



# Prisma G

**Catalogue 2019 Belgium**  
Wall-mounted  
and floor-standing enclosures  
for Electrical Distribution up to 630 A



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Wall-mounted and Floor-standing enclosures



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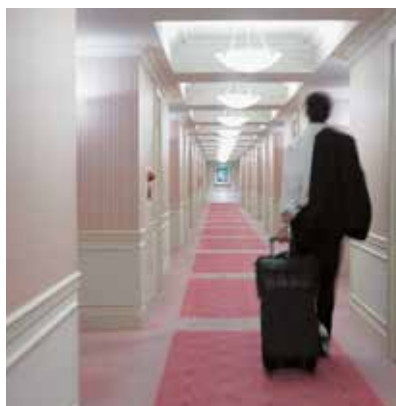
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Improve  
the continuity  
of service



Ensure the  
safety of life  
and property



Control  
deadlines  
and costs

# Prisma:

the optimised, tested and IEC compliant solution,  
for low voltage electrical distribution and control switchboards.

B



## Prisma, a comprehensive range of enclosures and cubicles

- > A solution based on more than **30 years of experience** in low voltage switchboards.
- > Integrating Schneider Electric switchgear offerings and ensuring electrical, mechanical and communication **functions complete consistency**.
- > Quality production, **certified ISO 9001** and manufactured in Montmélian (France).

Pack 160 A enclosures  
 Prisma Pack 250 A enclosures  
 Prisma G enclosures  
 IP30 / IP4X, IP55, up to 630 A



160 A

250 A

630 A

- Schools
- Small shops
- Hotels, etc.

Pack



- Small companies
- Buildings
- Offices
- Laboratories
- Healthcare centres
- Hotels
- Supermarkets
- Malls, etc.

Prisma G





# Prisma P cubicles up to 4000 A IP30, IP31, IP55

The optimised, tested and IEC compliant solution, for low voltage electrical distribution and control switchboards.



B

- Hospitals
- Data centres
- Logistics centres
- Shopping centres
- Offices buildings
- Medium industrial solutions

## Prisma P



# Simple, functional systems for safe, up to 630 A



## Switchboards that are safe...

With **Prisma G** you can be sure to build **100 % Schneider Electric** switchboards that are safe, optimised:

- > All components (switchgear, distribution blocks, prefabricated connections, etc.) are perfectly rated and coordinated to work together;
- > All switchboard configurations, even the most demanding ones, have been tested.

You can prove that your switchboard meets the current standards, at any time.

You can be sure to build a reliable electrical installation and give your customers full satisfaction in terms of dependability and safety for people.

## ...aesthetics

Prisma G with its discreet design, blends harmoniously into all tertiary buildings, including in entrance halls and passageways.



**Available** power

**Safety** of people and property

**Controlled** costs and delivery times

**Upgradeability**

# upgradeable LV switchboards

## ...optimised and upgradeable

With **Prisma G** you can build just the right switchboard for your customer, sized precisely to fit costs and needs. With this complete, prefabricated and tested system, it's easy to upgrade your installation and still maintain the performance levels.

- > The wall-mounted and floor-standing enclosures combine easily with switchboards already in service.
- > Devices can be replaced or added at any time.



**Simple**  
gestures for  
cabling in the  
workshop



All connection points are fully accessible and easy to check.

**Efficient**  
installation and  
connection  
work on site



Easy connection on site, whatever the cable cross-section or installation location.

**Easy**  
maintenance  
throughout the  
switchboard



Easy and direct access to devices, in a switchboard in service.

# The switchboard, central to the electrical installation

Both the point of arrival of energy and a device for distribution to the site applications, the LV switchboard is the intelligence of the system, central to the electrical installation.

It plays an essential role in the availability of electric power, while meeting the needs of personal and property safety. Its definition, design and installation are based on precise rules; there is no place for improvisation. The IEC 61439 standard aims to better define "low voltage switchgear and controlgear assemblies", ensuring that the specified performances are reached. It specifies in particular:

- > the responsibilities of each player, distinguishing those of the original equipment manufacturer; the organisation that performed the original design and associated verification of an assembly in accordance with the standard, and of the assembly manufacturer - the organisation taking responsibility for the finished assembly;
- > the design and verification rules, constituting a benchmark for product certification.

All the component parts of the electrical switchboard are concerned by the IEC 61439 standard. Equipment produced in accordance with the requirements of this switchboard standard ensures the safety and reliability of the installation.

**A switchboard must comply with the requirements of standard IEC 61439-1 and 2 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 61439-1 and 2.
- > 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 tested switchboards

**The conformity of the switchboard has been tested and proven.**

A Prisma switchboard is:

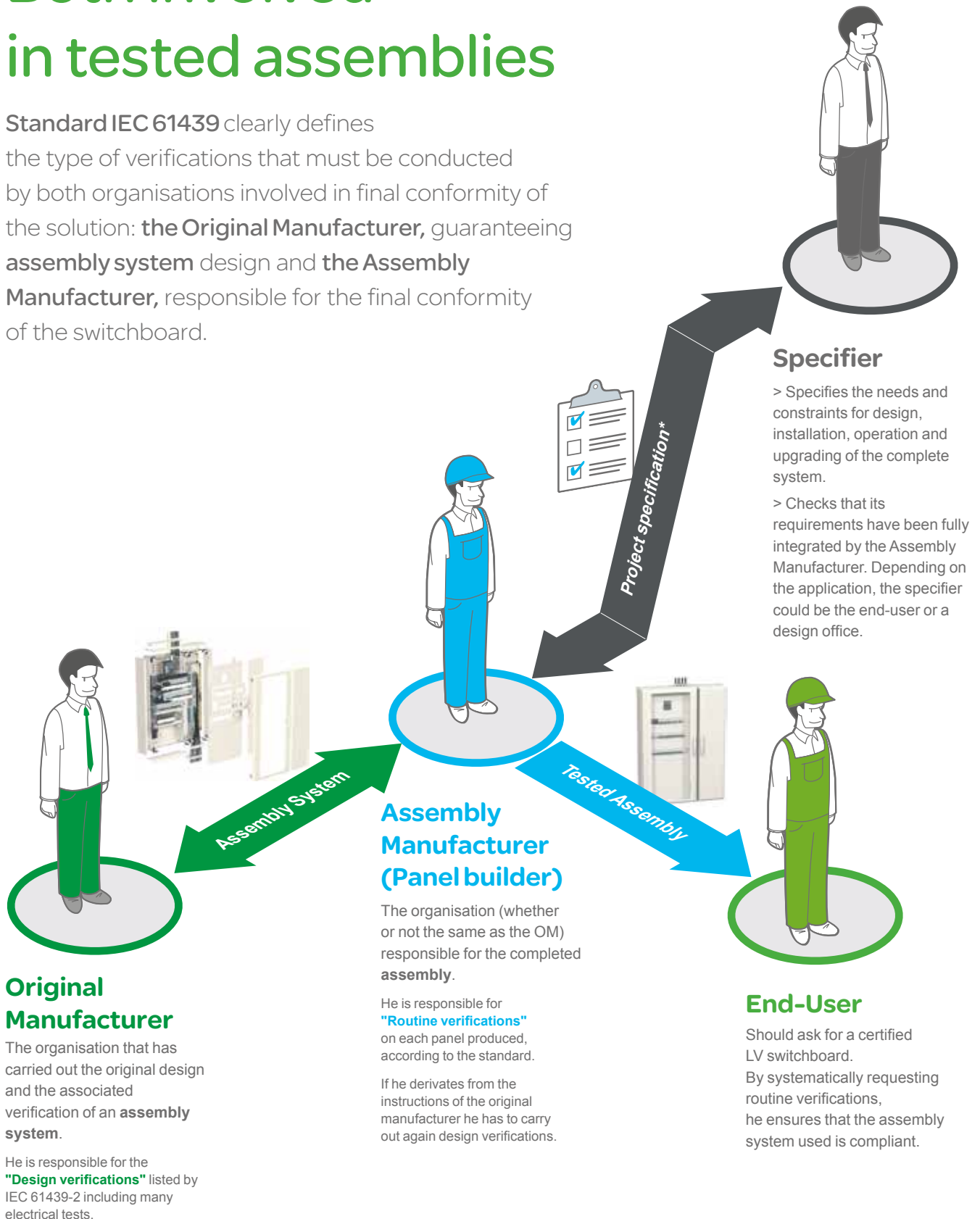
- > made up of Schneider Electric low voltage devices and components that all comply with the applicable standards;
- > based on configurations in our catalogue;
- > made up of Prisma and Linergy mechanical and electrical components that have been subjected to the verification of original equipment manufacturer;
- > mounted and wired by a panelbuilder in compliance with professional standards;
- > subjected to the individual verification.

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

Panelbuilders can demonstrate conformity with standard IEC 61439-1 and 2 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 individual routine verification and delivers the corresponding declarations of conformity.

# Original Manufacturer and Assembly Manufacturer: Both involved in tested assemblies

Standard IEC 61439 clearly defines the type of verifications that must be conducted by both organisations involved in final conformity of the solution: **the Original Manufacturer**, guaranteeing **assembly system** design and **the Assembly Manufacturer**, responsible for the final conformity of the switchboard.



B

# The main 10 functions of standard IEC 61439

For each of the following 10 functions, the standard IEC 61439 requires design verifications from the system manufacturer - mainly through type-tests - and routine verifications on each panel from the Panel Builder to achieve 3 basic goals: safety, continuity of service and compliance with end-user requirements.



## Safety

### Voltage stresses withstand capability

To withstand long term voltages, and transient and temporary overvoltages according to the insulation coordination principles and requirements.

### Current-carrying capability

To protect against burns and to withstand temperature rise:

- > when any circuit is continuously loaded, alone, to the specified current
- > when the **assembly** is loaded to the specified current according to the specified load pattern (between circuits and/or as a function of the time).

### Short-circuit withstand capability

To withstand the stresses resulting from the prospective short-circuit current and from the associated data (High forces between conductors, temp. rise in a very short time, air ionization, overpressure).

### Protection against electric shock

- > Hazardous-live-parts not to be accessible (basic protection)
- > Accessible conductive parts not to become hazardous-live (fault protection).

### Protection against risk of fire or explosion

- > Resistance to internal glowing elements
- > **Note:** protection of persons, and optional protection of the **assembly**, against arcing due to internal fault can be specified through a "special test" according to IEC 61641.



## Continuity of service

### Maintenance and modification capability

Capability to preserve continuity of supply without impairing safety during **assembly** maintenance or modification

- > Electrical condition of the **assembly** or various circuits
- > Speed of exchange of the functional units
- > Test facilities...

### Electro-Magnetic compatibility

To properly function (immunity) and not to generate EM disturbances (emission) in specified environmental conditions:

- > Industrial networks or locations (Environment A)
- > Domestic, commercial, and light industrial locations (Environment B).



## Compliance with end-user requirements

### Capability to operate the electrical installation

To properly function, according to:

- > The electrical diagram of the overall system and related information (voltages, coordination...)
- > The specified operating facilities (e.g. free or restricted access to Man Machine Interfaces, isolation of the outgoing circuits...).

### Capability to be installed on site

- > To withstand handling, transport, storage... and installation constraints
- > Capability to be erected and connected (type of enclosure, type, material and cross sectional areas of external conductors).

### Protection of the **assembly** against mechanical and atmospheric environmental conditions

- > Presence of water or solid foreign bodies (IP according to IEC 60529)
- > External mechanical impacts (optional IK according to IEC 62262)
- > Indoor or outdoor installation (humidity, UV).

**IEC 61439-1 paragraph 11.4****Protection against electric shocks and integrity of protection circuits**

The following should be checked visually:

- > presence of protective shields against direct and indirect contacts on live parts;
- > presence of the PE conductor.

The continuity of protection circuits is ensured by compliance with the assembly instructions delivered with each product.

**IEC 61439-1 paragraph 11.5****Integration of incorporated components**

The assembly manufacturer must comply with the instructions of the original equipment manufacturer for installation and wiring of the components used.

**IEC 61439-1 paragraph 11.6****Internal electric circuits and connections**

Schneider Electric recommends marking the nut with a tinted acrylic lacquer, indelible and temperature-resistant.

This allows:

- > not only self-checking to check effective tightening to torque;
- > but also identification of any loosening.

**IEC 61439-1 paragraph 11.9****Dielectric properties**

The main circuits, and the auxiliary and control circuits connected to the main circuit, shall be subjected to the test voltage in accordance.

**IEC 61439-1 paragraph 11.10****Wiring, operating performance and function**

Verification of wiring and marking conformity with the drawings, parts list and diagram.

# Standard individual check sheet

in accordance with the IEC 61439-1 and 2 standard from the assembly manufacturer (panelbuilder)

Job No.: .....

Switchboard No.: .....

Drawing No./Rev. No.: .....

	Chapter	Verified
Degrees of protection provided by enclosures	11.2	<input type="checkbox"/>
Insulation clearances and creepage distances	11.3	<input type="checkbox"/>
Protection against electric shocks and integrity of protection circuits	11.4	<input type="checkbox"/>
Integration of incorporated components	11.5	<input type="checkbox"/>
Internal electric circuits and connections	11.6	<input type="checkbox"/>
Terminals for external conductors	11.7	<input type="checkbox"/>
Mechanical operation	11.8	<input type="checkbox"/>
Dielectric properties	11.9	<input type="checkbox"/>
Wiring, operating performance and function	11.10	<input type="checkbox"/>

Date of verification:

..... / ..... / .....

Verifications performed by:

.....

B

The Prisma G 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

1 A metal structure

The switchboard is made up of one or more enclosures, combined width-wise and/or height-wise, with a choice of doors (plain or transparent).

2 A distribution system

A complete offer of centralised or row distribution blocks, with busbars in duct or on rear of enclosure, provides current distribution over the full height of the switchboard.

3 Complete functional units

Built around each device, the functional unit includes:

- a dedicated mounting plate for device installation
- a front plate to block direct access to live parts
- prefabricated busbar connections to connect devices to the busbar
- cable-running accessories can be clipped onto the back of double-profile modular rails.

Each functional unit contributes to a function in the switchboard. The system includes everything required for functional unit mounting, supply and connection.

The Prisma G and functional unit components, in particular, have been designed and tested according to device characteristics.

This design approach ensures a high degree of reliability in system operation and optimum safety.



Assets of Prisma switchboards

1 A dependable electrical installation

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

2 An upgradeable electrical installation

Thanks to modular design, Prisma switchboards can be easily modified 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.

3 Total safety for personnel

Work in a switchboard must be carried out by authorised persons in compliance with all applicable safety regulations.

To increase the safety of personnel, devices are installed behind protective front plates; only the operating handles are accessible.

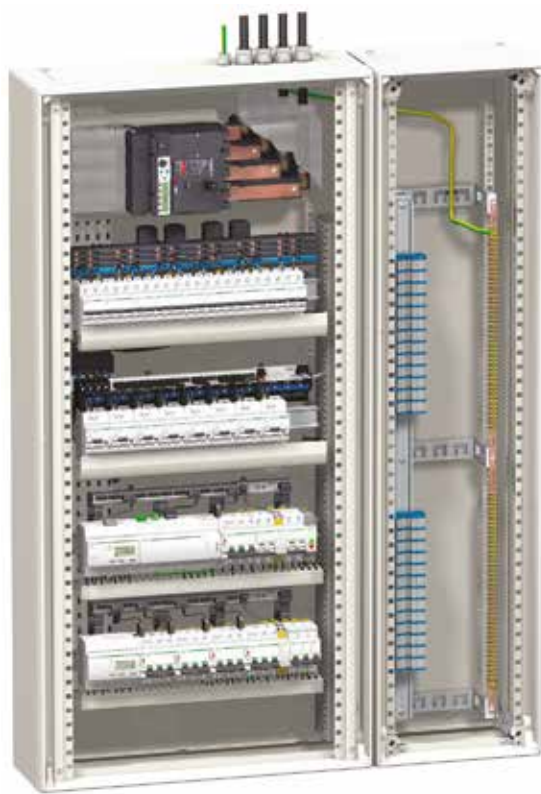
Additional internal protection (partitions, barriers) is available to protect against direct contact with live parts.

Terminal shields are mandatory for installing Compact NSX and INS/INV devices in Prisma for even more personnel safety.



## Electrical switchboards up to 630 A

System design has been validated by type tests as per standard IEC 61439-1 & 2 and benefits from the combined experience of Schneider Electric over many years.



### Ready available close by

The kit concept makes handling and transport easier and you get to benefit from Schneider Electric's efficient international logistics. Your distributor, hand-picked by Schneider Electric, can give you the very best advice.



### Electrical characteristics

Comply with IEC 62208 and EN 62208 standards:

- rated insulation of main busbars at rear of enclosure: 1000 V
- InA: 630 A
- rated peak withstand current Ipk: 53 kA
- rated short-time withstand current Icw: 25 kA rms / 1 second
- short-circuit current: 50 kA
- frequency: 50/60 Hz.



### Mechanical characteristics

- Steel sheet metal
- Electrophoresis treatment + hot-polymerised polyester epoxy powder, white colour RAL 9001.
- Enclosures supplied in kit form, totally dismantlable, designed to be assembled and wired horizontally on a work station.
- Can be combined side by side and one on top of another
- Degree of protection:
  - IP30: without door
  - IP40: with door
  - IP41: with door + canopy
  - IP43: with door + gasket + canopy
  - IP55: IP55 Prisma G offer, supplied in kit form
- degree of protection against mechanical impacts:
  - IK07: without door
  - IK08: with door (transparent)
  - IK10: with plain door
  - IK10: for Prisma G IP55
- Seismic characteristics: 2,5G without accessories
- Enclosure dimensions:
  - 3 widths:
    - W = 300: ducts  
10 modules width
    - W = 600: Wall-mounted and floor-standing enclosures,  
24 modules width
    - W = 850: Floor-standing enclosures  
36 modules width
  - depth with door:
    - enclosures G IP30: 250 mm
    - enclosures G IP55: 260 mm
  - heights:
    - Prisma G IP30: 12 heights: 330 mm to 1980 mm
    - Prisma G IP55: 7 heights: 450 mm to 1750 mm
- Inside switchboards.



Electrical switchboards built using the Prisma functional system and Schneider Electric recommendations fully comply with international standard IEC 61439-1&2.

# With Prisma, your solution is 100 % optimised



## Flexible design for building applications and their operation

Thanks to Prisma solutions, design offices can design and customise switchboards easily and quickly:

- > organisation by functional units, each corresponding to an application in the building (lighting, HVAC, lifts, etc.)
- > organisation by dedicated physical zones: one for functional units (switchgear, mounting plates, front plates), one for power distribution, and one for connections.

## 100 % dependable and optimised design, in compliance with costs and deadlines

By supporting design offices with the services and software tools (Ecodial, Rapsody...) needed to quickly design switchboards, we help them to highlight their professionalism: switchboards with tested architectures to meet the most stringent specifications.

Our tools and services also enable them to meet requirements concerning compliance with costs and deadlines: optimised selection of the appropriate components for each switchboard (switchgear, distribution systems, enclosures with perfect electrical and mechanical consistency), front panel design and fast cost studies.



# 100 %

of dedicated building switchboard architectures are tested in compliance with IEC standards and can be customised.

## Modular devices

Acti 9

NG125, C120 circuit breakers INS40/160 switch disconnecter



### Presentation

#### A double-profile modular rail offering a high level of performance

Made of an aluminium alloy with amagnetic properties, the rail design is extremely rigid. The rail supports are crimp mounted.

#### Fast mounting

The supports have positioning studs to guide the rail on the rear uprights. Only two mounting screws are required.

#### Multiple functions

A number of devices can be clipped directly onto the rails, including Linergy FM 80 and 200 A distribution systems, all horizontal cable-running accessories such as cable straps and trunking supports, as well as the supports for Linergy TB earth bars.

#### Supply from all directions

Supply to the rows, using Linergy FH comb busbars or Linergy FM distribution systems via:

- > Linergy BS or insulated busbar Linergy BW installed behind the devices.
- > Linergy BS busbar installed in the duct.

#### Centralised power supply

Via Linergy DX or DS distribution blocks, Linergy DP.



B



### Distribution

#### Linergy FM 80 and 200 A device feeders

- > Fast and secure front connection using spring terminals.
- > Reliable connections, with balanced tightening, 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 (IPxxB).

#### Linergy FH comb busbars

- > Direct connection to device terminals or via a connector.
- > Fully insulated.
- > Can be cut to length.

#### Linergy DX quick distribution blocks

- > See page D-10

#### Linergy DP distribution blocks

- > See page D-12

#### Linergy DS screw distribution blocks

- > See page D-14



### Cable running

#### Straps

- > Easy and fast to install.
- > Low cost.
- > Perfectly organised and integrated cable running.
- > Professional finish.
- > Mounting at the back of modular rail, very compact dimensions.

#### Trunking

- > Traditional solution.



## Upgradeable Prisma functional units = the best electrical + mechanical + communication consistency.

Functional units include switchgear mounting plates, front plates, connections, barriers for ensuring the best level of continuity of service, safety of life and property.



Compact NSX up to 630 A  
> page C-4



Easypact CVS/EZC from 100 to 630 A  
> page C-18



Compact NSXm  
> page C-4



Compact INS-INV250-630 A  
> page C-26



Compact INS 40 to 60  
> page C-36



Source changeover systems  
Compact NSX  
> page C-30



Source changeover systems  
Compact INS  
> page C-31



NG125, INS40 to 160,  
C120 - Acti 9  
> page C-32



Industrial control switchgears, metering  
> page C-36  
Human-switchboard interface  
> page C-38



# Compact NSX circuit breakers for Prisma G Source changeover system



## Presentation

### 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 or FDM128 display on the front of the Prisma 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.

### Integration of Compact NSX in Prisma

Installation of Compact NSX devices in a Prisma functional switchboard is very easy and made of a functional unit system:

- > dedicated mounting plates for Compact NSX offer
- > matching power connections Linergy DP distribution block and prefabricated connections, connection blocks, power supply blocks)
- > partitioning
- > compliance with the safety perimeter, by design.

### Installation architectures for the measurement function

Compact NSX circuit breakers equipped with Micrologic 5/6 A or E trip units provide measurements that can be read on the FDM 121 or FDM128 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 system with current transformers.

What is more, installation and connections are made easier because the FDM121 or FDM128 may be installed:

- > via a direct cut-out in a plain door
- > on the front of a W600 enclosure for one or four 96x96 devices
- > on partial door cut-out.

### A new front plate

The front of Compact NSX circuit breakers has an eye-pleasing curved profile, making Prisma switchboards even more attractive. Prisma front plates are designed for all types of controls (toggle, motor mechanism, rotary handle).



## Presentation



To ensure the supply of energy at all times, certain electrical installations are connected to two sources:

- > normal source S1
- > replacement source S2 which steps in to supply the installation if the normal source is not available.

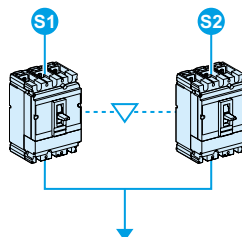
A mechanical and/or electrical interlocking system between two Compact switch-disconnectors or circuit breakers (or a mixture) avoids simultaneous connection of the two sources during switching.

In Prisma G, a manual changeover with mechanical interlocking of devices may be installed.

This is the simplest system. A human operator is required and consequently, the transfer from the normal source to the replacement source is delayed.

A manual source-changeover system comprises two or three manually controlled devices (circuit breakers or switch-disconnectors) that are mechanically interlocked.

The interlocking system avoids simultaneous connection (even transient) of the two sources.



For more information on the communication functions of Compact NSX, see the ULP system user manual, ref. TRV99100, and the Compact NSX catalogue, ref. LVPED208001\_EN. See catalogue "Compact, Masterpact source changeover systems", ref. LVPED21122EN





## Presentation

Get more out of your electrical panels with robust and ergonomic pushbuttons, switches.

Robust performance that can withstand even the most severe environments.



A touch of style electrical panels and machines.

Modern design for customizing new and existing enclosures to meet the requirements of customers.

New offers, taking smart panels to the next level.

The new USB and RJ45 ports offer you a simple, effective way to connect a PC or USB memory device right to the front plate of your machine enclosure to:

- > Export data
- > Update the PLC and HMI program
- > No need to open the door:
  - Eliminate electrical hazards
  - Keep dust out of the enclosure



## Standards

Harmony metal accessories for robust performance in all situations

From severe environments and potentially-explosive atmospheres, to extremely hot or cold temperatures, you can count on Harmony.

- > Compliance with international standards (IEC, UL, CSA, CCC, EAC, JIS)
- > Marine certified (BV, RINA, LROS, DNV, GL)
- > Sealing effectiveness rated (IP66, IP67, IP69, IP69K, Type 4X)
- > Operating temperature range of - 40 °C
- > to +70 °C
- > High impact resistance: up to IK06
- > High vibration resistance: shake-proof connector screws
- > Standard and low-load, high-power electrical contact

B



## Installation

The Harmony range for faster, simpler installation

Designed for efficiency that helps keep costs down.

- > Can be mounted with a single hand
- > Fastens with a single anti-rotation locking screw
- > Accessories compatible with the entire Harmony diameter 22 mm range



**Smart Panels:  
powerful technologies, easy to implement**

In addition to basic functions and enclosures, the Smart Panel solution is enhanced with new features for collecting and transmitting energy data from the main switchboard panel and all subpanels, making it a highly flexible and accurate energy management system. All the panels, from main, division to tertiary, are smart panels with data gathering and transmission functions).

**Smart Panel solution**

The Smart Panel solution automates energy usage data collection to eliminate time-consuming and error-prone manual meter reading. Automatic metering at the source lets you see exactly how and where the building is using energy. It also performs intelligent cross references of energy usage:  
- by zones (offices, lobby, storage, parking, etc.)  
- with usage by type (lighting, heating, hot water for sanitation, etc.).  
Metering and monitoring form the basis of the Smart Panel solution.

**Energy management has never been simpler**



**1. Measure**

Embedded and stand alone metering & control capabilities

**2. Connect**

- > Integrated communication interfaces
- > Ready to connect to energy management platforms

**3. Act**

- > Data-driven energy efficiency actions
- > Real time monitoring and control
- > Access to energy and site information through on-line services





### Switchboards are the most convenient location to collect data about electrical supplies throughout the building.

Schneider Electric provides best-in-class devices for electrical protection, control, and measurement, as well as efficient switchboard build-up systems.

We offer new digital possibilities through better connectivity, thanks to the enerlin'X system components embedded in our power operating devices.

### Connecting is easy with Smart Panels.

Ethernet is today the most widespread communication protocol in professional building, providing fast data transmission. Thanks to the Enerlin'X digital system, switchboards can be connected via Ethernet like any other device through an RJ45 socket.

The design of Enerlin'X:

- > grouping of similar functions in the smart components (e.g. Acti 9 Smartlink)
- > error-free cabling, fast connection-disconnection
- > space-savings in the enclosure.

### Schneider Electric serves the needs of any building, regardless of size and criticality, and helps find savings opportunities.

Our solutions provide different mixes of energy, network, and asset management features tailored to each size. Clear visibility of the energy supply system and consumption is provided by locally installed software while online services offer improved mobility and convenience.

B

## 1. Measure

### Power supply and protection monitoring, metering

#### Compact circuit breakers and switches

They offer reliable protection as well as support energy management by providing energy consumption data, equipment status, and operational support information.

#### Acti 9 circuit breakers, residual current devices, surge arresters

Each Acti 9 protection devices contributes to electrical supply reliability. Easy-to-fit auxiliaries transmit real-time status to the Enerlin'X system and additional RCA modules enable digitally controlled resetting after a trip.

### Circuit and load control

#### Acti 9 contactors and impulse relays, remote controlled Compact

To improve user comfort, lighting or other loads are switched on and off, separately or all together via the digital system.

#### PowerLogics meter

monitor key distribution points 24 hours a day, from generators, substations, and services entrances, to main feeders and loads. Help improve network reliability by tracking real-time power quality equipment status, trading loads, and logging events and alarms.

#### Modular energy meters

Basic kWh meter for elementary applications to MID-compliant meters for billing applications, and advanced energy meters capable of measuring a variety of electrical parameters.

## 2. Connect

### Acti 9 Smartlink

- > Digital interface for Acti 9 or third-party devices.
- > Modular rail clippable, no extra space required; 100 % prefabricated connections.
- > 2 versions: Modbus SL slave or Ethernet + Modbus SL.
- > Automatic e-mail sent upon critical events (configurable).
- > Embedded web pages for energy monitoring & control master.

### Com'X 200 energy data logger

- > Collects data from electrical and other devices throughout the building.
- > Delivers batches of data ready to be processed by StruxureWare™ solutions and online services.

### Enerlin'X I/O

Provides tailored additional functions.

### Enerlin'X IFM

Modbus connection and data collection for one Compact device.

### Com'X 510 energy server

- > Collects data from electrical and other devices throughout the building.
- > Provides detailed and global views of energy consumption as soon as as connected, with data accessible via web browser.

### Enerlin'X IFE

- > Ethernet communication interface for power circuit breakers
- > Embedded web pages for energy control, and maintenance
- > Modbus master, with automatic detection and configuration of "slave" devices
- > Automatic e-mail sent upon critical events (configurable)

## 3. Act

### Enerlin'X FDM121

- > Access to switchgear settings, status, and measurements.
- > Auto discovery of Modbus SL connected devices.

### Com'X 510 web pages

- All-in-one energy management for small and medium buildings, allowing you to detect the most important opportunities for savings.
- > Provides dashboards and historical trend charts for consumption, viewable via web browser.
  - > Connection to network via WiFi or Ethernet.
  - > Aggregates electrical data with gas, steam, air, water.

### Powerview

#### User-friendly web pages

User-friendly displays of all datas stored in enerlin'X devices, accessible via Ethernet and viewable with web browsers. includes user-configurable e-mail notification feature.

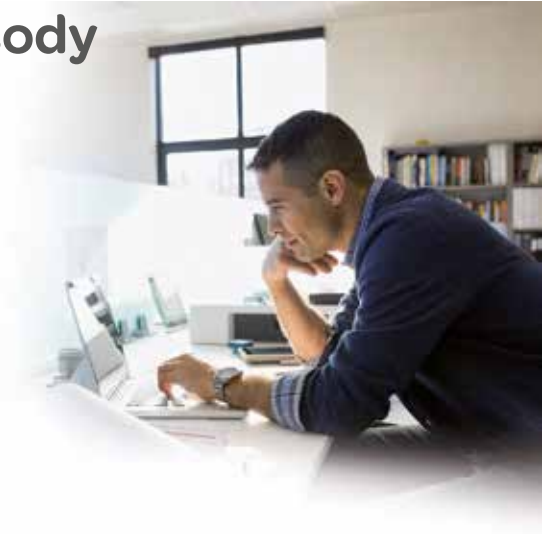
#### Remote access

Powerview webpages accessible anytime anywhere through secure, private internet access. User-configurable e-mail notification feature also included.

## Easy design with Rapsody software


A time-saver in  
the design and  
quotation phases.


More flexibility since  
modifications and  
upgrades are  
possible throughout  
the project.





B


### 5 easy steps to design a switchboard

- 

**1** **Define** the switchboard's electrical and environmental characteristics, in a few clicks.
- 

**2** **Choose and configure** the devices to be installed, with no risk of error.
- 

**3** **Customise**, and easily modify the single-line diagram. **Move or duplicate** devices. **Generate** current distribution and connection systems.
- 

**4** **Choose the switchboard** and let the software set up the enclosure. A list of mounting and connection accessories is proposed to make mounting work easier.
- 

**5** Automatically **export** the information required to make a clear, comprehensive and professional quotation.

## Incomer

### INS 160 A

Incoming cables via top

## Distribution

Linery DX distribution block 4P

## Outgoing devices

### Acti 9 devices

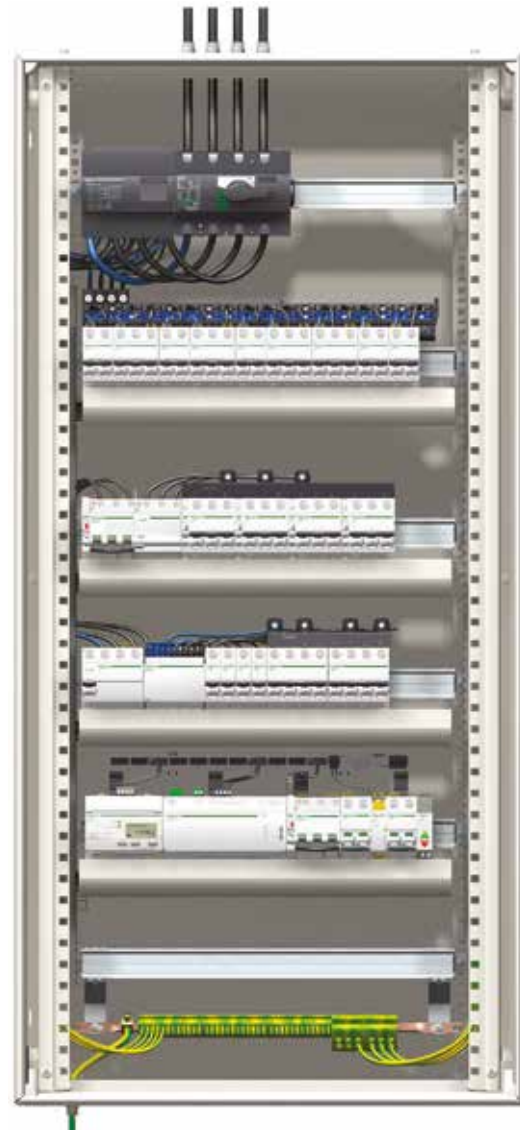
Supply Linery FM distribution block +  
Linery FH comb busbar

Cable running Straps + cover + trunking

Connection Linery TR, TB terminal block at  
bottom of switchboard

## IP30/IP4X enclosure

Wall-mounted enclosure, W = 595 mm, H = 1080 mm



B

**Incomer**  
**Compact NSX250**

Fixed, front connection  
Toggle  
Incoming cables via top on incoming connection block

**Distribution**

Linergy BW rear busbar

**Outgoing devices**  
**Acti 9 + NG160 devices**

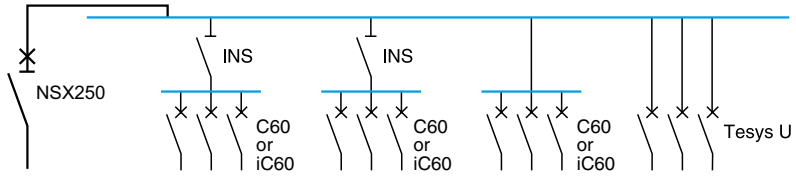
Supply	Linergy FM + Linergy FH comb busbar + Linergy DS distribution block 4P + Linergy DX
Cable running	Straps + cover + trunking
Connection	Linergy TR, TB terminal block in duct

**IP30/IP4X enclosure**

Wall-mounted enclosure, W = 595 mm, H = 1450 mm  
Duct W = 305, H = 1450

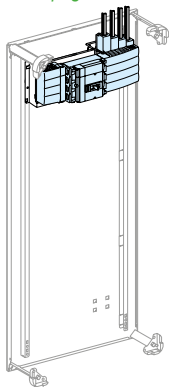


### Starting with the electrical diagram: IP30/IP4X switchboard



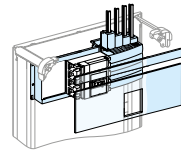
#### Install the incomer

> see page C-4

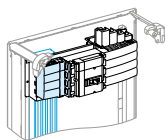


- order the mounting plates and the front plates
- the incoming connection block
- the power supply block for the Linergy BW busbars.

#### 1 Installation / connection



#### 2 Distribution using Linergy BW busbars

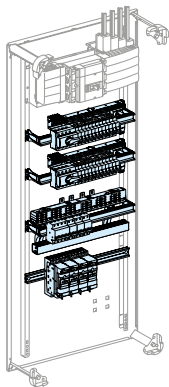


Device	No. of vertical modules	Mounting plate	Cut-out front plate	Upstream front plate	Connection block Cables via top	Cables via bottom
<b>Fixed Compact NSX</b>						
NSX100/250	5	03030	03232	03801	04066	or 04067

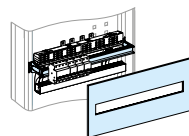
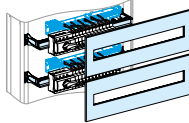
Device	Power supply block	Terminal shields (set of 2)	Linergy BW busbars
<b>Fixed Compact NSX and Vigicomact NSX</b>			
NSX100/250	04060		

#### Install the modular devices

#### 1 Acti 9 > see page C-32



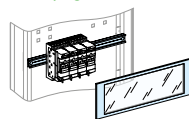
- Order the mounting plates and front plates taking into account:
- supply to the rows
  - cable running.



Device	No. of vertical modules	Modular rail	Modular front plate
<b>All Multi 9 or Acti 9 devices</b>			
All supply systems (Linergy FH) with cable straps and trunking sections	4	03001	03204
<b>Multi 9 or Acti 9 devices y 40 A</b>			
Supply via 63/80 A Linergy FM or Linergy FH with cable straps	3	03001	03203

Device	No. of vertical modules	Modular rail	Modular front plate
<b>All Multi 9 or Acti 9 devices</b>			
All supply systems (Linergy FH) with cable straps and trunking sections	4	03001	03204
<b>Multi 9 or Acti 9 devices y 40 A</b>			
Supply via 63/80 A Linergy FM or Linergy FH with cable straps	3	03001	03203

#### 2 TeSys "U" > see page C-36



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

- Linergy FM distribution block > see page D-16
- Cable running > see page C-37

#### Determine the size of the switchboard

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

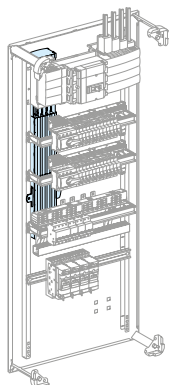
**19 modules**

**21 modules**

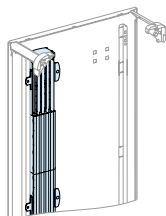
**Plain front plate**  
> see page C-50

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



**Lineryg BW busbars**  
> see page D-4

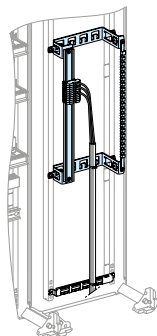
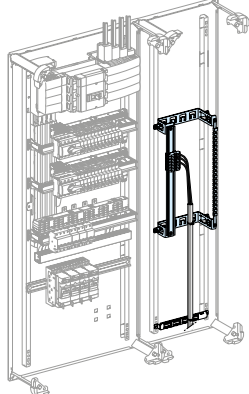


Lineryg BW busbars		160 A	250 A	400 A	630 A
Three-pole	W = 1000 mm	04111	04112	04113	04114
	W = 1400 mm	04116	04117	04118	04119
Four-pole	W = 1000 mm	04121	04122	04123	04124
	W = 1400 mm	04126	04127	04128	04129



## Select the Lineryg TR terminal blocks and the Lineryg TB earth bar

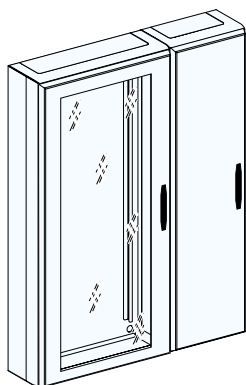
> see page D-23, page D-24



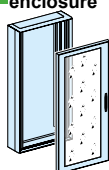
Designation	Cat. no.
Mounting plate for terminal block and Lineryg TB earth bar	04220
Modular rail, W = 1600 mm	04226
12 x 3 mm direct earth bar with 1 terminal 352 L330	04201
Lineryg TB	
4 earth block 12 x 42 quick connection Lineryg TB	04214
4 earth block 3 x 162 quick connection Lineryg TB	04215

## Select the enclosures

> see page E-4

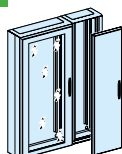


**1 IP wall-mount enclosure**



No. of vertical modules	Height of enclosure	Enclosure	Plain door	Transparent door
<b>Wall-mount enclosure (IP30)</b>				
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
<b>Duct (IP30)</b>				
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.**



# Green Premium™

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### REACH

Schneider Electric applies the strict REACH regulation on its products at a worldwide level, and discloses extensive information concerning the presence of SVHC (Substances of Very High Concern) in all of its products.

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Schneider Electric publishes complete set of environmental data, including carbon footprint and energy consumption data for each of the lifecycle phases on all of its products, in compliance with the ISO 14025 PEP ecopassport program. PEP is especially useful for monitoring, controlling, saving energy, and/or reducing carbon emissions.

### EoLI: End of Life Instructions

Available at the click of a button, these instructions provide:

- Recyclability rates for Schneider Electric products.
- Guidance to mitigate personnel hazards during the dismantling of products and before recycling operations.
- Parts identification for recycling or for selective treatment, to mitigate environmental hazards/ incompatibility with standard recycling processes.



# Prisma G functional system

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## Front plates and accessories

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## Accessories

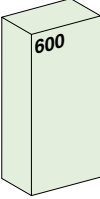
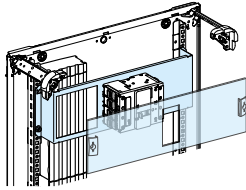
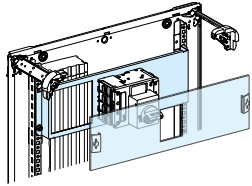
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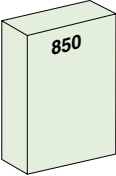
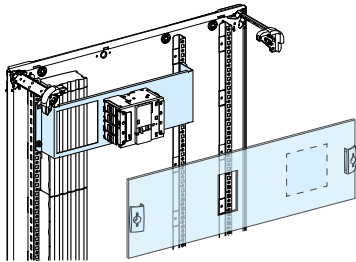
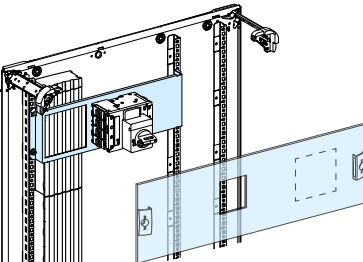
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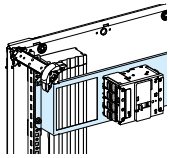
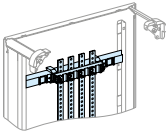
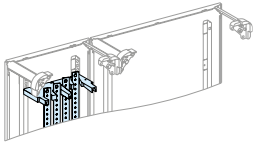
Compact and Compact Vigi (ELCB) NSXm 160  
Horizontal mounting - Fixed - Toggle / Rotary handle  
W600 - W850

Circuit breakers

Mounting	W600 Horizontal - Fixed - Toggle		W600 Horizontal - Fixed - Rotary handle
			
<b>Devices</b>	<b>NSXm 160</b>	<b>NSXm Vigi 160 (ELCB)</b>	<b>NSXm 160</b>
Number of devices per row	1	1	1
Nb. of vertical modules	3	3	3
Mounting plates	03020	03020	03021
Front plates with cut-out [Nb. of vertical modules]	03330 [3]	03330 [3]	03331 [3]
Long terminal shields	3P : LV426912 4P : LV426913	3P : LV426912 4P : LV426913	3P : LV426912 4P : LV426913

(1) Maximum size of connection cables: 70 mm<sup>2</sup>. For cable cross-sections greater than 70 mm<sup>2</sup>, use of a cable duct is recommended.

