	Covered parking lots	21	08 ² /10 ²			□	■

Selection of enclosures according to the premises

Enclosure characteristics

Type of premises	Enclosure or cubicle					
	Wall-mounted enclosure	without door	with door	with door + canopy	with door + canopy + gasket	IP55
	Floor-standing enclosure	without door	with door	with door + canopy	with door + canopy + gasket	
	Cubicle	with fixed frame	with door + IP30 cover	with door + gasket + IP30 cover		with door + IP55 cover
	Min. IP/IK required	IP30/IK07	IP30/IK08	IP31/IK08	IP43/IK08	IP55/IK10
	IP	IK				
Technical premises						
Battery rooms	23	02/07				■
Lifts (machine rooms and pulley rooms)	20	07 [□] /08 [■]	□	■		
Electrical rooms	20	07	■			
Control rooms	20	02	■			
Workshops	21 [□] /23 [■]	07 [□] /08 [■]			□	■
Laboratories	21 [□] /23 [■]	02 [□] /07 [■]			□	■
Air conditioning washers	24	07				■
Garages (used exclusively for parking vehicles) of an area not exceeding 100 m ²	21	07			■	
Machine rooms	31	07/08			■	
Water pressurisers	23	07/08				■
Boiler houses and adjoining premises (power in excess of 70 kW)						
Boiler rooms	coal fuel	51 [□] /61 [■]	07 [□] /08 [■]			
	other fuel	21	07/08		■	
	electrical	21	07/08		■	
Fuel storage areas	coal	50 [□] /60 [■]	08			□
	oil	20	07 [□] /08 [■]	□	■	
	liquefied gas	20	07 [□] /08 [■]	□	■	
Cinder tips	50	08				■
Pump rooms	21 [□] /23 [■]	07 [□] /08 [■]			□	■
Pressure reduction rooms (gas)	20	07 [□] /08 [■]	□	■		
Steam or hot water facilities	21 [□] /23 [■]	07 [□] /08 [■]			□	■
Expansion vessel rooms	21	02			■	
Garages and car parks of an area exceeding 100 m²						
Parking lots	21	07 [□] /10 [■]			□	■
Carwash areas (inside premises)	25	07				■
Petrol stations	inside	21	07		■	
	outside					
Lubrication areas	23	08				■
Battery recharging areas	23	07				■
Workshops	21	08			■	
Public building (other than for the general public)						
Offices	20	02	■			
Libraries	20	02	■			
Archives	20	02	■			
Computer rooms	20	02	■			
Design offices	20	02	■			
Rooms containing reprographic machines	20	02	■			
Sorting rooms	20	07	■			
Refectories in restaurants or canteens	21	07			■	
Large kitchens						
Sports rooms	20	07 [□] /08 [■]	□	■		
Barracks	20	07	■			
Meeting rooms	20	02	■			
Waiting rooms, lounges, halls	20	02	■			
Medical consulting rooms, not fitted with specific equipment	20	02	■			
Demonstration and exhibition rooms	20	02/07	■			

Selection of enclosures according to the premises

Enclosure characteristics

Type of premises	Enclosure or cubicle					
	Wall-mounted enclosure	without door	with door	with door + canopy	with door + canopy + gasket	IP55
	Floor-standing enclosure	without door	with door	with door + canopy	with door + canopy + gasket	
	Cubicle	with fixed frame	with door + IP30 cover	with door + gasket + IP30 cover		with door + IP55 cover
	Min. IP/IK required	IP30/IK07	IP30/IK08	IP31/IK08	IP43/IK08	IP55/IK10
	IP	IK				
Farm premises or locations						
Alcohol (storage)	23	07				■
Closed cattle sheds	35	07				■
Laundries	24	07				■
Wood storage rooms	30	10				■
Threshing floors	50	07				■
Distilling cellars	23	07				■
Vat rooms (wine)	23	07				■
Courtyards	35	07				■
Poultry barns	35	07				■
Stables	35	07				■
Fertiliser (storage)	50	07				■
Stables	35	07				■
Manure heaps	24	07				■
Haylofts	50	07				■
Haystacks, forage (storage)	50	07				■
Granaries, barns	50	07				■
Straw (storage)	50	07				■
Greenhouses	23	07				■
Grain silos	50	07				■
Milking rooms	35	07				■
Pig sties	35	07				■
Chicken houses	35	07				■
Miscellaneous installations						
Fair facilities	33	08				■
Water treatment facilities	24/25	07/08				■
Thermodynamic installations, air-conditioned rooms and cold rooms						
Height above ground	from 0 to 1.10 m	25	07			■
	from 1.10 to 2 m	24	07			■
	above 2 m under evaporator or water drain pipe	21	07			■
	ceiling and up to 10 cm underneath	23	07			■
Temperature ≤ -10 °C	23	07				■
Compressor room	room	21	08			■
	integral unit located outside or on a terrace	34	08			