Mounting	W850 Horizontal - Fixed - Toggle		W850 Horizontal - Fixed - Rotary handle
			
<b>Devices</b>	<b>NSXm160</b>	<b>NSXm Vigi (ELCB) 160</b>	<b>NSXm160</b>
Number of devices per row	1	1	1
Nb. of vertical modules	3	3	3
Mounting plates	03020	03020	03021
Front plate with cut-out [Nb. of vertical modules]	03332 [3]	03332 [3]	03333 [3]
Long terminal shields	3P : LV426912 4P : LV426913	3P : LV426912 4P : LV426913	3P : LV426912 4P : LV426913

Downstream distribution	Insulated Linergy BW busbars	Rear Linergy BS busbars	Linergy BS multi-stage busbars
			
Busbars / Distribution block	Linergy BW > page D-4	04191 + copper bars > page D-6	04192 + copper bars > pages D-7, D-8
Prefabricated connection	04021, 04145, 04146, 04148	04030	Connection must be made

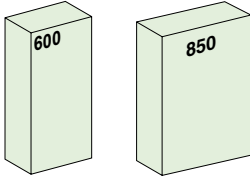
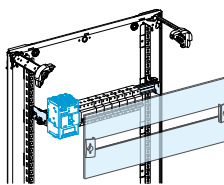
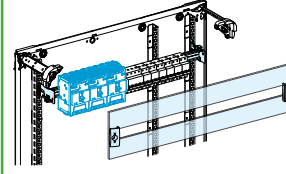
**Note:** For cable-tie function, add 2 modules above. > page C-47

# Compact and Compact Vigi (ELCB) NSXm 160


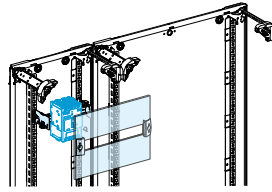
## Vertical mounting on modular rail - Toggle


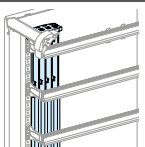
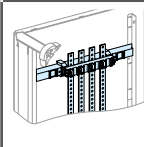
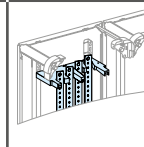
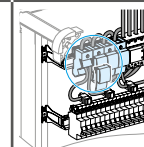
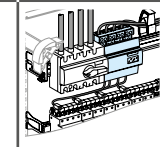
### W600 - W850 - W300

Circuit breakers

Mounting		W600 Modular rail - Toggle		W850 Modular rail - Toggle	
					
Devices		NSXm 160	NSXm Vigi 160 (ELCB)	NSXm 160	NSXm Vigi 160 (ELCB)
Nb. of vertical modules		5	5	5	5
Rail (48 modules of 9 mm)		03002 (adjustable) (1)	03002 (adjustable) (1)	03007 (adjustable) (1)	03007 (adjustable) (1)
Modular front plates [Nb. of vertical modules]	With cut-out	03205 [5]	03205 [5]	03218 [5]	03218 [5]
Blanking plate	Strip	03220	03220	03220	03220
	Divisible	03221	03221	03221	03221

(1) Can be completed by a rail (cat no.04226) + raiser (cat no.04225) to install modular devices. > page C-44,C-51

Mounting		W300 Modular rail - Toggle	
			
Devices		NSXm160	NSXm Vigi (ELCB) 160
Nb. of vertical modules		6	6
Rail (20 modules of 9 mm)		03011 (adjustable)	03011 (adjustable)
Front plate [Nb. of vertical modules]	modular	03214 [4]	03214 [4]
	upstream	03811 [1]	03811 [1]
	downstream	03811 [1]	03811 [1]
Blanking plate	Strip	03220	03220
	Divisible	03221	03221

Downstream distribution	Insulated Linergy BW busbars	Rear Linergy BS busbars	Linergy BS Multi-stage busbars in duct	Distribution block Linergy DX 1P, 160 A	Distribution block Linergy DX 4P, 125 A/160 A	
						
Busbars / Distribution block	Linergy BW > page D-4	04191 + copper bars > page D-6	04192 + copper bars > pages D-7, D-8	04031 > page C-16	04045 > page C-16	04046 > page C-16
Connection	04030, 04145, 04146, 04147, 04148	04145, 04146 (centred device)	Must be made	04149	04047	included

Note: For cable-tie function, add 2 modules above > page C-47



# Compact and Compact Vigi (ELCB) NSX 100/160/250

## Horizontal mounting - Fixed - Toggle

W600 - W600+W300 - W850



Designed for PowerTag NSX  
Circuit breakers

Mounting		W600 Horizontal - Fixed - Toggle							
<b>Devices</b>		<b>NSX / NSX Vigi (ELCB) 100/250</b>				<b>NSX / NSX Vigi (ELCB) 100/160 (1)</b>			
Number of devices per row		1		1		1		1	
Nb. of vertical modules		5		5		5		5	
Mounting plates		03030		03030		03030		03030	
Front plates cut-out		03232 [4]		03232 [4]		03232 [4]		03232 [4]	
[Nb. of vertical modules] upstream		03801 [1]		03801 [1]		03801 [1]		03801 [1]	
downstream		-		03801 [1]		-		03801 [1]	
<b>Upstream connection</b>									
Incoming connection block or cables + Long terminal shields		04066 > page C-42 		04067 > page C-42 		3P : LV429517 4P : LV429518 			
Mounting		W600+W300 Horizontal - Fixed - Toggle				W850 Horizontal - Fixed - Toggle			
<b>Devices</b>		<b>NSX / NSX Vigi (ELCB) 100/250</b>				<b>NSX / NSX Vigi (ELCB) 100/250</b>			
Number of devices per row		1		1		1		1	
Nb. of vertical modules		5		4		5		4	
Standard Mounting plates		03030		03030		03030		03030	
Front plates cut-out		03232 [4]		03232 [4]		03294 [4]		03294 [4]	
[Nb. of vert. mod.] upstream		03801 [1]		-		03851 [1]		-	
downstream		-		03801 [1]		-		03851 [1]	
with Mounting plates		-		03033		-		03033	
PowerTag Front plates		-		03334 [4]		-		03335 [4]	
NSX [Nb. of vertical modules]		-		-		-		03335 [4]	
<b>Upstream connection</b>									
Incoming connection block or cables + Long terminal shields		04066 > page C-42 		04067 > page C-42 		3P : LV429517 4P : LV429518 		04066 > page C-42 04067 > page C-42 3P : LV429517 4P : LV429518 	
Downstream distribution		Linergy DP 250 A distribution block		Linergy BW + Power supply block		Rear Linergy BS busbars		Linergy BS multi-stage busbars	
Busbars / Distrib blocks		3P : 04033 4P : 04034 > page D-12		Linergy BW > page D-4		04191 + copper bars > page D-6		04192 + copper bars > pages D-7, D-8	
Power supply block / connection		-		04060 (2) > page C-42 		Connection must be made			
Long terminal shields		-		-				3P : LV429517 4P : LV429518	

**Note:** For cable-tie function, add 2 modules above > page C-47

(1) Maximum size of connection cables: 70 mm<sup>2</sup>. For cable cross-sections greater than 70 mm<sup>2</sup>, use of a cable duct is recommended.

(2) Supplied with connections.

# Compact and Compact Vigi (ELCB) NSX 100/160/250

## Vertical mounting - Fixed - Toggle

W600 - W300



Designed for PowerTag NSX  
Circuit breakers

Mounting		W600 Vertical - Fixed - Toggle					
<b>Devices</b>		<b>NSX / NSX Vigi (ELCB) 100/160</b>		<b>NSX / NSX Vigi (ELCB) 250</b>			
Number of devices per row		1 or 4 x 3P or 3 x 4P		1 or 4 x 3P or 3 x 4P			
Nb. of vertical modules		9 or 10		11 or 12			
Mounting plates		03040		03040			
Front plates cut-out		03243 [5]		03243 [5]			
[Nb. of upstream vertical modules]		03802 [2]		03804 [4]			
downstream		03802 [2]		03802 [2]			
downstream with PowerTag NSX		03803 [3]		03803 [3]			
<b>Upstream connection</b>							
Long terminal shields		3P : LV429517 4P : LV429518					
Divisible blanking plates (HxL)		46 x 1000 mm 46 x 90 mm (x4) plates (HxL)					
		03220 Compact NSX 3P or 4P without electronic trip unit 03221 Compact NSX 3P or 4P with electronic trip unit					
Downstream distribution		Linerigy DP 250 A distribution block	Linerigy BW + Power supply block (1)	Rear Linerigy BS busbars	Linerigy BS multi-stage busbars		
Busbars / Distrib blocks		3P : 04033 4P : 04034 + 03002 > page D-12	Linerigy BW > page D-4	04191 + copper bars > page D-6	04192 + copper bars > pages D-7, D-8		
Power supply block / connection		-	04061 (2) + 04062  > page C-43	Connection must be made			
Long terminal shields		-	3P : LV429515 4P : LV429516	3P : LV429517 4P : LV429518			
Mounting		W300 Vertical Fixed - Toggle	Downstream distribution	Linerigy DP 250 A distribution block in duct	Insulated Linerigy BW busbars (2)	Rear Linerigy BS busbars	Linerigy BS multi-stage busbars or multi-stage distribution block
<b>Devices</b>		<b>NSX100/250</b>					
Number of devices per row		1					
Nb. of vertical modules		9 or 10					
Mounting plates		03050					
Front plates cut-out		03253 [9]					
[Nb. of downstream vertical modules]		03811 [1]					
downstream with PowerTag NSX							
<b>Upstream connection</b>							
Cables + Long terminal shields		3P : LV429517 4P : LV429518 					
		3P : 04033 + 03011 4P : 04034 + 03011 > page D-12					
Power supply block		04061 > page C-43 					
Connection		04064 > page C-43 					
Short / Long terminal shields		3P : LV429515 4P : LV429516 					
		3P : LV429517 4P : LV429518 					
		3P : LV429515 4P : LV429516 					

**Note:** For cable-tie function, add 1 module above. > page C-47

(1) 1 device centred on mounting plate.

(2) Space available at the top of the enclosure after mounting the universal power supply block: NSX100/250 = 7 modules.



Compact and Compact Vigi (ELCB) NSX 100/160/250  
Horizontal mounting - Fixed - Rotary handle /  
Motor mechanism module / Plug-in  
W600 - W600+W300 - W850



Designed for PowerTag NSX  
Circuit breakers

Mounting		W600 Horizontal - Fixed - Rotary handle (1)	
Devices		NSX / NSX Vigi (ELCB) 100/160	
Number of devices per row	1	1	
Nb. of vertical modules	5	5	
Mounting plates	03031	03031	
Front plates cut-out	03232 [4]	03232 [4]	
[Nb. of vertical modules] upstream	03801 [1]		
downstream		03801 [1]	
Upstream connection			
Long terminal shields		3P : LV429517 4P : LV429518	

Mounting	W600+W300 Horizontal - Fixed - Rotary handle	W850 Horizontal - Fixed - Rotary handle	W600+W300 Horizontal - Fixed - Motor mechanism module	W600+W300 Horizontal - Plug-in - Toggle
Devices	NSX / NSX Vigi (ELCB) 100/250	NSX / NSX Vigi (ELCB) 100/250	NSX / NSX Vigi (ELCB) 100/250	NSX100/250
Number of devices per row	1	1	1	1
Nb. of vertical modules	4	4	4	4
Mounting plates	03031	03031	03031	03032
Front plates cut-out	03232 [4]	03232 [4]	03301 [4]	03290 [4]
[Nb. of cut-out with vert. mod.] PowerTag NSX	03334 [4]	03334 [4]	03335 [4]	-
Upstream connection				
Terminal shields				Plug-in base    Device
	3P : LV429517 4P : LV429518			 3P : LV429517    4P : LV429518  3P : LV429306    4P : LV429307
+ connection adapter for plug-in base				

Downstream distribution	Linergy DP 250 A distribution block	Linergy BW + Power supply block (2)	Rear Linergy BS busbars	Linergy BS multi-stage busbars
Busbars / Distrib blocks	3P : 04033 4P : 04034 > page D-12	Linergy BW > page D-4	04191 + copper bars > page D-6	04192 + copper bars > pages D-7, D-8
Power supply block / connection		04060 > page C-42 	Connection must be made	
Long terminal shields				 3P : LV429517 4P : LV429518

Note: For cable-tie function, add 2 modules above. > page C-47

(1) Maximum size of connection cables: 70 mm². For cable cross-sections greater than 70 mm², use of a cable duct is recommended.

(2) With motor mechanism, use power supply units with connections (cat no.04061) + connection to make with Linergy BW. >page D5



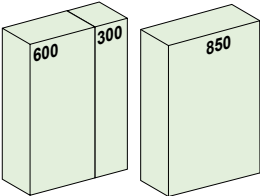
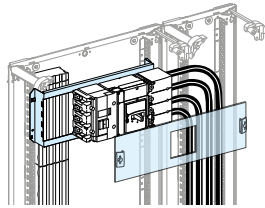
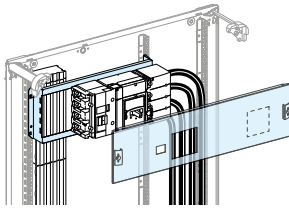






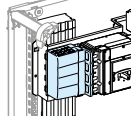
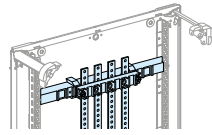
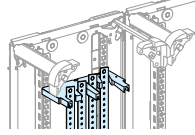




Vigicomcompact NSX100/160/250

Horizontal mounting - Fixed - Toggle

W600+W300 - W850

Circuit breakers

Mounting	W600+W300 Horizontal - Fixed - Toggle		W850 Horizontal - Fixed - Toggle	
				
Devices	Vigi NSX100/250 with ammeter module or Vigi		Vigi NSX100/250	
				
Number of devices per row	1	1	1	1
Nb. of vertical modules	4	4	4	4
Mounting plates	03033	03033	03033	03033
Front plates cut-out [Nb. of vertical modules]	03292 [4]	03292 [4]	03295 [4]	03295 [4]
<b>Upstream connection</b>				
Long terminal shields	3P : LV429517 4P : LV429518 			
<b>Downstream distribution</b>				
				
Busbars / Distrib blocks	3P : 04033 4P : 04034 > page D-12	Linergy BW > page D-4	04191 + copper bars > page D-6	04192 + copper bars > pages D-7, D-8
Power supply block / connection	-	04060 > page C-42 	Connection must be made	
Long terminal shields	-		3P : LV429517 4P : LV429518 	

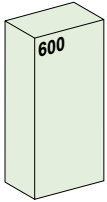
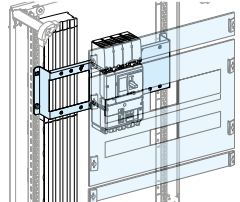
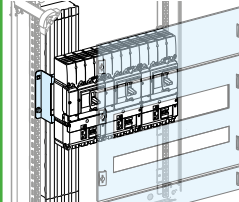



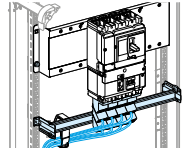
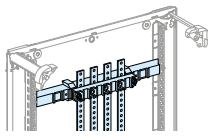
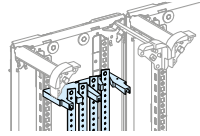


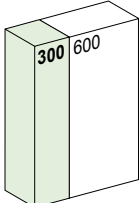
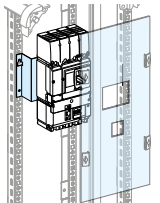


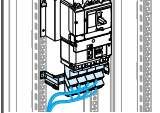
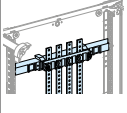
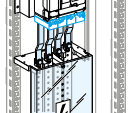



Note: For cable-tie function, add 2 modules above. > page C-44

# VigiCompact NSX100/160/250

## Vertical mounting - Fixed - Toggle

### W600 - W300

Circuit breakers

Mounting		W600 Horizontal - Fixed - Toggle (1)			
					
<b>Devices</b>		<b>Vigi NSX100/160</b>		<b>Vigi NSX250</b>	
Number of devices per row		1 or 4 x 3P or 3 x 4P		1 or 4 x 3P or 3 x 4P	
Nb. of vertical modules		10		13	
Mounting plates		03040		03040	
Front plates cut-out		03241 [7]		03241 [7]	
[Nb. of vertical upstream modules]		03802 [2]		03804 [4]	
downstream		03801 [1]		03802 [2]	
<b>Upstream connection</b>					
Long terminal shields		 3P : LV429517 4P : LV429518			
Divisible blanking plates (HxL)		 03222 Compact NSX 3P or 4P + Vigi without electronic trip unit 03249 Compact NSX 3P or 4P + Vigi with electronic trip unit - Set of 4 strips			
<b>Downstream distribution</b>		<b>Lineryg DP 250 A distribution block</b>	<b>Lineryg BW + Power supply block (1)</b>	<b>Rear Lineryg BS busbars</b>	<b>Lineryg BS multi-stage busbars</b>
					
Busbars / Distrib blocks		3P : 04033 + 03002 4P : 04034 > page D-12		04191 + copper bars > page D-6	
Power supply block		Lineryg BW > page D-4		04192 + copper bars > pages D-7, D-8	
Power supply block / connection		 04061 (2) > page C-43		Connection must be made	
Long terminal shields		 3P : LV429517 4P : LV429518			
<b>Mounting</b>		<b>W300 Vertical - Fixed - Toggle</b>			
					
<b>Devices</b>		<b>Vigi NSX100/250</b>			
Number of devices per row		1			
Nb. of vertical modules		13			
Mounting plates		03050			
Front plates cut-out		03293 [11]			
[Nb. of vertical upstream modules]		03812 [2]			
<b>Upstream connection</b>					
Long terminal shields		3P : LV429517 4P : LV429518 			
<b>Downstream distribution</b>		<b>Lineryg DP 250 A distribution block in duct</b>	<b>Insulated Lineryg BW busbars (2)</b>	<b>Rear Lineryg BS busbars</b>	<b>Lineryg BS multi-stage busbars or multi-stage distribution block</b>
					
Busbars / Distrib blocks		3P : 04033 + 03011 > page D-12		04191 + copper bars > page D-6	
Power supply block		-		04061 > page C-43	
Connection		-		Must be made	
Short / Long terminal shields		-		3P : LV429517 4P : LV429518 	
				 04065 > page C-44 <small>DD086251 eps</small>	
				3P : LV429515 4P : LV429516 	

**New:** Earth leakage protection inside circuit breaker size NSX Vigi (ELCB) Prisma functional units > page C-7

**Note:** For cable-tie function, add 1 module above. > page C-47

(1) 1 device centred on mounting plate.

(2) Space available at the top of the enclosure after mounting the universal power supply block:

- Vigi NSX100/250 = 9 modules. Space required by power supply block on Lineryg BW busbars = 5 modules.



Vigicompact NSX100/160/250  
Horizontal mounting - Fixed - Rotary handle  
W600 - W600+W300 - W850

Circuit breakers

Mounting		W600 Horizontal - Fixed - Rotary handle (1)	
Devices		Vigi NSX100/160	
Number of devices per row	1	1	
Nb. of vertical modules	5	5	
Mounting plates	03031	03031	
Front plates	cut-out	03292 [4] + LV429285 (collar)	
[Nb. of vertical modules] upstream	03801 [1]	-	
downstream	-	03801 [1]	
Upstream connection			
Long terminal shields	3P : LV429517 4P : LV429518		

Mounting		W600+W300 Horizontal - Fixed - Rotary handle		W850 Horizontal - Fixed - Rotary handle	
Devices		Vigi NSX100/250		Vigi NSX100/250	
Number of devices per row	1	1	1	1	1
Nb. of vertical modules	4	4	4	4	4
Mounting plates	03031	03031	03031	03031	03031
Front plates	03292 [4]	03292 [4]	03301 [4]	03301 [4]	03301 [4]
[Nb. of vertical modules]	+ LV429285 (collar)	+ LV429285 (collar)	+ LV429285 (collar)	+ LV429285 (collar)	+ LV429285 (collar)
Upstream connection					
Long terminal shields	3P : LV429517 4P : LV429518				

Downstream distribution	Linergy DP 250 A distribution block	Linergy BW + Power supply block	Rear Linergy BS busbars	Linergy BS multi-stage busbars
Busbars / Distrib blocks	3P : 04033 4P : 04034 > page D-12	Linergy BW > page D-4	04191 copper bars > page D-6	04192 copper bars > pages D-7, D-8
Power supply block / connection	-	04060 > page C-42 	Connection must be made	
Long terminal shields	-			3P : LV429517 4P : LV429518

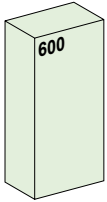
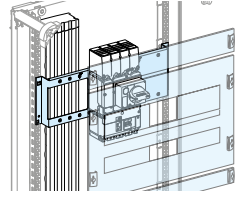
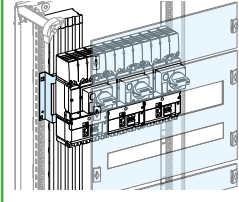


**Note:** For cable-tie function, add 2 modules above. > page C-47  
**(1)** Maximum size of connection cables: 70 mm<sup>2</sup>. For cable cross-sections greater than 70 mm<sup>2</sup>, use of a cable duct is recommended.


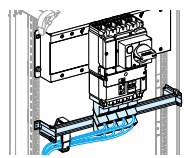
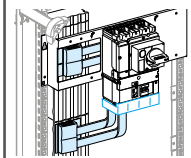
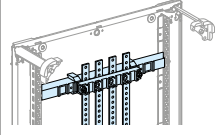
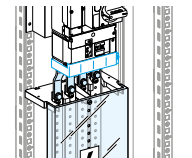



# Vigicompact NSX100/160/250

## Vertical mounting - Fixed - Rotary handle

### W600

Circuit breakers

Mounting		W600 Horizontal - Fixed - Rotary handle (1)	
			
<b>Devices</b>		<b>Vigi NSX100/160</b>	<b>Vigi NSX250</b>
Number of devices per row		1 or 4 x 3P or 3 x 4P	1 or 4 x 3P or 3 x 4P
Nb. of vertical modules		<b>10</b>	<b>13</b>
Mounting plates		<b>03041</b>	<b>03041</b>
Front plates cut-out		<b>03244 [7] + LV429285 (collar)</b>	<b>03244 [7] + LV429285 (collar)</b>
[Nb. of vertical modules] upstream		<b>03802 [2]</b>	<b>03804 [4]</b>
downstream		<b>03801 [1]</b>	<b>03802 [2]</b>
<b>Upstream connection</b>			
Long terminal shields		 3P : <b>LV429517</b> 4P : <b>LV429518</b>	
Divisible 107 x 147 mm		<b>03222</b> Compact NSX 3P or 4P + Vigi without electronic trip unit	
blanking plates 85 x 147 mm (HxL)		 <b>03249</b> Compact NSX 3P or 4P + Vigi with electronic trip unit - Set of 4 strips	

Downstream distribution	Linergy DP 250 A distribution block	Linergy BW + Power supply block (2)	Rear Linergy BS busbars	Linergy BS multi-stage busbars
				
Busbars / Distrib blocks	3P : <b>04033</b> 4P : <b>04034</b> > <a href="#">page D-12</a> + <b>03002</b>	<b>Linergy BW</b> > <a href="#">page D-4</a>	<b>04191</b> copper bars > <a href="#">page D-6</a>	<b>04192</b> copper bars > <a href="#">pages D-7, D-8</a>
Power supply block / connection	-	 <b>04061</b> + connection must be made	Connection must be made	
Terminal shields	-	 3P : <b>LV429515</b> 4P : <b>LV429516</b>	 3P : <b>LV429517</b> 4P : <b>LV429518</b>	

**New:** Earth leakage protection inside circuit breaker size NSX Vigi (ELCB) Prisma functional units > [page C-9](#)

**Note:** For cable-tie function, add 1 module above. > [page C-47](#)

(1) 1 device centred on mounting plate.

(2) Space available at the top of the enclosure after mounting the universal power supply block:

- Vigi NSX100/250 = 9 modules. Space required by power supply block on Linergy BW busbars = 5 modules.



# Compact and Compact Vigi (ELCB) NSX 400/630

## Horizontal mounting - Fixed - Toggle

### W600+W300 - W850

Circuit breakers

Mounting	W600+W300 Horizontal - Fixed - Toggle			
<b>Devices</b>	<b>NSX / NSX Vigi (ELCB) 400/630</b>		<b>NSX / NSX Vigi (ELCB) 400/630</b>	
Number of devices per row	1	1	1	1
Nb. of vertical modules	9	6	9	6
Mounting plates	03070	03070	03070	03070
Front plates cut-out	03296 [6]	03296 [6]	03296 [6]	03296 [6]
[Nb. of vertical upstream modules]	03803 [3]	-	03803 [3]	-
<b>Upstream connection</b>				
Incoming connection block or cables + Long terminal shields	04076 > page C-42 	04076 > page C-42 	3P : LV432593 4P : LV432594 	

Mounting	W850 Horizontal - Fixed - Toggle	
<b>Devices</b>	<b>NSX / NSX Vigi (ELCB) 400/630</b>	
Number of devices per row	1	1
Nb. of vertical modules	9	6
Mounting plates	03070	03070
Front plates cut-out	03289 [6]	03289 [6]
[Nb. of vertical upstream modules]	03853 [3]	-
<b>Upstream connection</b>		
Incoming connection block or cables + Long terminal shields	3P : LV432593 4P : LV432594	

Downstream distribution	Insulated Linergy BW busbars	Rear Linergy BS busbars	Linergy BS multi-stage busbars
<b>Type of connected devices</b>	<b>NSX400</b> Linergy BW > page D-4	<b>NSX630</b>	<b>All types</b>
Busbars			04192 + copper bars > pages D-7, D-8
Power supply block / connection	04070 > page C-42	04071 > page C-42	Connection must be made
Long terminal shields	-		3P : LV429593 4P : LV429594

**Note:** For cable-tie function, add 2 modules above. > page C-47

# Compact and Compact Vigi (ELCB) NSX 400/630

## Vertical mounting - Fixed - Toggle / Rotary handle

### W600 - W300



Designed for PowerTag NSX  
Circuit breakers

Mounting	W600 Vertical - Fixed - Toggle		W600 Vertical - Fixed - Rotary handle
<b>Devices</b>	<b>NSX / NSX Vigi (ELCB) 400</b>		<b>NSX / NSX Vigi (ELCB) 630</b>
Number of devices per row (2)	1		1
Nb. of vertical modules	12 or 14		15 or 17
Mounting plates	03073		03074
Front plates cut-out	03275 [9]		03275 [9]
[Nb. of vertical modules]	upstream	03803 [3]	03803 [3]
	downstream	-	03801 [1]
	downstream with PowerTag NSX	03802 [2]	03803 [3]

Upstream connection	
Cables + Long terminal shields	 3P : LV432593 4P : LV432594

Downstream distribution	Insulated Linergy BW busbars (1)	Rear Linergy BS busbars	Linergy BS multi-stage busbars
<b>Type of connected devices</b>		<b>NSX400</b>	<b>NSX630</b>
Busbars	Linergy BW > page D-4	04191 + copper bars > page D-6	LG4193 + copper bars > page D-6
Power supply block / connection	04074 Connection must be made > page C-43	Connection must be made	
Long terminal shields	 3P : LV432593 4P : LV432594		

Mounting	W300 Vertical - Fixed		Downstream distribution	Insulated Linergy BW busbars (2)	Rear Linergy BS busbars	Linergy BS multi-stage busbars
	Toggle	Rotary handle				
<b>Devices</b>	<b>NSX / NSX Vigi (ELCB) 400/630</b>					
Number of devices per row	1					
Nb. of vertical modules	12 or 14					
Mounting plates	03081					
Front plates cut-out [Nb. of vertical modules]	upstream	03298 [8]				
	downstream	03812 [2]				
	downstream with PowerTag NSX	03812 [2]				
	downstream with PowerTag NSX	03814 [4]	03283 [12]			
<b>Upstream connection</b>						
Cables + Long terminal shields	 3P : LV432593 4P : LV432594					
Busbars				Linergy BW > page D-4	04191/LG4193 + copper bars > page D-6	04192 + copper bars > pages D-7, D-8
Power supply block				04074 > page C-43	-	-
Connection				04073 > page C-43	Must be made	04075 > page C-44
Short/Long terminal shields				3P : LV432591 4P : LV432592	3P : LV432593 4P : LV432594	3P : LV432591 4P : LV432592
Barrier				Included	04198	04197

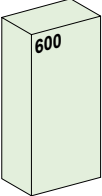
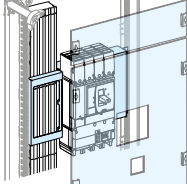
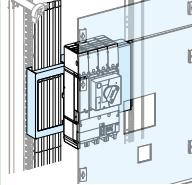


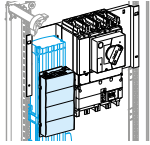
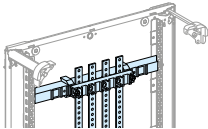
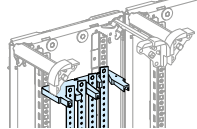


**Note:** For cable-tie function, add 1 module above > page C-47  
 (1) Space required by power supply block on insulated Linergy BW busbars = 5 modules.  
 (2) 1 device centred on mounting plate.

# Vigicompact NSX400/630

## Vertical mounting - Fixed - Toggle / Rotary handle

W600

Circuit breakers

Mounting	W600 Vertical - Fixed - Toggle		W600 Vertical - Fixed - Rotary handle	
				
<b>Devices</b>	<b>Vigi NSX400 (1)</b>	<b>Vigi NSX630 (1)</b>	<b>Vigi NSX400/630 (1)</b>	
Number of devices per row	1	1	1	
Nb. of vertical modules	14	15	18	
Mounting plates	03073	03073	03074	
Front plates	cut-out	03297 [11]	03297 [11] + LV429285 (collar)	
[Nb. of vertical modules]	upstream	03803 [3]	03803 [3]	
	downstream	03801 [1]	03804 [4]	
<b>Upstream connection</b>				
Cables + Long terminal shields	 3P : LV432593 4P : LV432594			
<b>Downstream distribution</b>	<b>Linergy BW + Power supply bloc (1)</b>	<b>Rear Linergy BS busbars</b>		<b>Linergy BS multi-stage busbars</b>
				
<b>Type of connected devices</b>		<b>NSX400</b>	<b>NSX630</b>	<b>All types</b>
Busbars	Linergy BW > page D-4	04191 + copper bars > page D-6	LGY4193 + copper bars > page D-6	04192 + copper bars > pages D-7, D-8
Power supply block / connection	 04074 Connection must be made > page C-43	Connection must be made		
Long terminal shields	 3P : LV432593 4P : LV432594			

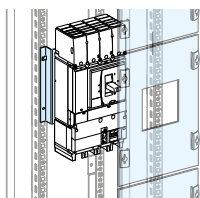
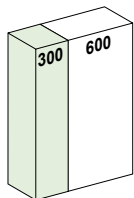
(1) Space required by power supply block on Linergy BW busbars = 5 modules.



# Vigicompact NSX400/630


## Vertical mounting - Fixed - Toggle / Rotary handle W300


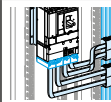

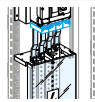
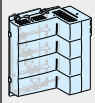





### Mounting W300 Vertical - Fixed - Toggle



Devices		Vigi NSX400/630
Number of devices per row		1
Nb. of vertical modules		14
Mounting plates		03080
Front plates	cut-out	03299 [10]
[Nb. of vertical modules]	upstream	03812 [2]
	downstream	03812 [2]

### Upstream connection

Cables + Long terminal shields		3P : LV432593 4P : LV432594
--------------------------------	---	--------------------------------

Downstream distribution	Insulated Linergy BW busbars (2)	Rear Linergy BS busbars	Linergy BS multi-stage busbars
			
Busbars	<b>Linergy BW</b> > page D-4	<b>04191 / LGY4193</b> + copper bars > page D-6	<b>04192 + copper bars</b> > pages D-7, D-8
Power supply block	<b>04074</b> > page D-5 	-	-
Connection	<b>04073</b> > page D-5 	Must be made	<b>04075</b> > page D-7 
Short/Long terminal shields	3P : LV432591 4P : LV432592 	3P : LV432593 4P : LV432594 	3P : LV432591 4P : LV432592 
Barrier	Included	<b>04198</b>	<b>04197</b>

**New:** Earth leakage protection inside circuit breaker size NSX Vigi (ELCB) Prisma functional units > page C-15

**Note:** For cable-tie function, add 1 module above. > page C-47

(2) Space required by power supply block on insulated Linergy BW busbars = 5 modules.

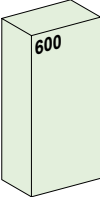
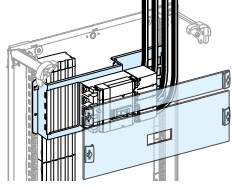





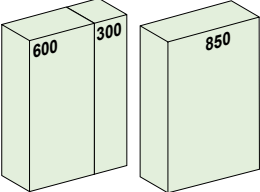
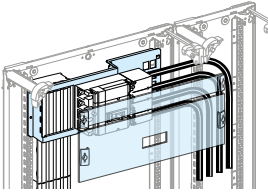
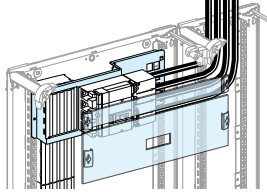





# Easypact CVS and Vigi CVS100/160/250


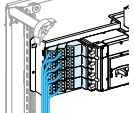
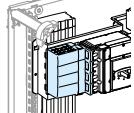
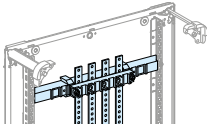
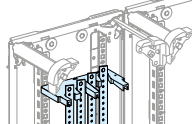

## Horizontal mounting - Fixed - Toggle

W600 - W600+W300 - W850

Circuit breakers

Mounting		W600 Horizontal - Fixed - Toggle(1)	
			
<b>Devices</b>		<b>CVS100/160 (1)</b>	<b>CVS100/160 (1)</b>
			
Number of devices per row	1	1	1
Nb. of vertical modules	5	5	5
Mounting plates	03030	03030	03030
Front plates cut-out	03230 [4]	03230 [4]	03230 [4]
[Nb. of vertical modules] upstream	03801 [1]	-	-
downstream	-	03801 [1]	03801 [1]
<b>Upstream connection</b>			
Cables + Long terminal shields		 3P : LV429517 4P : LV429518	

Mounting		W600+W300 Horizontal - Fixed - Toggle		W850 Horizontal - Fixed - Toggle	
					
<b>Devices</b>		<b>CVS100/160/250</b>		<b>Vigi CVS100/160/250</b>	
					
Number of devices per row	1	1	1	1	1
Nb. of vertical modules	4	4	4	4	4
Mounting plates	03030	03030	03033	03033	03030
Front plates cut-out	03230 [4]	03230 [4]	03238 [4]	03238 [4]	03256 [4]
[Nb. of vertical modules] upstream	-	-	-	-	03257 [4]
downstream	-	-	-	-	03257 [4]
<b>Upstream connection</b>					
Incoming connection block or cables + Long terminal shields		 3P : LV429517 4P : LV429518			

Downstream distribution	Linergy DP 250 A distribution block	Linergy BW + Power supply block	Rear Linergy BS busbars	Linergy BS multi-stage busbars
				
Busbars / Distrib blocks	3P : 04033 4P : 04034 > page D-12	Linergy BW > page D-4	04191 + copper bars > page D-6	04192 + copper bars > pages D-7, D-8
Power supply block / connection	-	04060 > page C-42	Connection must be made	
Long terminal shields	 3P : LV429517 4P : LV429518			

Note: For cable-tie function, add 2 modules above. > page C-47

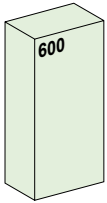
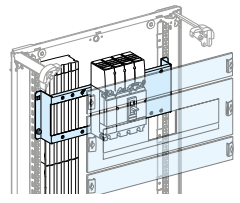
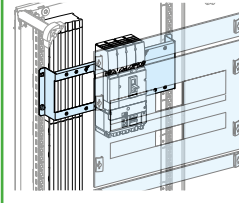

(1) Maximum size of connection cables: 70 mm². For cable cross-sections greater than 70 mm², use of a cable duct is recommended.


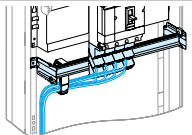
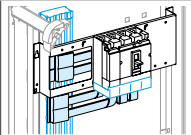
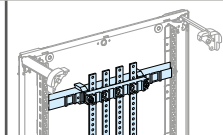
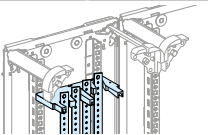



# Easypact CVS and Vigi CVS100/160/250

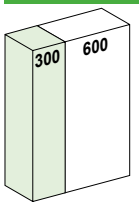
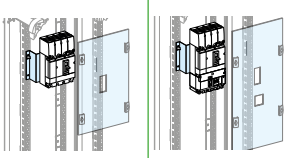

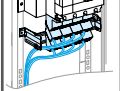









## Vertical mounting - Fixed - Toggle

W600 - W300

Circuit breakers

Mounting	W600 Vertical - Fixed - Toggle			
				
<b>Devices</b>	<b>CVS100/160</b>	<b>CVS250</b>	<b>Vigi CVS100/160</b>	<b>Vigi CVS250</b>
Number of devices per row	1 or 4 x 3P or 3 x 4P	1 or 4 x 3P or 3 x 4P	1 or 4 x 3P or 3 x 4P	1 or 4 x 3P or 3 x 4P
Nb. of vertical modules	9	11	10	13
Mounting plates	03040	03040	03040	03040
Front plates cut-out	03243 [5]	03243 [5]	03241 [7]	03241 [7]
[Nb. of vertical upstream modules]	03802 [2]	03804 [4]	03802 [2]	03804 [4]
downstream	03802 [2]	03802 [2]	03801 [1]	03802 [2]
<b>Upstream connection</b>				
Long terminal shields	 3P : LV429517 4P : LV429518			

Downstream distribution	Linery DP 250 A distribution block	Linery BW + Power supply block (1)	Rear Linery BS busbars	Linery BS multi-stage busbars
				
Busbars / Distrib blocks	3P : 04033 4P : 04034 + 03002 > page D-12	Linery BW > page D-4	04191 + copper bars > page D-6	04192 + copper bars > pages D-7, D-8
Power supply block / connection	-	 04061 (2) + 04062 > page C-43	Connection must be made	
Long terminal shields	-	 3P : LV429515 4P : LV429516	 3P : LV429517 4P : LV429518	

Mounting	W300 Vertical - Fixed - Toggle		Downstream distribution	Linery DP 250 A distribution block in duct	Insulated Linery BW busbars (2)	Rear Linery BS busbars	Linery BS multi-stage busbars or multi-stage distribution block
							
<b>Devices</b>	<b>CVS100/250</b>	<b>Vigi CVS250</b>	<b>Type of connected switchgear</b>	All types	CVS	Vigi CVS	All types
Number of devices per row	1	1	Busbars / Distrib blocks	3P : 04033 4P : 04034 + 03011 > page D-12	Linery BW > page D-4	04191 + copper bars > page D-6	04192 + copper bars > pages D-7, D-8
Nb. of vertical modules	9	13	Power supply block	-	04061 > page C-43	04061 > page C-43	-
Mounting plates	03050	03050	Connection	-	04064 > page C-43	Connection must be made	
Front plates cut-out	03250 [9]	03252 [11]	Short / Long terminal shields	-	3P : LV429515 4P : LV429516	3P : LV429517 4P : LV429518	3P : LV429517 4P : LV429518
[Nb. of vertical upstream modules]	-	03812 [2]					
<b>Upstream connection</b>							
Long terminal shields	 3P : LV429517 4P : LV429518						

Note: For cable-tie function, add 1 module above. > page C-47

(1) 1 device centred on mounting plate.

(2) Space available at the top of the enclosure after mounting the universal power supply block:

- CVS100/250 = 7 modules

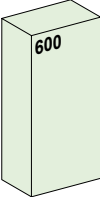
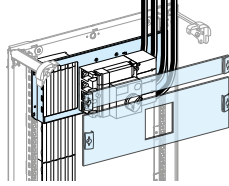



- Vigi CVS100/250 = 9 modules. Space required by power supply block on Linery BW busbars = 5 modules.

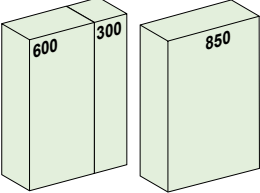
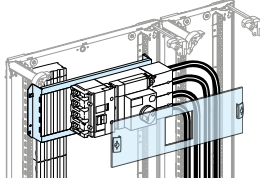
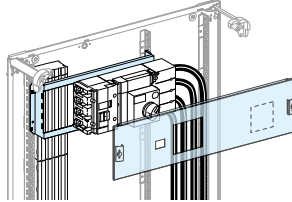





# Easypact CVS and Vigi CVS100/160/250


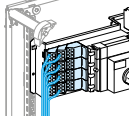
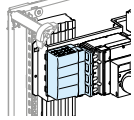
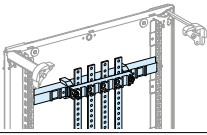
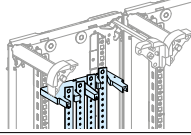

## Horizontal mounting - Fixed - Rotary handle

### W600 - W600+W300 - W850

Circuit breakers

Mounting		W600 Horizontal - Fixed - Rotary handle (1)	
			
<b>Devices</b>		<b>CVS100/160</b>	
			
Number of devices per row	1	1	
Nb. of vertical modules	5	5	
Mounting plates	03031	03031	
Front plates cut-out	03232 [4]	03232 [4]	
[Nb. of vertical modules] upstream	03801 [1]	-	
downstream	-	03801 [1]	
<b>Upstream connection</b>			
Cables + Long terminal shields		 3P : LV429517 4P : LV429518	

Mounting		W600+W300 Horizontal - Fixed - Rotary handle		W850 Horizontal - Fixed - Rotary handle	
					
<b>Devices</b>		<b>CVS100/160/250</b>		<b>Vigi CVS100/160/250</b>	
					
Number of devices per row	1	1	1	1	1
Nb. of vertical modules	4	4	4	4	4
Mounting plates	03031	03031	03031	03031	03031
Front plates cut-out	03232 [4]	03232 [4]	03292 [4]	03292 [4]	03301 [4]
[Nb. of vertical modules] upstream			+ LV429285 (collar)	+ LV429285 (collar)	
downstream					
<b>Upstream connection</b>					
Incoming connection block or cables + Long terminal shields		 3P : LV429517 4P : LV429518			

Downstream distribution	Linergy DP 250 A distribution block	Linergy BW + Power supply block	Rear Linergy BS busbars	Linergy BS multi-stage busbars
				
Busbars / Distrib blocks	3P : 04033 4P : 04034 > page D-12	Linergy BW > page D-4	04191 + copper bars > page D-6	04192 + copper bars > pages D-7, D-8
Power supply block / connection	-	04060 > page C-42	Connection must be made	
Long terminal shields	-	-	 3P : LV429517 4P : LV429518	

**Note:** For cable-tie function, add 2 modules above. > page C-47

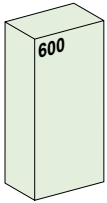
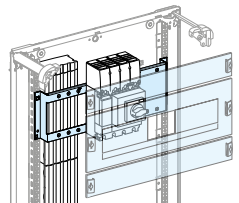
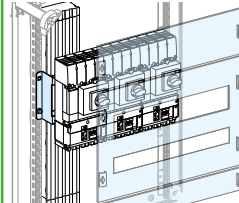

(1) Maximum size of connection cables: 70 mm<sup>2</sup>. For cable cross-sections greater than 70 mm<sup>2</sup>, use of a cable duct is recommended.