Selection of enclosures according to the premises

Enclosure characteristics

Type of premises	Enclosure or cubicle					
	Wall-mounted enclosure	without door	with door	with door + canopy	with door + canopy + gasket	IP55
	Floor-standing enclosure	without door	with door	with door + canopy	with door + canopy + gasket	
	Cubicle	with fixed frame	with door + IP30 cover	with door + gasket + IP30 cover		with door + IP55 cover
	Min. IP/IK required	IP30/IK07	IP30/IK08	IP31/IK08	IP43/IK08	IP55/IK10
	IP	IK				
Industrial facilities						
Slaughter houses	55	08				■
Batteries (manufacture)	33	07				■
Acid (manufacture and storage)	33	07				■
Alcohol (manufacture and storage)	33	07				■
Aluminium (manufacture and storage)	51	08				■
Livestock (raising, fattening and sale)	45	07				■
Asphalt and bitumen storage	53	07				■
Wool beating and carding	50	08				■
Industrial laundry	24/25	07				■
Wood (processing)	50	08				■
Meat packers	24/25	07				■
Bakeries	50	07				■
Breweries	24	07				■
Brickworks	53	08				■
Rubber (production and processing)	54	07				■
Carbide (manufacture and storage)	51	07				■
Ammunition factories	53	08				■
Carton board (production)	33	07			■	
Quarries	55	08				■
Celluloid (manufacture of objects)	30	08		■		
Cellulose (manufacture)	34	08				■
Coal (depots)	53	08				■
Pork products	24/25	07				■
Boiler-making works	30	08		■		
Lime kilns	50	08				■
Rag (storage)	30	07	■			
Chlorine (manufacture and storage)	33	07			■	
Chrome-plating	33	07			■	
Cement works	50	08				■
Coking plant	53	08				■
Adhesives (production)	33	07			■	
Bottling lines	35	08				■
Liquid fuels (storage)	31 [□] /33 [■]	08			■	
Fats (processing)	51	07			□	■
Leather (tanning and storage)	31	08			■	
Copper (ore processing)	31	08			■	
Paint stripping	54	08				■
Detergents (manufacture)	53	07				■
Distilleries	33	07			■	
Electrolysis	33	08			■	
Ink manufacturing	31	07			■	
Fertilisers (manufacture and storage)	53	07				■
Explosives (manufacture and storage)	55	08				■
Iron (production and processing)	51	08				■
Spinning mills	50	07				■
Furriers (beating process)	50	07				■
Cheese factories	25	07				■
Gas (production and storage)	31	08			■	
tar (processing)	33	05			■	
Seed production	50	07				■
Metal engraving	33	07			■	
Oils (extraction)	31	07			■	
Petroleum products (manufacture)	33 [□] /34 [■]	08			□	■
Printworks	20	08		■		

Selection of enclosures according to the premises

Enclosure characteristics

Type of premises	Enclosure or cubicle					
	Wall-mounted enclosure	without door	with door	with door + canopy	with door + canopy + gasket	IP55
	Floor-standing enclosure	without door	with door	with door + canopy	with door + canopy + gasket	
	Cubicle	with fixed frame	with door + IP30 cover	with door + gasket + IP30 cover		with door + IP55 cover
	Min. IP/IK required	IP30/IK07	IP30/IK08	IP31/IK08	IP43/IK08	IP55/IK10
	IP	IK				
Industrial establishments (continued)						
Dairies	25	07				■
Public wash-houses	25	07				■
Liqueurs (production)	21	07			■	
Halogenated liquids (use)	21	08			■	
Inflammable products (storage and workshops where they are used)	21	08			■	
Magnesium (production, storage and use)	31	08			■	
Machine rooms	20	08	■			
Plastics (production)	51	08				■
Cabinet makers	50	08				■
Metals (processing)	31 [□] /33 [■]	08		□	■	
Combustion engines (testing of)	30	08	■			
Ammunition storage	33	08			■	
Nickel (ore processing)	33	08			■	
Household waste (processing)	54	07				■
Paper (production)	33 [□] /34 [■]	07			□	■
Paper (storage)	31	07		■		
Perfume (production and storage)	31	07		■		
Pulp mill	34/35	07				■
Paint (production and storage)	33	08			■	
Plaster (processing and storage)	50	07				■
Gunpowder factory	55	08				■
Chemicals (production)	30 [□] /50 [■]	08	□			■
Oil refineries	34/35	07				■
Salt preserve factories	33	07			■	
Soap (production)	31	07		■		
Saw mills	50	08				■
Metalwork shops	30	08	■			
Grain or sugar silos	50	07				■
Silk and artificial hair factories	50	08				■
Sodium carbonate (processing and storage)	33	07			■	
Sulphur (processing)	51	07				■
Spirits (storage)	33	07			■	
Sugar mills	55	07				■
Tanners	35	07				■
Dye works	35	07				■
Textile and fabric (production)	51	08				■
Varnish (production and application)	33	08			■	
Glass works	33	08			■	
Zinc works	31	08		■		

Enclosure characteristics

Merlin Gerin enclosures comply with standard EN 50298 for empty enclosures. The sheet metal used for Merlin Gerin enclosures receives an anti-corrosion epoxy electrophoresis treatment and a coating of a thermosetting, polyester-resin-modified epoxy powder for colour and appearance. This two-coat system provides excellent finish and corrosion protection. The characteristics of this coating are much better than those of traditional epoxy powders:

- improved colour stability
- wider operating temperature range.

Mechanical properties of enclosures

Static load on doors, wall-mounted and floor-standing enclosures and

Cubicle	400 kg
Floor-standing enclosure	64 kg
Wall-mounted enclosure	48 kg
Cubicle door	12 kg
Floor-standing enclosure door	4 kg
Wall-mounted enclosure door	4 kg

Mechanical properties of powder coated surfaces

Test conditions

Test piece made of 1 mm thick steel sheet, degreased, iron phosphated, final rinsing with 100000 Ω cm DI water, 15 microns of anti-corrosion electrophoresis treatment and 35 microns of powder paint.

Adhesion (cross-hatch and pull-off)	class 0 required	(ISO 2409)
Impact strength ⁽¹⁾	> 1 kg/50 cm	(ISO 6272)
Mandrel bending test ⁽²⁾	< 10 mm	(ISO 6860)
Persoz hardness	300 s	(ISO 1522)

(1) No cracking of the paint film after dropping a weight of one kilogram on the test piece from a height of 50 centimetres.

(2) Film cracks over a length of 10 millimetres maximum.

Artificial ageing test on powder coating

Test conditions:

Two tests carried out on the same 1 mm thick steel sheet test piece.

■ cyclical damp-heat test:

- as per standard IEC 68-2-30
- six 24-hour cycles at temperatures higher than 40°C

■ continuous resistance to neutral salt mist:

- the tests were carried out over a period of 400 hours, far more than the 48 hours required by the standard for indoor installations
- as per standard IEC 68-2-11 and ISO 7253
- 400 hours without blistering for normal surface on test piece
- 250 hours for a scratched surface.

Evaluation of corrosion as per ISO 4628:

- adhesion: class ≤ 1
- blistering: degree 1 dim.1
- rusting: Ri 1
- cracking: class 1
- flaking imp. 1 dim. 1

Propagation of corrosion under scratch with respect to the scratch axis: 3 mm max.

Enclosure characteristics

Chemical properties of powder coating

Tests carried out at ambient temperature on phosphated test pieces coated with a 150 to 200 micron film.

Test duration (months)		2	4	6	8	10	12
Acids	Concentration						
	Acetic 20 %						
	Sulphuric 30 %						
	Nitric 30 %						
	Phosphoric 30 %						
	Hydrochloric 30 %						
	Lactic 10 %						
	Citric 10 %						
Bases	Soda 10 %						
	Ammonia 10 %						
Water	Distilled water						
	Seawater						
	Tap water						
	Diluted bleach						
Solvents	Petrol						
	High alcohols						
	Aliphatics						
	Aromatics						
	Ketones, esters						
	Tri-perchloroethylene						

 Film intact.

 Film damaged (blisters, yellowing, loss of shine).

Thermal management of switchboards

General

Thermal characteristics

A switchboard is designed for operation under normal ambient conditions. Most devices do not operation correctly outside a temperature range of -10 and +70°C.

It is therefore important to maintain the switchboard internal temperature within this temperature range by:

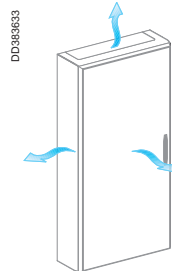
- correctly sizing the switchboard during design
- correcting the temperature using suitable means.

Management of the internal temperature

Cooling

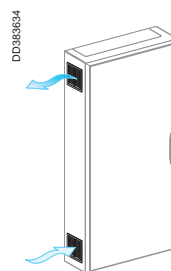
There are a number of way to dissipate heat from the switchboard. The drawings below present the various means.

Convection



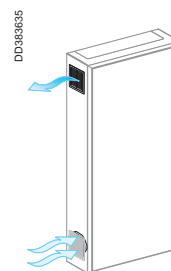
IP > 31

Ensured naturally in Prisma Plus enclosures



IP ≤ 31

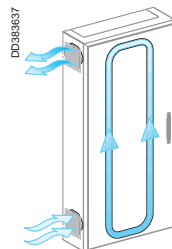
Forced-air ventilation



IP ≤ 54

Using fans, it significantly increases the thermal capacity of an enclosure.

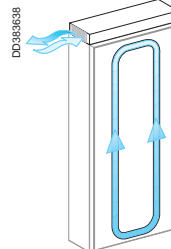
Forced-air ventilation with air-air exchanger



IP > 31

On special request.

Forced convection and cooling



IP > 31

For these extreme cases, many installers prefer to set up the switchboards with other electrotechnical and electronic devices in air-conditioned electrical rooms.

Heating

The means employed to raise the internal temperature in a switchboard is a resistor-based heater, used to:

- avoid condensation by limiting variations in temperature
- ensure that the switchboard does not freeze.

Calculation of the internal temperature

Calculation of the temperature is the means to check that the enclosure can evacuate the dissipated power of the installed devices.

Important note

Correct thermal management of the switchboard depends on compliance with the installation requirements for the distribution system (power circuits).

Incorrect installation will have major consequences on the connected device, but almost none on the internal temperature of the enclosure.

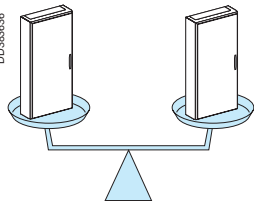
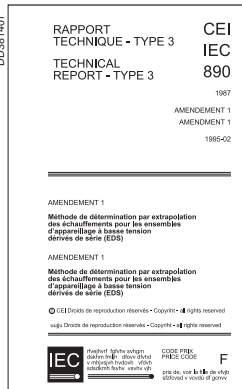
Once the circuit has been correctly sized, it is necessary to check whether the assembly (devices + distribution system + cables) have a level of dissipated power $P(W) \leq$ the $P(W)$ that the enclosure can handle.

Method defined by IEC 890 technical report

This IEC guide for switchboards proposes a calculation method to determine three levels of internal temperature, depending on the dissipated power of the devices and distribution blocks installed in the switchboard.

Users can consult this document when it is necessary to determine precisely the internal temperature in view of optimising the switchboard.

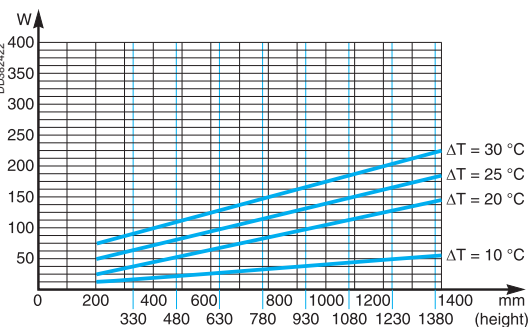
On request, Schneider Electric can carry out a thermal study to check that the installed assembly and the thermal capacity of the enclosure are compatible.



Comparative method

A number of qualified and tested configurations serve as the basis for indicating the thermal capacity of Prisma Plus enclosures.

This is an empirical means to check whether the dissipated power of the desired configuration is close to that of a tested configuration.



Method using charts taking into account enclosure characteristics

To speed up calculations, Schneider Electric produces charts based on the company's experience and a number of assumptions on the installation.

They can be used sufficiently precisely to determine the variations in temperature and the dissipated-power levels for the different types of wall-mounted enclosures, floor-standing enclosures and cubicles.