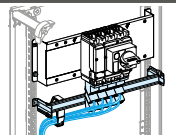
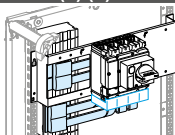
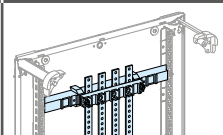
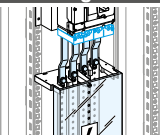





# Easypact CVS and Vigi CVS100/160/250

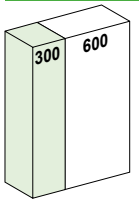
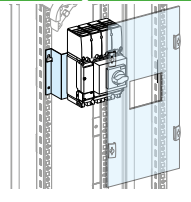

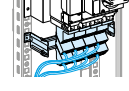
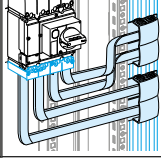
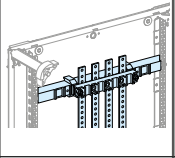
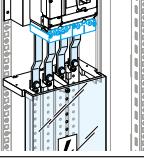




## Vertical mounting - Fixed - Rotary handle

### W600 - W300

Circuit breakers

Mounting	W600 Vertical - Fixed - Rotary handle			
				
<b>Devices</b>	<b>CVS100/160</b>	<b>CVS250</b>	<b>Vigi CVS100/160</b>	<b>Vigi CVS250</b>
Number of devices per row	1 or 4 x 3P or 3 x 4P	1 or 4 x 3P or 3 x 4P	1 or 4 x 3P or 3 x 4P	1 or 4 x 3P or 3 x 4P
Nb. of vertical modules	9	11	10	13
Mounting plates	03041	03041	03041	03041
Front plates cut-out	03243 [5]	03243 [5]	03244 [7] + LV429285 (collar)	03244 [7] + LV429285 (collar)
[Nb. of vertical modules]	upstream	03802 [2]	03802 [2]	03804 [4]
	downstream	03802 [2]	03802 [2]	03802 [2]
<b>Upstream connection</b>				
Long terminal shields	 3P : LV429517 4P : LV429518			

Downstream distribution	Linergy DP 250 A distribution block	Linergy BW + Power supply block (1) (2)	Rear Linergy BS busbars	Linergy BS multi-stage busbars
				
Busbars / Distrib blocks	3P : 04033 + 03002 4P : 04034 > page D-12	CVS Linergy BW + 04061 (2) > page D-4 	04191 + copper bars > page D-6	04192 + copper bars > pages D-7, D-8
Power supply block / connection	-	04062 > page D-5 	+ connection to made	Connection must be made
Long terminal shields	-	 3P : LV429515 4P : LV429516	 3P : LV429517 4P : LV429518	 3P : LV429515 4P : LV429516

Mounting	W300 Vertical - Fixed - Rotary handle	Downstream distribution	Linergy DP 250 A distribution block in duct	Insulated Linergy BW busbars (2)	Rear Linergy BS busbars	Linergy BS multi-stage busbars
						
<b>Devices</b>	<b>CVS100/160/250</b>	<b>Type of connected switchgear</b>	<b>All types</b>	<b>CVS</b>	<b>All types</b>	<b>All types</b>
Number of devices per row	1	Busbars / Distrib blocks	3P : 04033 4P : 04034 + 03011 > page D-12	Linergy BW > page D-4	04191 + copper bars > page D-6	04192 + copper bars > pages D-7, D-8
Nb. of vertical modules	9	Power supply block	-	04061 > page C-43	-	-
Mounting plates	03051	Connection	-	04064 > page C-43	Connection must be made	04065 > page C-44
Front plates cut-out	03253 [9]	Short / Long terminal shields	-	3P : LV429515 4P : LV429516 	3P : LV429517 4P : LV429518 	3P : LV429515 4P : LV429516 
<b>Upstream connection</b>						
Long terminal shields	 3P : LV429517 4P : LV429518					

**Note:** For cable-tie function, add 1 module above. > page C-47

(1) 1 device centred on mounting plate.

(2) Space available at the top of the enclosure after mounting the universal power supply block:

- CVS100/250 = 7 modules

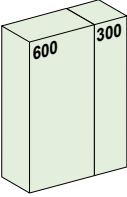
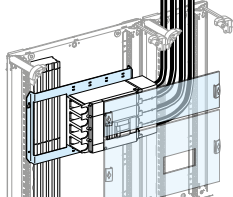
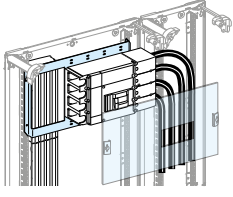



- Vigi CVS100/250 = 9 modules. Space required by power supply block on Linergy BW busbars = 5 modules.

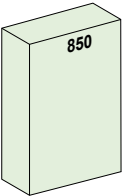
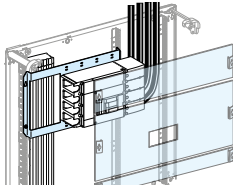
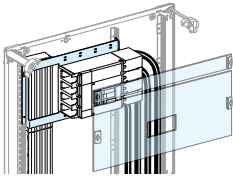



# Easypact CVS400/630


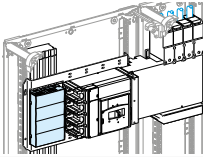
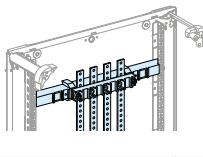
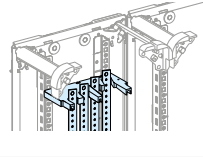



## Horizontal mounting - Fixed - Toggle

W600+W300 - W850

Circuit breakers

Mounting		W600+W300 Horizontal - Fixed - Toggle	
			
<b>Devices</b>	<b>CVS400/630</b> 	<b>CVS400/630</b> 	
Number of devices per row	1	1	
Nb. of vertical modules	9	6	
Mounting plates	03070	03070	
Front plates cut-out	03270 [6]	03270	
[Nb. of vertical upstream modules]	03803 [3]	-	
<b>Upstream connection</b>			
Cables + Long terminal shields	 3P : LV432593 4P : LV432594		

Mounting		W850 Horizontal - Fixed - Toggle	
			
<b>Devices</b>	<b>CVS400/630</b> 	<b>CVS400/630</b> 	
Number of devices per row	1	1	
Nb. of vertical modules	9	6	
Mounting plates	03070	03070	
Front plates cut-out	03286 [6]	03286 [6]	
[Nb. of vertical upstream modules]	03853 [3]	-	
[Nb. of vertical downstream modules]	-	-	
<b>Upstream connection</b>			
Cables + Long terminal shields	 3P : LV432593 4P : LV432594		

Downstream distribution	Insulated Linergy BW busbars	Rear Linergy BS busbars	Linergy BS multi-stage busbars
			
<b>Type of connected devices</b>	<b>CVS400</b> <b>Linergy BW</b> > page D-4	<b>CVS400</b> <b>CVS630</b>	<b>All types</b>
<b>Busbars</b>		<b>04191 + copper bars</b> > page D-6	<b>04192 + copper bars</b> > pages D-7, D-8
<b>Power supply block / connection</b>	 <b>04070</b> > page C-42	 <b>04071</b> > page C-42	Connection must be made
<b>Long terminal shields</b>	-	 3P : LV429593 4P : LV429594	

**Note:** For cable-tie function, add 2 modules above. > page C-51

# Easypact CVS and Vigi CVS400/630

## Vertical mounting - Fixed - Toggle / Rotary handle

### W600 - W300

Circuit breakers

Mounting	W600 Vertical - Fixed - Toggle				W600 Vertical - Fixed - Rotary handle	
<b>Devices</b>	<b>CVS400</b>	<b>CVS630</b>	<b>Vigi CVS400</b>	<b>Vigi CVS630</b>	<b>CVS400/630</b>	<b>Vigi CVS400/630</b>
Number of devices per row	1	1	1	1	1	1
Nb. of vertical modules	12	13	14	15	15	18
Mounting plates	03073	03073	03073	03073	03074	03074
Front plates cut-out	03273 [9]	03273 [9]	03276 [11]	03276 [11]	03275 [9]	03297 [11] + collar LV429285
[Nb. of vertical modules] upstream	03803 [3]	03803 [3]	03803 [3]	03803 [3]	03803 [3]	03803 [3]
downstream	-	03801 [1]	-	03801 [1]	03803 [3]	03803 [4]
<b>Upstream connection</b>						
Cables + Long terminal shields	3P : LV432593 4P : LV432594					

Downstream distribution	Insulated Linergy BW busbars (1)		Rear Linergy BS busbars		Linergy BS multi-stage busbars
<b>Type of connected devices</b>	<b>CVS400/630</b>		<b>CVS400</b>		<b>CVS630</b>
Busbars	Linergy BW > page D-4		04191 + copper bars > page D-6		LGY4193 + copper bars > page D-6
Power supply block / connection	04074 > page C-43 Connection must be made		Connection must be made		04192 + copper bars > pages D-7, D-8
Long terminal shields	3P : LV432593 4P : LV432594				

Mounting	W300 Vertical - Fixed - Toggle		W300 Vertical - Fixed - Rotary handle
<b>Devices</b>	<b>CVS400/630</b>	<b>Vigi CVS400/630</b>	<b>CVS400/630</b>
Number of devices per row	1	1	1
Nb. of vertical modules	12	13	12
Mounting plates	03080	03080	03081
Front plates cut-out	03280 [8]	03282 [5]	03283 [12]
[Nb. of vertical modules] upstream	03812 [2]	03814 [4]	-
downstream	03812 [2]	03814 [4]	-
<b>Upstream connection</b>			
Cables + Long terminal shields	3P : LV432593 4P : LV432594		

Downstream distribution	Insulated Linergy BW busbars	Rear Linergy BS busbars	Linergy BS multi-stage busbars
<b>Type of connected devices</b>	<b>All types</b>	<b>All types</b>	<b>All types</b>
Busbars	Linergy BW > page D-4	04191 / LGY4193 + copper bars > page D-6	04192 + copper bars > pages D-7, D-8
Power supply block Connection	04074 > page C-43 04073 > page C-43	- Must be made	04075 > page C-44
Short/Long terminal shieldS	3P : LV432591 4P : LV432592	3P : LV432593 4P : LV432594	3P : LV432591 4P : LV432592
Barrier	Included	04198	04197

**Note:** For cable-tie function, add 1 module above. > page C-47  
 (1) Space required by power supply block on Linergy BW busbars = 5 modules.

# Easypact EZC and EZCV100/630

## Horizontal mounting - Fixed - Toggle

### W600 - W600+W300

Circuit breakers

Mounting		W600 Horizontal - Fixed - Toggle (1)			
<b>Devices</b>		<b>EZC100-160</b>		<b>EZCV100-160</b>	
Number of devices per row		1	1	1	1
Nb. of vertical modules		5	5	5	5
Mounting plates		03104	03104	03104	03104
Front plates cut-out		03304 [4]	03304 [4]	03304 [4]	03304 [4]
[Nb. of vertical modules] upstream		03801 [1]	-	03801 [1]	-
downstream		-	03801 [1]	-	03801 [1]
<b>Upstream connection</b>					
Cables + Long terminal shields		3P : EZETSHD3P 4P : EZETSHD4P			
Mounting		W600+W300 Horizontal - Fixed - Toggle			
<b>Devices</b>		<b>EZC-EZCV100/250</b>		<b>EZC400/630</b>	
Number of devices per row		1	1	1	1
Nb. of vertical modules		4	4	9	6
Mounting plates		03104	03104	03070	03070
Front plates cut-out		03304 [4]	03304 [4]	03270 [6]	03270 [6]
[Nb. of vertical modules] upstream		-	-	03803 [3]	-
<b>Upstream connection</b>					
Cables + Long terminal shields		3P : EZETSHD3P 4P : EZETSHD4P		3P : LV429593 4P : LV429594	
Downstream distribution		Rear Linergy BS busbars		Linergy BS multi-stage busbars	
<b>Type of connected devices</b>		<b>EZC250/EZCV250</b>		<b>EZC250/EZCV250</b>	
Busbars		04191 + copper bars > page D-6		04192 + copper bars > pages D-7, D-8	
Connection		Connection must be made			
Long terminal shields		3P : EZETSHD3P 4P : EZETSHD4P		3P : LV429593 4P : LV429594	

**Note:** For cable-tie function, add 2 modules above. > page C-47

(1) Maximum size of connection cables: 70 mm<sup>2</sup>. For cable cross-sections greater than 70 mm<sup>2</sup>, use of a cable duct is recommended.

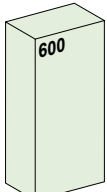
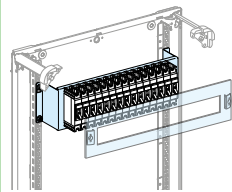
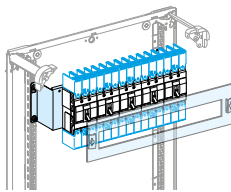
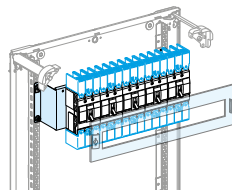





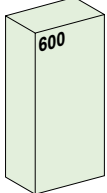
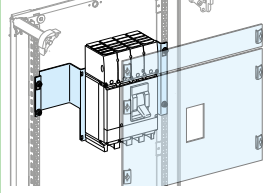

# Easypact EZC and EZCV100/630


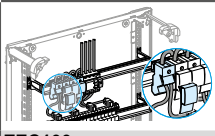
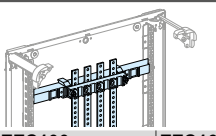
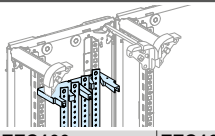







## Vertical mounting - Fixed - Toggle

### W600

Circuit breakers

Mounting		W600 Vertical - Fixed - Toggle				
						
<b>Devices</b>		<b>EZC100</b>				<b>EZC160-250/EZCV160-250</b>
Number of devices per row		15 x 1P		5 x 3P		3 x 4P
Nb. of vertical modules		5		5		5
Mounting plates		03102		03102		03102
Front plates cut-out		03303 [5]		03303 [5]		03303 [5]
[Nb. of vertical modules]						
<b>Upstream connection</b>						
Cables + Long terminal shields		 1P : - 3P : EZATSHD3P 4P : EZATSHD4P				 3P : EZETSHD3PN 4P : EZETSHD4PN
Divisible blanking plates		 <b>03249</b> > page C-52				

Mounting		W600 Vertical - Fixed - Toggle	
			
<b>Devices</b>		<b>EZC400</b>	<b>EZC630</b>
Number of devices per row		1	1
Nb. of vertical modules		12	13
Mounting plates		03073	03073
Front plates cut-out		03273 [9]	03273 [9]
[Nb. of vertical modules] upstream		03803 [3]	03803 [3]
downstream		-	03801 [1]
<b>Upstream connection</b>			
Cables + Long terminal shields		 3P : LV429593 4P : LV429594	

Downstream distribution	Linergy DX 1P, 160 A distribution block	Rear Linergy BS busbars			Linergy BS multi-stage busbars		
							
<b>Type of connected devices</b>	EZC100	EZC100	EZC160/250 EZCV160/250	EZC400/630	EZC100	EZC160/250 EZCV160/250	EZC400/630
Busbars / Distrib blocks	04031 (x nb of pole) + (rail) 03001 > page D-11	04191 + copper bars > page D-6			04192 + copper bars > pages D-7, D-8		
Connection	Connection must be made						
Long terminal shields	3P : EZETSHD3P 4P : EZETSHD4P	3P : EZETSHD3PN 4P : EZETSHD4PN	3P : LV429593 4P : LV429594	3P : LV429593 4P : LV429594	3P : EZETSHD3P 4P : EZETSHD4P	3P : EZETSHD3PN 4P : EZETSHD4PN	3P : LV429593 4P : LV429594
							

**Note:** For cable-tie function, add 1 module above. > page C-47

Compact INS-INV100/160/250

Horizontal mounting - Fixed - Direct front handle

W600 - W600+W300 - W850

Switch-disconnector

Mounting		W600 Horizontal - Fixed - Direct front handle							
Devices		INS250-INV100/160		INS250-INV100/160					
Number of devices per row		1		1					
Nb. of vertical modules		5		5					
Mounting plates		03030		03030					
Front plates cut-out		03231 [4]		03231 [4]					
[Nb. of vertical upstream modules]		03801 [1]		03801 [1]					
downstream		-		-					
downstream		03801 [1]		03801 [1]					
Upstream connection		04066 > page C-42		04067 > page C-42					
Incoming connection block or cables + Long terminal shields									
				3P : LV429517 4P : LV429518					
Mounting		W600+W300 Horizontal - Fixed - Direct front handle				W850 Horizontal - Fixed - Direct front handle			
Devices		INS-INV100/160/250				INS-INV100/160/250			
Number of devices per row		1		1		1		1	
Nb. of vertical modules		5		4		5		4	
Mounting plates		03030		03030		03030		03030	
Front plates cut-out		03231 [4]		03231 [4]		03239 [4]		03239 [4]	
[Nb. of vertical upstream modules]		03801 [1]		-		03851 [1]		-	
downstream		-		03801 [1]		-		-	
downstream		-		-		03851 [1]		-	
Upstream connection		04066 > page C-42		04067 > page C-42		3P : LV429517 4P : LV429518		04066 > page C-42	
Incoming connection block or cables + Long terminal shields									
								3P : LV429517 4P : LV429518	
Downstream distribution		Linergy DP 250 A distribution block		Insulated Linergy BW busbars (1)		Rear Linergy BS busbars		Linergy BS multi-stage busbars	
Type of connected devices		INS250-INV100/250		INS250-INV100/250		INV-INV250		INV-INV250	
Busbars / Distrib blocks		3P : 04033 4P : 04034 > page D-12		Linergy BW > page D-4		04191 + copper bars > page D-6		04192 + copper bars > pages D-7, D-8	
Power supply block / connection		Connection must be made		04060 > page C-42		Connection must be made		Connection must be made	
Long terminal shields		-		-		3P : LV429517 4P : LV429518		3P : LV429517 4P : LV429518	

Note: For cable-tie function, add 2 modules above. > page C-47

(1) Maximum size of connection cables: 70 mm<sup>2</sup>. For cable cross-sections greater than 70 mm<sup>2</sup>, use of a cable duct is recommended.

# Compact INS-INV100/250

## Vertical mounting - Fixed - Direct front handle

W600 - W300



Designed for PowerTag NSX  
Switch-disconnector

Mounting		W600 Vertical - Fixed with or without spreaders	
<b>Devices</b>	<b>INS250-INV100/160/250</b>	<b>INS-INV250 lateral handle</b>	
Number of devices per row	1	1	
Nb. of vertical modules	8 or 9	8 or 9	
Mounting plates	03040	03032	
Front plates cut-out	03248 [5]	03806 [6] (plain front plate)	
[Nb. of vertical modules]	upstream 03801 [1]	-	
	downstream 03802 [2]	03802 [2]	
	downstream with PowerTag NSX 03803 [3]	03803 [3]	

Upstream connection	
Cables + Long terminal shields	3P : LV429517 4P : LV429518

Downstream distribution	Linery DP 250 A distribution block (1)	Insulated Linergy BW busbars (2)	Rear Linergy BS busbars	Linery BS multi-stage busbars	
<b>Type of connected devices</b>	Direct front handle INS-INV100/250	Lateral handle INS-INV100/250	INS-INV100/250	INS-INV250	
Busbars / Distrib blocks	3P : 04033 4P : 04034 + 03002 > page D-12	3P : 04033 4P : 04034 + 04037 (3) + 03003 > page D-12	Linergy BW > page D-4	04191 + copper bars > page D-6	04192 + copper bars > pages D-7, D-8
Power supply block / connection	-	04060 + 04062 > page C-43 	Connection must be made		
Long terminal shields	-	3P : LV429515 4P : LV429516	3P : LV429517 4P : LV429518	3P : LV429517 4P : LV429518	

Mounting		W300 Vertical - Fixed with or without spreaders			
<b>Devices</b>	<b>INS-INV100/160/250</b>	<b>Downstream distribution</b>	<b>Linery DP 250 A distribution block</b>	<b>Insulated Linergy BW busbars (2)</b>	<b>Rear Linergy BS busbars</b>
Number of devices per row	1				
Nb. of vertical modules	9 or 10	<b>Type of connected devices</b>	Direct front handle INS-INV100/250	INS-INV100/250	INS-INV100/250
Mounting plates	03050	Busbars / Distrib blocks	3P : 04033 4P : 04034 + 03011 > page D-12	Linergy BW > page D-4	04191 + copper bars > page D-6
Front plates cut-out	03251 [9]	Power supply block / connection	-	04061 + 04064 > page C-43 	Connection must be made
[Nb. of vert. modules]	downstream with PowerTag NSX 03811 [1]	Long terminal shields	-	3P : LV429515 4P : LV429516 	3P : LV429517 4P : LV429518 
<b>Upstream connection</b>					
Cables + Long terminal shields	3P : LV429517 4P : LV429518				

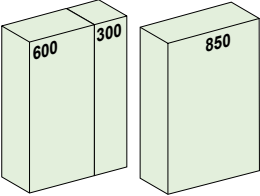
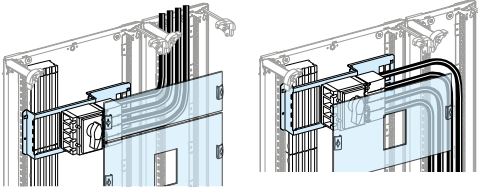
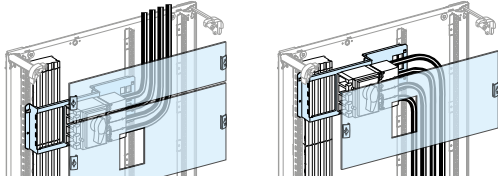




- Note:** For cable-tie function, add 1 module above. > page C-47
- (1) 1 device centred on mounting plate.
  - (2) Space available at the top of the enclosure after mounting the universal power supply block: 7 modules.  
Space required by power on insulated Linergy BW busbars = 5 modules.
  - (3) Copper spacer.

# Compact INS-INV320/630


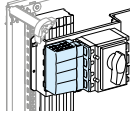
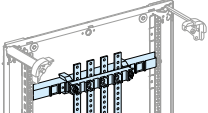
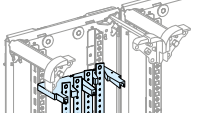


## Horizontal mounting - Fixed - Direct front handle

W600+W300 - W850

Switch-disconnector

Mounting	W600+W300 Horizontal fixed		W850 Horizontal - Fixed	
				
<b>Devices</b>	<b>INS-INV320/630</b>		<b>INS-INV320/630</b>	
				
Number of devices per row	1	1	1	1
Nb. of vertical modules	9	6	9	6
Mounting plates	03070	03070	03070	03030
Front plates cut-out	03271 [6]	03271 [6]	03287 [6]	03287 [6]
[Nb. of vertical upstream modules]	03803 [3]	-	03853 [3]	-

Upstream connection	
Cables + Long terminal shields	 3P : LV432593 4P : LV432594

W600 downstream distribution	Insulated Linergy BW busbars		Rear Linergy BS busbars	Linergy BS multi-stage busbars
				
<b>Type of connected devices</b>	<b>INS-INV320/400</b>	<b>INS-INV500/630</b>	<b>INS-INV320/630</b>	<b>INS-INV320/630</b>
Busbars / Distrib blocks	<b>Linergy BW</b> > page D-4	<b>Linergy BW</b> > page D-4	<b>04191 / LGY4193 + copper bars</b> > page D-6	<b>04192 + copper bars</b> > pages D-7, D-8
Power supply block / connection	<b>04070</b> > page C-42	<b>04071</b> >> page C-42	Connection must be made	
Long terminal shields	-		3P : LV432593 4P : LV432594 	3P : LV432593 4P : LV432594 

**Note:** For cable-tie function, add 2 modules above. > page C-44

# Compact INS-INV320/630

## Vertical mounting - Fixed - Direct front handle

W600 - W300



Designed for PowerTag NSX  
Switch-disconnector

Mounting		W600 Vertical - Fixed with or without spreaders	
<b>Devices</b>	<b>INS320/400</b>	<b>INV500/630</b>	
Number of devices per row	1	1	
Nb. of vertical modules	10 or 12	12 or 14	
Mounting plates	03073	03073	
Front plates cut-out	03274 [10]	03274 [10]	
[Nb. of vertical modules]	upstream	03802 [2]	
	downstream with PowerTag NSX	03804 [4]	
<b>Upstream connection</b>			
Cables + Long terminal shields		 3P : LV429593 4P : LV429594	



Downstream distribution	Insulated Linergy BW busbars	Rear Linergy BS busbars	Linergy BS multi-stage busbars
<b>Type of connected devices</b> Busbars	<b>INS-INV320/630</b> Linergy BW > page D-4	<b>INS-INV320/400</b> 04191 + copper bars > page D-6	<b>INS-INV400/630</b> LGY4193 + copper bars > page D-6
<b>Power supply block / connection</b>	<b>04074</b> > page C-43 Connection must be made	Connection must be made	
<b>Long terminal shields</b>	3P : LV429515 4P : LV429516	3P : LV429517 4P : LV429518	3P : LV429517 4P : LV429518

Mounting	W300 Vertical - Fixed with or without spreaders	
<b>Devices</b>	<b>INS-INV 320/400</b>	<b>INS-INV 500/630</b>
Number of devices per row	1	1
Nb. of vertical modules	10 or 12	12 or 14
Mounting plates	03080	03080
Front plates cut-out	03281 [10]	03281 [10]
[Nb. of vertical modules]	upstream	03812 [2]
	downstream with PowerTag NSX	03802 [2]
<b>Upstream connection</b>		
Cables + Long terminal shields		 3P : LV429593 4P : LV429594

Downstream distribution	Insulated Linergy BW busbars	Rear Linergy BS busbars	Linergy BS multi-stage busbars
<b>Type of connected devices</b> Busbars / Distrib blocks	<b>INS-INV320/630</b> Linergy BW > page D-4	<b>INS-INV320/630</b> 04191 / LGY4193 + copper bars > page D-6	<b>INS-INV320/630</b> 04192 + copper bars > pages D-7, D-8
<b>Power supply block / connection</b>	<b>04074 + 04073</b> > page C-43	Connection must be made	
<b>Long terminal shields</b>	3P : LV429593 4P : LV429594	3P : LV429593 4P : LV429594	3P : LV429593 4P : LV429594

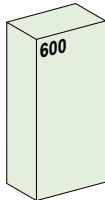
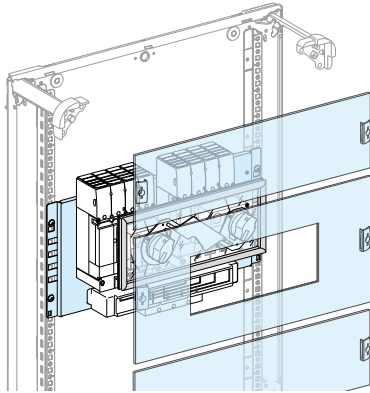
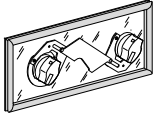

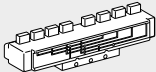


**Note:** For cable-tie function, add 1 module above. > page C-47

# Compact NSX100/250 circuit breakers changeover system

## Vertical mounting - Fixed - Manual source

W600

Changeover system

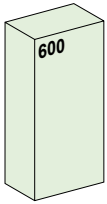
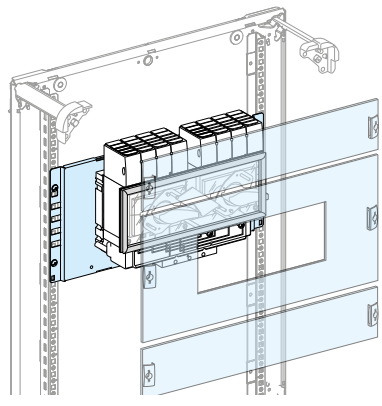
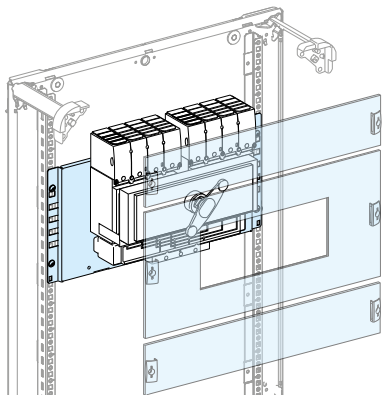
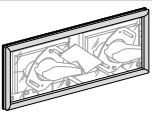

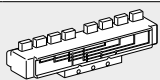

Mounting	W600 Fixed - Changeover with mechanical interlocking
	
Devices	
Nb. of vertical modules	<b>NSX100/250</b> 11
Mounting plates	<b>03043</b>
Front plates cut-out	<b>03245</b> [5]
[Nb. of vertical upstream modules]	<b>03803</b> [3]
downstream	<b>03803</b> [3]
Mechanical interlocking	<b>LV429369</b>
	
Upstream connection	
Cable + Long terminal shields	3P : <b>LV429517</b> 4P : <b>LV429518</b>
	
Coupling accessory	3P : <b>LV429358</b> 4P : <b>LV429359</b>
	
Downstream connection	
	
Cable + Long terminal shields	3P : <b>LV429517</b> 4P : <b>LV429518</b>
	

# Compact INS-INV250 switch-disconnectors changeover system

## Vertical mounting - Fixed - Manual source

### W600

Changeover system

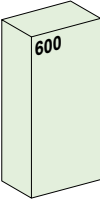
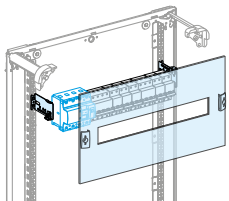
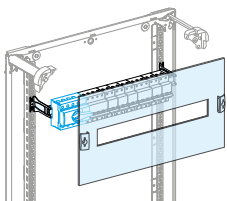
Mounting	W600 Fixed - Changeover with mechanical interlocking)	W600 Fixed - Complete source changeover assembly	
			
<b>Devices</b>	<b>INS-INV250</b>	<b>INS250</b>	
Nb. of vertical modules	<b>10</b>	<b>3P</b>	<b>4P</b>
Mounting plates	<b>03043 + 2 x LV431064 (raiser)</b>	<b>03043</b>	<b>03043</b>
Front plates cut-out	<b>03235 [5]</b>	<b>03247 [5]</b>	<b>03247 [5]</b>
[Nb. of vertical modules] upstream	<b>03803 [3]</b>	<b>03803 [3]</b>	<b>03803 [3]</b>
downstream	<b>03802 [2]</b>	<b>03802 [2]</b>	<b>03802 [2]</b>
Mechanical interlocking / Complete source-changeover assembly	<b>31073</b> 	100 A: <b>31140</b> 160 A: <b>31144</b> 200 A: <b>31142</b> 250 A: <b>31146</b>	100 A: <b>31141</b> 160 A: <b>31145</b> 200 A: <b>31143</b> 250 A: <b>31147</b>
<b>Upstream connection</b>			
Cable + Long terminal shields	3P: <b>LV429517</b> 4P: <b>LV429518</b> 		
Coupling accessory	3P: <b>LV429358</b> 4P: <b>LV429359</b> 		
<b>Downstream connection</b>			
Cable + Long terminal shields	3P: <b>LV429517</b> 4P: <b>LV429518</b> 		

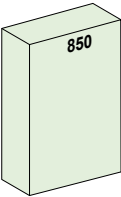
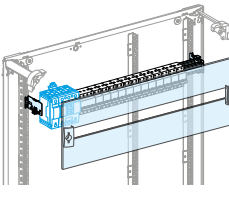
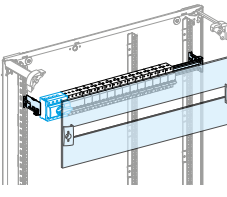
**Note:** For cable-tie function, add 1 module above. > [page C-44](#)

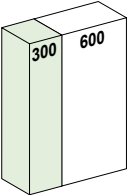
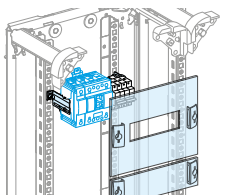
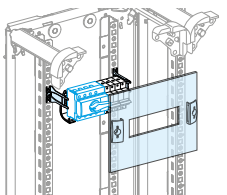



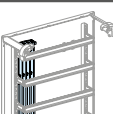
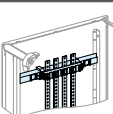
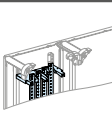
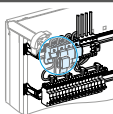
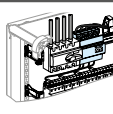
Modular devices ≤ 160 A switchboard incomer  
W600 - W850 - W300

Modular devices

Mounting	W600 Circuit breaker		W600 Switch-disconnector	
				
<b>Devices</b>	NG160, Vigi NG160 (1) (2)	NG125, Vigi NG125, C120, Vigi C120	INS40/160	INS100/160 with long terminal shields
Nb. of vertical modules	5	5	4	5
Rail (48 modules of 9 mm)	03002 (adjustable) (1)	03001	03001	03001
Modular front plates [Nb. of vertical modules]	03205 [5]	03205 [5]	03204 [4]	03205 [5]
Blanking plates	strip 03220 divisible 03221		03220 03221	

Mounting	W850 Circuit breaker		W850 Switches	
				
<b>Devices</b>	NG160, Vigi NG160 (1) (2)	NG125, Vigi NG125	Compact INS40/160	Compact INS100/160 with long terminal shields
Nb. of vertical modules	5	5	4	5
Rail (72 modules of 9 mm)	03007 (adjustable) (2)	03006	03006	03006
Modular front plates [Nb. of vertical modules]	03218 [5]	03218 [5]	03217 [4]	03218 [5]
Blanking plates	strip 03220 divisible 03221	03220 03221	03220 03221	03220 03221

Mounting	W300 Circuit breaker		W300 Switch-disconnector	
				
<b>Devices</b>	NG160 (1)	NG125, Vigi NG125, C120, Vigi C120	INS40/160	INS100/160 with long terminal shields
Nb. of vertical modules	5	4	4	5
Rail (20 modules of 9 mm)	03011 (adjustable) (1)	03010	03010	03010
Front plates [Nb. of vertical modules]	modular 03214 [4] downstream 03811 [1]	03214 [4] -	03214 [4] -	03214 [4] 03811 [1]
Blanking plates	strip 03220 divisible 03221	03220 03221	03220 03221	03220 03221

Downstream distribution	Insulated Linergy BW busbars	Rear Linergy BS busbars	Linergy BS Multi-stage busbars in duct	Distribution block, Linergy DX 1P, 160 A	Distribution block, Linergy DX 4P, 125 A/160 A	
						
<b>Type of connected devices</b> Busbars / Distrib blocks	All types Linergy BW > page D-4	All types 04191+ copper bars > page D-6	All types 04192+ copper bars > pages D-7, D-8	All types 04031 > page C-16	125A 04045 > page C-16	160A 04046 > page C-16
Connection	> page D-5	Must be made	Must be made	04149	04047	supplied with

(1) End of life mid 2018 substituted by NSXm > page C-4.

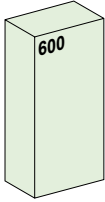
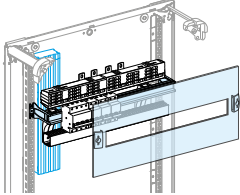
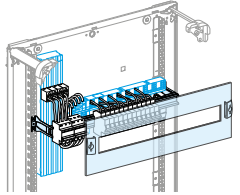
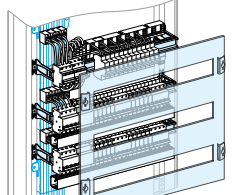
(2) Can be completed by a rail + raiser (cat no. 04227) to install modular devices on.

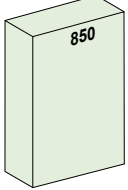
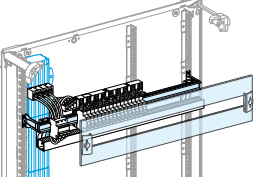


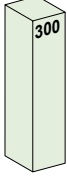
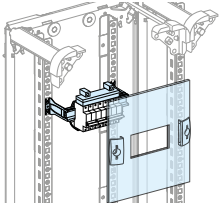
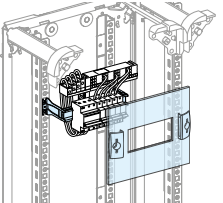
# Modular devices outgoers ≤ 63 A

W600 - W850 - W300

## Modular devices

Mounting	W600 Distances between centres : 200 mm	W600 Distances between centres : 150 mm	
			
<b>Devices</b>	<b>All modular devices</b>	<b>Modular devices ≤ 40 A</b>	
Rail length (modules of 9 mm)	48	48	48 x 3
Nb. of vertical modules	4 (1)	3	8
Rail (48 modules of 9 mm)	03001	03001	03001 x 3
Modular front plates [Nb. of vertical modules]	03204 [4]	03203 [3]	03223 [8]
Blanking plates	strip	03220	03220
	divisible	03221	03221

Mounting	W850 distance between centres : 200 mm	W850 Distance between centres : 150 mm
		
<b>Devices</b>	<b>All modular devices</b>	<b>Modular devices ≤ 40 A</b>
Rail length (modules of 9 mm)	72	72
Nb. of vertical modules	4	3
Rail (72 modules of 9 mm)	03006	03006
Modular front plates [Nb. of vertical modules]	03217 [4]	03216 [3]
Blanking plates	strip	03220
	divisible	03221

Mounting	W300 Distance between centres : 200 mm	W300 Distance between centres : 150 mm
		
<b>Devices</b>	<b>All modular devices</b>	<b>Modular devices ≤ 40 A</b>
Rail length (modules of 9 mm)	20	20
Nb. of vertical modules	4	3
Rail (20 modules of 9 mm)	03010	03010
Modular front plate [Nb. of vertical modules]	03214 [4]	03213 [3]
Blanking plates	strip	03220
	divisible	03221

Downstream distribution	Linergy FH comb busbar	Distribution system Linergy FM 63 A
		
<b>Type of connected devices</b>	<b>According devices</b>	<b>04008</b>
Comb Busbars / Distrib system	> page D-18	> page D-16

(1) For a modular row with Linergy FM160 or 200 A positioned directly below a non-modular mounting plate (Compact...) or at the top of a switchboard, add 1 module (4+1) and a plain upstream front plate (cat no. 03801).



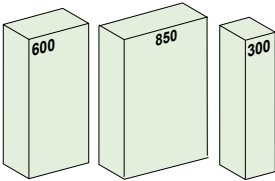
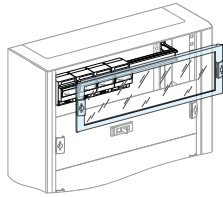
Other modular devices

Switchboard lighting

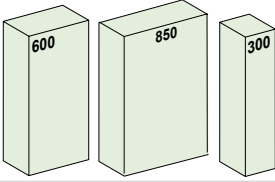
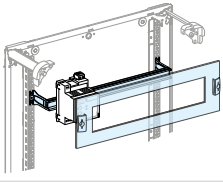
W600 - W850 - W300

Other devices

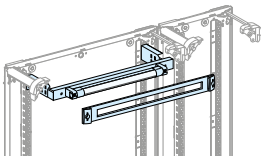
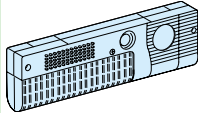
Other devices behind transparent front plates

		W600	W850 (4)	W300
				
<b>Nb. of modules</b>	<b>Height</b>			
4	200 mm	03342	-	03352
6	300 mm	03343	03363	03353
9	450 mm	03344	03364	03354
12	600 mm	03345	-	-

Vigirex, Vigilohm and other modular devices

		W600	W600	W850	W300
					
<b>Devices</b>		<b>Vigirex (1), Vigilohm (2)</b>		<b>Other modular devices (3)</b> ammeter, voltmeter, lamp, pushbuttons	
Nb. of vertical modules		3	2	3	3
Rail (48 modules of 9 mm)		03001	03001	03006	03010
Cut-out front plates		03203	03202	03216	03213

Lighting

	W600 fixed lighting	Switchboard portable lamp
		
Catalogue number	<b>08964</b>	<b>08965</b>
Presentation	This system is generally used to illuminate the front of a switchboard.	<ul style="list-style-type: none"> <li>■ Lamp with a magnetic base for installation behind a door or directly on the cubicle framework.</li> <li>■ Supplied without a power cord</li> <li>■ H x W x D: 90 x 345 x 42</li> </ul>
Characteristics	<ul style="list-style-type: none"> <li>■ Supply voltage: 220/240 V</li> <li>■ Power rating: 8 W</li> <li>■ Height: 1 module vertical (50 mm)</li> </ul>	<ul style="list-style-type: none"> <li>■ Supply voltage: 220/240 V</li> <li>■ Power rating: 11 W</li> <li>■ Lamp: picoline OSRAM 8W (supplied)</li> <li>■ Class 2</li> <li>■ IP20</li> </ul>

(1) RH10, RH21, RH99, RMH relay and RM12T Multiplexer.

(2) IM9, IM9-OL, IM20, IM20H.