Comparative method

Pack enclosure, 3 rows, IP30

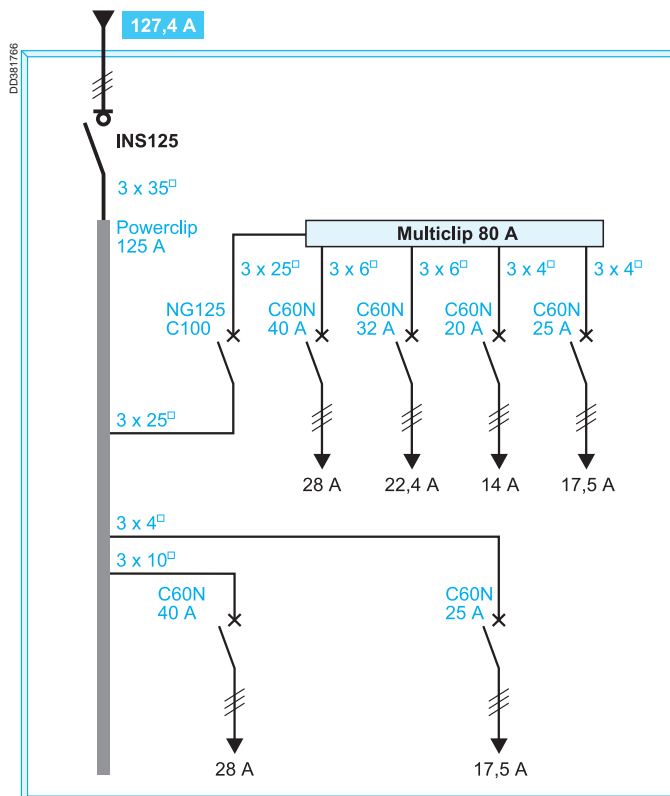
Diversity factor: 0.7

Ambient temperature around the switchboard: 35 °C

P(W) = 95 W

You will have no problems with your switchboard if:

- the volume of the enclosure is greater than that of the tested enclosure with a similar assembly
- the P(W) of the installed assembly is less than the P(W) of the tested configuration in the same size enclosure.

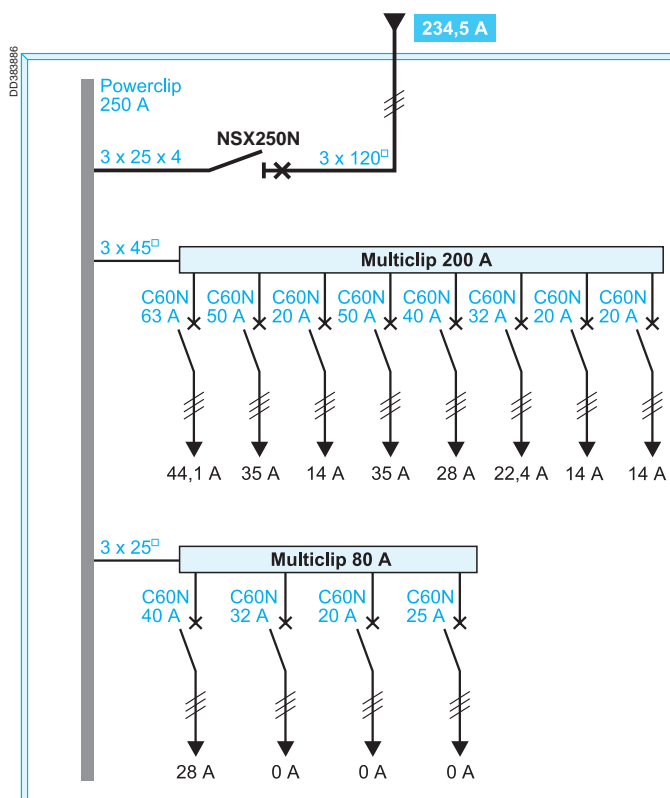


Wall-mounted enclosure, 23 modules, IP30

Diversity factor: 0.7

Ambient temperature around the switchboard: 35 °C

P(W) = 170 W



Thermal management of switchboards

Comparative method

Thermal characteristics

Comparative method

You will have no problems with your switchboard if:

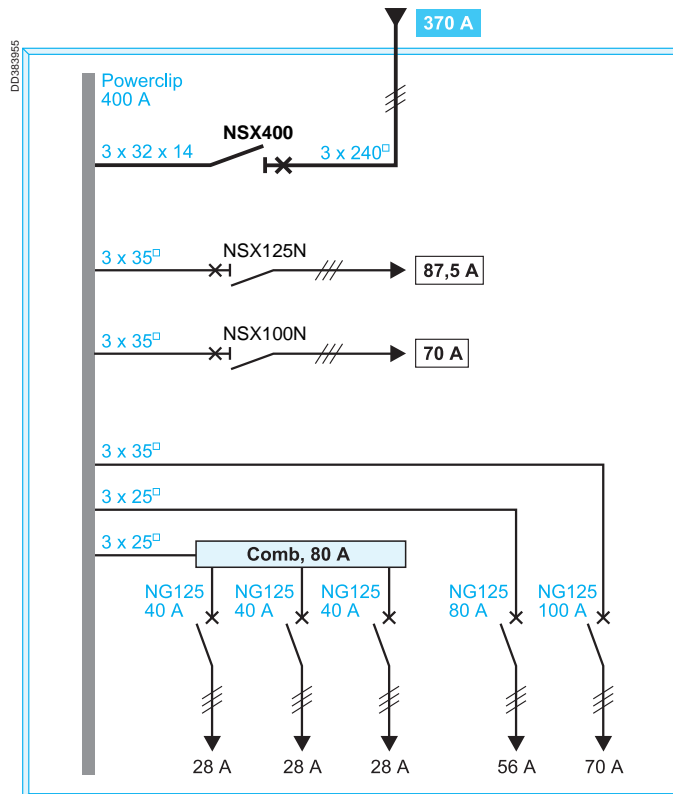
- the volume of the enclosure is greater than that of the tested enclosure with a similar assembly
- the P(W) of the installed assembly is less than the P(W) of the tested configuration in the same size enclosure.