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

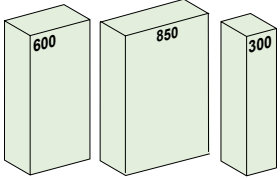
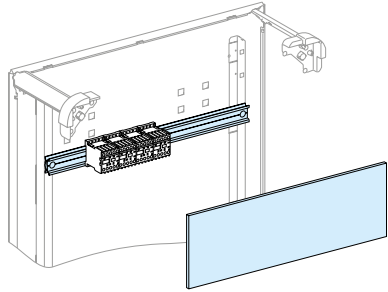
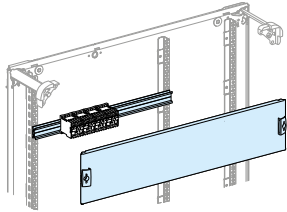
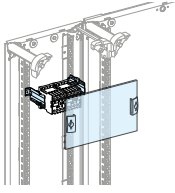
(4) 2/3 transparent front plate.



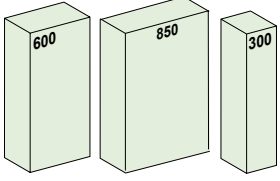
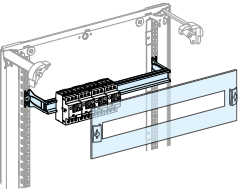
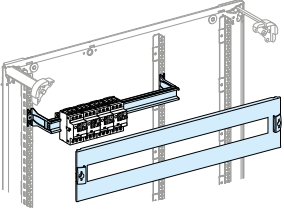
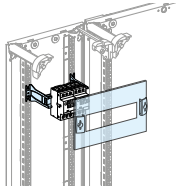
TeSys, Altistart, Phaseo  
W600 - W850 - W300

Industrial control devices

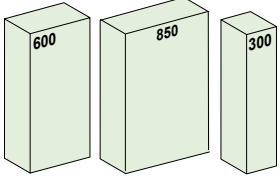
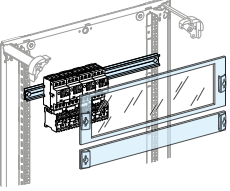
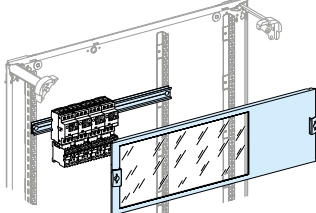
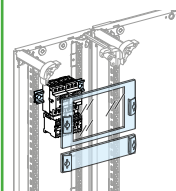
TeSys D, TeSys K contactors

Mounting	W600	W850	W300
			
<b>Devices</b>	LC1D● or LC1K● (≤ 40 A)	LC1D● or LC1K● (≤ 40 A)	LC1D● or LC1K● (≤ 40 A)
Useful length for rail	432 mm	648 mm	180 mm
Nb. of vertical modules	3	3	3
Modular rail	03004 (in rear)	03007	03011 (adjustable)
Plain front plate	03803	03853	03813

TeSys GV2/GV3 circuit breakers

Mounting	W600			W850			W300		
									
<b>Devices</b>	TeSys GV2L, GV2P	TeSys GV2RT, GV2ME, GV2LE	TeSys GV3	TeSys GV2L, GV2P	TeSys GV2RT, GV2ME, GV2LE	TeSys GV3	TeSys GV2L, GV2P	TeSys GV2RT, GV2ME, GV2LE	TeSys GV3
Useful length for rail	432 mm	432 mm	432 mm	648 mm	648 mm	648 mm	180 mm	180 mm	180 mm
Nb. of vertical modules	3	3	5	3	3	5	3	3	5
Modular rail	03002	03001	03002	03007	03006	03007	03011	03010	03011 (adjustable)
Front plates [Nb. of vertical modules]	cut-out	03203 [3]	03203 [3]	03205 [5]	03216 [3]	03216 [3]	03218 [3]	03213 [3]	03213 [3]
	upstream	-	-	-	-	-	-	-	03811 [1]
	downstream	-	-	-	-	-	-	-	03811 [1]
Blanking plates > page C-52	strip	03220							
	divisible	03221							

Combined TeSys GV2 circuit breaker + TeSys GV3P●●1 contactor

Mounting	W600		W850		W300		
							
<b>Devices</b>	GV2 + LC1D● or LC1K● (≤ 40 A)	GV3P●●1	GV2 + LC1D● or LC1K● (≤ 40 A)	GV3P●●1	GV2 + LC1D● or LC1K● (≤ 40 A)	GV3P●●1	
Useful length for rail	432 mm	432 mm	648 mm	648 mm	180 mm	180 mm	
Nb. of vertical modules	5	7	6	9	5	7	
Modular rail	03004 (in rear)	03004	03007	03007	03011 (adjustable)	03011	
Front plates [Nb. of vertical modules]	transparent	03342 [4]	03343 [6]	03363 [6]	03364 [9]	03352 [4]	03353 [6]
	downstream	03801 [1]	03801 [1]			03811 [1]	03811 [1]

TeSys, Altistart, Phaseo

W600 - W850 - W300

Industrial control devices

TeSys U starter-controller

Mounting		W600 behind front plate		W850 behind front plate		W300 behind front plate	
<b>Devices</b>		<b>TeSys U</b>		<b>TeSys U (1)</b>		<b>TeSys U</b>	
Useful length for rail		432 mm		432 mm		180 mm	
Nb. of vertical modules		5		4		5	
Rail		03004 (in rear)		03004 (in rear)		03011 (adjustable)	
Front plates transparent		03342 [4] (2)		03342 [4] (3)		03352 [4] (2)	
[Nb. of vertical modules] downstream		03801 [1]		-		03811 [1]	
				03007		03011 (adjustable)	
				03363 [6]		03352 [4] (3)	
						-	

Soft starters Altistart 01

Mounting		W600 behind front plate			W850 behind front plate		W300 behind front plate
<b>Devices</b>		<b>On rail</b>			<b>On recessed slotted mounting plate</b>		<b>On rail</b>
		ATS01N103FT ATS01N106FT	ATS01N109FT ATS01N112FT ATS01N206 to 212 ATS01N230LY ATS01N244LY ATS01N244Q	ATS01N222 to 232	ATS01N272LY, ATS01N285LY ATS01N272Q, ATS01N285Q	ATS01N103FT ATS01N106FT	ATS01N109FT ATS01N112FT ATS01N206 to 212 ATS01N222 to 232 ATS01N230LY ATS01N244LY ATS01N244Q
Useful length		432 mm	432 mm	432 mm	420 mm	648 mm	648 mm
Nb. of vertical modules		4	5	6	6	4	6
Rail		03004 (in rear)	03003	03003	-	03007	03007
Slotted plate		-	-	-	03172	-	-
Front plates transparent		03342 [4]	-	03343 [6]	03343 [6]	03342 [4]	03343 [6]
[Nb. of vertical modules] plain		03804 [4]	03805 [5]	03806 [6]	03806 [6]	03804 [4]	03806 [6]
							03011 (adjustable)
							03814 [4]

Supply and LV/LV Phaseo transformer

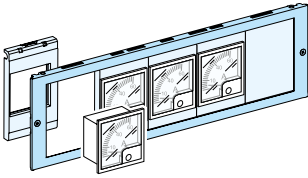
Mounting		W600 behind front plate	W300 behind front plate
<b>Devices</b>		<b>On recessed slotted mounting plate</b>	<b>On slotted plate</b>
		ABL6TS/TD, ABL6-RF	ABL6TS/TD, ABL6-RF
Useful length for mounting plate		420 mm	172 mm
Nb. of vertical modules		4	4
Slotted plates		03171	03175
Front plates transparent		03342 [4]	03352 [4]
[Nb. of vertical mod.] plain		03804 [4]	03814 [4]

(1) TeSys U without communication module, neither auxiliary contact, neither inverter module.  
 (2) If the communication module is installed, the transparent front plate is mandatory. If not, the 2 front plates can be replaced by one plain front plate (cat.no 03805) in wall-mounted or floor-standing enclosure, 03815 in duct.  
 (3) Or plain front plate (cat.no 03804 in wall-mounted or floor-standing enclosure, 03814 in duct).

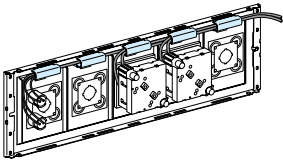
2 types of device mounting  
72 x 72 and 96 x 96

①

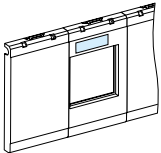
> On an interface with plastic mounting plates clipped onto the metal front plate with cut-outs



- 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.



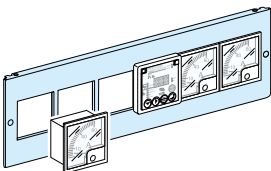
- A system at the rear of the mounting plates guides the wires.



- Each mounting plate can receive an adhesive label.
- Plain mounting plates are available to blank off any unused locations.

②

> Directly on a metal front plate with cut-outs

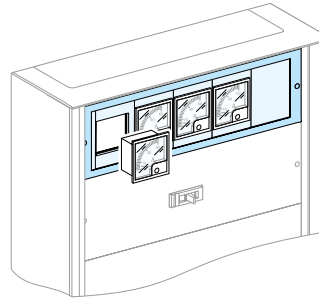


- Devices are attached directly to the metal front plate.
- Blanking plates are available to blank off any unused locations.

2 mounting types in Prisma G

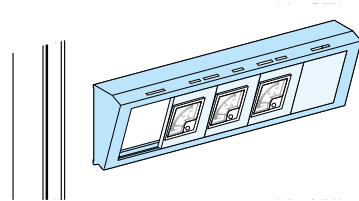
①

> In the device zone of wall-mounted and floor-standing enclosures



②

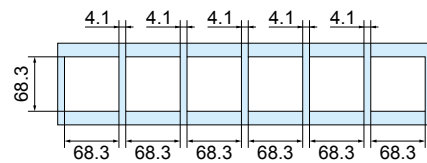
> On a plain door with cut-outs, on an inclined visor by 30°



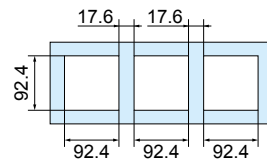
- With cut-out plastic mounting plate directly clipped on the visor.
- Supplied with a drilling diagram for mounting on a plain door.

Precut dimensions

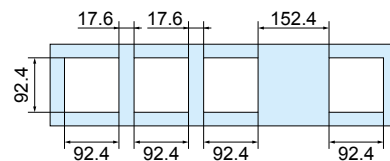
- Cat. number **03910**



- Cat. number **03911**



- Cat. number **03925**




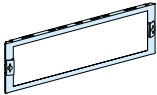



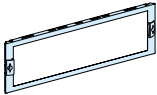



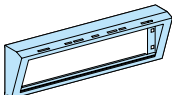



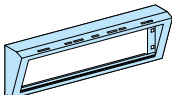



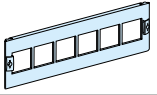


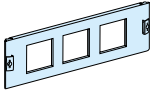


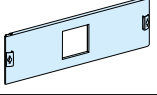


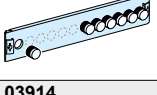

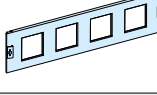


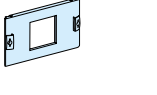

Note: device mounting on door: earthing braid (ref. 08910) or earthing wire (ref. 08911).

# Human-switchboard interface

Devices 72 x 72 - 96 x 96

Ø22 Lamps and pushbuttons

Other devices

No. and type of devices per row	Metal front plate with cut-outs	Nb. of vertical modules	Plastic mounting plates cut-out	Blanking plate or devices support
<b>Mounted on W600 front plate with interface and/or plastic plate</b>				
5 x  Vigirex and other devices 72 x 72		3		 To blank-off or install: - from 1 to 4 buttons Ø 16 or 22 mm - 1 device, 45 x 45
			<b>03902</b>	<b>03900</b>
4 x  Power Meter and other devices 96 x 96		3		 To blank-off or install: - from 1 to 4 buttons Ø 16 or 22 mm - 1 device, 45 x 45 - 1 device, 72 x 72
			<b>03903</b>	<b>03901</b>
<b>Mounted on W600 canopy tilted to 30° with plastic plate</b>				
5 x  Vigirex and other devices 72 x 72		3		 To blank-off or install: - from 1 to 4 buttons Ø 16 or 22 mm - 1 device, 45 x 45
			<b>03902</b>	<b>03900</b>
4 x  Power Meter and other devices 96 x 96		3		 To blank-off or install: - from 1 to 4 buttons Ø 16 or 22 mm - 1 device, 45 x 45 - 1 device, 72 x 72
			<b>03903</b>	<b>03901</b>
<b>Directly mounted on W600 metal front plate with cut-out</b>				
<b>72 x 72 devices</b>				
6 x  Vigirex and other devices 72 x 72		3	Direct mounting	 To blank-off or install: - from 1 or 2 buttons Ø 22 mm - 1 device, 45 x 45
	<b>03910 (2)</b>		-	<b>03907</b>
<b>96 x 96 devices</b>				
3 x  Power Meter and other devices 96 x 96		3	Direct mounting	 To blank-off or install: - from 1 or 2 buttons Ø 22 mm - 1 device, 45 x 45 - 1 device, 72 x 72
	<b>03911 (2)</b>		-	<b>03908</b>
1 x  Power Meter and other devices 96 x 96		3	Direct mounting	 To blank-off or install: - from 1 or 2 buttons Ø 22 mm - 1 device, 45 x 45 - 1 device, 72 x 72
	<b>03913</b>		-	<b>03908</b>
<b>Pushbuttons and lamps Ø22 mm</b>				
12 x 		2	Direct mounting	
	<b>03914</b>		-	-
<b>Directly mounted on W850 metal front plate with cut-outs</b>				
4 x  Power Meter and other devices 96 x 96		3	Direct mounting	 To blank-off or install: - from 1 or 2 buttons Ø 22 mm - 1 device, 45 x 45 - 1 device, 72 x 72
	<b>03925 (2)</b>		-	<b>03908</b>
<b>Directly mounted on W300 metal front plate with cut-outs</b>				
1 x  Power Meter and other devices 96 x 96		3	Direct mounting	 To blank-off or install: - from 1 or 2 buttons Ø 22 mm - 1 device, 45 x 45 - 1 device, 72 x 72
	<b>03923</b>		-	<b>03908</b>

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

(1) The visor (cat. no. **03928**) can be installed on a plain door with cut-out.


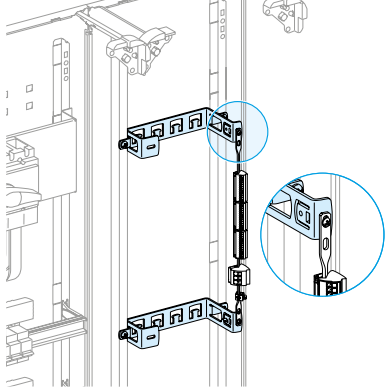
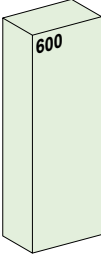
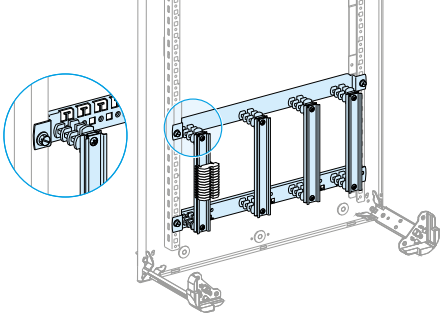
(2) Precut dimensions "Human-switchboard interface", [page C-38](#)

# Terminal block and earth bar installation

## Accessories


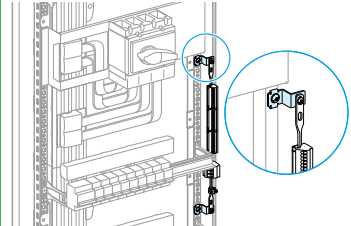
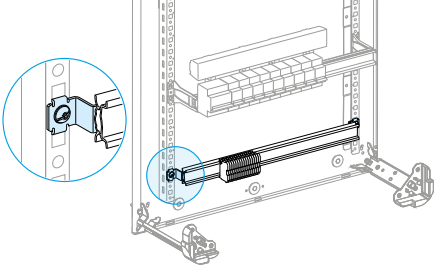
### Support plate and dedicated mounting plate, in device compartment

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.

Used for	On mounting plate for terminal block and Linergy TB earth bar	Used for	In device compartment
			
Number of vertical modules	-		5 (250 mm)
Catalogue number	<b>04220</b>		<b>04223</b>
Characteristics	<ul style="list-style-type: none"> <li>■ A mounting plate made up of two supports, is equipped with:                             <ul style="list-style-type: none"> <li>□ a 1600 mm modular rail (04226) for terminal blocks</li> <li>□ Linergy TB earth bar &gt; <a href="#">page D-23</a></li> </ul> </li> <li>■ The supports have cut-outs that can be used to easily tie down the connection wires.</li> </ul>		<ul style="list-style-type: none"> <li>■ 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.</li> <li>■ 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.</li> <li>■ The assembly has cut-outs that can be used to easily tie down the connection wires.</li> <li>■ Linergy TB earth bars and Linergy TR terminal blocks layout, supplied separately, can be installed between the rows of terminal blocks to form different configurations, e.g.:                             <ul style="list-style-type: none"> <li>□ four sets of terminal blocks</li> <li>□ 3 sets of terminal blocks + one or two Linergy TB earth bars (W = 290 mm).</li> </ul> </li> </ul>

### Installation on the side or in the width of the enclosure

This solution saves considerable space in the device zone and avoids the need for the 300 mm wide duct.

Fixing mode	2 fixing brackets for the earth bar on the functional uprights			Horizontally on brackets		
						
Catalogue numbers	<b>04206</b>	<b>04207</b>	<b>04208</b>	<b>04206</b>	<b>04207</b>	<b>04208</b>
Characteristics	H = 15 mm Set of 2 brackets	H = 45 mm	H = 80 mm	H = 15 mm Set of 2 brackets	H = 45 mm	H = 80 mm

### Linergy TR terminal blocks

> [page D-24](#)

### Linergy TB earth bars

> [page D-23](#)



# Partitioning in Prisma G IP30 and IP55

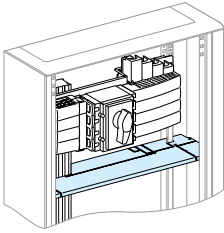
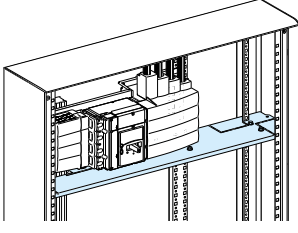
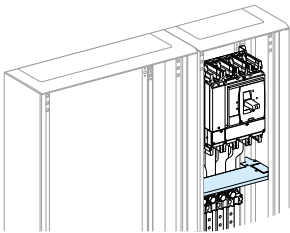
## Horizontal and Vertical system

### Partitioning of functional units

#### Horizontal partitioning

The metal partitions are used to:

- separate the functional units from one to another
- create a physical separation between devices and a terminal block, for example.

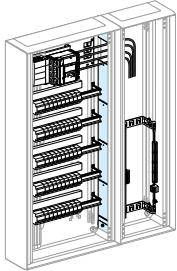
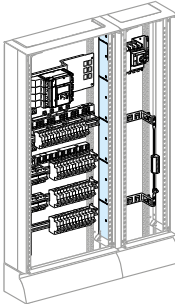
Used for	W600	W850	W300
IP30 IP55			
Catalogue numbers	04331	04336	04332
Characteristics	Metal. It is mounted directly on the functional uprights. Lateral and rear cut-outs are available for cable running or the installation of busbars at the rear of the switchboard.		

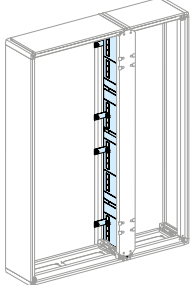
#### Vertical partitioning

The metal partition creates a physical separation between the device compartment and a wide duct, or 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.

Used for	From 6 to 33 modules	36 modules
IP30		
Cat. no.	04330	04335
Description	Can be used for partitioning up to 33-modules. It can be cut to length every 150 mm.	Can be used for partitioning in 36-module floor standing enclosure.

Used for	From 7 to 33 modules							
IP55								
Cat. no.	08384							
Description	Metal. There are cut-outs for cable running. Quantity to order according to height.							
	Nb. of vertical modules	7	11	15	19	23	27	33
	Height (mm)	450	650	850	1050	1250	1450	1750
	Quantity	1	2	3				



Connections blocks

Power supply blocks

Horizontal / Vertical mounting

Prefabricated connections

Incoming connection blocks

Upstream connection	Incoming connection block 250 A via top		Incoming connection block 250 A via bottom		Connection block 630 A (top/bottom)
<b>Devices</b>	Compact NSX100/250	Compact INS250, INV100/250	Compact NSX100/250	Compact INS250, INV100/250	Compact NSX400/630
Mounting	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal, in duct
Catalogue number	<b>04066</b>	<b>04066</b>	<b>04067</b>	<b>04067</b>	<b>04076</b>
Configuration	> page C-7	> page C-27	> page C-7	> page C-27	> page C-14
Characteristics	Optimize the dimension of the enclosure, avoid the constraints of cables bending radius, and IPxxB solution				

Power supply block with connections between Compact device and Linergy BW isolated busbar

Downstream connection	Power supply block 250 A		Power supply block 250 A + prefabricated connections 250 A
<b>Devices</b>	Compact NSX100/250	Compact INS250, INV100/250	Compact INS250, INV100/250
Mounting	Horizontal	Horizontal	Vertical
Catalogue number	<b>04060</b>	<b>04060</b>	<b>04060 + connection 04062</b>
Configuration	> page C-7	> page C-27	> page C-28

Power supply block with connections between Compact device and Linergy BW isolated busbar  
Devices 400-630 A

Downstream connection	Power supply block 400 A		Power supply block 630 A	
<b>Devices</b>	Compact NSX400	Compact INS-INV320/400	Compact NSX630	Compact INS-INV500/630
Mounting	Horizontal	Horizontal	Horizontal	Horizontal
Catalogue number	<b>04070</b>	<b>04070</b>	<b>04071</b>	<b>04071</b>
Configuration	> page C-14	> page C-29	> page C-14	> page C-28

Connections blocks  
Power supply blocks  
Vertical mounting

Prefabricated connections

Universal power supply block + prefabricated connections between Compact device and Linergy BW isolated busbar

Downstream connection	Universal power supply 250 A + prefabricated connections 250 A		Universal power supply 250 A + prefabricated connections 250 A	
<b>Devices</b>	<b>Compact NSX100/250</b>		<b>Compact NSX100/250</b>	<b>Compact INS250, INV100/250</b>
<b>Mounting</b>	Vertical		Vertical, in duct	Vertical, in duct
<b>Catalogue number</b>	<b>04061 + connection 04062</b>		<b>04061 + connection 04064</b>	<b>04061 + connection 04064</b>
<b>Configuration</b>	<a href="#">&gt; page C-8</a>		<a href="#">&gt; page C-8</a>	<a href="#">&gt; page C-8</a>



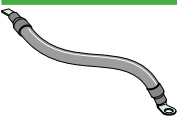
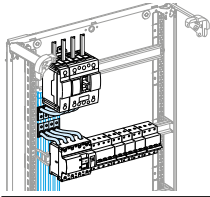
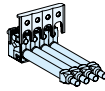
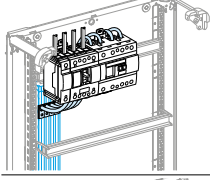
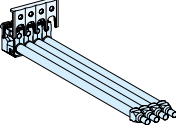
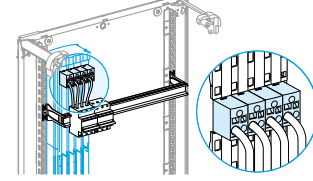
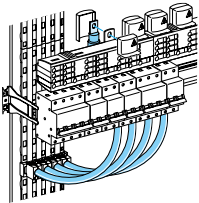
Downstream connection	Universal power supply 400/630 A + connection must be made		Universal power supply 400/630 A + prefabricated connections 400/630 A	
<b>Devices</b>	<b>Compact NSX400/630</b>	<b>Compact INS-INV320/630</b>	<b>Compact NSX400/630</b>	<b>Compact INS-INV320/630</b>
<b>Mounting</b>	Vertical	Vertical	Vertical, in duct	Vertical, in duct
<b>Catalogue number</b>	<b>04074 + connection must be made</b>	<b>04074 + connection must be made</b>	<b>04074 + connection 04073</b>	<b>04074 + connection 04073</b>
<b>Configuration</b>	<a href="#">&gt; page C-16</a>	<a href="#">&gt; page C-29</a>	<a href="#">&gt; page C-17</a>	<a href="#">&gt; page C-29</a>

Universal power supply block, connections to make between Compact device and Linergy BW isolated busbar  
Devices ≤ 250 A

Downstream connection	Universal power supply 250 A + connection must be made	
<b>Devices</b>	<b>Compact NSX100/250</b>	
<b>Mounting</b>	Horizontal - Motor mechanism module	Vertical - Direct rotary handle
<b>Catalogue number</b>	<b>04061 + connection must be made</b>	<b>04061 + connection must be made</b>
<b>Configuration</b>	<a href="#">&gt; page C-8</a>	<a href="#">&gt; page C-13</a>

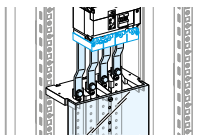
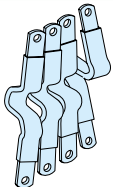
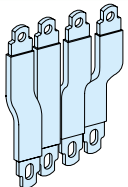
Lineryg BW and devices connections  
Other prefabricated connections

Prefabricated connections

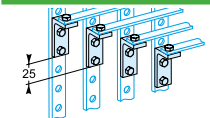
	Description	Allows connection of	Cat. no.
	<b>Set of 4 - 125 A - L = 230 mm</b> <ul style="list-style-type: none"> <li>+ 45° angle connector</li> <li>35 mm² ferrule</li> </ul>	NSXm125, NG125, INS with enclosed terminals cat. no. <b>28947</b> or <b>28948</b>	<b>04145 (1)</b>
	<b>Set of 4 - 160 A - L = 250 mm</b> <ul style="list-style-type: none"> <li>+ 45° angle connector</li> <li>45 mm² ferrule</li> </ul>	NSXm160, INS160 cat. no. <b>28947</b> or <b>28948</b>	<b>04146 (1)</b>
	<b>One-piece connection 3/4P - 160 A, L = 165 mm</b> <ul style="list-style-type: none"> <li>Fast connection to Lineryg BW busbars</li> <li>Equipped with male fittings one end for tunnel terminals</li> <li>Respects the degree of protection IPxxB</li> <li>Neutral is clearly indicated (blue)</li> </ul>	 NSXm, NSXm Vigi, NG125, INS160, C120	<b>04147 (1)</b>
	<b>One-piece connection 3/4P - 160 A, L = 440 mm</b> <ul style="list-style-type: none"> <li>Fast connection to Lineryg BW busbars</li> <li>Equipped with male fittings one end for tunnel terminals</li> <li>Respects the degree of protection IPxxB</li> <li>Neutral is clearly indicated (blue)</li> </ul>	 NSXm, NSXm Vigi, NG125, INS160, C120	<b>04148 (1)</b>
	<b>12 tap-off blocks</b> for 1 cable of 6 mm² (32 A max.) and 1 of 10 mm² (40 A max.) Respects the degree of protection IPxxB. In: 55 A max., Ui: 750 V	All types of device, equipped with tunnel terminals, Lineryg FM 160/200 A	<b>04151</b>
	<b>12 tap-off blocks</b> for 1 cable of 16 mm² (50 A max.) Respects the degree of protection IPxxB. In: 55 A max., Ui: 750 V	All types of device, equipped with tunnel terminals, Lineryg FM 63/80/160/200 A	<b>04152</b>
	<b>Set of 4 connections 4P - 200 A, L = from 230 to 330 mm</b> Supplied with mounting hardware + insulated covers	Lineryg FM 200 A	<b>04021 + 04150</b>

When mounting Schneider Electric prefabricated connections, short terminal shields can be used. If the function is already integrated in prefabricated connections, no need for terminal shields.

Devices/Lineryg BS multi-stage busbars connections

	Lineryg BS multi-stage lateral busbars, 250 A	Lineryg BS multi-stage lateral busbars, 630 A
		
<b>Devices</b>	<b>Compact NSX-INS-INV 100/160/250</b>	<b>Compact NSX-INS-INV 400/630</b>
<b>Mounting</b>	Vertical, in duct	Vertical, in duct
<b>Catalogue number</b>	<b>04065</b>	<b>04075</b>
<b>Configuration</b>	> page C-7	> page C-16

Connections between two sets of Lineryg BS rear busbars

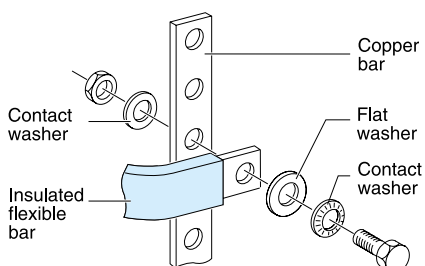
	Connection between 2 sets of Lineryg BS rear busbars
	
<b>Devices</b>	<b>Set of 4 copper angle brackets - 250 A</b>
<b>Catalogue number</b>	<b>04190</b>
<b>Allows connection of</b>	Electrical connections between two sets of rear busbars

**Note:** for some devices, it is recommended to use Schneider Electric prefabricated connections. If not, switchgears must be equipped with long terminal shields for personnel safety.

(1) Adaptation with references 28947 and 28948 for INS 160.

Linery BS  
and Linery FM busbars connections  $\leq 200$  A / NSXm

	Linery BS multi-stage busbars	Rear Linery BS busbars	Linery FM 160A / NSXm160
<b>Devices</b>	<b>04024</b>	<b>04029</b>	<b>04030</b>
Catalogue number	04024	04029	04030
Configuration	> page C-4	> page C-4	> page C-4
Allows supply of a distribution block	Linery FM 200 A	Linery FM 200 A Set of 4	Linery FM 160 device feeders / NSXm160 Lugs $\varnothing$ 6 mm L1: 398 mm, L2: 418 mm, L3: 438 mm, N: 378 mm 160 A



Insulated flexible bars

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

Characteristics

Length	1800 mm
Rated insulation voltage (Ui)	1000 V

Connection between device busbar

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

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

Devices	Size (mm)	Catalogue numbers
NSX100	20 x 2	04742
NSX160/250	20 x 3 <sup>(1)</sup>	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
Linery FM 200	20 x 3	04743
Easypact CVS100	20 x 2	04742
Easypact CVS160/250	20 x 3	04743
Easypact CVS400	32 x 5	04751
Easypact CVS630	32 x 8	04753

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

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 <sup>(1)</sup> max	Size (mm)	Catalogue numbers
200 A	20 x 2	04742
250 A	20 x 3	04743
400 A	24 x 5	04746
520 A	32 x 5	04751
580 A	32 x 6	04752
660 A	32 x 8	04753

Designing connections

> page G-3

(1) Rated operational current.

# Trunking - Trunking support - Grommets

## Organisation of switchboard

### Trunking

Type	Vertical trunking 80 x 60 mm	Horizontal trunking 60 x 30 mm	Brackets
Catalogue numbers	<b>04267</b>	<b>04257</b>	<b>04206</b>
Characteristics	Set of 18 L = 2000 mm	Set of 4 L = 450 mm Supplied with 8 supports	H = 15 mm For vertical trunking installation
Used with	Prisma G wall-mounted and floor-standing enclosures	Prisma G wall-mounted and floor-standing enclosures + Pack 160 enclosures	Pack 160 enclosures

### Trunking supports

Type	Horizontal and vertical	Vertical	Horizontal
Catalogue numbers	<b>04266</b> (1)	<b>04256</b>	<b>04265</b>
Characteristics	Set of 10 Vertical trunking metal support plates (80x60 mm) for wall mounted and floor standing enclosures. The support is screwed in at the same time as the modular rail. Supplied with 10 plastic screws to fix the trunking. Used to align the cover of a horizontal trunking section (H = 80 mm) with that of a vertical trunking section (H = 80 mm).	Set of 10 Aligns the cover of a horizontal trunking section (H = 80 mm) with that of a vertical trunking section (H = 80 mm)	Set of 12
Used	Prisma G wall-mounted and floor standing enclosures for trunkings 04267 and 04257	Prisma G wall-mounted and floor-standing enclosures	Prisma G wall-mounted and floor standing enclosures for trunkings 04267 and 04257
			Prisma G wall-mounted and floor-standing enclosures + Pack enclosures, for trunking 04267

(1) Horizontal mounting not possible with Linergy BW.

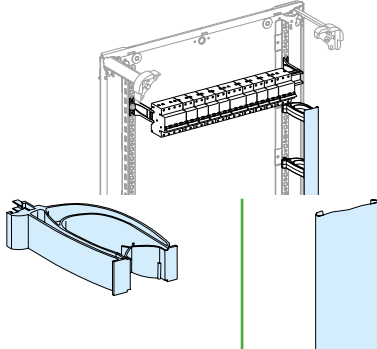
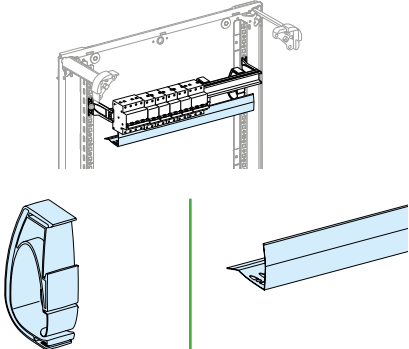
### Cable trunking for doors

Type	Flexible trunking for wiring to door	Cable trunking
Catalogue numbers	<b>04235</b>	<b>04233</b>
Characteristics	L = 500 mm, inner Ø = 19 mm	Set of 30 adhesive trunking 30 x 30 mm, L = 2000 mm

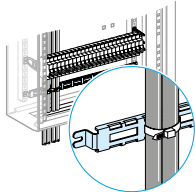
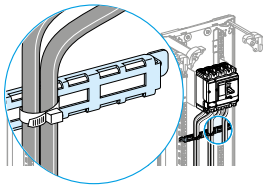
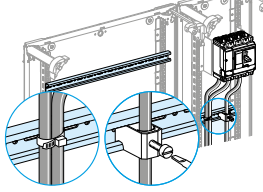
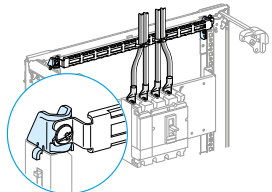
### Grommets for wiring through front

Grommets	
Catalogue number	<b>04234</b>
Characteristics	Set of 10. For wiring through front.

Straps and covers

Type	Vertical cable straps	Covers for vertical cable straps	Horizontal cable straps	Covers for horizontal cable straps
				
Catalogue numbers	<b>04264</b>	<b>04263</b>	<b>04239</b>	<b>04243</b>
Characteristics	Set of 12	Set of 2 x 1 m	Set of 12 Have the same capacity as 60 x 30 mm trunking	Set of 4 covers of 430 mm
Used	Prisma G wall-mounted and floor-standing enclosures		Prisma G wall-mounted and floor-standing enclosures + Pack enclosures	Prisma G wall-mounted and floor-standing enclosures + Pack enclosures

Cable-tie supports

Used for	Cable-tie supports for wall-mounted or floor-standing enclosures	Cable-tie supports in a duct	C-shaped cable-tie supports for wall-mounted or floor-standing enclosures and ducts	Cable-tie support adapters
				
Catalogue numbers	<b>08867</b>	<b>08868</b>	<b>08783</b>	<b>08866</b>
Characteristics	<ul style="list-style-type: none"> <li>■ Set of 2</li> <li>■ Supplied with hardware for mounting on the functional uprights of the enclosure.</li> </ul>	<ul style="list-style-type: none"> <li>■ Set of 4</li> <li>■ Supplied with hardware for mounting on the functional uprights of the duct.</li> </ul>	<ul style="list-style-type: none"> <li>■ W = 1600 mm, can be cut to length as needed.</li> <li>■ Cables secured by ties or cable clamps.</li> <li>■ Supplied with hardware for mounting on the functional uprights of the enclosure or duct.</li> </ul>	<ul style="list-style-type: none"> <li>■ Set of 2</li> <li>■ Makes it possible to tie down the cables next to the gland plate and gain one module in height.</li> <li>■ Only for use in 33- and 36-module enclosures.</li> </ul>

**Note:** for the connection of power cables, see [page G-8](#).

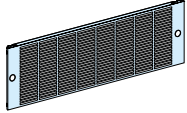




### Ventilation

In most cases and notably for IP30 switchboards, the heat dissipation by 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 (IP54), ventilation accessories are indispensable.

For more in-depth information on selecting air-conditioning accessories and the thermal management of switchboards > [page G-25](#).

Front plate W = 600		Ventilated front plate	
			
Catalogue number	<b>03891</b>	<b>03895</b>	
Height	1 module, H = 50 mm	3 modules, H = 150 mm	
Characteristics	Degree of protection: IP30. Located at the top and bottom of the switchboard, IP30 ventilated front plates facilitate natural convection in the switchboard.		
Surface area of the openings	80 cm <sup>2</sup>	250 cm <sup>2</sup>	
Forced-air ventilation		85 m <sup>3</sup> /h	165 m <sup>3</sup> /h
			
Catalogue numbers	<b>NSYCVF85M230PF</b>		<b>NSYCVF165M230PF</b>
Free flow rate with filter (m <sup>3</sup> /h)	50 Hz	85	165
	60 Hz	98	193
Flow rate with outlet grille (m <sup>3</sup> /h)	50 Hz	63	153
	60 Hz	72	171
Power consumption (W) (max. current (A))	17/15 (0,121/0,097)		16,3/14,3 (0,12/0,94)
Sound level (dB (A))	46/49		50/51
External dimensions (cut-out)	170 x 150 x 62 (125 x 125) Plain front plate (≥ 4 modules) to cut out		268 x 248 x 104 (223 x 223) Plain front plate (≥ 6 modules) to cut out
Weight (kg)	0,780		1,140
Operating temp.	-20...+60 °C		-20...+60 °C
Installation	Generally installed at the bottom of floor-standing enclosures: <ul style="list-style-type: none"> <li>■ by cutting out a side panel,</li> <li>■ on front of switchboard by cutting out a 4M (03804) or 6M (03806) plain front plate.</li> </ul>		
Characteristics	The set comprises the fan with a grill and a standard filter. <ul style="list-style-type: none"> <li>■ Input voltage: 230 V (50/60 Hz).</li> <li>■ Degree of protection: IP54.</li> <li>■ RAL 7035.</li> <li>■ Material: ABS, V0</li> </ul>		

Outlet grille filters, set of 5, spare parts			
			
Standards filters G2 M1	<b>NSYCAF125</b>	<b>NSYCAF223</b>	
Fine filters G3 M1	<b>NSYCAF125T</b>	<b>NSYCAF223T</b>	






### Heating elements

The resistors prevent condensation, corrosion and superficial leakage currents. They maintain a positive temperature in the enclosures when external temperatures drop very low.

Install heaters according to the desired power level at the bottom of the enclosure, respect a safety area of a least 10 cm around the device.

Vertical installation is recommended to ensure optimum convection.

The resistance heaters are equipped with a PTC - type sensor (positive temperature coefficient). Thanks to these heaters, the surface temperature stabilises at 75 °C when the ambient is at -5 °C.

Heating resistor			
			
Catalogue numbers	<b>NSYCR55WU2</b>	<b>NSYCR100WU2</b>	<b>NSYCR250W230VV</b>
Power rating	55 W	90 W	250 W
Characteristics	<ul style="list-style-type: none"> <li>■ Vertical mounting.</li> <li>■ Aluminium case with fins.</li> <li>■ Temperature:                             <ul style="list-style-type: none"> <li>□ turns off at 60 °C,</li> <li>□ turns on at 25-30 °C (temperature of the resistor itself).</li> </ul> </li> <li>■ Equipped with a symetrical rail for rapid mounting (clips on).</li> <li>■ Input voltage: 110-250 V.</li> </ul>		<ul style="list-style-type: none"> <li>■ Vertical mounting.</li> <li>■ Aluminium case with fins.</li> <li>■ Temperature:                             <ul style="list-style-type: none"> <li>□ turns off at 60 °C,</li> <li>□ turns on at 25-30 °C (temperature of the resistor itself).</li> </ul> </li> <li>■ Equipped with a symetrical rail for rapid mounting (clips on).</li> <li>■ Input voltage: 230 V.</li> </ul>



### Regulating


Used to control the temperature inside electrical switchboards in conjunction with heating resistors and fans.

This thermostat can control the activation of a fan and a heater and regulate their temperature independently.

#### Double adjustable thermostat

Double temperature control with a resistance heater and a fan with separate operation

- Red button: with normally closed contact (NC) for controlling the resistance heaters.
- Blue button: with normally open contact (NO) for controlling the fans, signalling systems or alarms.