Wall-mounted enclosure, 23 modules, plain door, IP30

Diversity factor: 0.7

Ambient temperature around the switchboard: 35 °C

P(W) = 200 W

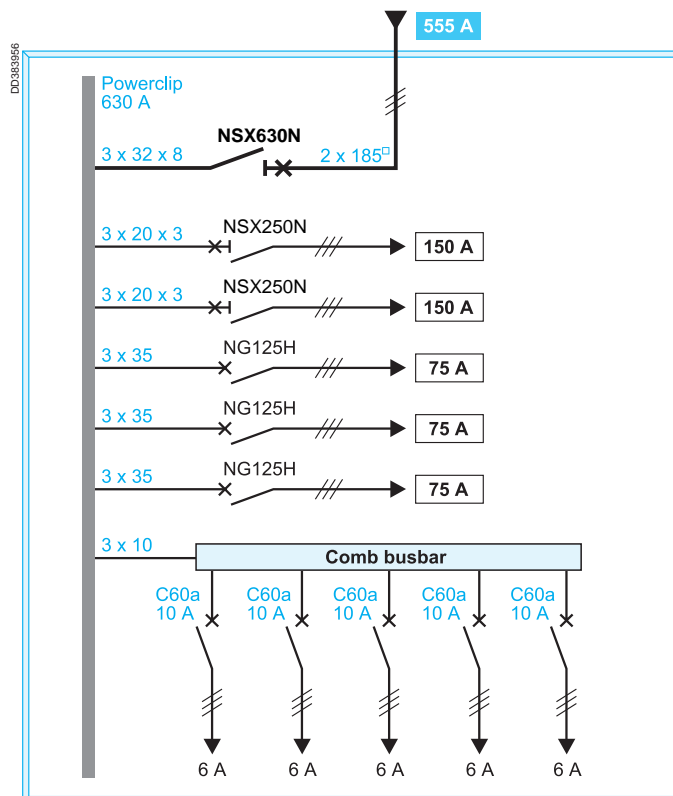


Floor-standing enclosure, 33 modules, IP30

Diversity factor: 0.7

Ambient temperature around the switchboard: 35 °C

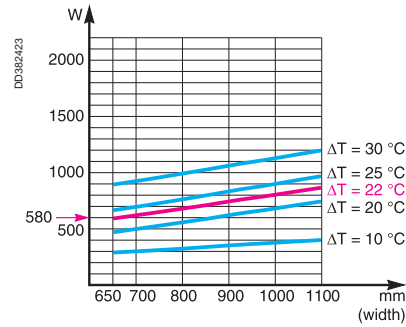
P(W) = 270 W



Thermal management of switchboards Example

Thermal characteristics

Once the dissipated power of the devices has been determined and the enclosure with its IP selected, transfer the results (sum of the dissipated power and width of the device zone) to the chart corresponding to the enclosure IP.



Draw a line parallel to the others on the chart and read the corresponding difference in temperature.

For the given example, the heat rise is 22°C at mid-height in the enclosure.

The internal temperature = external temperature + heat rise

$$= 35^{\circ}\text{C} + 22^{\circ}\text{C} = 57^{\circ}\text{C}$$

57°C < 60°C stipulated by the standard, i.e. the result is acceptable for an IP3 cubicle.

This gives roughly:

Internal temperature = 60°C at mid-height in the enclosure for a low IP value.

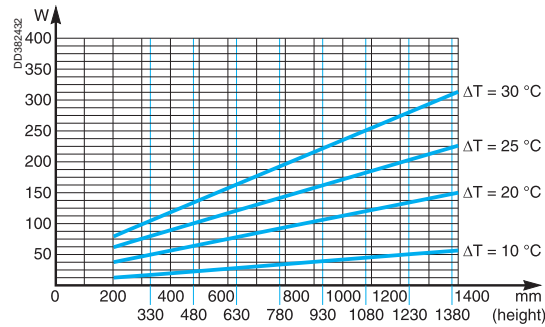
Internal temperature = 70°C at mid-height in the enclosure for a high IP value.

Thermal characteristics

Quick calculation charts for internal temperatures

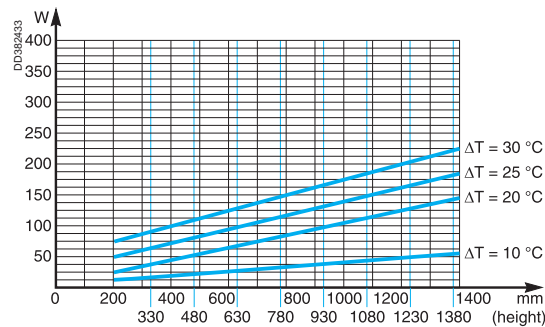
The indicated internal heat rise is that measured at mid-height in the enclosure.

IP3X wall-mounted enclosure



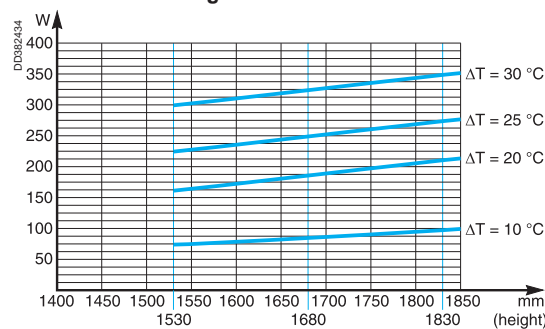
Test conditions:
600 mm wide enclosure mounted directly on wall without fixing lugs.

IP43 wall-mounted enclosure



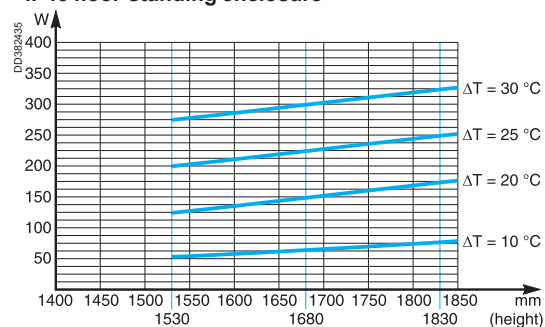
Test conditions:
600 mm wide enclosure mounted directly on wall without fixing lugs.

IP3X floor-standing enclosure



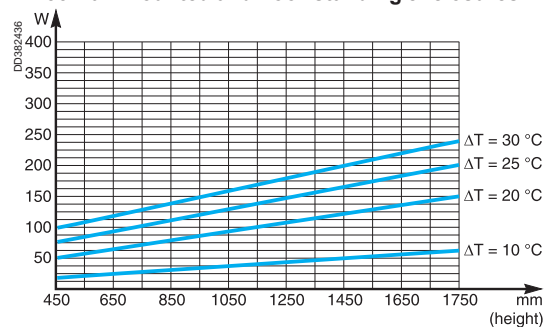
Test conditions:
600 mm wide enclosure on floor against a wall.