Thermostat	
	
Catalogue number	<b>NSYCCOHD</b>
Characteristics	<ul style="list-style-type: none"> <li>■ Setting range: 0 °C to +60 °C.</li> <li>■ Power rating: 30 W</li> <li>■ Input voltage: 120 V AC: 15 A - 230 V AC: 10 A</li> <li>■ Fixing: clips onto a modular rail.</li> </ul>

### Thermal management of switchboards

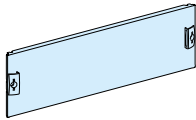
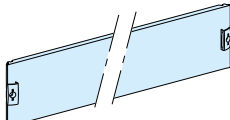
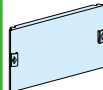
> page G-25

# Front plates

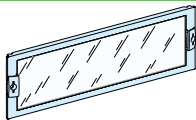
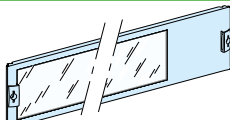

W600 - W850 - W300

## Front plates and accessories

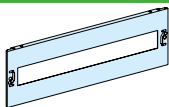
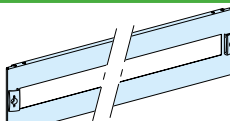
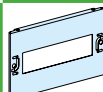
### Plain front plates

Used for		W600 Enclosure	W850 Enclosure	W300 Duct
				
Nb. of vertical modules	Height	Plain	Plain	Plain
1	50 mm	<b>03801</b>	<b>03851</b>	<b>03811</b>
2	100 mm	<b>03802</b>	-	<b>03812</b>
3	150 mm	<b>03803</b>	<b>03853</b>	<b>03813</b>
4	200 mm	<b>03804</b>	<b>03854</b>	<b>03814</b>
5	250 mm	<b>03805</b>	-	<b>03815</b>
6	300 mm	<b>03806</b>	<b>03856</b>	<b>03816</b>
9	450 mm	<b>03807</b>	<b>03859</b>	<b>03817</b>
11	550 mm	-	<b>03861</b>	-
12	600 mm	<b>03808</b>	-	-

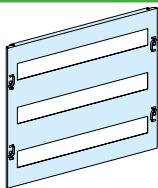
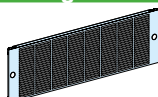
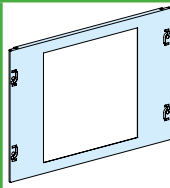
### Transparent front plates

Used for		W600 Enclosure	W850 Enclosure	W300 Duct
				
Nb. of vertical modules	Height	Transparent	Transparent (1)	Transparent
4	200 mm	<b>03342</b>	-	<b>03352</b>
6	300 mm	<b>03343</b>	<b>03363</b>	<b>03353</b>
9	450 mm	<b>03344</b>	<b>03364</b>	<b>03354</b>
12	600 mm	<b>03345</b>	-	-

### Modular front plates

Used for		W600 Enclosure	W850 Enclosure	W300 Duct
				
Nb. of vertical modules	Height	1 row of modular devices	1 row of modular devices	1 row of modular devices
2	100 mm	<b>03202</b>	-	-
3	150 mm	<b>03203</b>	<b>03216</b>	<b>03213</b>
4	200 mm	<b>03204</b>	<b>03217</b>	<b>03214</b>
5	250 mm	<b>03205</b>	<b>03218</b>	-

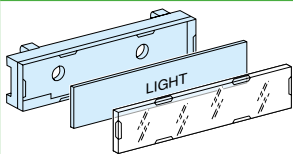
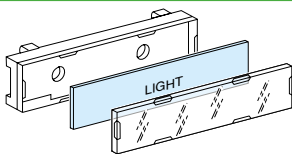
### Other front plates

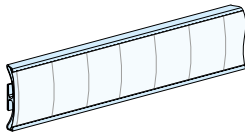
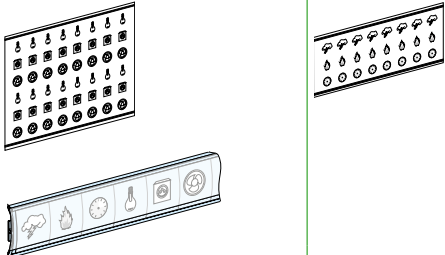
Used for		W600 wall mounted and floor standing enclosures		
				
Nb. of vertical modules	Height	3 rows of modular devices	Ventilated	With cut-out for fan or filter > page C-46
1	50 mm	-	<b>03891</b>	-
3	150 mm	-	<b>03895</b>	-
7	350 mm	-	-	<b>03890</b>
8	400 mm	<b>03223</b>	-	-

(1) 2/3 transparent front plate

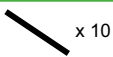




Finishing parts

Identification labels

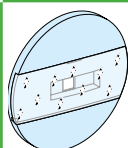
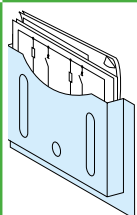
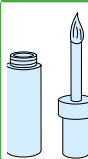
	Clip-on labels			Engraving plates		
						
Catalogue numbers	<b>08913</b>	<b>08915</b>	<b>08917</b>	<b>08914</b>	<b>08916</b>	<b>08918</b>
Dimensions (mm)	18 x 35	18 x 72	25 x 85	18 x 35	18 x 72	25 x 85
Characteristics	<ul style="list-style-type: none"> <li>■ Set of 12</li> <li>■ The clip-on support is supplied with a paper label and a transparent cover.</li> <li>■ It clips onto the front plate horizontally or vertically and can be screwed to any support (plain door, plain front plate, etc.).</li> </ul>			<ul style="list-style-type: none"> <li>■ Set of 12</li> <li>■ These plates simply replace the paper labels.</li> </ul>		

	Adhesive labels						Symbol sheets	
								
Width	<b>W600</b>		<b>W850</b>		<b>W300</b>			
Catalogue numbers	<b>08903</b>	<b>08904</b>	<b>08907</b>	<b>08908</b>	<b>08905</b>	<b>08906</b>	<b>13735</b>	<b>13736</b>
Dimensions (mm)	24 x 432	36 x 432	24 x 650	36 x 650	24 x 180	36 x 180		
Characteristics	<ul style="list-style-type: none"> <li>■ Set of 12</li> <li>■ The adhesive label holders are supplied with a paper label and a transparent cover.</li> </ul>						<ul style="list-style-type: none"> <li>■ Set of 10 adhesive symbol sheets</li> <li>■ Standard symbols:                             <ul style="list-style-type: none"> <li>□ loads: sockets, lights, heating units, etc.</li> <li>□ rooms: bedroom, bathroom, etc.</li> </ul> </li> <li>■ Set of 10 adhesive symbol sheets</li> <li>■ Special symbols:                             <ul style="list-style-type: none"> <li>□ loads: lightning arrester, gate, swimming pool, etc.</li> <li>□ rooms: technical room, computer room, etc.</li> </ul> </li> </ul>	

Adhesive labels for mimic diagrams

	Lines, 900 mm long (7 mm thick)	Outgoing arrows	Incoming arrows	Transformers	Earth symbols
	 x 10	 x 10	 x 10	 x 10	 x 10
Catalogue numbers	<b>01005</b>	<b>01006</b>	<b>01007</b>	<b>01008</b>	<b>01009</b>
Characteristics	Set of 10 Colour: black				

Accessories

	Switchboard identification plate	Adhesive drawing holder	Touch-up paint brush
			
Catalogue numbers	<b>08900</b>	<b>08963</b>	<b>08961</b>
Characteristics	Colour: RAL 9001	Colour: RAL 9001	Colour: RAL 9001

# Rails, slotted mounting plates, accessories

## Front plates and accessories

### Front plates accessories

Used for	Front plate hinge kit	Self adhesive front plate grips	Front-plate locking handles	Blanking plates			
Catalogue numbers	<b>08585</b>	<b>01093</b>	<b>01094</b>	<b>03220</b>	<b>03221</b>	<b>03222</b>	<b>03249</b>
Characteristics	Set of 2 hinges	Set of 20 white RAL9001	Set of 10	<ul style="list-style-type: none"> <li>Strip</li> <li>H = 46 mm, L = 100 mm</li> </ul>	<ul style="list-style-type: none"> <li>Divisible</li> <li>Set of 4</li> <li>H = 46 mm, L = 90 mm</li> </ul>	<ul style="list-style-type: none"> <li>H = 107 mm, L = 147 mm</li> </ul>	<ul style="list-style-type: none"> <li>Strip</li> <li>Set of 4</li> <li>H = 85 mm, L = 147 mm</li> </ul>

### Rails

Used for	W600 Enclosure				W850 Enclosure		W300 Duct	
	<b>Fixed</b>	<b>Adjustable</b>	<b>Rear</b>	<b>Surbaissé</b>	<b>Fixed</b>	<b>Adjustable</b>	<b>Fixed</b>	<b>Adjustable</b>
Catalogue numbers	<b>03001</b>	<b>03002</b>	<b>03004</b>	<b>03003</b>	<b>03006</b>	<b>03007</b>	<b>03010</b>	<b>03011</b>
Useful length	432 mm	432 mm	432 mm	432 mm	648	648	180 mm	180 mm
9 mm pitch number	48	48	48	48	72 pitch (36 modules)	72 pitch (36 modules)	20	20
Useful depth behind front plate	50 mm	from 47 to 114 mm	128 mm	158 mm	50	from 47 to 114 mm	50 mm	from 47 to 114 mm

### Adjustable rails

	Raiser	Rail	Rail + raiser
Catalogue numbers	<b>04225</b>	<b>04226</b>	<b>04227</b>
Characteristics	Set of 12 raisers (NSXm) Raiser height 11 mm To be completed with <b>04226</b> rail	Set of 2 rails, useful length: 1600 mm with 4 holes, dia. 6.4 mm, 450 mm between centres To be cut	Rail and 4 modular raisers (NG160) Useful length: 432 mm Raiser height: 33 mm

### Slotted mounting plate (1)

Used for	W600 Enclosure				W300 Duct			
	<b>Flat</b>	<b>Recessed</b>			<b>Flat</b>	<b>Recessed</b>		
Catalogue numbers	<b>03170</b>	<b>03171</b>	<b>03172</b>	<b>03173</b>	<b>03175</b>	<b>03176</b>	<b>03177</b>	<b>03178</b>
Nb. of vertical modules	4	4	6	9	4	4	6	9
Height	200 mm	200 mm	300 mm	450 mm	200 mm	200 mm	300 mm	450 mm
Useful width	440 mm	420 mm			172 mm	152 mm		
Useful depth behind front plate	140 mm	160 mm			140 mm	160 mm		

### Dedicated mounting plate (04223)

> page C-51.

(1) For 850 width floor standing enclosure, fit a W600 mounting plate plus a W300.

# Installation accessories

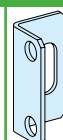
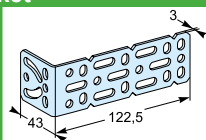
## Accessories

### Self-tapping screws



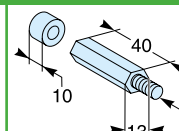
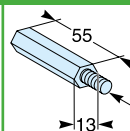
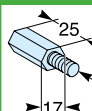
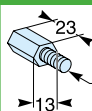
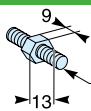
M5	<b>03183</b>
Characteristics	Set of 20, mounting on functional uprights

### Universal angle bracket



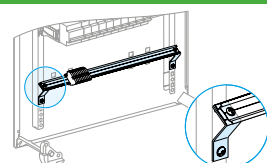
Catalogue numbers	<b>03581</b>	<b>03583</b>
Characteristics	Set of 2	Set of 6

### Hexagonal spacers



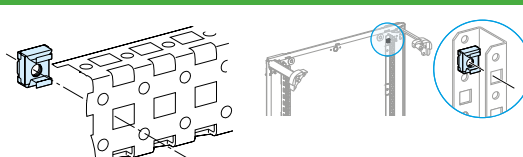
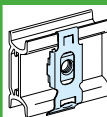
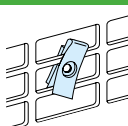
M5	<b>03185</b>	<b>03186</b>	-	<b>03187</b>	-
M6	<b>03195</b>	<b>03196</b>	<b>03198</b>	<b>03197</b>	-
M8	-	-	-	-	<b>03199</b>
Characteristics	Height: 9 mm Set of 4	Height: 23 mm Set of 4	Height: 25 mm Set of 4	Height: 55 mm Set of 4	Height: 40 + 10 mm Set of 4

### 30° supports



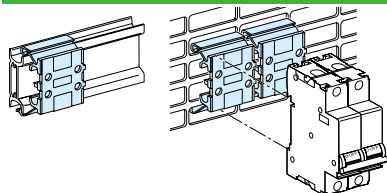
Catalogue numbers	<b>03005</b>
Characteristics	Set of 2 supports (to fix a modular rail, earth bar, etc.)

### Clip-nuts



M4	<b>03180</b>	<b>03164</b>	-
M5	<b>03181</b>	<b>03165</b>	-
M6	<b>03182</b>	<b>03166</b>	<b>03194</b>
Mounting on	Slotted mounting plate and also on cable-tie support (08876)	Rail	Functional uprights of IP30/55 enclosures
Characteristics	Set of 20, mounting of various devices	Set of 20	Set of 20

### Raiser for rails and slotted mounting plates



Catalogue number	<b>04224</b>
Characteristics	Set of 5, height: 10 mm, length 27 mm Colour: RAL 9001, insulating material



# Linergy distribution and connection systems

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## Distribution and connection

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### Distribution blocks

<b>Linergy DX</b>	
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Screw distribution blocks	D-14

### Device feeders

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Horizontal comb busbar for 18 mm pitch for Acti 9	D-19
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### Terminal blocks and bars

<b>Linergy TA</b>	
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### Electrical characteristics

<b>Designing connection ≤ 630 A</b>	<b>D-27</b>
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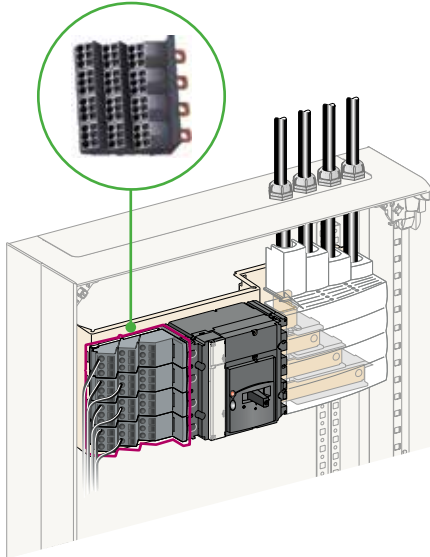
Panorama of the solutions

Distribution and connection

Linergy and Prisma G: an optimised and high-performance type-tested offer (IEC 61439-1 & 2 standard)

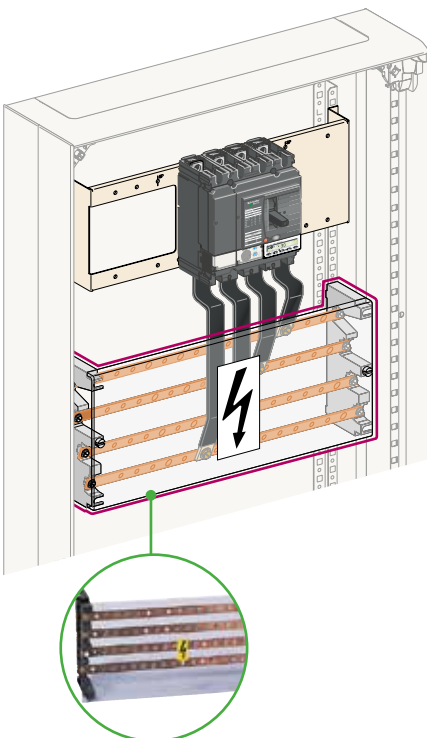
> For incoming devices

**Linergy DX 160 A and Linergy DP 250 A distribution block**



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

**Linergy BS 160 to 630 A distribution block**



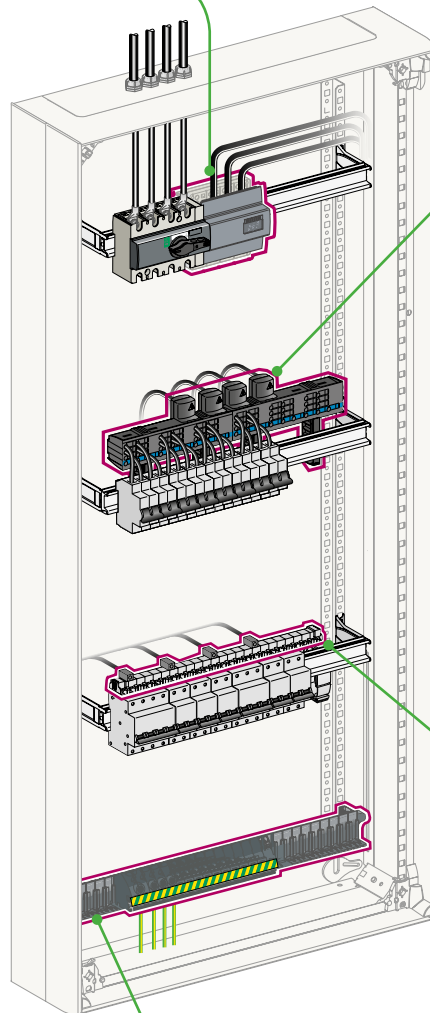
- Traditional, highly polyvalent solution
- Many installation possibilities

> For rows of modular devices

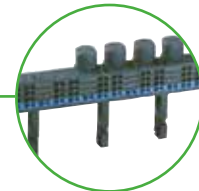
**Linergy DX 125 at 160 A distribution block**



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

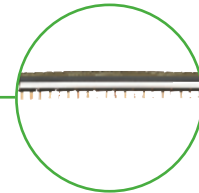


**Linergy FM 63/200 A**



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

**Linergy FH 100 to 125 A comb busbars**



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

**Linergy TR**



- Fast and simple installation
- Multiple connection options (screw, spring or push-in connections)



## Customised organisation of your switchboard

### > Busbars up to 630 A for all switchboard architectures

**Linergy BW busbars:**  
compact and insulated for fast upgrades.

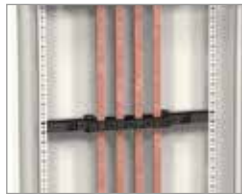


*Prefabricated connections, optimised and fully insulated.*

**Linergy BS busbars:**  
for traditional distribution.



*Rear Linergy BS busbars.*



*Lateral busbars. The bars are staggered for easy access to connection points.*

### > Row distribution blocks for modular devices

**Linergy FH comb busbars:**  
a simple, cost-effective solution.



*Linergy FH comb busbars. Linergy FH comb busbars are fully insulated. Device can be connected in a single operation.*

**Linergy FM device feeder:**  
a fast, flexible and reliable solution.



*Linergy FM device feeder 80 A. The Linergy FM device feeder snaps easily onto the back of the rails. All types of modular devices can be mixed in the same row and phase balancing is simple. It's easy to change or add devices.*



*Linergy FM device feeder 200 A.*

### > Centralised distribution blocks for switchboard incomers



**Linergy DX 160 A 4P:**  
**practical and aesthetic.**  
*Modular monobloc distribution block for fast connections*



**Linergy DX 160 A 1P:**  
**"Quick" distribution block.**  
*Modular combinable components for fast connections.*



**Linergy DS 160 A:**  
**a traditional solution.**  
*Installation on modular rail on mounting-plate. Screw-terminal connections.*



**Linergy DP 250 A:**  
**modular and compact.**  
*Installed directly downstream of Compact circuit breakers and switches without taking up any extra vertical modules. Fast connections in spring-loaded terminals.*



# Lineryg BW

## Insulated busbars

Power busbars up to 630 A



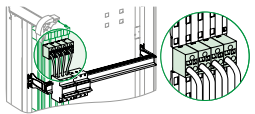
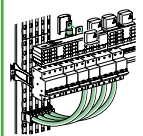
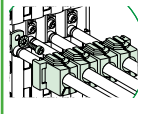
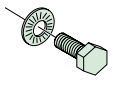
### Description

- Compact busbar, **IPxxB**, ready for installation (supplied complete with supports and end caps)
- Shaped busbar, threaded M6 with 25-mm pitch, can be cut with 200-mm pitch (150 mm for the 125 A)
- Busbar installed on insulating supports, screwed onto the rear uprights
- Wide selection of tested pre-wired connectors
- Clip-on covers to protect against direct contact (IPxxB). Can easily be cut to allow connections to pass through to the switchgear
- Ends protected by end caps

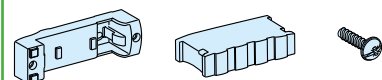
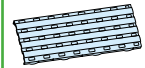
Lineryg BW (160 to 630 A) is fully compatible with seismic constraints. Just add a seismic kit (**04130**) to Lineryg BW 160/250/400.

Lineryg BW busbar		125 A (1)		160 A		250 A		400 A		630 A	
Rated peak withstand current / 60 ms	(Ipk)	20 kA		30 kA		30 kA		52.5 kA		52.5 kA	
Rated insulation voltage	(Ui)	500 V AC		750 V AC		750 V AC		750 V AC		1000 V AC	
Rated impulse withstand voltage	(Uimp)	8 kV		8 kV		8 kV		8 kV		8 kV	
Rated short-time current	(Isc)	50 kA		150 kA		150 kA		150 kA		150 kA	
Thermal stress	(I <sup>2</sup> .t)	7.225 x 10 <sup>7</sup>		1.000 x 10 <sup>8</sup>		1.690 x 10 <sup>8</sup>		4.000 x 10 <sup>8</sup>		6.250 x 10 <sup>8</sup>	
Length (mm)		450	750	1000	1400	1000	1400	1000	1400	1000	1400
Catalogue numbers	3P	04103	04107	04111	04116	04112	04117	04113	04118	04114	04119
	4P	04104	04108	04121	04126	04122	04127	04123	04128	04124	04129

### Accessories

					
	<b>IPxxB tap-off terminals</b>	<b>200 A connections</b>	<b>IPxxB insulating covers</b>	<b>Class 8.8 fixing accessories</b>	
	12 tap-off blocks For 1 cable of 6 mm <sup>2</sup> (32 A max.) and 1 cable of 10 mm <sup>2</sup> (40 A max.) Ui: 750 V In: 55 A max. (2)	12 tap-off blocks For 1 cable of 1 to 16 mm <sup>2</sup> Ui: 750 V In: 55 A max. with only 1 cable	Covers which can be clipped on and cut to size are used to isolate the connectors of a connection with cables of cross-section 10 to 25 mm <sup>2</sup>	M6 x 12 + 20 M6 contact washers	
Used for connecting	<ul style="list-style-type: none"> <li>■ All switchgear equipped with enclosed terminals</li> <li>■ Lineryg FM 160/200 A</li> </ul>	<ul style="list-style-type: none"> <li>■ All switchgear equipped with enclosed terminals</li> <li>■ Lineryg FM 63/80/160/200 A</li> </ul>	<ul style="list-style-type: none"> <li>■ Lineryg FM 200 A</li> </ul>		
Set of	12	12	4	8	20
Catalogue numbers	04151	04152	04021	04150	04158

### Spare parts

		<b>Lineryg BW busbar supports</b>			
Rated operational current at 40 °C	(Ie)	160 A	250 A	400 A	630 A
Composition		2 busbar supports + 2 end caps + packet of fixing accessories			
Catalogue numbers		01210	01210	01210	01211
		<b>IPxxB clip-on covers</b>			
Length (mm)		200			
Set of		2			
Catalogue numbers		01201	01201	01201	01201

**Nota:** Electrical characteristics. > page D-27

(1) Not compatible with seismic kit.

(2) I<sub>max</sub> = 55 A for all connected cables.

# Lineryy BW

## Insulated busbars

Power busbars up to 630 A

Mounting	Vertical			Horizontal				
	<b>Power supply units without connections</b>		<b>Universal power supply units</b>			<b>Universal power supply units with connections</b>		
Switchgear	<b>Fixed</b> ■ Enclosed horizontal NSX100/250 with rotary handle or remote control	<b>Fixed</b> ■ Enclosed NSX400/630 with or without Vigi ■ Enclosed INS-INV320/630	<b>Fixed</b> ■ Enclosed NSX100/250 with toggle switch ■ Enclosed Vertical INS-INV250	<b>Fixed</b> ■ In duct NSX100/250 with or without Vigi ■ In duct Vertical INS-INV250	<b>Fixed</b> ■ In duct NSX400/630 with or without Vigi ■ In duct INS-INV320/630	<b>Fixed</b> ■ NSX100/250 horizontal with or without Vigi ■ INS-INV250 horizontal	<b>Fixed</b> ■ NSX400 horizontal ■ INS-INV320/400 horizontal	<b>Fixed</b> ■ NSX630 horizontal ■ INS-INV500/630 horizontal
Catalogue numbers	<b>04061</b>	<b>04074</b>	<b>04062</b>	<b>04064</b>	<b>04073</b>	<b>04060 (1)</b>	<b>04070</b>	<b>04071</b>

Pre-wired connectors						
	<b>Connections</b>		<b>IPxxB 3/4P monobloc connection</b>	<b>IPxxB 3/4P monobloc connection</b>	<b>Connections 4P</b>	<b>Connections 4P</b>
	35 mm <sup>2</sup> ferrule + 45° angled connector	45 mm <sup>2</sup> ferrule + 45° angled connector	Quick connection on the busbar equipped with a male ferrule for enclosed terminals. Neutral identified by the colour blue.		Lugs Ø 6 mm	Supplied with mounting hardware
Rated operational (Ie) current at 40 °C	125 A	160 A	160 A	160 A	160 A	200 A
Length	230 mm	250 mm	440 mm	165 mm	L1: 398 mm, L2: 410mm, L3: 438 mm, N: 378 mm	230 to 330 mm
Used for connecting	■ NSXm125, NG125, INS with enclosed terminals cat. no. <b>28947</b> or <b>28948</b>	■ INS160, NSXm160	■ NSXm160, NSXm Vigi 160 (left-hand position), ■ NG125, INS160, C120	■ NSXm160 (left-hand position), NG125, INS160, C120	■ Lineryy FM 160 ■ NSXm160	■ Lineryy FM 200 A
Set of	4	4	1	1		4
Catalogue numbers	<b>04145</b>	<b>04146</b>	<b>04148</b>	<b>04147</b>	<b>04030</b> + <b>04150</b> insulated covers	<b>04021</b> + <b>04150</b> insulated covers

Seismic kit for Lineryy BW 160 up to 400 A (1)	
	Use the seismic kit <b>04130</b> when using Lineryy BW - 3 metallic support.
Catalogue numbers	<b>04130</b>

(1) Not compatible with Lineryy BW 125 A. Not requested for Lineryy BW 630A which is compatible with seismic constraints.



**Lineryg BS**  
Rear flat busbars

Power busbars up to 630 A

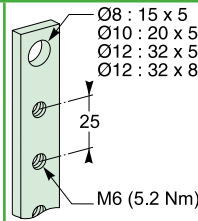


**IEC 61439-1 & 2**

**Description**

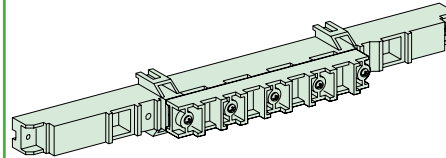
The busbar can be 3-pole or 4-pole with ratings between 160 A and 630 A. 2 lengths are available: 1000 and 1400 mm, which can be cut as required. The number of supports depends on the installation maximum rated current. The supports allow installation of a 5th bar with 15 or 20 x 5 mm cross-section to create the earth collector.

**Copper busbars 160 to 630 A**



	<b>160 A</b>	<b>250 A</b>	<b>400 A</b>	<b>630 A</b>
Rated peak withstand current / 60 ms (I <sub>pk</sub> )	30 kA	40 kA	55 kA	77 kA
Rated insulation voltage (U <sub>i</sub> )	1000 V AC	1000 V AC	1000 V AC	1000 V AC
Thermal stress (I <sup>2</sup> .t)	1.000 x 10 <sup>8</sup>	1.690 x 10 <sup>8</sup>	4.000 x 10 <sup>8</sup>	6.250 x 10 <sup>8</sup>
Conductor cross-section	15 x 5 mm	20 x 5 mm	32 x 5 mm	32 x 8 mm
Installation	Threaded M6 holes every 25 mm all the way up Connection by: 16 to 50 mm <sup>2</sup> flexible cables with crimped lugs			
Set of	4			
<b>Length (mm)</b>	<b>1000</b>	<b>1400</b>	<b>1000</b>	<b>1400</b>
<b>Catalogue numbers</b>	<b>04161</b>	<b>04171</b>	<b>04162</b>	<b>04172</b>
			<b>1000</b>	<b>1400</b>
			<b>04163</b>	<b>04173</b>
				<b>1400</b>
				<b>04174</b>

**Insulating busbar support**



	<b>160 A</b>	<b>250 A</b>	<b>400 A</b>	<b>630 A</b>	
Distance between supports depending on I <sub>cw</sub> (1)	≤ 10 kA eff / 1 s ≤ 13 kA eff / 1 s ≤ 15 kA eff / 1 s ≤ 20 kA eff / 1 s ≤ 25 kA eff / 1 s ≤ 30 kA eff / 1 s ≤ 35 kA eff / 1 s	450 mm - - - - - -	450 mm 450 mm 450 mm - - - -	450 mm 450 mm 450 mm 300 mm 225 mm - -	450 mm 450 mm 450 mm 300 mm 225 mm 225 mm 175 mm
Installation	On the rear uprights Screwed onto a solid or pre-slotted plate (fixing centres 450 x 200 mm)				
<b>Catalogue numbers</b>	<b>04191</b>	<b>04191</b>	<b>04191</b>	<b>LG4193</b>	

	<b>Prefabricated connections</b>		<b>IPxxB insulated protective shield</b>
<b>Devices</b>	Rear Lineryg BS busbars set of 4	Lineryg FM & NSXm160 Lugs Ø 6 mm L1: 398 mm, L2: 410mm, L3: 438 mm, N: 378 mm 160 A	Connection between 2 sets of Lineryg BS rear busbars Set of 4 copper angle brackets - 250 A Electrical connection between two sets of rear busbars
<b>Cat. numb.</b>	<b>04029</b>	<b>04030</b>	<b>04190</b>
			<b>04198</b>

**Note:** Electrical characteristics. > page D-27

(1) Lineryg FM 200 A distribution blocks with connections ref. 04029 can act as intermediate supports (max. distance apart 200 mm) in addition to the support ref. 04191 at the top and bottom.

# Linery BS

## Multi-stage busbars

Power busbars up to 630 A



### IEC 61439-1 & 2

#### Description

Multi-stage busbars are installed in a duct  $W = 300$  mm.

It could be interesting to install it in a duct between 2 enclosures for dividing the current.

All the connection points are easily accessible from the front.

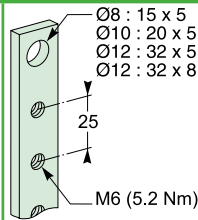
The busbar orientation makes them easier to tighten and facilitates running the cables between them.

The current can be 3-pole or 4-pole with ratings between 160 A and 630 A.

2 lengths are available: 1000 and 1400 mm, which can be cut as required.

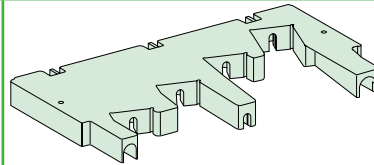
The number of supports depends on the installation maximum rated current.

### 160 to 630 A copper busbars



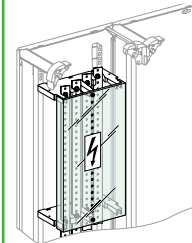
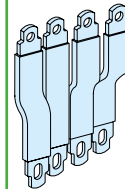
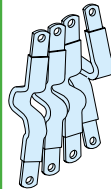
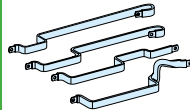
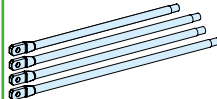
	160 A	250 A	400 A	630 A
Rated peak withstand current / 60 ms (Ipk)	30 kA	40 kA	55 kA	55 kA
Rated insulation voltage (Ui)	750 V AC	750 V AC	750 V AC	750 V AC
Thermal stress (I <sup>2</sup> .t)	1.000 x 10 <sup>8</sup>	1.690 x 10 <sup>8</sup>	4.000 x 10 <sup>8</sup>	6.250 x 10 <sup>8</sup>
Supply at incoming terminals	Connection by: 16 to 50 mm <sup>2</sup> flexible cables with crimped lugs			
Conductor cross-section	15 x 5 mm	20 x 5 mm	32 x 5 mm	32 x 8 mm
Installation	Flat copper busbar with threaded M6 holes every 25 mm <sup>2</sup> all the way up			
Set of	4			
Length (mm)	1000	1400	1000	1400
Catalogue numbers	04161	04171	04162	04172
			04163	04173
				must be made 04174

### Insulating busbar support



Distance between supports depending on Icw (1)	≤ 10 kA rms / 1 s	≤ 13 kA rms / 1 s	≤ 15 kA rms / 1 s	≤ 20 kA rms / 1 s	≤ 25 kA rms / 0.6 s	≤ 25 kA rms / 1 s
450 mm	450 mm	450 mm	450 mm	450 mm	300 mm	300 mm
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
Installation	Installation on functional uprights of duct (Prisma G). Screwed onto a solid or pre-slotted plate (450 x 200 mm fixing centres)					
Catalogue numbers	04192	04192	04192	04192	04192	04192

### Prefabricated connections



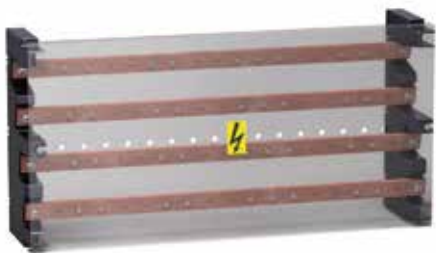
Devices	NSXm160, Linery FM 160A	Linery FM 200A	Compact NSX-INS-INV 100/160/250	Compact NSX-INS-INV 400/630	IPxxB insulated protective shield
Lugs $\varnothing$ 6 mm	L1: 398 mm, L2: 410mm, L3: 438 mm, N: 378 mm	160 A	200 A	160 A	160 A
Configuration			> page C-7	> page C-16	Length 250 mm, height 1500 mm Fixing accessories supplied with support cat no. 04192
Catalogue numbers	04030	04024	04065	04075	04197

Nota: Electrical characteristics. > page D-27

# Linery BS

## Multi-stage distribution blocks

Power busbars up to 630 A



### IEC 61439-1 & 2

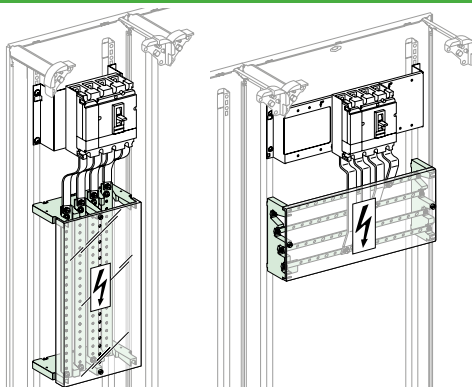
#### Description

The multi-stage distribution block can be installed horizontally in the device zone or vertically in the 300 mm wide duct of enclosures and cubicles.

The distribution block is made up of:

- two staggered supports made of an insulating material
- four slanted copper bars with holes every 25 mm.

### Multi-stage distribution blocks



	160 A	250 A	400 A	630 A
Rated peak withstand current / 60 ms (I <sub>pk</sub> )	30 kA	40 kA	55 kA	77 kA
Rated insulation voltage (U <sub>i</sub> )	750 V AC			
Rated operational voltage (U <sub>e</sub> )	440 V AC			
Rated impulse withstand voltage (U <sub>imp</sub> )	8 kV			
Thermal stress (I <sup>2</sup> .t)	1.000 x 10 <sup>8</sup>	1.690 x 10 <sup>8</sup>	4.000 x 10 <sup>8</sup>	6.250 x 10 <sup>8</sup>
Total connection capacity	4 incomers per phase: Ø from 8 to 12 mm clearance holes 13 outgoing per phase 16 to 50 mm <sup>2</sup> : M6 tapped holes			
Busbar cross-section	15 x 5 mm	20 x 5 mm	32 x 5 mm	32 x 8 mm
Dimensions (mm)				
Installation	Screwed in horizontal position on functional uprights in enclosures and cubicles (Prisma G) Screwed in vertical position on sheathed uprights (Prisma G) Screwed onto a solid or pre-slotted plate (fixing centres 450 x 200 mm)			
Composition	2 multi-stage supports made of an insulating material 4 slanted copper busbars, with holes every 25 mm 1 pack of 36 M6 x 16 screws + contact washers 1 IPxxB front insulating shield			
Catalogue numbers	04052	04053	04054	04055

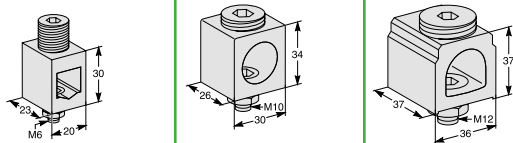
	A	B
04052	4 x Ø 8.2	13 x M6
04053	4 x Ø 10.2	13 x M6
04054	4 x Ø 12.2	13 x M6
04055	4 x Ø 12.2	13 x M6

# Lineryg BS

## Common accessories

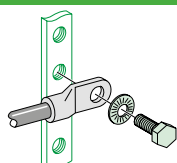
Power busbars up to 630 A

### Incomer accessories



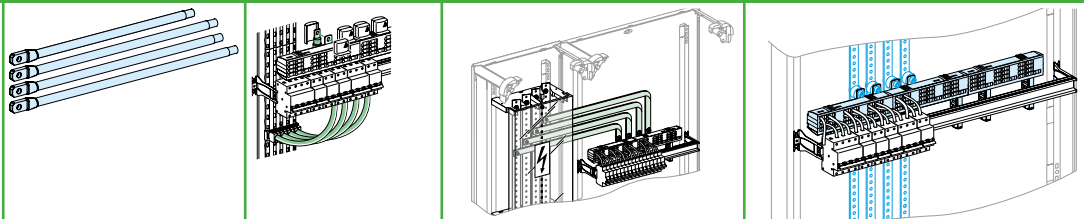
Connectors for copper or aluminium cables			
Rated operational current at 40 °C (Ie)	160 A	250 A	400 A
Supply at incoming terminals	16 to 70 mm <sup>2</sup> cables	16 to 185 mm <sup>2</sup> cables	70 to 300 mm <sup>2</sup> cables
Composition	Supplied with fixings at busbar end		
Set of	4		
Catalogue numbers	07051	07052	07053

### Outgoer accessories



Class 8.8 fixings	
Composition	20 M6 x 20 screws + 20 nuts + 40 contact washers
Catalogue numbers	04194
	40 M6 x 16 screws + 40 contact washers
	04195

### Connections to device and Lineryg FM



	4P 160 A connection	4P 200 A connection (Supplied with mounting hardware)	4P 200 A connection (supplied with fixings)	4P 200 A connection (supplied with fixings)
Allows supply of	Lineryg FM 160 A	Lineryg FM 200 A	Lineryg BS busbars in duct	Rear Lineryg BS busbars
Catalogue numbers	04030	04021	04024	04029

Nota: Electrical characteristics. > page D-27



# Linergy DX

## Quick distribution blocks



### Distribution blocks



### IEC 60947-7-1, IEC 61439-2

#### Description

- Downstream circuits are connected from the front, to spring terminals.
- Contact pressure automatically adapts to the size of the conductor.
- Contacts are insensitive to vibrations and thermal variations.
- Only one cable (flexible or rigid) can be inserted per terminal.

Quick distribution blocks		
Number of poles	4P, upstream incoming	4P, downstream incoming
		
Rated operational current at 40 °C (Ie)	63 A	63 A
Rated conditional short-circuit breaker of an assembly (Isc)	The reinforced breaking capacity due to cascading in circuit breaker combinations is maintained. The worst-case situations have been tested. 150 kA	
Rated peak withstand current (Ipk)	10 kÂ	10 kÂ
Rated insulation voltage (Ui)	500 V AC	500 V AC
Rated operational voltage (Ue)	440 V AC	440 V AC
Rated impulse withstand voltage (Uimp)	6 kV	6 kV
Thermal stress (I².t)	9,03 x 10 <sup>6</sup>	9,03 x 10 <sup>6</sup>
Rated operational frequency	50/60 Hz	50/60 Hz
Degree of protection	IPxxB	IPxxB
Incoming terminals	1 tunnel terminal 25 <sup>2</sup> /Ph	1 tunnel terminal 25 <sup>2</sup> /Ph
Total connection capacity, outgoing terminals	24 connections: 4 x 6 <sup>2</sup> /phase 12 x 6 <sup>2</sup> /neutral	24 connections: 4 x 6 <sup>2</sup> /phase 12 x 6 <sup>2</sup> /neutral
Dimensions (H x W x D)	96.5 x 72 x 62 8 x 9 mm pitch	96.5 x 72 x 62 8 x 9 mm pitch
Installation	Clipped onto a DIN rail	Clipped onto a DIN rail
Other		
Standard for installation inside Prisma	IEC 61439-2	IEC 61439-2
Glow-wire 60695-2-11	960 °C	960 °C
Degree of pollution	3	3
<b>Catalogue numbers</b>	<b>04040</b>	<b>04041</b>

### Accessories

<b>Catalogue numbers</b>	-	-
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# Lineryg DX

## Quick distribution blocks

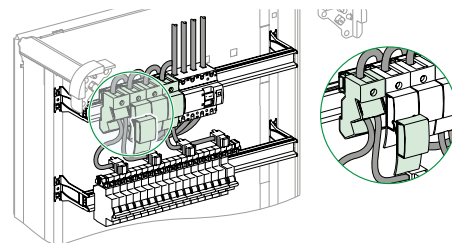
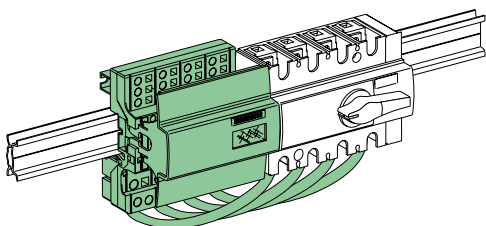
### Distribution blocks

#### Advantages

- A reliable electrical connection, no maintenance required (tightness guaranteed over time).
- Quick connection.
- Easy phase balancing.
- Ease of rewiring if the switchboard is expanded or modified.

4P		1P
		
125 A	160 A	160 A
The reinforced breaking capacity due to cascading in circuit breaker combinations is maintained. The worst-case situations have been tested. 150 kA		
20 kA	20 kA	24 kA
750 V AC	750 V AC	750 V AC
690 V AC	690 V AC	690 V AC
8 kV	8 kV	8 kV
$2.025 \times 10^7$	$2.025 \times 10^7$	$3.025 \times 10^7$
50/60 Hz	50/60 Hz	50/60 Hz
IPxxB	IPxxB	IPxxB
1 tunnel terminal 35 <sup>2</sup> /Ph	Supplied with a prefabricated flexible connection equipped with tunnel terminals.	1 tunnel terminal 70 <sup>2</sup> /Ph
52 connections: 7 x 4 <sup>2</sup> /phase 3 x 6 <sup>2</sup> /phase 2 x 10 <sup>2</sup> /phase 1 x 16 <sup>2</sup> /phase (screw terminal)	52 connections: 7 x 4 <sup>2</sup> /phase 3 x 6 <sup>2</sup> /phase 2 x 10 <sup>2</sup> /phase 1 x 16 <sup>2</sup> /phase (screw terminal)	6 connections: 6 x 16 <sup>2</sup> /phase
127 x 108 x 48 12 x 9 mm pitch	127 x 108 x 48 12 x 9 mm pitch	95 x 36 x 70 4 x 9 mm pitch
Screwed to plain or slotted backplate or onto DIN rail	Screwed to plain or slotted backplate or onto DIN rail	Onto DIN rail
Possible to combine 2 terminal blocks (2nd terminal block supplied from enclosed terminals in the 1st, I <sub>max</sub> of 2nd terminal block: 80 A)		
IEC 61439-2	IEC 61439-2	IEC 61439-2
960 °C	960 °C	960 °C
3	3	3
<b>04045</b>	<b>04046 (1)</b>	<b>04031</b>

4 x 125A flexible connections, L=240 mm with end fitting for tunnel terminals	-	4 x 160 A flexible connections, L = 380 mm with 2 x 45 mm <sup>2</sup> end fittings for tunnel terminals
<b>04047 (1)</b>		<b>04149</b>



**Nota:** Electrical characteristics. > page D-27

(1) For INS160: adaptation with references 28947 and 28948



# Lineryg DP

Quick distribution blocks

Distribution blocks



## IEC 60947-7-1, IEC 61439-1 and 2

### Description

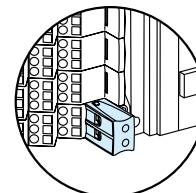
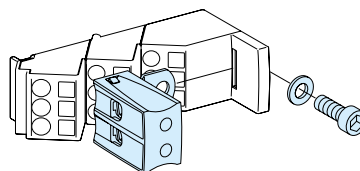
■ The Lineryg DP quick distribution block is designed for installation directly downstream of Compact NSX and INS up to 250 A. It can also be clipped onto a modular rail.

### Avantages

- It is quick to mount in the horizontal position. Electrical connections are made directly to the device terminals.
- It is 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 avoid exceeding the bending radius of the flexible and rigid cables.

Quick distribution blocks for Compact devices				
Number of poles	3P	4P	3P	4P
Rated operational current (Ie)	250 A	250 A	250 A	250 A
Rated peak withstand current (Ipk)	30 kA	30 kA	30 kA	30 kA
Thermal stress (I².t)	7.225 x 10⁷	7.225 x 10⁷		
Total connection capacity, outgoing terminals	27 connections: 6 x 10²/phase 3 x 16²/phase	36 connections: 6 x 10²/phase 3 x 16²/phase	2 connections: 2 x 35²/pole	2 connections: 2 x 35²/pole
Incomer terminals	1 cable lug 120 mm² per pole			
Dimensions (H x W x D)	105 x 138 x 63	140 x 138 x 64		
Installation	On mounting plate or DIN rail		On mounting plate	
Product certifications	ASEFA - KEMA			
Standard for installation inside Prisma	IEC 61439-1-2			
Glow-wire 60695-2-11	960 °C			
<b>Catalogue numbers</b>	<b>04033</b>	<b>04034</b>	<b>04155</b>	<b>04156</b>

Additional block		
Description	2 x 35² 3P for Lineryg DP 250 A	2 x 35² 4P for Lineryg DP 250 A
<b>Catalogue numbers</b>	<b>04155</b>	<b>04156</b>



# Linergy DP

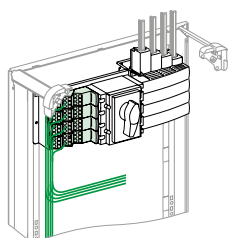
## Quick distribution blocks

### Distribution blocks

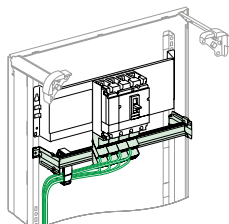
### Technical data

Common characteristics		
Rated conditional short-circuit current of an assembly	(Isc)	The reinforced breaking capacity due to cascading in circuit-breaker combinations is maintained. The worst-case situations have been tested.
Rated insulation voltage	(Ui)	750 V AC
Rated operational voltage	(Ue)	690 V AC
Rated impulse withstand voltage	(Uimp)	8 kV
Network frequency		50/60 Hz
Degree of protection		IPxxB
Degree of pollution		3
Overvoltage category		III
Additional technical characteristics		
Reference temperature		40 °C
Operating temperature		-25 °C to 55 °C

### Installation



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



It can also be mounted downstream of vertically mounted Compact **NSX100/250** and Compact **INS250** devices in the enclosures. In this case, the Linergy DP is mounted on a depth-adjustable modular rail.

**Nota:** Electrical characteristics. > page D-27



# Lineryg DS

## Screw distribution blocks

### Distribution blocks



### IEC/EN 60947-7-1, IEC/EN 61439-1 & 2

#### Description

- Single-pole or four-pole distribution block that can be installed on a standard DIN rail or on a mounting plate.
- Compatible with Prisma G and P, Pragma, Mini Pragma and Resbo series switchboards.
- Incomers and feeders are connected to screw terminals that accept rigid or flexible cables with ferrule.
- Optional: additional neutral terminal strip for four-pole distribution block.

#### Avantages

- Simplified power supply for main incomers.
- Easy phase balancing.
- Easy, effortless cabling due to excellent accessibility.
- Visible cabling.
- Insulation between phases.
- The single-pole distribution blocks are adjacent and bridgeable via the second incoming hole for parallel connection.

### Screw distribution blocks

Number of poles	1P			4P
				
Rating	125 A	160 A	250 A	100 A
Number of connections	10	13	14	4 x 7
<b>Terminal capacity</b>				
Diameter	2 x Ø 9.5 mm	2 x Ø 12 mm	1 x Ø 15.3 mm	2 x Ø 7.5 mm
	2 x Ø 7.5 mm	3 x Ø 7.5 mm	1 x Ø 10 mm	5 x Ø 5.5 mm
	6 x Ø 5.8 mm	8 x Ø 5.8 mm	4 x Ø 6 mm	-
	-	-	8 x Ø 7.5 mm	-
Rated peak withstand current (I <sub>pk</sub> )	I <sub>pk</sub> /60 ms	25 kA	36 kA	60 kA
	I <sub>pk</sub> /6 ms	-	-	-
Rated short-time withstand current (I <sub>cc</sub> ) (IEC/EN 60947-7-1)	36 kA	36 kA	36 kA	20 kA
Width (number of 9 mm pitches)	3	4	5	8
Dimension (H x W x D)	85 x 27 x 50.5	85 x 36 x 50.5	85 x 45 x 50.5	100 x 71 x 50.5
Weight (g)	125	163	239	210
Neutral terminal strip (optional)	-	-	-	LGYN1007
Catalogue numbers	LG Y112510	LG Y116013	LG Y125014	LG Y410028

# Linery DS

## Screw distribution blocks

### Distribution blocks



On LGY412560 and LGY416048 references.  
Input cabling facilitated by side terminals.

### Technical data

Common characteristics	
In compliance with IEC/EN 60947-7-1 and IEC/EN 61439-1 & 2	
Rated insulation voltage (Ui)	500 V AC
Rated operational voltage (Ue)	230 V AC (Ph/N) 440 V AC(Ph/Ph)
Rated impulse withstand voltage (Uimp)	8 kV
Rated conditional short-circuit current of an assembly	Up to the breaking capacity of Schneider Electric feeder circuit breakers, even in cascading configuration
Network frequency	50/60 Hz
Pollution degree	3
Overvoltage category	III
Additional technical characteristics	
Reference temperature	40 °C
Operating temperature	-25 °C to 55 °C
Dielectric withstand (IEC/EN 60947-1)	2500 V AC

			Neutral terminal strip		
125 A	160 A	160 A	100 A	125 A	150 A
4 x 12	4 x 15	4 x 12	7	12	15
1 x Ø 9 mm	1 x Ø 9.5 mm	1 x Ø 12 mm	2 x Ø 7.5 mm	1 x Ø 9 mm	1 x Ø 9.5 mm
7 x Ø 7.5 mm	3 x Ø 8.5 mm	3 x Ø 9 mm	5 x Ø 5.5 mm	7 x Ø 7.5 mm	3 x Ø 8.5 mm
4 x Ø 6.5 mm	11 x Ø 6.5 mm	8 x Ø 7.5 mm	-	4 x Ø 6.5 mm	11 x Ø 6.5 mm
-	-	-	-	-	-
18 kA	18 kA	22 kA	-	-	-
26 kA	28 kA	36 kA	-	-	-
36 kA	36 kA	36 kA	-	-	-
14	20	18	7	14	17
100 x 126 x 50.5	100 x 162 x 50.5	100 x 174 x 50.5	20 x 70 x 35	20 x 125 x 35	20 x 155 x 35
390	559	567	63	111	149
LGYN12512	LGYN12515	LGYN12512	-	-	-
<b>LGY412548</b>	<b>LGY412560</b>	<b>LGY416048</b>	<b>LGYN1007</b>	<b>LGYN12512</b>	<b>LGYN12515</b>



### Terminal technical data

Type	PZ2 screw							
Diameter	Ø 5.5 mm	Ø 5.8 mm	Ø 6 mm	Ø 6.5 mm	Ø 7.5 mm	Ø 8.5 mm	Ø 9 mm	Ø 9.5 mm
Section Rigid cable	1.5 to 16 mm <sup>2</sup>	1.5 to 16 mm <sup>2</sup>	1.5 to 16 mm <sup>2</sup>	1.5 to 16 mm <sup>2</sup>	2.5 to 25 mm <sup>2</sup>	6 to 35 mm <sup>2</sup>	10 to 35 mm <sup>2</sup>	10 to 35 mm <sup>2</sup>
Section Flexible cable or with ferrule	1.5 to 10 mm <sup>2</sup>	1.5 to 10 mm <sup>2</sup>	1.5 to 10 mm <sup>2</sup>	1.5 to 10 mm <sup>2</sup>	1.5 to 16 mm <sup>2</sup>	4 to 25 mm <sup>2</sup>	4 to 25 mm <sup>2</sup>	6 to 35 mm <sup>2</sup>
Tightening torque	2 N.m	2 N.m	2 N.m	2 N.m	2 N.m	2 N.m	2.5 N.m	2.5 N.m
Type	Hc screw							
Diameter	Ø 9.5 mm	Ø 10 mm	Ø 12 mm		Ø 15.3 mm			
Section Rigid cable	10 to 35 mm <sup>2</sup>	1.5 to 50 mm <sup>2</sup>	25 to 70 mm <sup>2</sup>		35 to 120 mm <sup>2</sup>			
Section Flexible cable or with ferrule	6 to 35 mm <sup>2</sup>	1.5 to 35 mm <sup>2</sup>	16 to 50 mm <sup>2</sup>		25 to 95 mm <sup>2</sup>			
Tightening torque	8 N.m	4 N.m	1P: 10 N.m	4P: 5 N.m	14 N.m			

# Lineryg FM

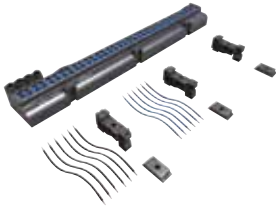
## Quick device feeders

### Device feeders

### IEC60947-7-1 and IEC61439-1 and 2

#### Description

- Distribution over full rows of modular devices.
- The distribution block is generally supplied by busbars in enclosures and cubicles.
- Easy phase balancing.
- Mix of devices and functions in the same row.
- Installation  $\geq 160$  A: clipped onto the back of a modular rail or screwed onto a solid or pre-slotted plate



#### Distribution blocks

Number of poles		4P	4P	4P
		<b>63 A</b>	<b>80 A</b>	<b>160 A</b>
Rated peak withstand current	(Ipk) 60ms	15 kA	16 kA	27 kA
Rated conditional short-circuit current of an assembly	(Isc)	The cascading reinforced breaking capacity when combining circuit breakers is maintained. The worst-case scenarios have been tested. The characteristics are exactly right for the connected devices. Circuit breakers and switches still have their temperature derating curves.		
Insulation voltage	(Ui)	500 V AC	500 V AC	750 V AC
Rated voltage	(Ue)	440 V AC	440 V AC	690 V AC
Rated impulse withstand voltage	(Uimp)	6 kV	6 kV	8 kV
Maximum current	(Imax)	-	-	50 A for feeder for 1 10 mm <sup>2</sup> cable/63 A for feeder for 2 10 mm <sup>2</sup> cables
Thermal stress	(I <sup>2</sup> .t)	9,03 x 10 <sup>6</sup>	9,03 x 10 <sup>6</sup>	3,600 x 10 <sup>7</sup>
Rated operational frequency		50/60 Hz		50/60 Hz
Degree of protection		IPxxB	IP20	IPxxB
Width	9 mm modules	24	48	24
	18 mm modules	12	24	12
Supply at incoming terminals		Enclosed terminals for cables up to 25 mm <sup>2</sup>	Enclosed terminals for flexible cables 6 to 25 mm <sup>2</sup> or rigid cables 10 to 35 mm <sup>2</sup>	Direct onto the row by cable 70 mm <sup>2</sup> with crimped lug, or flexible bar 20 x 3 from busbar with prefabricated connection
Downstream connection capacity (1)	Phase	(6 x 4 mm <sup>2</sup> ) + (6 x 6 mm <sup>2</sup> )	18 x 6 mm <sup>2</sup>	18 x 10 mm <sup>2</sup>
	Neutral	(4 x 4 mm <sup>2</sup> ) + (4 x 6 mm <sup>2</sup> )	18 x 6 mm <sup>2</sup>	9 x 10 mm <sup>2</sup>
Accessories included	Pre-stripped copper connections	10 x 4 mm <sup>2</sup> + 6 x 6 mm <sup>2</sup> (W = 100 mm)	12 blue + 12 black	12 of 10 mm <sup>2</sup> (W = 100 mm)
	Protection cover	-	-	For rows (IPxxB)
	Fixings	-	-	For rows
<b>Catalogue numbers</b>		<b>04008 (1)</b>	<b>04000</b>	<b>04018 (1)</b>

#### Installation

Clipped onto the back of a modular rail, or screw fixing.	Clipped onto the back of a modular rail, or screw fixing.	Can be mounted in Pragma Evolution enclosures and in Prisma Pack 160.

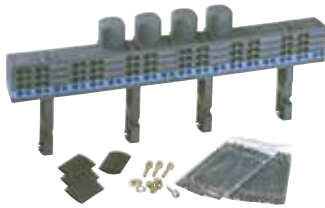
#### Connections to the device feeders





4P 200 A connection (supplied with fixing accessories)	4P 200 A connection (supplied with fixing accessories)	4P 200 A connection (supplied with fixing accessories)	4P 160 A connection for Linergy FM 1/2 row	200 A connection (20 x 3) for Linergy FM
Allows power supply from	Linergy BW busbar	Multi-stage Linergy BS busbar	Rear Linergy BS busbar	Device
<b>Catalogue numbers</b>	<b>04021 + 04150 insulating covers</b>	<b>04024</b>	<b>04029</b>	<b>04030</b>
				<b>04743</b>

# Lineryg FM

## Quick device feeders

### Device feeders



2P	3P	4P (1)	4P - L = 36 modules
			
<b>200 A</b> 25 kA	<b>200 A</b> 25 kA	<b>200 A</b> 30 kA	<b>200 A</b> 20 kA
750 V AC	750 V AC	750 V AC	750 V AC
690 V AC	690 V AC	690 V AC	690 V AC
8 kV	8 kV	8 kV	8 kV
50 A for feeder for 1 10 mm <sup>2</sup> cable/63 A for feeder for 2 10 mm <sup>2</sup> cables			
3,600 x 10 <sup>7</sup>	3,600 x 10 <sup>7</sup>	3,600 x 10 <sup>7</sup>	3,600 x 10 <sup>7</sup>
50/60 Hz AC	50/60 Hz AC	50/60 Hz AC	50/60 Hz AC
IPxxB	IPxxB	IPxxB	IPxxB
48	48	48	72
24	24	24	36
Direct onto the row by cable 70 mm <sup>2</sup> with crimped lug, or flexible bar 20 x 3 from busbar with prefabricated connection			
12 x 10 mm <sup>2</sup>	36 x 10 mm <sup>2</sup>	36 x 10 mm <sup>2</sup>	54 x 10 mm <sup>2</sup>
12 x 10 mm <sup>2</sup>	-	18 x 10 mm <sup>2</sup>	27 x 10 mm <sup>2</sup>
24 of 10 mm <sup>2</sup>	24 of 10 mm <sup>2</sup>	24 of 10 mm <sup>2</sup>	36 of 10 mm <sup>2</sup>
-	-	-	-
-	-	-	-
<b>04012 (1)(2)</b>	<b>04013 (1)</b>	<b>04014 (1)(2)</b>	<b>04026 (1)</b>



### Spare parts



	4 covers for 160/200 A Linergy FM rows
<b>Catalogue numbers</b>	<b>01202</b>

**Nota:** modular row with Linergy FM 200 A (24 or 36 modules) and 160 A (12 modules) positioned directly below a non-modular mounting plate (Compact, etc.), or at the top of a switchboard: add 1 additional module and a plain upstream front plate.

Electrical characteristics. > page D-27

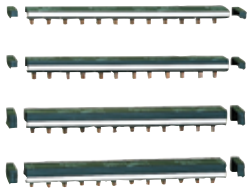
(1) Cable to be used without ferrules.

(2) The Linergy FM 200 (04012 and 04014) can be used with direct current. The upstream and downstream terminal type (⊕ and ⊙) must be marked on the device. For more information, please contact our customer services.

# Lineryg FH

Horizontal comb busbar for 27 mm pitch for NG125

Device feeders



## IEC 60664-1

### Description

Comb busbars make it easier to install NG125 circuit breakers.

- Supplied with 2 lateral end-caps, IP 2.
- Outgoing feeders can be marked.
- Cutting markings on the copper bars and the insulating material.

NG125		27 mm poles, cuttable			
Number of poles		1P	2P	3P	4P
		Each com busbar reference includes: <ul style="list-style-type: none"> <li>■ 1 x single or 2 pole comb busbar + 8 tooth-caps + 2 side plates</li> <li>■ 1 x 3 or 4 pole comb busbar + 4 tooth-caps + 2 side plates</li> </ul> To insulate teeth that have been left free can be insulated by tooth-caps			
Rated operational current at 40 °C	(Ie)	125 A (63 A max by outgoer)			
Rated conditional short-circuit current of an assembly	(Isc)	Compatible with the breaking capacity of NG125 circuit breakers			
Insulation voltage	(Ui)	620 V AC			
Rated voltage	(Ue)	500 V AC			
Fire resistance to IEC 695-2-1		Self-extinguishing 960 °C, 30 s			
Colour		RAL 7016 (anthracite grey)			
<b>Use</b>					
		Power supply by connector recommended			
Number of 27 mm modules		16	16	15	16
Set of		1			
<b>Catalogue numbers</b>		<b>14811</b>	<b>14812</b>	<b>14813</b>	<b>14814</b>

Installation	
	Comb busbars allow dismountability (1-2)

Accessories		
<b>Number of poles</b>	1P, 2P, 3P, 4P	
	<b>Tooth covers</b>	<b>Insulated connector</b>
		Compatible with all Schneider Electric comb busbars. Clip onto the comb busbar's insulating material, which gives them very great stability Receive clip-on markers allowing circuit identific
<b>Use</b>		
		For 25 mm <sup>2</sup> semi-rigid cable
Set of	20	4
<b>Catalogue numbers</b>	<b>14818</b>	<b>14885</b>
<b>Installation</b>		



# Lineryg FH

Horizontal comb busbar for 18 mm pitch for Acti 9

Device feeders



## IEC 60947-7-1, IEC 61439-2

### Description

Comb busbars make it easier to install Acti 9 circuit breaker.

- Can be sawn and cut in a single pass.
- Supplied with two IP20 lateral end-caps except for 57 module references.
- Cutting marks on the insulating material for easy adaptation.
- The phases are identified by symbols on each side of the comb busbar for installation in all positions.
- The special comb busbars for circuit breakers with 9 mm auxiliaries have a 9 mm gap for inserting iOF and iSD.

Acti 9	18 mm poles, cuttable										
Number of poles	1P	2P	3P	4P	3 (N+P)	Aux+1P	Aux+2P	Aux+3P	Aux+4P	3 (Aux+1P)	3 (Aux+N+1P)
Rated operational current at 40 °C (Ie)	100 A										
Rated conditional short-circuit current of an assembly (Isc)	Compatible with the breaking capacity of Acti 9 circuit breakers										
Insulation voltage (Ui)	500 V AC										
Rated voltage (Ue)	415 V AC										
Fire resistance to IEC 695-2-1	Self-extinguishing 960 °C, 30 s										
Colour	RAL 7016 (anthracite grey)										
<b>Use</b>											
Power supply by connector recommended											
Type	L1...	L1L2...	L1L2L3...	NL1L2L3...	NL1NL2... ...NL3	AuxL1...	AuxL1L2...	AuxL1L2L3	AuxNL1... ...L2L3	AuxL1... ...AuxL2... ...AuxL3	AuxL1... ...AuxL2... ...AuxL3
Set of	1	1	1	1	1	1	1	1	1	1	1
<b>Catalogue numbers</b>											
6 modules of 18 mm	A9XPH106	-	-	-	-	-	-	-	-	-	-
12 modules of 18 mm	A9XPH112	A9XPH212	A9XPH312	A9XPH412	A9XPH512*	-	-	-	-	-	-
18 modules of 18 mm	-	-	-	-	A9XPH518*	-	-	-	-	-	-
24 modules of 18 mm	A9XPH124	A9XPH224	A9XPH324	A9XPH424	A9XPH524*	-	-	-	-	-	-
57 modules of 18 mm	A9XPH157	A9XPH257	A9XPH357	A9XPH457	A9XPH557*	A9XAH157	A9XAH257	A9XAH357	A9XAH457	A9XAH657	A9XAH557*

\* This comb busbar is only compatible in top feeding for simple lug devices and bottom feeding on double lug devices.

### Installation



### Accessories

Number of poles	1P	2P	3P	4P	-	-	-	
	<b>Side plates</b>				<b>Tooth covers</b>		<b>Connectors</b>	
	Lateral end-caps providing IP20 protection				To insulate teeth that have been left free		<b>Monoconnect</b>   <b>Double terminals</b> Comb busbar power supply. Horizontal in-come on each side. For 35 mm <sup>2</sup> cable. Tightening torque 4 N.m	
Set of	10	10	10	10	20	4	4	
Catalogue numbers	A9XPE110	A9XPE210	A9XPE310	A9XPE410	A9XPT920	A9XPCM04	A9XPCD04	



# Lineryg FH

Horizontal comb busbar for 18 mm pitch for Acti 9

Device feeders



IEC 60947-7-1, IEC 61439-2

## Description

- Comb busbars make it easier to install Acti 9 circuit breakers.
- The phases are identified by symbols on each side of the comb busbar for installation in all positions.

Acti 9		18 mm poles, not cuttable				
Number of poles		1P	2P	3P	4P	3 (N+P)
Rated operational current at 40 °C (Ie)		100 A				
Rated conditional short-circuit current of an assembly (Isc)		Compatible with the breaking capacity of Acti 9 circuit breaker				
Insulation voltage (Ui)		500 V AC				
Rated voltage (Ue)		415 V AC				
Fire resistance to IEC 695-2-1		Self-extinguishing 960 °C, 30 s				
Colour		RAL 7016 (anthracite grey)				
<b>Use</b>						
Type		Power supply by connector recommended				
Set of		L1	L1L2	L1L2L3	NL1L2L3	NL1NL2NL3
Catalogue numbers		1	1	1	1	1
12 modules of 18 mm		<b>A9XPM112</b>	<b>A9XPM212</b>	<b>A9XPM312</b>	<b>A9XPM412</b>	<b>A9XPM512 (1)</b>

## Installation



## Accessories

	<b>Tooth covers</b>		<b>Connectors</b>		
	To insulate teeth that have been left free		<b>Double terminals</b>		<b>Monoconnect</b>
			Comb busbar power supply		
<b>Use</b>			Horizontal incomer on each side For 35 mm <sup>2</sup> cable Tightening torque 4 N.m		
Set of	20	4	4		
Catalogue numbers	<b>A9XPT920</b>	<b>A9XPCD04</b>	<b>A9XPCM04</b>		
<b>Installation</b>					

(1) This comb busbar is only compatible in top feeding for simple lug devices and bottom feeding on double lug devices.

# Lineryg FH



Horizontal comb busbar for 9 mm pitch for Acti 9, C60

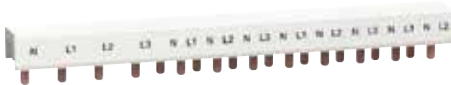
Device feeders





## IEC 60439-1 Description

- Easy, reliable mounting of 1P+N and 3P+N, TL, CT, ID, V, BP and Cm switchgear: tooth positioning opposite the device terminals is ensured by indexing of copper parts
- C60/ID Group Feeder comb busbars contain two different parts:
  - connection of Group Feeder switchgear: C60 (3P + N) or ID (3P + N) circuit breaker in 18 mm modules, powered by cables, through the bottom, directly by the terminals
  - connection of Acti 9 switchgear in 9 mm modules.

Acti 9 Ph+N		9 mm poles, cuttable					
Number of poles		1P+N			3P+N		
							
		21501			21505		
		Complete comb busbars (supplied with 4 side plates and 1 tooth-cover)					
Rated operational current at 40 °C (Ie)		80 A					
Rated conditional short-circuit current of an assembly (Isc)		Compatible with the breaking capacity of Acti 9 and C60 circuit breakers					
Insulation voltage (Ui)		440 V AC					
Rated voltage (Ue)		230 V AC (P + N) - 400 V AC (3P + N)					
Rated impulse withstand voltage (Uimp)		6 kV					
Degree of protection		IP20					
Fire resistance to IEC 695-2-1		Self-extinguishing 960 °C, 30 s					
Colour		RAL 7035					
Number of 18 mm modules	Comb busbar	12	18	24	12	18	24
	Tooth cover	3	3	6	3	3	6
<b>Catalogue numbers</b>		<b>21501</b>	<b>19512</b>	<b>21503</b>	<b>21505</b>	<b>19516</b>	<b>21507</b>
<b>Comb busbars alone</b>							
Number of 18 mm modules	Comb busbar	48			48		
		<b>21089</b>			<b>21093</b>		

C60/ID Group Feeder comb busbars alone		3P+N			
					
Rated operational current at 40 °C (Ie)		80 A			
Rated conditional short-circuit current of an assembly (Isc)		Compatible with the breaking capacity of Schneider Electric circuit breakers			
Insulation voltage (Ui)		440 V AC			
Rated voltage (Ue)		230 V AC (P + N) - 400 V AC (3P + N)			
Rated impulse withstand voltage (Uimp)		6 kV			
Degree of protection		IP20			
Fire resistance to IEC 695-2-1		Self-extinguishing 960 °C 30 s			
Colour		RAL 7035			
Number of 18 mm modules		12	48	48	48
	Power supply	Through left-hand	Through left-hand	Through left-hand	Through right-hand
<b>Catalogue numbers</b>		<b>10545</b>	<b>10546</b>	<b>10546</b>	<b>10547</b>

Accessories				
Number of poles	1P+N	3P+N		
				
	<b>Side plates</b>	<b>Tooth caps (3 x 18-mm module)</b>	<b>Tooth caps (1 x 18-mm module)</b>	<b>Connectors (grey)</b>
Set of	40	12	10	4
<b>Catalogue numbers</b>	<b>21094</b>	<b>21095</b>	<b>21096</b>	<b>10405</b>
				<b>21098</b>

# Lineryg FH

Horizontal comb busbar for 9 mm pitch for Acti 9, C60

Device feeders



## IEC 60439-1

### Description

- Connection of Clario, Prodis and Libro switchgear in 9 mm modules.
- The special comb busbars for circuit breaker have a gap of 9 mm for inserting OF, SD, OF-SD/OF auxiliaries.
- The comb busbars for 3P + N circuit breakers and auxiliaries are compatible with Prisma switchboard.
- 1P + N comb busbars are compatible with Prisma and Pragma 24.

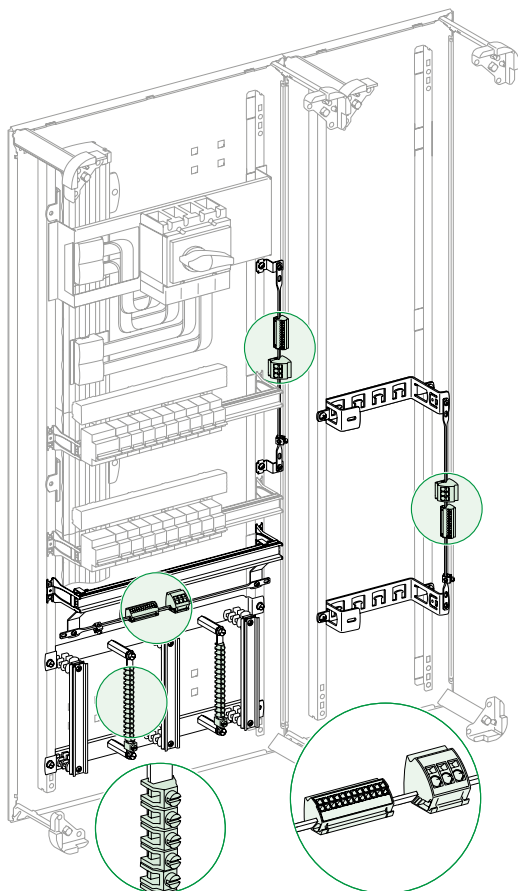
Acti 9				
9 mm poles, cuttable				
Number of poles	1P + N	3P + N	1P + N	3P + N
	A9N21036			
	Comb busbars		Comb busbars DPN Vigi	
Rated operational current at 40 °C (Ie)	63 A			
Rated conditional short-circuit current of an assembly (Isc)	Compatible with the breaking capacity of Acti 9 circuit breaker			
Insulation voltage (Ui)	500 V AC			
Rated voltage (Ue)	230 V AC (P + N) - 400 V AC (3P + N)			
Degree of protection	IP20			
Degree of pollution	3			
Fire resistance to IEC 695-2-1	Self-extinguishing 960 °C, 30 s			
Colour	RAL 7035			
Number of 18 mm modules	56	56	56	56
Catalogue numbers	A9N21035	A9N21036	A9N21037	A9N21038

Accessories					
Number of poles	1P+N	3P+N			
	Side plates		Connectors (grey)	Neutral connectors (blue)	Tooth caps (1 x 18 mm module)
Set of	20		10	10	10
Catalogue numbers	A9N21039	A9N21040	A9N21041	A9N21042	A9N21050

# Linergy TB

## Earth bars

### Terminal blocks

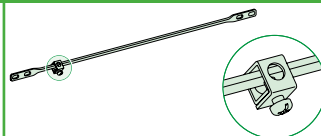


### Description

This range of earth bars is installed:

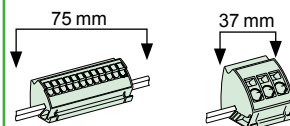
- in the duct which can constitute a dedicated area, completely separate from the equipment
- or in the switchgear compartment, at the top or the bottom.

#### Fast-connecting earth bar



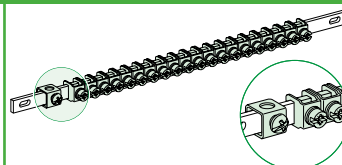
	<b>Copper earth bar</b>
Cross-section (mm)	12 x 3
Effective length (mm)	330
Total length (mm)	450
Composition	Copper bar with 1 terminal 16 to 35 mm <sup>2</sup>
<b>Catalogue numbers</b>	<b>04201</b>

#### Accessories



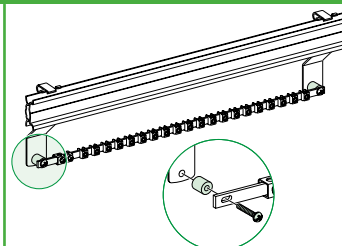
	<b>Earth blocks with terminals</b>	
	Spring-fixing (clip onto the earth bar)	
Total connection capacity	12 x 4 mm <sup>2</sup>	3 x 16 mm <sup>2</sup>
Composition	4 earth blocks	4 earth blocks
<b>Catalogue numbers</b>	<b>04214</b>	<b>04215</b>

#### Accessories



	<b>Earth bar with jumper</b>	
Total connection capacity	40 x 2.5 to 16 mm <sup>2</sup>	20 x 2.5 to 16 mm <sup>2</sup>
Cross-section (mm)	12 x 3	12 x 3
Length (mm)	450	200
Composition	40 jumpers and a terminal (16 to 35 mm <sup>2</sup> )	20 jumpers and a terminal (16 to 35 mm <sup>2</sup> )
<b>Catalogue numbers</b>	<b>04200</b>	<b>04202</b>

#### Accessories



	<b>Neutral bar</b>
	Converts an earth bar to a neutral bar
Composition	2 insulating spacers
<b>Catalogue numbers</b>	<b>04210</b>

### Installation accessories




> pages C-47 to C-57



Lineryg TR  
Terminal blocks

Terminal blocks

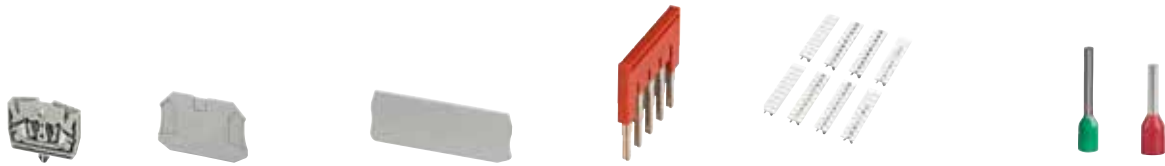


			Connection technology					
Type of terminal block	Cross section area	Color	Screw tech 	Spring tech 	Push-in tech 	Miniature screw for 15 mm DIN rail	Miniature spring for 15 mm DIN rail	Miniature spring for direct mount
Passthrough	2.5 mm <sup>2</sup> (2 pts)	Grey	NSYTRV22	NSYTRR22	NSYTRP22	NSYTRV22M	NSYTRR22M	NSYTRR22MF
		Blue	NSYTRV22BL	NSYTRR22BL	NSYTRP22BL	NSYTRV22MBL	NSYTRR22MBL	NSYTRR22MFB
		Orange	NSYTRV22AR	NSYTRR22AR	NSYTRP22AR	-	-	NSYTRR22MFF'
	2.5 mm <sup>2</sup> (3 pts)	Grey	NSYTRV23	NSYTRR23	NSYTRP23	-	-	-
		Blue	NSYTRV23BL	NSYTRR23BL	NSYTRP23BL	-	-	-
		Orange	-	NSYTRR23AR	NSYTRP23AR	-	-	-
	2.5 mm <sup>2</sup> (4 pts)	Grey	NSYTRV24	NSYTRR24	NSYTRP24	-	NSYTRR24M	NSYTRR24M
		Blue	NSYTRV24BL	NSYTRR24BL	NSYTRP24BL	-	NSYTRR24MBL	NSYTRR24MBL
	2.5 mm <sup>2</sup> (4 pts, 2 levels)	Grey	NSYTRV24D	NSYTRR24D	NSYTRP24D	-	-	-
		Blue	NSYTRV24DBL	NSYTRR24DBL	NSYTRP24DBL	-	-	-
	2.5 mm <sup>2</sup> (6 pts, 3 levels)	Grey	NSYTRV26T	NSYTRR26T	NSYTRP26T	-	-	-
		Blue	NSYTRV26TBL	NSYTRR26TBL	NSYTRP26TBL	-	-	-
	4 mm <sup>2</sup> (2 pts)	Grey	NSYTRV42	NSYTRR42	NSYTRP42	NSYTRV42M	-	-
		Blue	NSYTRV42BL	NSYTRR42BL	NSYTRP42BL	NSYTRV42MBL	-	-
		Orange	NSYTRV42AR	NSYTRR42AR	-	-	-	-
	4 mm <sup>2</sup> (3 pts)	Grey	NSYTRV43	NSYTRR43	NSYTRP43	-	-	-
		Blue	NSYTRV43BL	NSYTRR43BL	NSYTRP43BL	-	-	-
	4 mm <sup>2</sup> (4 pts)	Grey	NSYTRV44	NSYTRR44	NSYTRP44	-	-	-
		Blue	NSYTRV44BL	NSYTRR44BL	NSYTRP44BL	-	-	-
	4 mm <sup>2</sup> (4 pts, 2 levels)	Grey	NSYTRV44D	NSYTRR44D	-	-	-	-
Blue		NSYTRV44DBL	NSYTRR44DBL	-	-	-	-	
6 mm <sup>2</sup> (2 pts)	Grey	NSYTRV62	NSYTRR62	-	-	-	-	
	Blue	NSYTRV62BL	NSYTRR62BL	-	-	-	-	
10 mm <sup>2</sup> (2 pts)	Grey	NSYTRV102	NSYTRR102	-	-	-	-	
	Blue	NSYTRV102BL	NSYTRR102BL	-	-	-	-	
16 mm <sup>2</sup> (2 pts)	Grey	NSYTRV162	NSYTRR162	-	-	-	-	
	Blue	NSYTRV162BL	NSYTRR162BL	-	-	-	-	
Earth protection	2.5 mm <sup>2</sup> (2 pts)	Green/Yellow	NSYTRV22PE	NSYTRR22PE	NSYTRP22PE	NSYTRV22MPE	NSYTRR22MPE	-
	2.5 mm <sup>2</sup> (3 pts)	Green/Yellow	NSYTRV23PE	NSYTRR23PE	NSYTRP23PE	-	-	-
	2.5 mm <sup>2</sup> (4 pts)	Green/Yellow	NSYTRV24PE	NSYTRR24PE	NSYTRP24PE	-	-	-
	4 mm <sup>2</sup> (2 pts)	Green/Yellow	NSYTRV42PE	NSYTRR42PE	NSYTRP42PE	NSYTRV42MPE	-	-
	4 mm <sup>2</sup> (3 pts)	Green/Yellow	NSYTRV43PE	NSYTRR43PE	NSYTRP43PE	-	-	-
	4 mm <sup>2</sup> (4 pts)	Green/Yellow	NSYTRV44PE	NSYTRR44PE	NSYTRP44PE	-	-	-
	6 mm <sup>2</sup> (2 pts)	Green/Yellow	NSYTRV62PE	NSYTRR62PE	-	-	-	-
	10 mm <sup>2</sup> (2 pts)	Green/Yellow	NSYTRV102PE	NSYTRR102PE	-	-	-	-
Knife Disconnect	2.5 mm <sup>2</sup> (2 pts)	Grey	NSYTRV22SC	NSYTRR22SC	NSYTRP22SC	-	-	-
		Orange	NSYTRV22ST (1)	NSYTRR22SCAR	-	-	-	-
	2.5 mm <sup>2</sup> (3 pts)	Grey	-	NSYTRR23SC	NSYTRP23SC	-	-	-
		Orange	-	NSYTRR23SCAR	-	-	-	-
	2.5 mm <sup>2</sup> (2 levels)	Grey	NSYTRV24SCD	NSYTRR24SCD	-	-	-	-
Fuse Disconnect	4 mm <sup>2</sup> (2 pts)	Black	NSYTRV42SF5	-	-	-	-	-
	5 x 20 mm fuse	Black (12 V)	NSYTRV42SF5LD (2)	-	-	-	-	-
		Black (230 V)	NSYTRV42SF5LA (2)	-	-	-	-	-
Basic Disconnect (3)	4 mm <sup>2</sup> (2 pts)	Grey	NSYTRV42TB	NSYTRR42TB	NSYTRP42TB	-	-	-
Measuring transducer	6 mm <sup>2</sup> (2 pts)	Grey	NSYTRV62TTD	-	-	-	-	-
	6 mm <sup>2</sup> (2 pts)	Grey	NSYTRV62TT	-	-	-	-	-
	6 mm <sup>2</sup> (2 pts)	Green/Yellow	NSYTRV62TTPE	-	-	-	-	-

\* Grey terminal with flange. (1) Grey disconnect terminal with 2 test points.  
 (2) With light indicator.  
 (3) Fuse or component carrier not supplied.

Linergy TR  
Terminal blocks

Terminal blocks



Accessories						
Miniature spring for direct mount	End plate for screw TBs	End plate for spring TBs	End plate for push-in TBs	Plug-in bridge	Marking strips 10 characters	
NSYTRR22MP	NSYTRAC22	NSYTRACR22	NSYTRACR22	NSYTRAL22	NSYTRABF510	
NSYTRR22MPBL	NSYTRAC22BL	NSYTRACR22BL	NSYTRACR22BL	NSYTRAL23	NSYTRABF520	
-	-	-	-	NSYTRAL24	NSYTRABF530	
-	NSYTRAC23	NSYTRACR23	NSYTRACR23	NSYTRAL25	NSYTRABF540	
-	-	NSYTRACR23BL	NSYTRACR23BL	NSYTRAL210	NSYTRABF550	
-	-	-	-	NSYTRAL210BL	NSYTRAB560	
NSYTRR24MP	NSYTRAC24	NSYTRACR24	NSYTRACR24	NSYTRAL210GR	NSYTRAB570	
NSYTRR24MPBL	-	NSYTRACR24BL	NSYTRACR24BL	NSYTRAL220	NSYTRAB580	
-	NSYTRACE24	NSYTRACRE24	NSYTRACRE24		NSYTRAB590	
-	-	-	-		NSYTRAB5100	
-	NSYTRACE26	NSYTRACRE26	NSYTRACPE26		NSYTRAB51100	
-	-	-	-			
-	NSYTRAC22	NSYTRACR42	NSYTRACR42	NSYTRAL42	NSYTRAB610	
-	NSYTRAC22BL	-	-	NSYTRAL43	NSYTRAB620	
-	-	-	-	NSYTRAL44	NSYTRAB630	
-	NSYTRAC23	NSYTRACR43	NSYTRACP43	NSYTRAL45	NSYTRAB640	
-	-	-	-	NSYTRAL410	...	
-	NSYTRAC24	NSYTRACR44	NSYTRACP44	NSYTRAL410BL	NSYTRAB690	
-	-	-	-	NSYTRAL410GR	NSYTRAB6100	
-	NSYTRACE24	NSYTRACRE44	-	NSYTRAL420	NSYTRAB61100	
-	-	-	-			
-	NSYTRAC22	NSYTRACR62	-	NSYTRAL62	NSYTRAB810	
-	NSYTRAC22BL	-	-	NSYTRAL65	NSYTRAB820	
-	NSYTRAC22	NSYTRACR102	-	NSYTRAL102	NSYTRAB1010	
-	NSYTRAC22BL	-	-		NSYTRAB1020	
-	NSYTRAC162	NSYTRACR162	-	NSYTRAL162	NSYTRAB1010	
-	-	-	-		NSYTRAB1020	
-	NSYTRAC22	NSYTRACR22	NSYTRACR22			
-	NSYTRAC23	NSYTRACR23	NSYTRACR23			
-	NSYTRAC24	NSYTRACR24	NSYTRACR24			
-	NSYTRAC22	NSYTRACR42	NSYTRACR42			
-	NSYTRAC23	NSYTRACR43	NSYTRACP43			
-	NSYTRAC24	NSYTRACR44	NSYTRACP44			
-	NSYTRAC22	NSYTRACR62	-			
-	NSYTRAC22	NSYTRACR102	-			
-	NSYTRAC162	NSYTRACR162	-			
-	NSYTRAC23	NSYTRACR23	NSYTRACPK22			
-	NSYTRAC23	-	-			
-	-	NSYTRACR24	NSYTRACPK23			
-	-	-	-			
-	NSYTRACED24	Included	-			
-	Included	-	-			
-	Included	-	-			
-	Included	-	-			
-	Included	Included	NSYTRACR42			
-	NSYTRACT22	-	-			
-	NSYTRACT22	-	-			
-	NSYTRACT22	-	-			

Cable ends compatible with all technologies

Wires corss section area	References
0.5 mm <sup>2</sup>	DZ5CE005 DZ5CA005
0.75 mm <sup>2</sup>	DZ5CE007 DZ5CA007
1 mm <sup>2</sup>	DZ5CE010 DZ5CA010
1.5 mm <sup>2</sup>	DZ5CE015 DZ5CA015
2.5 mm <sup>2</sup>	DZ5CE025 DZ5CA025
4 mm <sup>2</sup>	DZ5CE042 DZ5CA042
6 mm <sup>2</sup>	DZ5CE062 DZ5CA062
10 mm <sup>2</sup>	DZ5CE102 DZ5CA102
16 mm <sup>2</sup>	DZ5CE162 DZ5CA162
25 mm <sup>2</sup>	DZ5CE252 DZ5CA252
35 mm <sup>2</sup>	DZ5CE352 DZ5CA352
50 mm <sup>2</sup>	DZ5CE502 DZ5CA502

DZ5CE\*\*\* = standard insulated cable ends.  
DZ5CA\*\*\* = markable insulated cable ends.