IP43 floor-standing enclosure



Test conditions:
Mounted on wall with fixing lugs or on mounting uprights.

IP55 wall-mounted and floor-standing enclosures



Test conditions:
600 mm wide enclosure mounted directly on wall without fixing lugs or mounting uprights.

Thermal management of switchboards

Ventilation

Thermal characteristics

Switchboard ventilation

The air enters the lower section via the fans and exits the upper section:

- through a ventilated roof
- or through a ventilation opening.

The air throughput of the fans is determined by the equation:

$$D = 3.1 \times \left(\frac{P}{\Delta T} - KS \right)$$

The chart below can be used to determine the necessary throughput, based on the dissipated power, the difference in temperature (internal - external) and the exposed surface area of the enclosure.

Example

Consider an IP3X cubicle, 650 mm wide and 400 mm deep, containing components (devices, connections, busbars, etc.) dissipating 1000 W.

The ambient temperature around the cubicle is 50°C.

Given that the average temperature at mid-height should not exceed 60°C, the difference in temperature ΔT is equal to 60 - 50 = 10°C.

The exposed surface of the cubicle (non adjacent to a wall or other cubicle) is 4.46 m².

(back = 1.3 m², front = 1.3 m², roof = 0.26 m², side panels = 1.6 m²).

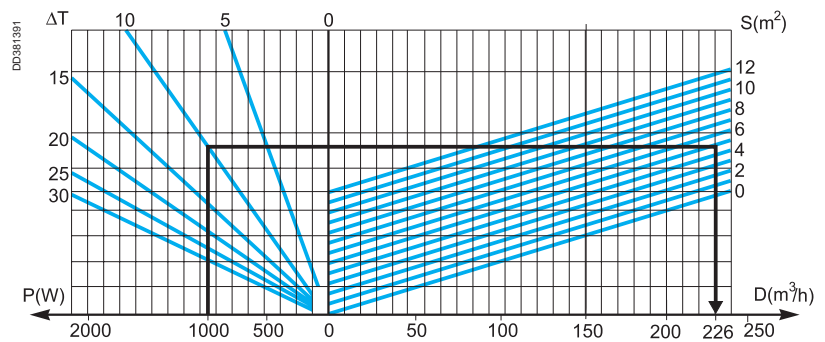
What is the necessary throughput of the ventilation system?

The throughput can be calculated as:

$$D = 3.1 \times \left(\frac{1000}{10} - 5.5 \times 4.46 \right)$$

D = 234 m³/h.

In the range of Prisma Plus accessories, select a system with a throughput of 300 m³/h.



Calculation data

P : power dissipated by the devices, connections and busbars (in Watts)

P_r : power of the heating resistor (in Watts)

T_m : maximum internal temperature in the device zone (in °C)

T_i : average internal temperature (in °C)

T_e : average external temperature (in °C)

$$\Delta T_m = T_m - T_e$$

$$\Delta T = T_i - T_e$$

S : total free surface area of the enclosure (expressed in m²)

K : thermal-conduction coefficient of the material (W/m² °C)

K = 5.5 W/m² °C for painted sheet metal

D : ventilation throughput (in m³/h)

Note: the dissipated power of each device is provided by the manufacturer. Add approximately 30 % to account for the connections and the busbars.

Thermal management of switchboards

Heating

Switchboard heating

The heating resistor, placed in the bottom of the switchboard, maintains the internal temperature 10°C higher than the external temperature. When the switchboard is not in operation, the heater compensates the dissipated power normally emitted by the switchboard.

The power of the heating resistor is calculated:

- using the equation: $P_r = (\Delta T \times S \times K) - P$
- or using the charts below, based on the exposed surface area of the enclosure and the desired difference in temperature.

Chart to determine the heating resistor for small wall-mounted enclosures (exposed surfaces ≤ 1 m²)

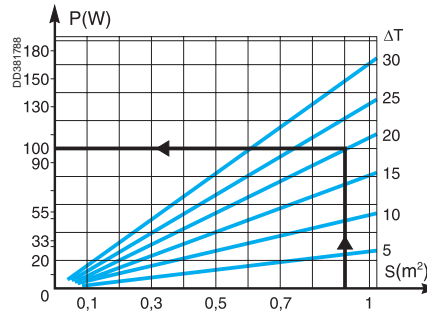
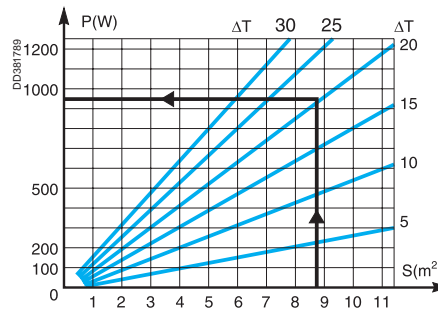


Chart to determine the heating resistor for all types of enclosures and cubicles



Calculation data

P : power dissipated by the devices, connections and busbars (in Watts)

P_r : power of the heating resistor (in Watts)

T_m : maximum internal temperature in the device zone (in °C)

T_i : average internal temperature (in °C)

T_e : average external temperature (in °C)

$$\Delta T_m = T_m - T_e$$

$$\Delta T = T_i - T_e$$

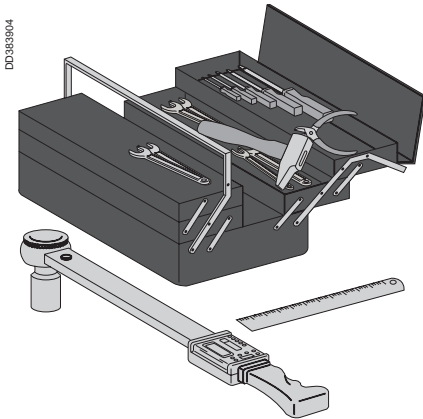
S : total free surface area of the enclosure (expressed in m²)

K : thermal-conduction coefficient of the material (W/m² °C)

K = 5.5 W/m² °C for painted sheet metal

D: ventilation throughput (in m³/h)

Note: the dissipated power of each device is provided by the manufacturer. Add approximately 30% to account for the connections and the busbars.