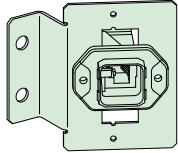
# Linery TA

## Auxiliary connections

### Terminal blocks and bars

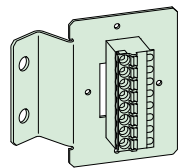
#### Connectors

For plug & play interconnection between electrical switchboard for control and communication wires.



#### RJ45 female-female connector with mounting plate

Connector type	8 wires RJ45; 1 Gbps	
For ethernet cable	CAT5e SFTP (IEC 11801) or higher	
Degree of protection	IP67 for direct mount	
Dimensions (H x W x D)	(mm)	75 x 70 x 45
<b>Catalogue number</b>	<b>LGY4230</b>	

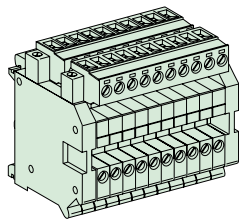


#### 8P male-female connector with mounting plate

Rated operational current at 40 °C	(Ie)	12 A
Rated operational voltage	(Ue)	320 V
Rated impulse withstand voltage	(Uimp)	4 kV
Connection method	Push-in spring connection	
Connection capacity	Input	8
	Output	8
Dimensions (H x W x D)	(mm)	75 x 70 x 45
Wire size	0.2 to 2.5 mm <sup>2</sup>	
<b>Catalogue number</b>	<b>LGY4231</b>	

#### Terminal block

For distributing auxiliary voltages in power and regulation equipment.

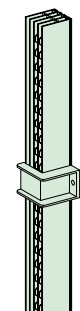


#### Terminal block for auxiliary wiring

Standards		IEC	UL
Rated operational current at 40 °C	(Ie)	12 A	20 A
Rated operational voltage	(Ue)	250 V AC	300 V AC
Rated impulse withstand voltage	(Uimp)	4 kV	
Connection capacity	Input	10 (grey)	
	Output	2 x 10 (grey)	
Dimensions (H x W x D)	(mm)	61 x 48 x 45	
Wire size	0.2 to 2.5 mm <sup>2</sup>		
Tightening torque	0.5 to 0.6 N.m		
Composition	3.5 18-mm modules		
<b>Catalogue number</b>	<b>04228</b>		

#### Bus duct

#### Four-pole auxiliary bus duct



		<b>Duct for 4 conductors</b>
		166 tap-off points with Faston connectors, per linear meter
Rated operational current at 40°	(Ie)	32 A
Rated insulation voltage	(Ui)	660 V AC
Width (mm)	1755	
Composition	Supplied with 2 end clamps and 1 lateral clamp for mounting on cable-tie supports	
<b>Catalogue number</b>	<b>04203</b>	

#### USB and RJ45 ports Ø 22



Description	Interface type	Connection type	Degree of protection		Reference
Panel-mounted USB and RJ45 ports in 22.5 mm hole with notch	USB interface, jack type A	USB port 3.0 A-A	IP20 IP65, IP67, IP69K with protection cover		<b>XB5PUSB3</b>
	Ethernet interface, RJ45 jack	RJ45 port Cat. 6	IP20 IP65, IP67, IP69K with protection cover		<b>XB5PRJ45</b>
	Plastic protection cover IP65/IP67	Ø 22 mm/0.866 in. USB and RJ45 ports	Black	10	<b>ZBSP1</b>
	Rigid plastic protection cover IP65/IP67	Ø 22 mm/0.866 in. USB and RJ45 ports	Transparent	1	<b>ZBSP2</b>
	Metal protection cover IP65/IP67/IP69K	Ø 22 mm/0.866 in. USB and RJ45 ports	Silver	1	<b>ZBSP3</b>



# Designing connection ≤ 630 A

## Electrical characteristics

Device	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
Rated current of a circuit I <sub>nc</sub> (A)												
<b>Linery BW</b>												
Insulated bus bar Linery BW 125A	134	125	129	120	125	116	120	111	116	106	111	■
Insulated bus bar Linery BW 160A	171	160	166	154	160	148	154	142	148	135	142	■
Insulated bus bar Linery BW 250	267	250	259	241	250	231	241	222	231	211	222	■
Insulated bus bar Linery BW 400A	428	400	414	385	400	370	385	355	370	338	355	■
Insulated bus bar Linery BW 630A	673	630	652	607	630	583	607	558	583	532	558	■
<b>Linery BS</b>												
Rear flat busbars 160 A	171	160	166	154	160	148	154	142	148	135	142	■
Rear flat busbars 250 A	267	250	259	241	250	231	241	222	231	211	222	■
Rear flat busbars 400 A	428	400	414	385	400	370	385	355	370	338	355	■
Rear flat busbars 630 A	673	630	652	607	630	583	607	558	583	532	558	■
<b>Linery BS</b>												
Multi-stage busbars 160 A	171	160	166	154	160	148	154	142	148	135	142	■
Multi-stage busbars 250 A	267	250	259	241	250	231	241	222	231	211	222	■
Multi-stage busbars block 400A	428	400	414	385	400	370	385	355	370	338	355	■
Multi-stage busbars block 630 A	673	630	652	607	630	583	607	558	583	532	558	■
<b>Linery BS</b>												
Multi-stage distribution block 160 A	171	160	166	154	160	148	154	142	148	135	142	■
Multi-stage distribution block 250 A	267	250	259	241	250	231	241	222	231	211	222	■
Multi-stage distribution block 400A	428	400	414	385	400	370	385	355	370	338	355	■
Multi-stage distribution block 630 A	673	630	652	607	630	583	607	558	583	532	558	■
<b>Linery DX</b>												
Quick distribution block Linery DX 4P 125A	134	125	129	120	125	116	120	111	116	106	111	■
Quick distribution block Linery DX 4P 160A	171	160	166	154	160	148	154	142	148	135	142	■
Quick distribution block Linery DX 1P 1P 160A	171	160	166	154	160	148	154	142	148	135	142	■
<b>Linery DP</b>												
Quick distribution block Linery DP 3-4P 250A	267	250	259	241	250	231	241	222	231	211	222	■
<b>Linery FM</b>												
Quick device feeders Linery FM 4P 63A	67	63	65	61	63	58	61	56	58	53	56	■
Quick device feeders Linery FM 4P 80A	86	80	83	77	80	74	77	71	74	68	71	■
Quick device feeders Linery FM 4P 160A	171	160	166	154	160	148	154	142	148	135	142	■
Quick device feeders Linery FM 2P 200A	214	200	207	193	200	185	193	177	185	169	177	■
Quick device feeders Linery FM 3P 200A	214	200	207	193	200	185	193	177	185	169	177	■
Quick device feeders Linery FM 4P 200A	214	200	207	193	200	185	193	177	185	169	177	■
Quick device feeders Linery FM 4P 200A (36 modules)	214	200	207	193	200	185	193	177	185	169	177	■

■ Check the concordance between Linery derating value and upstream protection device derating value.



Prisma G IP30/IP4X  
Prisma G IP55  
enclosures

## Contents

## Prisma G IP30, IP4X

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## Prisma G IP55

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## Presentation

# For safe and upgradeable electrical switchboards



## > 100 % reliable and in compliance with existing standards

All the components (switchgear, splitter blocks, prefabricated connections, etc.) have been designed to work together. All switchboard configurations have been tested.

## > Optimised, upgradeable installation

With Prisma G, you can build the right switchboard for your customer, sized precisely to fit costs and needs.

Thanks to the organisation around functional units, the installation evolves simply while preserving its original performance.

## > Ease of setup

The complete accessibility of all mounting and connection points facilitates assembly and cabling in the workshop. The functional units are clearly identified: operations are intuitive and reliable, and connection and checking are performed naturally.



- > Safety of people and property
- > Continuity of service
- > Optimisation and upgradeability
- > Ergonomics and complete accessibility
- > Controlled costs (installation, maintenance) and delivery times
- > Seismic characteristics: 2,5G without accessory

E

Presentation

Up to 630 A

Metallic indoor enclosures to compose.  
Commercial buildings: hotels, offices, shops, etc.  
Industry: technical room, etc.

**Enclosure delivered flat in kit form:**  
**total accessibility**  
**Designed for electrical continuity**

- 630 A
- IP30/IP4X
- IK07/08/10
- Seismic characteristics: 2,5G



**Description**

Steel sheet metal with electrophoresis treatment + hot-polymerised polyester epoxy powder.

Enclosure:

- width: 595 mm, 850 and 305 mm
- height: 330 to 1980 mm
- depth: 205 mm without door / 259 mm with door (including the handle : 13.5 mm)
- properties of metal enclosures > [page G-15](#).

**Main characteristics**

**Prisma G IP30 - IP4X enclosures**

Rated operational current	$I_n = 630 \text{ A}$ - $I_{sc} = 50 \text{ kA}$ , $I_{cw} = 25 \text{ kA rms} / 1 \text{ s}$ , $I_{pk} = 53 \text{ kA}$
Colour	White colour RAL 9001
Standards conformity	EN 62208, IEC 61439-2
Degree of protection	IP30 without door, IP40 with door IP41 with canopy + door, IP43 with canopy + door + gasket
Degree of protection against mechanical impacts	IK07 without door IK08 with door (transparent) IK10 with plain door
Seismic characteristics	2,5G without accessory (IEC 60068-2-57)
Isolation	Class 1
Doors	<ul style="list-style-type: none"> <li>■ Plain or transparent, opening to right or left, 130°</li> <li>■ Earthed by design</li> <li>■ Supplied with a handle and keylock (key 405)</li> <li>■ Distance behind door = 58 mm (possibility of push-buttons, lamps installation).</li> <li>■ 2 closing points on 15- to 24-module doors</li> <li>■ 3 closing points on 27-, 30-, 33- and 36-module doors.</li> </ul>
Mounting	Surface mounting, floor-standing, flush mounting via a kit > <a href="#">page E-10</a>



Easy design with  
**Rapsody software**  
> [page B-23](#)

# Presentation

Up to 630 A

3 widths available:  
300/600/850

Lengthened rear upright to facilitate the fitting of accessories (cables tying) and installation of earth, neutral terminals, etc....

New removable gland plate for quick on-site connection of incoming cables.



Hooks for quick plate pre-mounting

Plates for connecting control, command and communication circuits



Ergonomic handle



Trunking support plate, fixed at the same time as the modular rail



New pillar with natural positioning



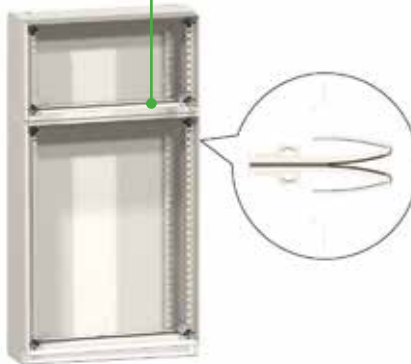
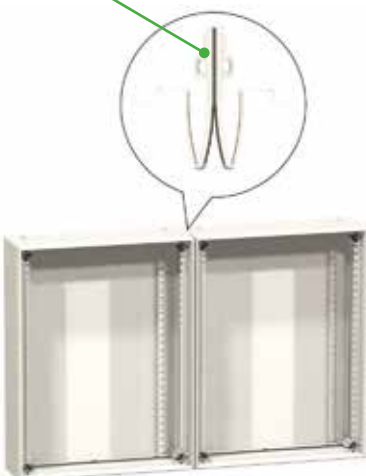
Combination: old and new versions fully compatible

without door: IP30  
with door: IP40  
plain door: IK10  
transparent door: IK08

Assembly of 2 enclosures facilitated by creating extension enclosures, including all necessary assembly parts

Vertical combination of 2 enclosures: simplified by creating a dedicated horizontal combination strip

15M to 24M doors with 2 closing points



# Wall-mounted and floor-standing enclosures

Up to 630 A

## IP30, 630 A wall-mounted and floor-standing enclosures

Reversible doors (opening 130° to left or right), supplied equipped with a handle and keylock (key 405).

Equipped with a door the IP30 enclosure reaches IP4X.

- To create switchboard combinations (horizontal combination of enclosures of the same height), use a basic enclosure plus enclosure extensions, or W300 ducts.
- Enclosure extensions are supplied with a combination kit.
- In case of floor-standing enclosure combination, cables can be run on the sides of the plinth (diameter ≤ 140 mm).

Wall-mounted enclosures W600		Extensions W600		Doors W600		Ducts W300	Doors W300	
Nb. of vertical modules of 50 mm	Height in mm	Enclosure	Rear + top and bottom plates + combination upright	Plain door	Transparent door	Rear + top and bottom plates + combination upright	Plain door	Transparent door
6	330	08102	-	08122	08132	08172	08182	-
9	480	08103	08113	08123	08133	08173	08183	-
12	630	08104	08114	08124	08134	08174	08184	-
15	780	08105	08115	08125	08135	08175	08185	-
18	930	08106	08116	08126	08136	08176	08186	-
21	1080	08107	08117	08127	08137	08177	08187	08197
24	1230	08108	08118	08128	08138	08178	08188	08198
27	1380	08109	08119	08222	08232	08179	08282	08292

Floor-standing enclosures W600		Extensions W600		Doors W600		Ducts W300	Doors W300	
Nb. of vertical modules of 50 mm	Height in mm	Basic enclosure	Rear + top plates + combination upright + plinth	Plain door	Transparent door	Rear + top plates + combination upright + plinth	Plain door	Transparent door
27	1530	08202	08212	08222	08232	08272	08282	08292
30	1680	08203	08213	08223	08233	08273	08283	08293
33	1830	08204	08214	08224	08234	08274	08284	08294
36	1980	08205	08215	08225	08235	08275	08285	08295

Floor-standing enclosures W850		Doors W850		Ducts W300	Doors W300	
Nb. of vertical modules of 50 mm	Height in mm	Basic enclosure	Plain door	Rear + top plate + combination upright + plinth	Plain door	Transparent door
27	1530	08242 (1)	08252 (1)	08272	08282	08292
30	1680	08243 (1)	08253 (1)	08273	08283	08293
33	1830	08244	08254	08274	08284	08294
36	1980	08245	08255	08275	08285	08295

(1) Beginning of 2018.  
 Switchgear on the door > page E-10  
 Spare parts > page E-13  
 Partitionning > page C-41



# Wall-mounted and floor-standing enclosures

## Accessories

Up to 630 A

### Accessories to increase the IP value

Accessories to increase the IP value from IP40 to IP41							Gasket for the door to increase the IP value from IP41 to IP43	
Used with	1 enclosure W = 600	1 enclosure + 1 duct W600 + 300 (1)	2 enclosures W600 + 600	1 enclosure + 2 ducts W600 + 300 + 300 (2)	2 enclosures + 1 duct W600 + 600 + 300(1)	1 floor-standing enclosure W = 850	1 floor-standing enclosure + 1 duct W850 + 300 (1)	Enclosures or duct from 6 to 33 modules
Catalogue numbers	<b>08830</b>	<b>08832</b>	<b>08831</b>	<b>08827</b>	<b>08833</b>	<b>08836</b>	<b>08837</b>	<b>08841 (3)</b>
Total length	600	900	1200	1200	1500	850	1150	5300
Designation	The addition of a canopy over a wall-mounted or floor-standing enclosure equipped with a door ensures compliance with the degree of protection IP41. When the switchboard is equipped with a canopy, a gasket for the doors ensures compliance with the degree of protection IP43.							

Metal gland plates for plinth			
Used with	Between the plinth and the bottom of a floor-standing enclosure or duct, for ensuring IP20		For 08244
	Floor-standing enclosure W600		Duct W300
Catalogue numbers	<b>08887</b>		<b>08888</b>
			<b>08889 (4)</b>

Wall-mounted enclosures W300						Floor-standing enclosures W300					
Nb. of vertical modules of 50 mm	Height in mm	Rear + top plate + plinth	Side panels	Plain door	Transparent door	Nb. of vertical modules of 50 mm	Height in mm	Rear + top plate + plinth	Side panels	Plain door	Transparent door
6	330	<b>08172</b>	2 x <b>01040</b>	<b>08182</b>	-	-	-	-	-	-	-
9	480	<b>08173</b>	2 x <b>01041</b>	<b>08183</b>	-	-	-	-	-	-	-
12	630	<b>08174</b>	2 x <b>01042</b>	<b>08184</b>	-	-	-	-	-	-	-
15	780	<b>08175</b>	2 x <b>01043</b>	<b>08185</b>	-	-	-	-	-	-	-
18	930	<b>08176</b>	2 x <b>01044</b>	<b>08186</b>	-	-	-	-	-	-	-
21	1080	<b>08177</b>	2 x <b>01045</b>	<b>08187</b>	<b>08197</b>	-	-	-	-	-	-
24	1230	<b>08178</b>	2 x <b>01046</b>	<b>08188</b>	<b>08198</b>	-	-	-	-	-	-
27	1380	<b>08179</b>	2 x <b>01035</b>	<b>08282</b>	<b>08292</b>	27	1530	<b>08272</b>	2 x <b>01035</b>	<b>08282</b>	<b>08292</b>
-	-	-	-	-	-	30	1680	<b>08273</b>	2 x <b>01034</b>	<b>08283</b>	<b>08293</b>
-	-	-	-	-	-	33	1830	<b>08274</b>	2 x <b>01033</b>	<b>08284</b>	<b>08294</b>
-	-	-	-	-	-	36	1980	<b>08275</b>	2 x <b>01047</b>	<b>08285</b>	<b>08295</b>

Spare parts > page E-13

Dimensions > page E-16

(1) Whatever the duct position.

(2) Ducts on the sides.

(3) x2 for width 850 mm.

(4) Not compatible with W850 width and 36-module height.



# Wall-mounted and floor-standing enclosures

## Combination kits

Up to 630 A

### Combinations

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.

A combination kit is delivered with each duct and each enclosure extension.

It is sometime necessary to use a combination kit (catalogue number 08816) in addition to those already delivered.

Combination kits	Horizontal					
Possible combinations						
<b>For enclosure W600/W300</b>	<b>1 wall-mounted enclos. + 1 duct</b>	<b>1 wall-mounted enclos. + 2 ducts</b>	<b>1 wall-mounted enclos. + 1 enclos. extension</b>	<b>1 wall-mounted enclos. + 1 duct + 1 enclos. extension</b>	<b>1 wall-mounted enclos. + 2 ducts + 1 enclos. extension</b>	<b>1 wall-mounted enclos. + 3 ducts + 1 enclos. extension</b>
Lifting/reinforcement cross-members width	900	1200	1200	1500	1800	2100
Set of two lifting/reinforcement cross-members	<b>08812</b>	<b>08811</b>	<b>08811</b>	<b>08813</b>	<b>08814</b>	<b>08826</b>
<b>For floor-standing enclosure W850/W300</b>	<b>1 fl. standing enclos. + 1 duct</b>	<b>1 fl. standing enclos. + 2 ducts</b>				
Lifting/reinforcement cross-members width	1150	must be made	-	-	-	-
Set of two lifting/reinforcement cross-members or vertical uprights	<b>08809</b>	-	-	-	-	-

Combination kits	Vertical	Multiple						
Possible combinations								
<b>For enclosure W600</b>	<b>2 wall-mounted enclos.</b>	<b>2 enclos. + 2 ducts</b>	<b>2 enclos. + 2 enclos. extension</b>	<b>2 enclos. + 2 enclos. extension + 2 ducts</b>	<b>2 enclos. + 2 enclos. extension + 4 ducts</b>	<b>2 enclos. + 2 enclos. extension + 6 ducts</b>	<b>2 additional ducts</b>	<b>2 additional enclosures</b>
Lifting/reinforcement cross-members width	-	900	1200	1500	1800	2100	-	-
Set of two lifting/reinforcement cross-members	-	<b>08812</b>	<b>08811</b>	<b>08813</b>	<b>08814</b>	<b>08826</b>	must be made	must be made
Set of two vertical uprights (1)	-	<b>08817</b>	<b>08817</b>	<b>08817</b>	<b>08817</b>	<b>08817</b>	<b>08817</b>	<b>08817</b>
+ combination kit (2)	<b>08816</b>	<b>08816</b>	<b>08816</b>	<b>08816</b>	<b>08816</b>	<b>08816</b>	<b>08816</b>	<b>08816</b>
+ multiple combination kit	-	<b>08818</b>	<b>08818</b>	2 x <b>08818</b>	3 x <b>08818</b>	4 x <b>08818</b>	+ <b>08818</b>	+ <b>08818</b>
+ 2 horizontal combination strip W=600	<b>08882</b>	<b>08882</b>	2 x <b>08882</b>	2 x <b>08882</b>	2 x <b>08882</b>	2 x <b>08882</b>	-	<b>08882</b>
+ 2 horizontal combination strip W=300	-	<b>08885</b>	-	<b>08885</b>	2 x <b>08885</b>	3 x <b>08885</b>	+ <b>08885</b>	-

(1) For more than 33 combined modules, these vertical uprights (1676 mm) are mandatory.

(2) Floor standing enclosure combination kit (08815) > page E-13

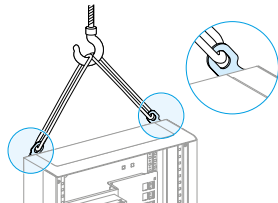

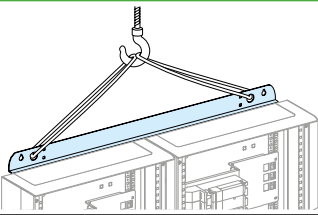
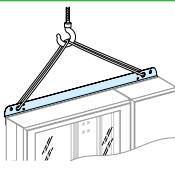






# Wall-mounted and floor-standing enclosures

## Lifting accessories - Installation

Up to 630 A

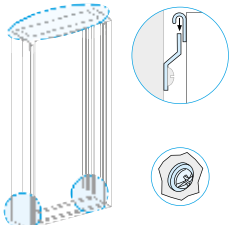
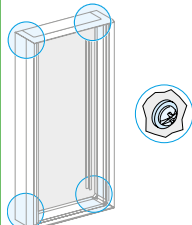
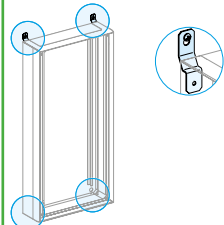
### Lifting accessories

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).

2 lifting rings for single wall-mounted or floor standing enclosures							
							
Catalogue numbers	08801						
Characteristics	 Set of two lifting rings						
2 Lifting/reinforcement cross-members for combined enclosures W600 + W300				2 Lifting/reinforcement cross-members for combination cross-members for combination wall-mounted enclosure W850 + duct W300			
							
Catalogue numbers	08812	08811	08811	08813	08814	08826	08809
Characteristics							
	Have 2 types of holes: for lifting and for mounting on a wall						

### Installation possibilities

Switchboards can be mounted on a wall in three manners: with the hook-on rail system, via the inside of the enclosure or using external wall-mounted brackets. Combined enclosures can be mounted using the lifting/reinforcement cross-members set of two lifting/reinforcement cross-members.

	Hook-on rail system	Mounting via the inside	Mounting using the external wall-mounted brackets
			
Catalogue numbers	Delivered with the enclosure	-	08804
Characteristics	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 hook-on rail system. End the fixation with 2x 8mm diameter screws, at the bottom of 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).	4 external wall-mounted brackets.

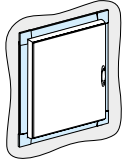


# Wall-mounted and floor-standing enclosures

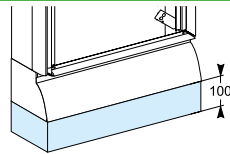
## Accessories

Up to 630 A

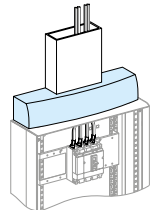
### Flush-mounting kit

For wall-mounted enclosure		
		
Catalogue numbers	<b>08819</b>	<b>08820</b>
Characteristics	6 to 18 modules PVC frame	21 to 27 modules PVC frame

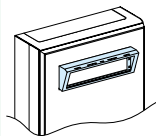
### Plinth raiser

100 mm for floor-standing enclosure		
		
Catalogue numbers	<b>08805</b>	<b>08806</b>
Characteristics	For basic floor-standing enclosure or extension. W = 600 mm	For basic floor-standing enclosure or extension. W = 850 mm
		<b>08807</b>
		For a duct. W = 300 mm

### Trunking spreader

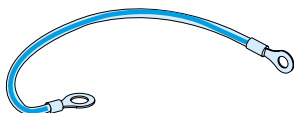
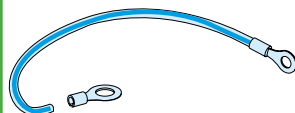
Trunking spreader	
	
Catalogue number	<b>08824</b>
Characteristics	For a professional-looking connection between the trunking and the enclosure. Can be installed at the top or bottom. The spreader is marked for cut-outs for standard trunking sizes. The maximum capacity is two 250 x 80 mm trunking sections.

### Mounting of devices on doors

Type	Plain door with cut-out W600, W850
	
Catalogue numbers	Plain door + <b>03928</b>
Characteristics	Inclined visor by 30 °. Allows mounting of measurement, inspection, indication 72 x 72, 96 x 96, Ø 16 or Ø 22 mm, 45 x 45 devices. <i>See page C-39</i>

### Earthing braid

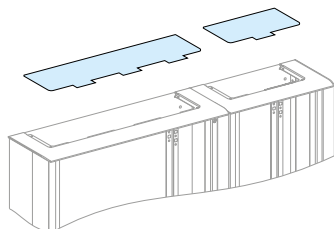
The earthing braid is used to earth a door or partial door with devices.

	Earthing braid, 6 mm <sup>2</sup>	Earthing wire, 6 mm <sup>2</sup>
		
Catalogue numbers	<b>08910</b>	<b>08911</b>
Characteristics	Equipped with a 4 mm diameter lug at one end and a 6 mm diameter lug on the other. L = 200 mm	Equipped with a 5 mm diameter lug at one end and a 6 mm diameter lug on the other. L = 200 mm

# Wall-mounted and floor-standing enclosures

## Gland plates

Up to 630 A



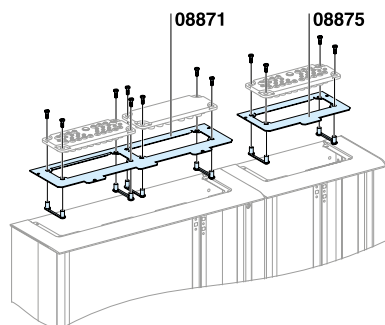
### Plain metal gland plates

Enclosures (wall-mounted, floor-standing, ducts) are supplied with a plastic gland plate installed on the top or bottom for wall-mounted enclosures and the top for floor-standing enclosures. For some connections needs, the existing plastic gland plate can be replaced by this metal gland plate.

Plain metal gland plates		
<b>Used with</b>	<b>Wall-mounted or floor-standing enclos. W600 / 850 mm</b>	<b>Duct W300</b>
<b>Catalogue numbers</b>	<b>08870</b>	<b>08874</b>

### Interface metal plates with cut-outs

The enclosures (wall mounted and floor standing enclosures and ducts) are supplied with a plastic gland plate fitted on the top or bottom plate. This plastic 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).



### Metal interface plates with cut-outs

Metal interface plates with cut-outs		
<b>Used with</b>	<b>Wall-mounted or floor-standing enclos. W600 / 850 mm</b>	<b>Duct W300</b>
<b>Catalogue numbers</b>	<b>08871</b>	<b>08875</b>

### Gland plates : plain, with knockouts or membrane-type

Mounting on the interface plates ref 08871 or 08875.

Gland plates	plain	membrane-type		
<b>Catalogue numbers</b>	<b>08881</b>	<b>08872</b>	<b>08896</b>	<b>08897</b>
Ø 3 mm	-	-	8	-
Ø 3 to 7 mm	-	-	4	-
Ø 5 mm	-	-	4	-
Ø 5 to 7 mm	-	4	-	-
Ø 7 to 12 mm	-	-	10	-
Ø 7 to 10 mm	-	-	10	-
Ø 7 to 14 mm	-	4	4	-
Ø 8 to 14 mm	-	4	-	-
Ø 10 to 14 mm	-	12	-	-
Ø 7 to 18 mm	-	-	2	-
Ø 14 to 20 mm	-	4	-	-
Ø 17 to 30 mm	-	-	1	-
Ø 20 to 26 mm	-	1	-	-
Ø 28 to 60 mm	-	-	-	2
<b>Total number of entries</b>	-	<b>29</b>	<b>43</b>	<b>2</b>

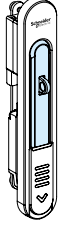
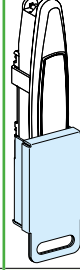


# Wall-mounted and floor-standing enclosures

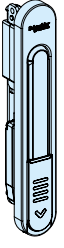

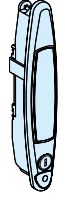





















## Door accessories

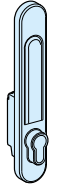
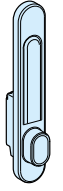
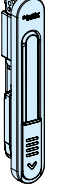
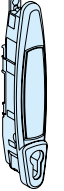
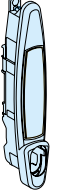

Up to 630 A

### Door handles and padlocking

	Padlocking	Padlocking
		
Catalogue numbers	<b>07938</b>	<b>08938</b>
Characteristics	For new rotary handle	For existing handle

### Barrel locks, inserts

Rotary handle barrel locks and inserts (1)			Barrel locks and inserts for handle (2)		
	Characteristics	Catalogue numbers		Characteristics	Catalogue numbers
	 1 key no. 405	<b>07940</b>		 1 key no. 405	<b>08940</b>
	 2 keys no. 455	<b>07941</b>		 2 keys no. 455	<b>08941</b>
	 2 keys no. 1242E	<b>07942</b>		 2 keys no. 1242E	<b>08942</b>
	 2 keys no. 3113A	<b>07943</b>		 2 keys no. 3113A	<b>08943</b>
	 2 keys no. 2433A	<b>07944</b>		 2 keys no. 2433A	<b>08944</b>
 2 keys no. 2432E	<b>07956</b>	 2 keys no. 2432E	<b>08956</b>		
 DIN double bar insert	<b>07945 (3)</b>		 DIN double bar insert	<b>08945</b>	
 Screwdriver slot insert	<b>07946 (3)</b>		 Screwdriver slot insert	<b>08946</b>	
 Male triangle insert	6.5 mm <b>07947 (3)</b>		 Male triangle insert	6.5 mm <b>08947</b>	
	7 mm <b>07948 (3)</b>			7 mm <b>08948</b>	
	8 mm <b>07949 (3)</b>			8 mm <b>08949</b>	
	9 mm <b>07950 (3)</b>			9 mm <b>08950</b>	
 Male square insert	6 mm <b>07951 (3)</b>		 Male square insert	6 mm <b>08951</b>	
	7 mm <b>07952 (3)</b>			7 mm <b>08952</b>	
	8 mm <b>07953 (3)</b>			8 mm <b>08953</b>	
 Female square insert	6 mm <b>07955</b>		 Female square insert	6 mm <b>08955</b>	

Rotary handle			Handle		
EURO handle - RAL 9001	ASSA/ABLOY handle - RAL 9001	RAL 7016 handle	EURO handle - RAL 9001	ASSA/ABLOY handle - RAL 9001	RAL 7016 handle
					
Supplied without barrel		Supplied with barrel lock (key no. 405) RAL 7016	Supplied without barrel		Supplied with barrel lock (key no. 405) RAL 7016
<b>0793</b>	<b>07933</b>	<b>07931</b>	<b>08932</b>	<b>08933</b>	<b>08931</b>

(1) Can be adapted to the new rotary handle on Prisma G IP30 enclosures.  
 (2) Can be adapted to handle ref. 08931 and existing handles on Prisma G IP30 enclosures.  
 (3) The moving part of the handle shall be either removed or left in "open" position.

# Wall-mounted and floor-standing enclosures

## Spare parts

Up to 630 A

### Accessories

	<p><b>Duct accessories</b> <span style="float: right;">01036</span></p> <ul style="list-style-type: none"> <li>1 4 pillars</li> <li>2 1 earthing braid plug</li> <li>3 4 washers</li> <li>4 2 combination uprights</li> <li>5 2 short combination crossbars</li> <li>6 2 base blanking plugs</li> <li>7 2 association fasteners</li> <li>8 4 spacers</li> <li>9 2 screws with flange</li> <li>10 2 screws</li> <li>11 1 self-threading screw</li> <li>12 2 A-angle parts</li> <li>13 2 B-angle parts</li> <li>14 6 nuts HX grooved</li> </ul>
--	---

	<p><b>Wall mounted and floor standing enclosures accessories</b> <span style="float: right;">01018</span></p> <ul style="list-style-type: none"> <li>1 4 pillars</li> <li>2 2 A-angle parts</li> <li>3 2 B-angle parts</li> <li>4 8 self threading screws</li> <li>5 1 earthing braid plug</li> <li>6 4 base blanking plugs</li> <li>7 4 spacers</li> <li>8 4 nuts HX grooved</li> </ul>
--	--

	<p><b>G IP30 floor standing enclosure combination kit</b> <span style="float: right;">08815</span></p> <ul style="list-style-type: none"> <li>1 1 combination upright</li> <li>2 1 short combination crossbar + 2 screws + 2 nuts</li> <li>3 2 association fasteners</li> <li>4 7 plastic protectors</li> <li>5 2 self-threading screws</li> <li>6 3 self-threading screws</li> <li>7 1 screw with flange</li> <li>8 1 screw</li> <li>9 3 nuts</li> <li>10 3 nuts</li> <li>11 2 washers</li> </ul>
--	--

### Door accessories

	<p><b>Wall mounted and floor standing enclosures closing accessories</b> <span style="float: right;">01032</span></p> <ul style="list-style-type: none"> <li>1 1 earthing braid plug</li> <li>2 2 door stops</li> <li>3 3 self threading screws</li> <li>4 3 fixed hinges</li> <li>5 3 hinge pins</li> <li>6 3 stop bolts</li> <li>7 4 self threading screws</li> </ul>
--	---

	<p><b>IP30 Pack, wall mounted and floor standing enclosure handle</b> <span style="float: right;">01220</span></p> <ul style="list-style-type: none"> <li>1 1 handle</li> <li>2 1 key no.405</li> <li>3 1 handle staple</li> <li>4 1 Pack kit pin</li> <li>5 1 assembled rod angle</li> <li>6 1 peg and angle assembly for G cubicle</li> <li>7 1 pozidriv screw for handle staple</li> <li>8 1 self threading screw for Pack enclosure</li> <li>9 1 pozidriv screw for wall-mounted and floor standingbg enclosures</li> </ul>
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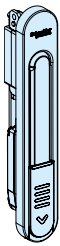


# Wall-mounted and floor-standing enclosures

## Spare parts

Up to 630 A

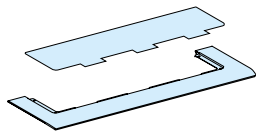
### Rotary-handle



Ral 9001

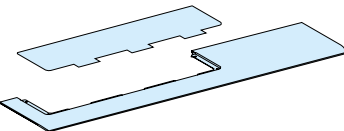
01218

### Metal plates with cut-outs + plastic gland plates



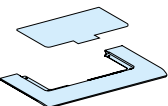
W600

08880



W850

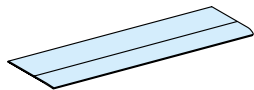
08883



W300

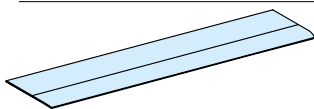
08884

### Metal top/bottom plate (IP30)



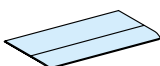
W600

01017



W850

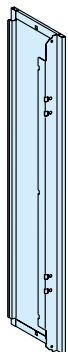
01070



W300

01039

### Side (IP30)



6 modules	01040
9 modules	01041
12 modules	01042
15 modules	01043
18 modules	01044
21 modules	01045
24 modules	01046
27 modules	01035
30 modules	01034
33 modules	01033
36 modules	01047

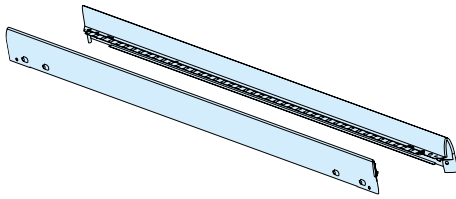


# Wall-mounted and floor-standing enclosures

## Spare parts

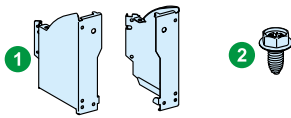
Up to 630 A

### Central uprights (IP30)



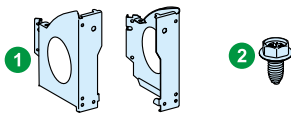
Association profile 9 modules	01063
Association profile 12 modules	01064
Association profile 15 modules	01065
Association profile 18 modules	01066
Association profile 21 modules	01067
Association profile 24 modules	01068
Association profile 27 modules	01030
Association profile 30 modules	01029
Association profile 33 modules	01028
Association profile 36 modules	01069

### Plinth



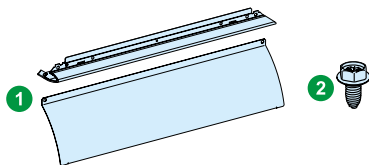
#### Accessories for plinth 01051

- 1 Left drilled base bracket + right drilled base bracket
- 2 4 self-threading screws



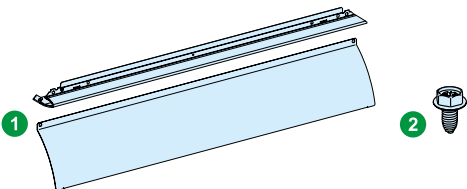
#### Floor standing enclosures 01050

- 1 Left base bracket + right base bracket
- 2 4 self-threading screws



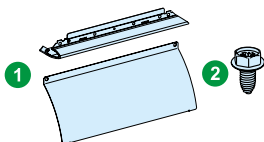
#### Plinth front, 600 mm 01052

- 1 Base cover + plinth
- 2 2 self-threading screws



#### Plinth front, 850 mm 01054

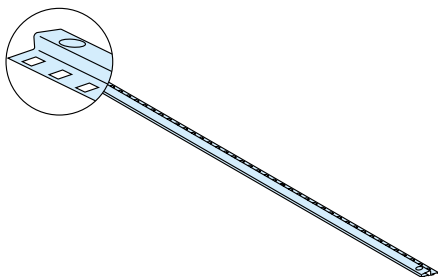
- 1 Base cover + plinth
- 2 2 self-threading screws



#### Plinth front, 300 mm 01053

- 1 Base cover + plinth
- 2 2 self-threading screws

### Front cover support uprights (IP30)



6 modules	01250
9 modules	01251
12 modules	01252
15 modules	01253
18 modules	01254
21 modules	01255
24 modules	01256
27 modules	01257
30 modules	01258
33 modules	01259
36 modules	01261

E

# Wall-mounted and floor-standing enclosures

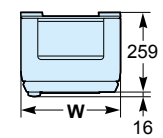
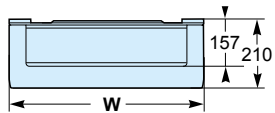
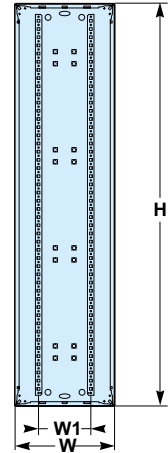
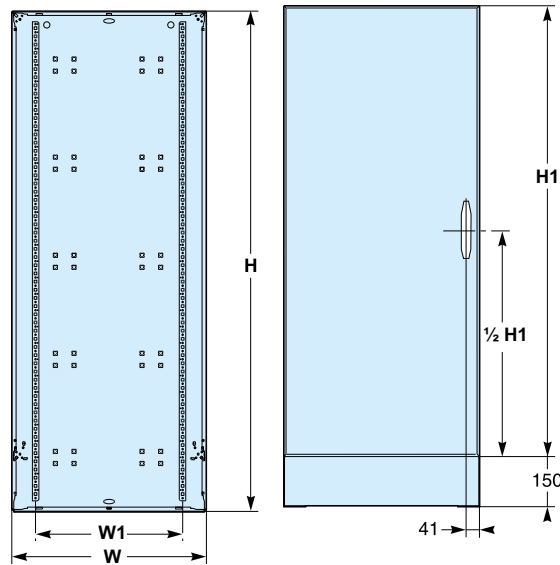
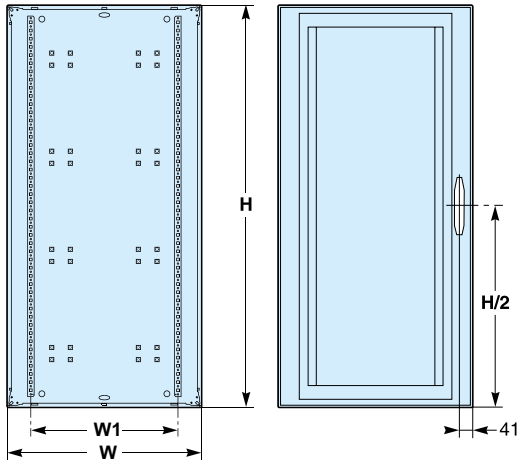
## Dimensions

Up to 630 A

### Enclosures W600 – 6 to 27 mod.

### Enclosures W600 – 27 to 36 mod.

### Ducts W300



	Nb. of vertical modules	Height		Width						Depth		
		H	H1	W600		W850		W300		W/O door	with door	
				W	W1	W	W1	W2	W			W1
Wall-mounted enclosures / duct	6	330	-	595	450	-	-	-	305	200	210	259
	9	480	-	595	450	-	-	-	305	200	210	259
	12	630	-	595	450	-	-	-	305	200	210	259
	15	780	-	595	450	-	-	-	305	200	210	259
	18	930	-	595	450	-	-	-	305	200	210	259
	21	1080	-	595	450	-	-	-	305	200	210	259
	24	1230	-	595	450	-	-	-	305	200	210	259
Floor-standing enclosures / duct	27	1380	-	595	450	-	-	-	305	200	210	259
	27	1530	1380	595	450	845	450	200	305	200	210	259
	30	1680	1530	595	450	845	450	200	305	200	210	259
	33	1830	1680	595	450	845	450	200	305	200	210	259
	36	1980	1830	595	450	845	450	200	305	200	210	259