- Vacuum cleaner to clean the switchboards
- Ratchet wrench with sockets
- Torque wrench with sockets and ring bits to tighten the electrical connections to the correct torque (max. torque 50 Nm)
- Open-ended spanners (15 to 27 mm).
- Electrician's knife
- 7, 8, 10, 13, 16, 17 and 19 mm sockets
- Bit holder socket
- 4, 5, 6, 8 and 10 mm hexagonal-head bits
- Pozidriv no. 1, 2 and 3 bits
- Rubber mallet
- Level.
- Measurement and inspection tools and instruments
- Drill
- Semi-circuit nosed pliers
- Cable-tie pliers
- Wire stripper
- Crimping tool
- Diagonal cutter
- Wire cutters
- Flat-nosed pliers
- Bit holder for screwdriver
- Extension
- Electric saw
- Jig saw
- Clamp for cubicle alignment
- Buzzer or tester
- 3, 5, 4, 5.5 and 8 mm flat screwdrivers
- Posidriv no. 2 crosshead screwdriver (to mount handle)
- Hydraulic jacks that can be operated in horizontal position to lift cubicles and move them sideways if necessary.
- Coloured, indelible and temperature resistant acrylic varnish.
- Electric screwdriver

Note. A Facom brand torque wrench is available with a capacity of 75 Nm and a thin shape. It is recommended for tightening under difficult access conditions.

Part numbers:

- SP3723 = wrench handle (essential)
- SP3721 = extra-flat ratchet adapter (essential)
- SP3722 = ratchet for ordinary sockets (optional) for mounting on handle SP3723
- SP2709 = extra-flat 13 mm short socket
- SP2709A = extra-flat 13 mm long socket
- SP4369 = extra-flat 16 mm short socket
- SP4370 = extra-flat 16 mm long socket
- SP2710 = extra-flat 17 mm short socket
- SP4371 = extra-flat 19 mm short socket
- SP4372 = extra-flat 19 mm long socket

Cable sizes according to permissible current

Practical information

Schneider Electric provides cabling recommendations according to the rating of the circuit breaker.

The size of cables must be selected according to:

- the level of current
- the ambient temperature around the conductors
- the degree of protection of the switchboard.

The tables below take into account the installation conditions for each type of device (permissible temperature at connection terminals, etc.).

They follow the temperature derating values for installed devices in all cubicles with cover panels rated IP ≤ 55

- switchboard internal temperature is 60°C
- connections using copper cables.

Connection of circuit breakers

Size of cables (mm ²)	Permissible current (A) Cables tied individually		Cable tied together	
	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
1.5	16	14	14	12
2.5	25	25	22	20
4	32	29	28	24
6	40	39	36	33
10	63	55	55	50
16	90	77	80	70
25	110	100	100	93
35	135	125	125	120
50	180	150		
70	230	190		
95	275	230		

Connection of other devices

Size of cables (mm ²)	Permissible current (A) Cables tied individually		Cable tied together	
	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
1.5	13	12	12	10
2.5	23	21	20	19
4	28	26	25	22
6	36	35	32	30
10	55	50	50	46
16	80	70	72	63
25	100	90	90	84
35	120	115	110	103
50	165	135		
70	210	176		
95	250	210		

Connection of NSX100 to 630 A

Devices	NSX100	NSX160	NSX250
Size (mm ²)	25	50	95

Note: Schneider Electric recommends connecting NSX400/630 circuit breakers with insulated flexible bars or rigid bars
See page E-5.

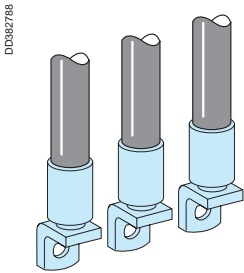
Note: the values indicated above have been validated for Prisma Plus switchboards.

Practical information

Tubular lugs for incoming connection blocks

Maximum size of lugs for connection to the different incoming connection blocks.

	Standard Cu lugs	Narrow Cu lugs	Bimetal narrow lugs
Incoming connection block for NSX-INS250 supplied via the top or bottom, cat. no. 04066 or 04067	150 mm ²	240 mm ²	185 mm ²
In-duct incoming connection block for NSX630 supplied via the top or bottom, cat. no. 04076	240 mm ²	300 mm ²	300 mm ²



D0382788

Narrow bimetal lugs

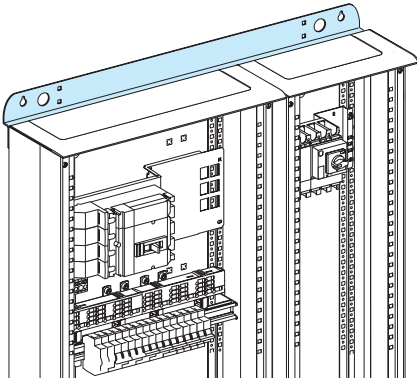
Cat. no. selection

Cat. no.	Cable size (mm ²)	Quantity
Lugs for aluminium cables⁽¹⁾		
29504	150	3
29505	150	4
29506	185	3
29507	185	4
32504	240	3
32505	240	4
32506	300	3
32507	300	4

(1) Supplied with 2 or 3 interphase barriers.

Practical information

DD382187



Cubicles must be stored in upright position in a dry and ventilated location, sheltered from rain, weather, dripping and running water, dust and chemical agents.

Apart from IP55 cubicles, never store enclosures outdoors, even under an awning or tarp.

The cubicles should if possible be left in their packing until they are installed. In this way they are protected against all risks that may be encountered on the site (impacts, splashes, etc.).

Acceptable storage temperatures are $-25\text{ }^{\circ}\text{C}$ to $+55\text{ }^{\circ}\text{C}$ (or up to $+70\text{ }^{\circ}\text{C}$ for short periods not exceeding 24 hours).

Given their heavy weight, cubicles should be stored on a stable, rigid and flat floor to avoid any risk of tipping during storage or handling.

Storage/Packing

Receiving the switchboard

On receipt of the equipment and before handling it, check that the cases and packing materials used for transportation have not been damaged and that all items on the packing list have been effectively delivered.

- Even if the packing appears to be in good condition, do not hesitate to unpack the equipment in the presence of an authorised transport agent.
- Check the contents and weights of the shipping units. Thoroughly check the equipment to make sure that no damage or shocks have occurred that could impair insulation or operation.
- If necessary, check that the information on the switchboard nameplate, located on the incoming cubicle, complies with the information indicated on the delivery slip.
- In case of damage or missing parts, inform the transport agent by registered mail.
- After this inspection, refit the plastic protective cover.

Each shipping unit is marked with:

- project number
- weight
- packing unit information (packing unit number and total quantity)
- position of the centre of gravity
- storage and handling instructions.

Standard packing

The cubicles are protected by a plastic cover in a crate.

The following accessories are attached inside the switchboard:

- installation accessories (lifting/fixing cross-members and external fixing lugs)
- preliminary installation accessories: plinth raisers
- additional nuts and bolts and other mounting hardware
- panels to be fitted after on-site connection: canopies, gland plates
- a set of drawings
- device user manuals
- a tube of Swiss white varnish.

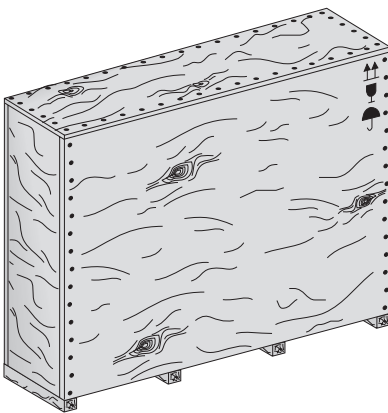
Sea packing

The cubicles are protected by a heat-sealed plastic cover containing desiccant bags and are installed in a ventilated wooden or plywood crate.

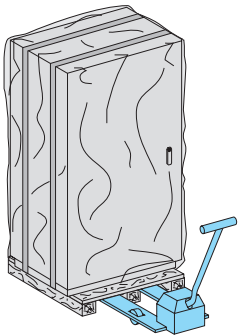
Sorting

In order to sort the different types of packing material, specific waste recovery bins are required.

DD383812

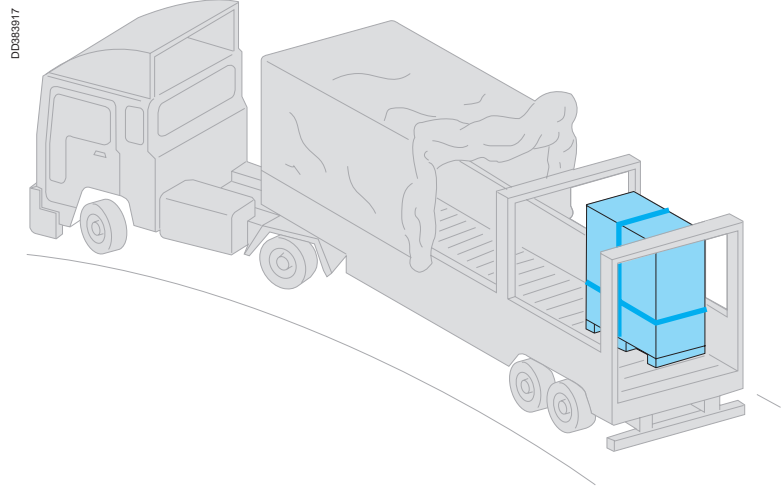


DD383813

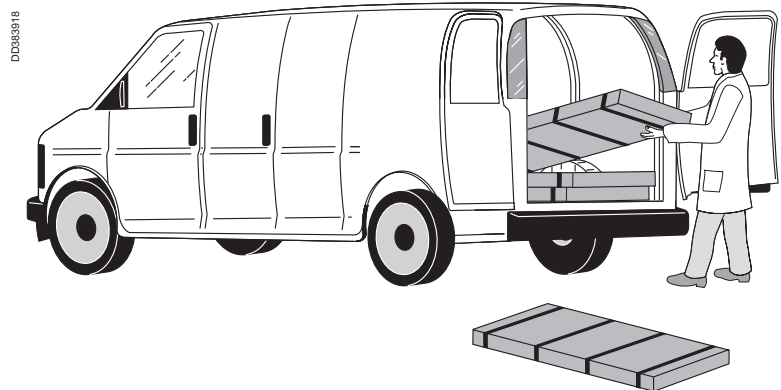


Practical information

After loading, check that the equipment is firmly secured in the truck to avoid any risk of damage during transport.



Enclosures supplied as kits should be transported horizontally if possible.



- To ensure protection of persons, first connect the switchboard protective conductor to the earth electrode.
- Tie the cables as close as possible to the connections to avoid any mechanical stresses on the device terminals. When not using cable glands, also attach the cables near to the cubicle entry point.
- Cables must never be in contact with or passed between live conductors.
- Sharp edges of the framework must be protected where cables pass to avoid damaging the conductors.
- Comply with a minimum radius of curvature of 6 to 8 times the cable outside diameter.
- All power connections must be made with class 8.8 mounting hardware and elastic contact washers, tightened to the torque indicated in the table below.
- When connecting aluminium cables to copper terminals, use bimetal lugs or interfaces.
- Separate the different types of circuits into separate cable bundles (power, control, 48 V, 24 V, DC, AC, etc).

Cable bundles

Cable cross-sectional area (mm ²)	Max. number of cables per bundle
CSA ≤ 10	8
16 < CSA ≤ 50	4
CSA ≥ 50	Tie individually

Tying the cable bundles

Type of tie	Maximum Icw (kA/rms 1s)	Distance between ties (mm)
Width: 4.5 mm Load: 22 kg	10	200
	15	100
	20	50
Width: 9 mm Load: 80 kg	20	350
	25	200
	35	100
	45	70

For cable sizes of 50 mm² or more, use 9 mm wide fixing ties.

Recommended tightening torque for mechanical and electrical connections with 8.8 class screws.

Diameter of screw	Tightening torque (Nm) (with nut + contact washer)
M3	1.5
M4	3.5
M5	7
M6	13
M8	28
M10	50
M12	75

Notes

Notes

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