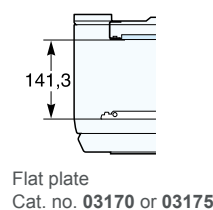
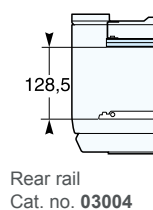
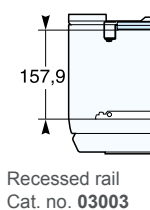
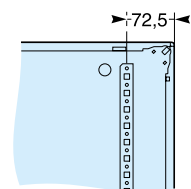
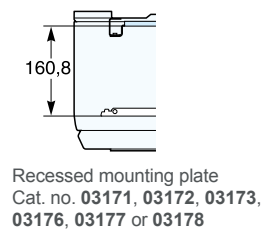
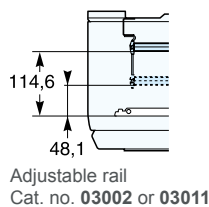
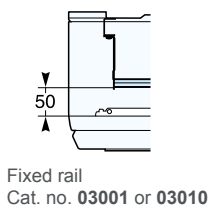
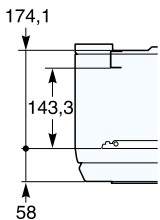
### Depth behind front plate

#### Functional uprights

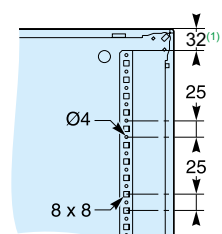
#### Modular rails

#### Slotted mounting plate

#### Cable running



#### Rear upright



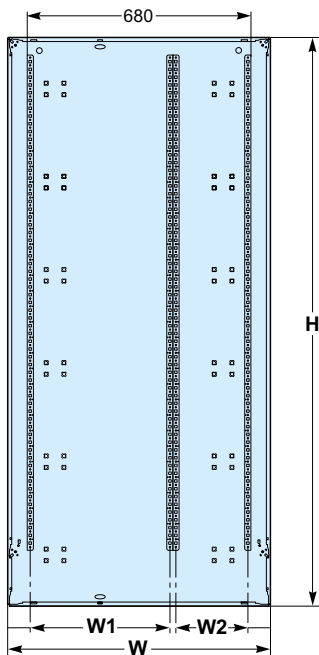
(1) 57 mm for height 36 modules

# Wall-mounted and floor-standing enclosures

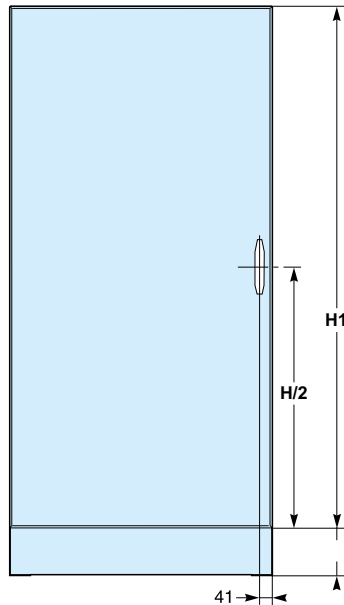
## Dimensions

Up to 630 A

### Enclosures W850

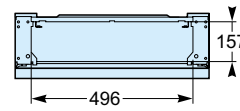


### Door

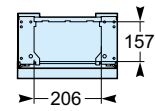


### Cable entry

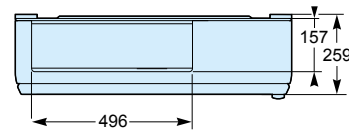
#### W600



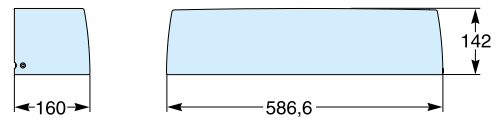
#### W300



#### W850

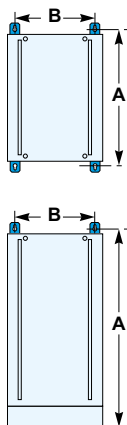


### Trunking spreader



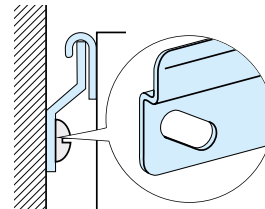
## Wall-mounted installation

### External brackets

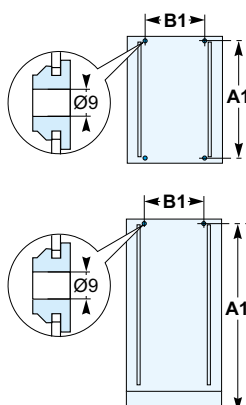


	Nb. of vertical modules	A	B		
			W600	W850	W300
Wall-mounted enclosures	6	430	545	795	255
	9	580	545	795	255
	12	730	545	795	255
	15	880	545	795	255
	18	1030	545	795	255
	21	1180	545	795	255
Floor-standing enclosures	24	1330	545	795	255
	27	1480	545	795	255
	30	1780	545	795	255
	33	1880	545	795	255
	36	2030	545	795	255

### Cyma system



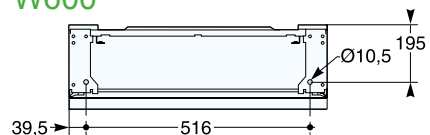
### Screws



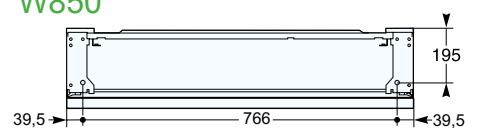
	Nb. of vertical modules	A1	B1		
			W600	W850	W300
Wall-mounted enclosures	6	270	381	631	91
	9	420	381	631	91
	12	570	381	631	91
	15	720	381	631	91
	18	870	381	631	91
	21	1020	381	631	91
Floor-standing enclosures	24	1170	381	631	91
	27	1320	381	631	91
	30	1500	381	631	91
	33	1650	381	631	91
	36	1800	381	631	91

## Enclosure plinth fixation

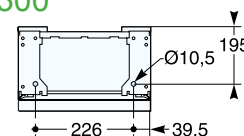
### W600



### W850



### W300





# Great capability for meeting the requirements of your installation



## > 100 % reliable and in compliance with existing standards

All the components (switchgear, splitter blocks, prefabricated connections, etc.) have been designed to work together. All switchboard configurations have been tested. Even the most demanding.

## > Optimised, upgradeable installation

Prisma G IP55 is the only switchboard in this category designed as a "kit". All configurations and combinations are possible, with full access. Thanks to the organisation around functional units, the installation evolves simply while preserving its original performance.

## > Ease of setup

The complete accessibility of all mounting and connection points facilitates assembly and cabling in the workshop. The functional units are clearly identified: operations are intuitive and reliable, and connection and checking are performed naturally.



E



- > Safety of people and property
- > Continuity of service
- > Robustness
- > Ergonomics and complete accessibility
- > Optimisation and upgradeability

# Presentation

Up to 630 A

Metallic indoor enclosures to compose Severe environments: industrial and agricultural buildings, basements, kitchens, etc.

**Enclosure delivered flat: total accessibility**  
**Designed for electrical continuity**

- 630 A
- IP55
- IK10
- Seismic characteristics: 2,5G



## Description

Steel sheet metal with electrophoresis treatment + hot-polymerised polyester epoxy powder.

Enclosure:

- width: 575 mm, with duct: 325 mm
- height: 450 to 1750 mm
- depth: 260 mm with door
- properties of metal enclosures > page G-15

## Main characteristics

IP55 enclosure	
Rated operational current	$I_n = 630 \text{ A} - I_{sc} = 50 \text{ kA}, I_{cw} = 25 \text{ kA rms} / 1 \text{ s}, I_{pk} = 53 \text{ kA}$
Colour	White colour RAL 9001
Standards conformity	EN 62208, IEC 61439-2
Degree of protection	IP55 with door
Degree of protection against mechanical impacts	IK10
Seismic characteristics	2,5G without accessories (IEC 60068-2-57)
Isolation	Class 1
Doors	<ul style="list-style-type: none"> <li>■ Plain or transparent, opening to right or left 180°</li> <li>■ Supplied with a handle and keylock (key 405)</li> </ul> Distance behind plain door = 78 mm, Distance behind transparent door = 73 mm.
Earthing	Earthing braid delivered with enclosure
Combination	> page E-23



Easy design with

**Rapsody software**

> page B-23

# Presentation


Up to 630 A

**Fingers safe for cabling**

- Painted sheet metal inside, protection for wiring installers' hands

**Accessories shared with Prisma G, IP30**

**Plates for connecting control circuits**




**Pre-hooked plates for quick positioning**

**Full accessibility**

- Removable side panels: easy wiring


**Trunking support plate, fixed at the same time as the modular rail**



**Plain or transparent door**


**Practical**

- Functionalized installation of push buttons, power sockets, etc.
- Installation of power sockets on the side




**Weatherproofing**

- Large choice of IP55 gland plates



**Ergonomics and safety**

- Easy panel handling thanks to the ergonomic gripper
- Legible "Open/closed" positions of front plate,
- Integrated front plate sealing function





**Multiple combinations**



# Weatherproof enclosures

Up to 630 A

## Wall mounted and floor standing enclosures

Enclosures are supplied with plain metal gland plates and external mounting brackets.

The doors are reversible, opening 180° to right or left, supplied equipped with a handle with 405 key lock.

The wall mounted and floor standing enclosure extensions and ducts are supplied without combination kits, see table opposite.

Type		Basic enclosure W600			Extension enclosures W600				
Nb. of vertical modules of 50 mm	Height in mm	Basic enclosure	Frame + plain door	Frame + transparent door	Rear	Top and bottom plates for side-by-side combination	Side panels for vertical combination	Frame + plain door	Frame + transparent door
7	450	08302	08322	08332	08312	08371	08352	08322	08332
11	650	08303	08323	08333	08313	08371	08353	08323	08333
15	850	08304	08324	08334	08314	08371	08354	08324	08334
19	1050	08305	08325	08335	08315	08371	08355	08325	08335
23	1250	08306	08326	08336	08316	08371	08356	08326	08336
27	1450	08307	08327	08337	08317	08371	08357	08327	08337
33	1750	08309	08329	08339	08319	08371	08359	08329	08339

Type		Ducts W300		Wall-mounted enclosures W300			
Nb. of vertical modules of 50 mm	Height in mm	Rear + plain door	Top and bottom plates	Rear + plain door	Top and bottom plates	Side panels	Struts (set of 2)
7	450	08342	08372	08342	08372	08352	2 x 01025
11	650	08343	08372	08343	08372	08353	2 x 01025
15	850	08344	08372	08344	08372	08354	2 x 01025
19	1050	08345	08372	08345	08372	08355	2 x 01025
23	1250	08346	08372	08346	08372	08356	2 x 01025
27	1450	08347	08372	08347	08372	08357	2 x 01025
33	1750	08349	08372	08349	08372	08359	2 x 01025

W850 floor standing enclosure (plinth sold separately)				Duct W300		
Nb. of vertical modules of 50 mm	Height in mm	Floor standing enclosure	Plain door	Transparent door	Rear + plain door	Top and bottom plates
33	1750	08311	08330	08340 (1)	08349	08372

Spare parts > page E-29 ; Dimensions > page E-30

Plinth H = 150 mm	W600	W850 floor standing enclosure	Duct W300
Catalogue numbers	2 x 08392 + 08393	08802	08392 + 08394

(1) New ref, commercialised mid 2018.

Spare parts > page E-29

Dimensions > page E-30

Partitioning > page C-41



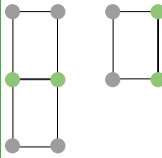
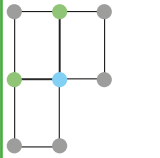
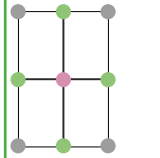
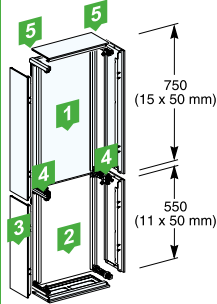
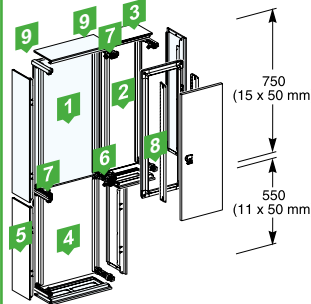
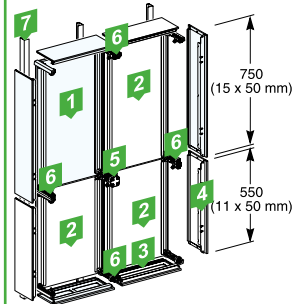
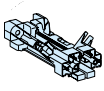
# Weatherproof enclosures

## Combination kits

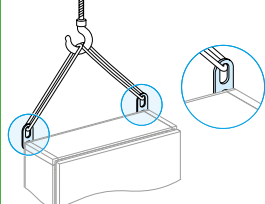
Up to 630 A

### Combination kits

	Components catalogue numbers				
	Single pillar ●	Horizontal/vertical combination kit ●	"L" combination kit ●	Square combination kit ●	Mounting upright
Catalogue numbers	<b>01025</b> (set of 2)	<b>08381</b> x 2	<b>08382</b> + <b>08381</b>	<b>08383</b>	<b>08391</b>
Characteristics	Supplied with basic enclosures	2 double pillars	2 L pillars + 2 double pillar + 1 single pillar	1 square pillar + 4 double pillar	L = 1950 mm

	Mounting example		
	Simple	In L	In square
			
			
Wall-mounted enclosures	<b>1</b> Basic enclosure Rear plate for enclosure extension <b>3</b> 1 set of two side panels	<b>1</b> 1 basic enclosure <b>2</b> 1 rear + door for duct <b>3</b> 1 set of two top and bottom plates for duct W300 or W600 <b>4</b> 1 rear plate for enclosure extension <b>5</b> 1 set of two side panels	<b>1</b> 1 basic enclosure <b>2</b> 3 rear plates for enclosure extensions <b>3</b> 1 set of two top and bottom plates for enclosure extensions W300 or W600 <b>4</b> 1 set of two side panels
Combination kits 	<b>4</b> 2 x 1 double pillar <b>08381</b>	<b>6</b> 1 L pillar <b>08382</b> <b>7</b> 2 x 1 double pillar <b>08381</b> <b>8</b> 1 standard pillar <b>01025</b>	<b>5</b> 1 square pillar <b>08383</b> <b>6</b> 4 x 1 double pillar <b>08381</b>
Mounting uprights	<b>5</b> 2 x 1 mounting upright <b>08391</b>	<b>9</b> 2 x 1 mounting upright <b>08391</b>	<b>7</b> 3 mounting uprights W = 1950 mm (to reinforce the switchboard) 3 x <b>08391</b>

### Lifting

	Lifting rings
	
Catalogue number	<b>08396</b>
Characteristics	Set of two, supplied with mounting hardware. The lifting rings are secured directly to the switchboard or to the mounting uprights.


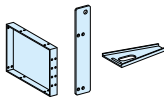
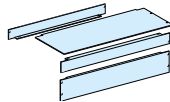
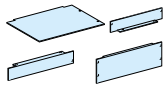
**Note:** for combinations of more than two enclosures, the switchboard must be reinforced using mounting uprights (08391).

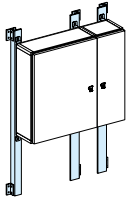
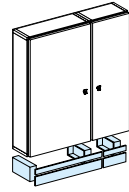
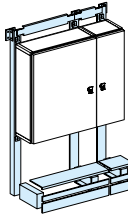
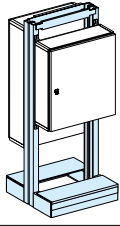
# Weatherproof enclosures

## Mounting accessories

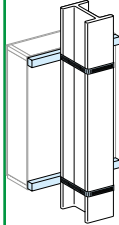
Up to 630 A

### Mounting accessories

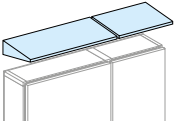
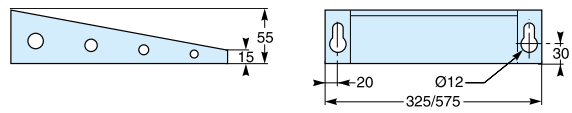
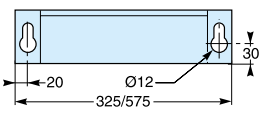
Upright	Plinth			
	Mounting uprights	Plinth gusset	Plinth cover panel (for enclosure)	Plinth cover panel (for duct)
Catalogue numbers	<b>08391</b>	<b>08392</b>	<b>08393</b>	<b>08394</b>
Characteristics	<ul style="list-style-type: none"> <li>■ W = 1950 mm</li> <li>■ Colour: RAL 7016</li> <li>■ Supplied with:                             <ul style="list-style-type: none"> <li>□ two adjustable fixing brackets,</li> <li>□ one joint for combination with a plinth or another upright.</li> </ul> </li> <li>Leave space behind the switchboard for cable running and to improve ventilation.</li> </ul> 	<ul style="list-style-type: none"> <li>■ H = 150 mm</li> <li>■ Colour: RAL 7016</li> </ul> 	<ul style="list-style-type: none"> <li>■ W = 600 mm</li> <li>■ Colour: RAL 7016</li> </ul> 	<ul style="list-style-type: none"> <li>■ W = 300 mm</li> <li>■ Colour: RAL 7016</li> </ul> 
Quantity to order	For one enclosure, order two uprights. For each enclosure extension or duct, order one additional upright.	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.		

Mounting example	Plinth			
	On uprights	On plinth	On wall structure	Free-standing structure
				
Catalogue numbers	3 x <b>08391</b>	3 x <b>08392 + 08393 + 08394</b>	3 x <b>08391 + 3 x 08392 + 08393 + 08394</b>	4 x <b>08391 + 4 x 08392 + 2 x 08393</b>
Designation	3 mounting uprights	3 gussets + 1 plinth cover panel for enclosure + 1 plinth cover panel for duct	3 uprights + 3 gussets + 1 plinth cover panel for enclosure + 1 plinth cover panel for duct	4 uprights + 4 gussets + 2 plinth cover panels for enclosure
Remarks	The uprights are used to mount on a wall one or more enclosures combined horizontally or vertically.	The plinth, installed in the factory or on-site, raises the switchboard to protect it and facilitate spreading of cables arriving from a trough. The wall-fixing brackets supplied with the plinth ensure that the switchboard cannot topple over.	The supplied external brackets prevent the switchboard from tilting.	Assembly of 2 wall structures connected back-to-back. The switchboard is free-standing. Fixed to the ground and can be moved very easily with lifting rings ref. 08396. It can house one or more enclosures.

### Mounting on a pole

2 reinforcement cross-members to support the enclosure	
	
Catalogue number	<b>08395</b>
Characteristics	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. Supplied with mounting hardware.

### Canopy

Using	For wall-mounted enclosures W600	For duct W300
		
Catalogue numbers	<b>08386</b>	<b>08387</b>
Characteristics	<ul style="list-style-type: none"> <li>■ Installed on the mounting uprights or directly on the wall, canopies improve switchboard protection against vertically falling water and objects.</li> <li>■ Colour: RAL 7016.</li> <li>■ Supplied with: the hardware required for mounting on the uprights, the components required for combination with another canopy.</li> </ul>	

Dimensions > page E-30 ; Partitioning > page C-41

# Weatherproof enclosures

## Grand plates

Up to 630 A

### Metal interface plate with cut-outs

Enclosures are supplied with plain metal gland plates installed on the top or bottom panel of the enclosures (2 plates) or 300 mm wide ducts (1 plate).

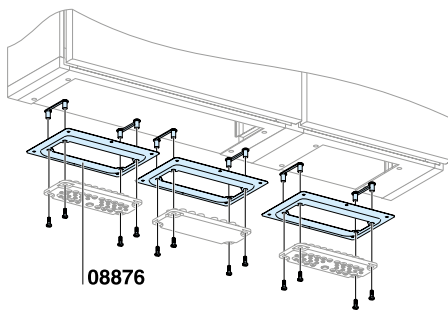
These plates can be replaced by metal plates with cut-outs 08876 for special cable entry systems made of an insulating material (plain, with knockouts or membrane-type).

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.

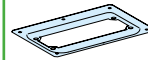
The gland plates are easy to install using the mounting kit (supplied with each gland plate) that positions and holds the nuts during installation.

This makes it possible to mount the gland plates using a single tool.

### Plain gland plates, plates with knockouts and membrane-type plates



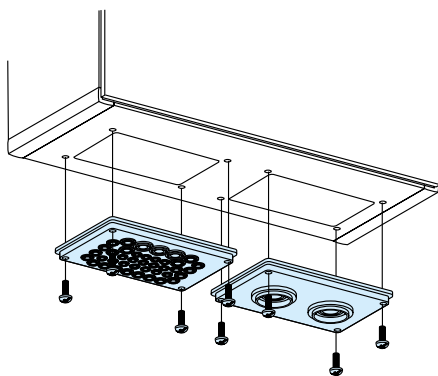
#### Metal interface plate with cut-outs



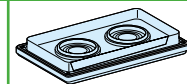
Catalogue numbers	<b>08876</b>
Characteristics	Fitting gland plates: plain and membrane-type.

#### Gland plates for metal interface

	plain	membrane-type		
Catalogue numbers	<b>08881</b>	<b>08872</b>	<b>08896</b>	<b>08897</b>
Ø 3 mm	-	-	8	-
Ø 3 to 7 mm	-	-	4	-
Ø 5 mm	-	-	4	-
Ø 5 to 7 mm	-	4	-	-
Ø 7 to 12 mm	-	-	10	-
Ø 7 to 10 mm	-	-	10	-
Ø 7 to 14 mm	-	4	4	-
Ø 8 to 14 mm	-	4	-	-
Ø 10 to 14 mm	-	12	-	-
Ø 7 to 18 mm	-	-	2	-
Ø 14 to 20 mm	-	4	-	-
Ø 17 to 30 mm	-	-	1	-
Ø 20 to 26 mm	-	1	-	-
Ø 28 to 60 mm	-	-	-	2
<b>Total number of entries</b>	-	<b>29</b>	<b>43</b>	<b>2</b>



#### Gland plates, direct mounting



Catalogue numbers	<b>08898</b>	<b>08899</b>
Ø 7 to 26 mm	39	-
Ø 33 to 72 mm	-	2
<b>Total number of entries</b>	<b>39</b>	<b>2</b>

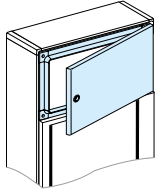
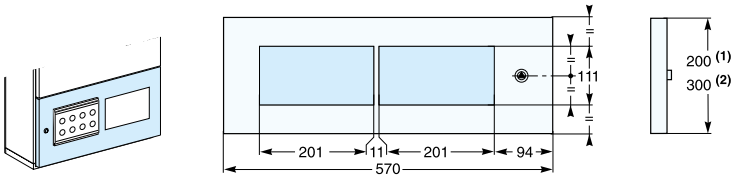
E

# Weatherproof enclosures

Partial doors and functional units for partial door

Up to 630 A



## Partial doors

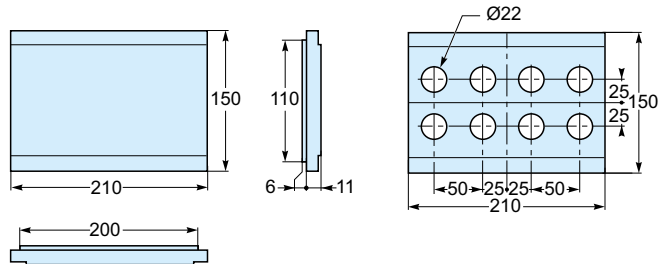
Type	Plain	With cut-outs
		
4 modules (H = 200 mm) for enclosure from 11 to 27 modules	<b>08374</b>	<b>08376</b>
Installation	<ul style="list-style-type: none"> <li>On a wall-mounted enclosure at least 11 modules high (H = 650 mm).</li> <li>The front must be completed with another door (plain or transparent).</li> <li>Each enclosure or extension can be equipped with only one partial door.</li> </ul>	
Caractéristiques	-	<ul style="list-style-type: none"> <li>Designed for two mounting plates with 22 mm diameter devices or Schneider Electric industrial sockets.</li> <li>They are supplied with an insulating plain mounting plate that can be used to:                             <ul style="list-style-type: none"> <li>blank off a reserve hole,</li> <li>install all types of devices (sockets, EPO devices, measurement devices).</li> </ul> </li> <li>The dimensions of the two holes are 201 mm x 111 mm.</li> </ul>
	<ul style="list-style-type: none"> <li>Hinges that open 170°</li> <li>Equipped with a 8 mm male triangle insert (key not supplied).</li> </ul>	

## Plastic plates for equipping openings on partial doors

They can be installed:

- horizontally on the partial doors with cut-outs
- horizontally or vertically at any point on a door or side panel.

Type	Plain	For 22 mm diameter devices
		
Catalogue numbers	<b>08861</b>	<b>08862</b>
Characteristics	<ul style="list-style-type: none"> <li>Can be used to:                             <ul style="list-style-type: none"> <li>blank off partial doors with cut-outs</li> <li>mount any type of device (EPO devices, measurement devices, sockets)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>For installation of eight 22 mm diameter devices (lights, switches, pushbuttons, etc.)</li> <li>Supplied with 4 blanking plug</li> </ul>



# Weatherproof enclosures

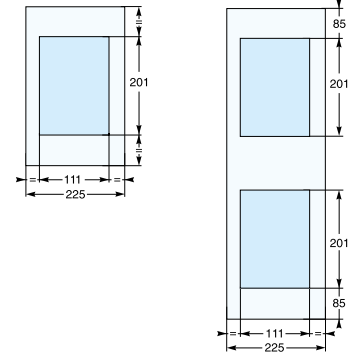
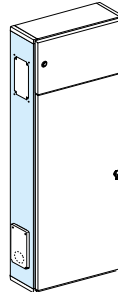
## Side panels

Up to 630 A

### Side panels with cut-outs

These panels are designed to replace the standard side panel. They can be mounted on the left or right-hand side.

#### Side panels with cut-out



Nb. of vertical modules of 50 mm	Height in mm	Nb. of 111 x 201 mm holes	Catalogue numbers
15	850	2	<b>08364</b>
19	1050	2	<b>08365</b>
23	1250	2	<b>08366</b>
27	1450	2	<b>08367</b>
33	1750	2	<b>08369</b>

The cut-outs are designed for the installation of Pratika PK industrial sockets up to 63 A either directly or on 111 x 201 mm adaptation plates of the Kaedra enclosure range.

Installation is direct for:

- 16/32 A interlocked LV sockets, IP44/IP65, IK08
- 16 A VLV sockets with 160 VA safety transformers, IP44/IP65, IK08.

### Plastic plate for equipping openings on partial door

Type	Plain
Catalogue numbers	<b>08861</b>
Characteristics	<ul style="list-style-type: none"> <li>■ Can be used to:                             <ul style="list-style-type: none"> <li><input type="checkbox"/> blank off</li> <li><input type="checkbox"/> mount any type of device (EPO devices, measurement devices, sockets)</li> </ul> </li> </ul>



# Weatherproof enclosures



## Door accessories

Up to 630 A

### Locks

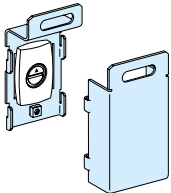
- The small plain and transparent doors (7 to 23 modules) are supplied with a small handle comprising a barrel lock no. 405.
- The large plain and transparent doors (27 to 33 modules) are supplied with a large handle comprising a barrel lock no. 405.
- The partial doors are supplied with an 8 mm male 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 for replacement

Handles			
			
Catalogue numbers	<b>08936</b>	<b>08935</b>	<b>08934</b>
Designation	Door latch with lock and 2 no. 405 keys	Handle (W = 155 mm) with lock and 2 no. 405 keys	EURO handle without a barrel lock (1)

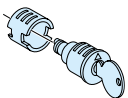








(1) Do not suit to barrels with an automatic return stroke of the key.

### Padlocking

Padlocking	
	
Catalogue number	<b>08939</b>
Designation	The kit can be installed on all IP55 doors, except those equipped with an EURO lock. Kit designed for three padlocks.









### Handle barrel locks and inserts

These components may equip handles after removing the standard barrel lock no. 405.

Handle barrel locks (1)													
													
Supplied with	2 keys no. 2433A	2 keys no. 455	2 keys no. 1242E	2 keys no. 3113A	Screwdriver slot insert	Double bar insert 3 mm	Male triangle insert 7 mm	8 mm (CNOMO)	9 mm	Male square insert 6 mm	7 mm	8 mm	Female square insert 6 mm
Catalogue numbers	<b>09933</b>	<b>09945</b>	<b>09942</b>	<b>09943</b>	<b>09931</b>	<b>09932</b>	<b>09937</b>	<b>09938</b>	<b>09939</b>	<b>09949</b>	<b>09947</b>	<b>09948</b>	<b>09946</b>

### Partial door inserts

These inserts simply replace the standard male triangle insert (8 mm).

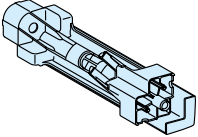

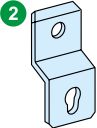








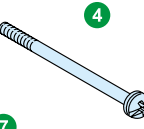
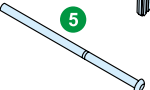










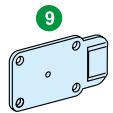

Door insert								
								
Type	Screwdriver slot insert	3 mm double bar insert	Male triangle insert 7 mm	8 mm (CNOMO)	9 mm	Male square insert 6 mm	8 mm	6 mm female square insert
Catalogue numbers	<b>09981</b>	<b>09982</b>	<b>09983</b>	<b>09984</b>	<b>09985</b>	<b>09986</b>	<b>09988</b>	<b>09989</b>

(1) Others A and E combinations are available from Ronis, please contact us.

# Weatherproof enclosures

## Spare-parts

Up to 630 A

Accessories (IP55)			
	<b>2 pillars</b>		<b>01025</b>
<b>Set of spare parts for wall-mounted enclosure</b> <span style="float: right;"><b>01247</b></span>			
      	<ul style="list-style-type: none"> <li><b>1</b> 24 screws + stubs contact</li> <li><b>2</b> 4 simple fixing brackets</li> <li><b>3</b> 4 screws pillar/seating</li> <li><b>4</b> 12 nylon washers</li> <li><b>5</b> 12 self threading screws</li> <li><b>6</b> 4 conical washers</li> <li><b>7</b> 4 screws</li> </ul>		
<b>Set of spare parts for door</b> <span style="float: right;"><b>01248</b></span>			
      	<ul style="list-style-type: none"> <li><b>1</b> 1 screw + stub washers</li> <li><b>2</b> 2 keys no.405</li> <li><b>3</b> 1 spring nut</li> <li><b>4</b> 4 screws frame/pillar</li> <li><b>5</b> 3 hinge pins</li> <li><b>6</b> 8 o-ring joints</li> <li><b>7</b> 3 stop rings</li> </ul>		
<b>Spare parts for closing system</b> <span style="float: right;"><b>01249</b></span>			
         	<ul style="list-style-type: none"> <li><b>1</b> 1 stop washer</li> <li><b>2</b> 1 screw body</li> <li><b>3</b> 1 screw cap</li> <li><b>4</b> 1 o-ring</li> <li><b>5</b> 1 screw nut</li> <li><b>6</b> 1 composite seal</li> <li><b>7</b> 1 captive screw</li> <li><b>8</b> 1 special washer</li> <li><b>9</b> 1 cam</li> <li><b>10</b> 1 washer</li> </ul>		

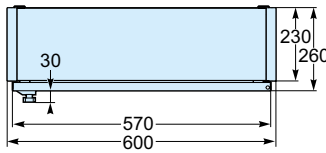
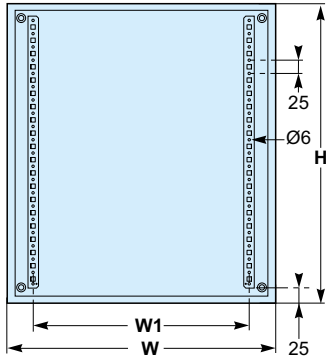


Weatherproof enclosures

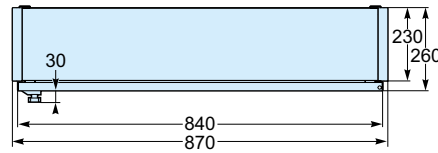
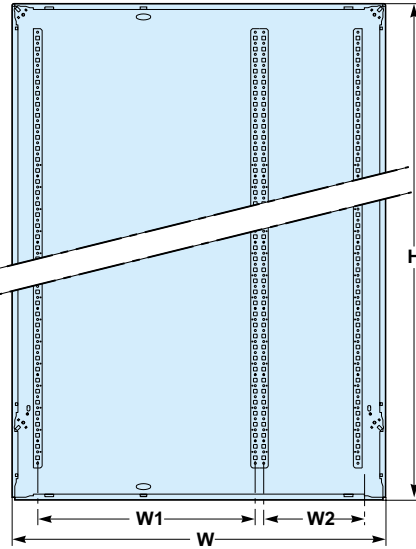
Dimensions

Up to 630 A

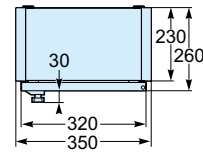
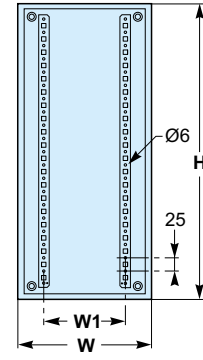
W600 enclosures



W850 enclosure, 33 mod.

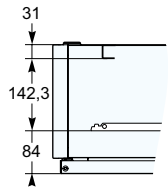


W300 ducts

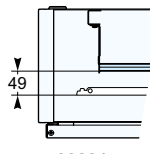


	Nb. of vertical modules	H	W600		W850			W300	
			W	W1	W	W1	W2	W	W1
Enclosures	7	425	575	450	-	-	-	325	200
Ducts	11	625	575	450	-	-	-	325	200
	15	825	575	450	-	-	-	325	200
	19	1025	575	450	-	-	-	325	200
	23	1225	575	450	-	-	-	325	200
	27	1425	575	450	-	-	-	325	200
	33	1725	575	450	845	450	200	325	200

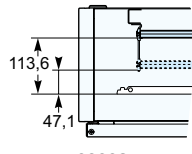
Functional uprights



Modular rails

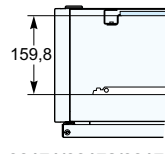


03001.

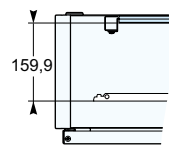


03002.

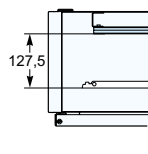
Slotted mounting plate



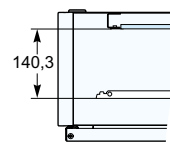
03171/03172/03173/03176/  
03177/03178.



03003.

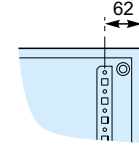


03004.

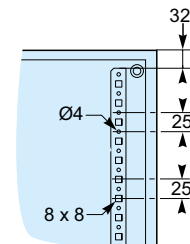


03170/03175.

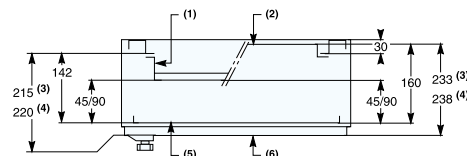
Cable running plate



Rear upright



- (1) Double profile modular rail.
- (2) Recessed slotted mounting plate.
- (3) Transparent door.
- (4) Plain door.
- (5) Front plate.
- (6) Door.



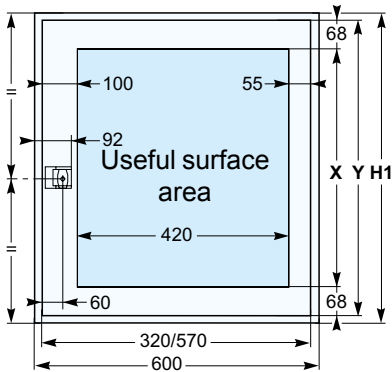


# Weatherproof enclosures

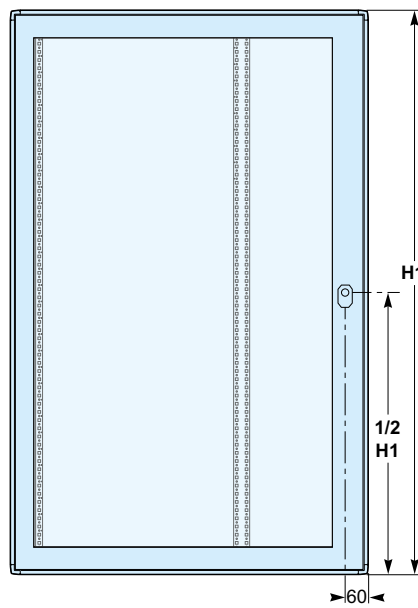
## Dimensions

Up to 630 A

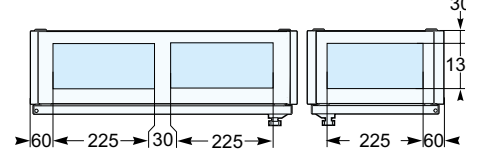
### Doors W600



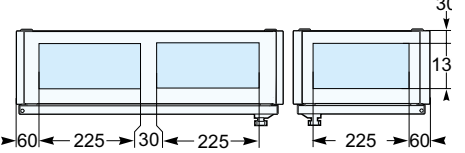
### Doors W850 of 33 mod.



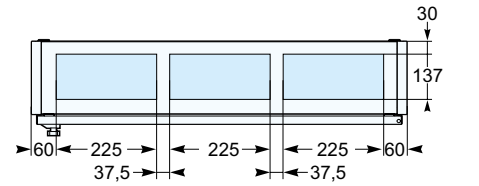
### Cable entry W600



### W300



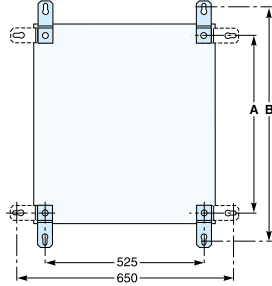
### W850



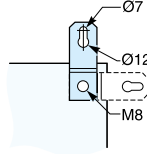
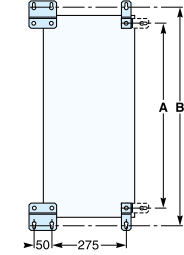
Doors		
H1	X	Y
450	284	420
650	484	620
850	684	820
1050	884	1020
1250	1084	1220
1450	1284	1420
1750	1584	1720

### Wall-mounted installation

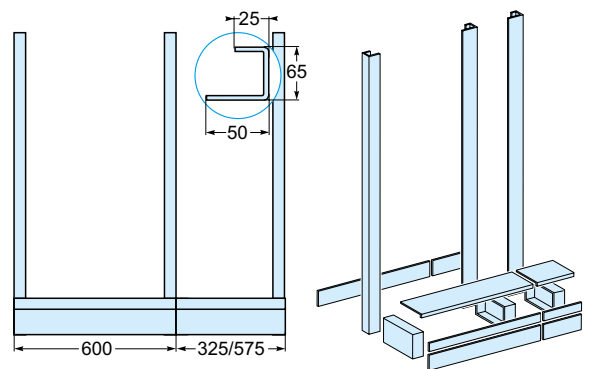
#### External brackets W600/850



#### External brackets W300

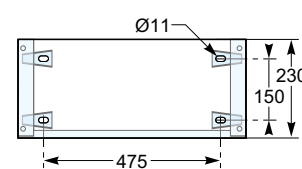


### Wall structure

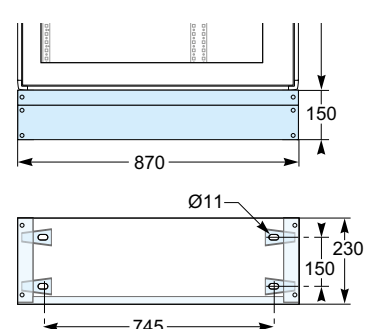


Nb. of vertical modules	A	B	C		D	
			W600	W850	W600	W850
7	375	525	525	-	650	-
11	575	725	525	-	650	-
15	775	925	525	-	650	-
19	975	1125	525	-	650	-
23	1175	1325	525	-	650	-
27	1375	1525	525	-	650	-
33	1675	1825	525	-	650	-

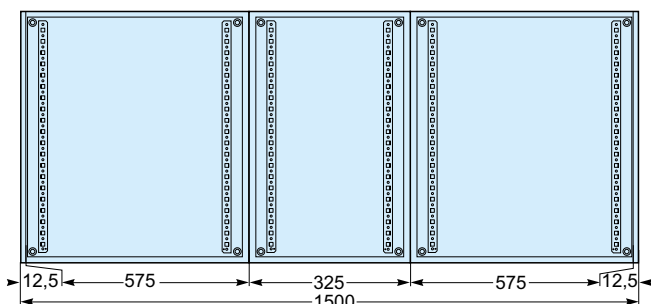
### Plinth fixation W600



### Plinth fixation W850



### Enclosure combinations



Pack 160  
Prisma Pack 250  
enclosures

## Contents

## Pack 160, IP30/IP43

<b>Presentation</b>	<b>F-3</b>
<b>Wall-mounted enclosures</b>	<b>F-4</b>
<b>Enclosures extension and metering</b>	<b>F-5</b>
Functional units for extension enclosures	F-5
<b>Gland plates, trunk, canopy, gasket</b>	<b>F-6</b>
<b>Combination, installation, flush-mounting kit</b>	<b>F-7</b>
<b>Accessories and spare-parts</b>	<b>F-8</b>
<b>Linery distribution and connection systems</b>	<b>F-9</b>
<b>Dimensions</b>	<b>F-10</b>

## Prisma Pack 250, IP30/IP4X

<b>Presentation</b>	
Wall-mounted and floor-standing enclosures	F-12
<b>Wall-mounted and floor standing enclosures</b>	
W600	F-13
<b>Wall-mounted and floor standing enclosures + duct</b>	
W600 + W300	F-14
<b>Installation / Lifting accessories, IP degree level</b>	<b>F-15</b>
<b>Gland plates, cable running</b>	<b>F-16</b>
<b>Finishing parts, door accessories</b>	<b>F-17</b>
<b>Linery distribution and accessories</b>	<b>F-18</b>



# Presentation

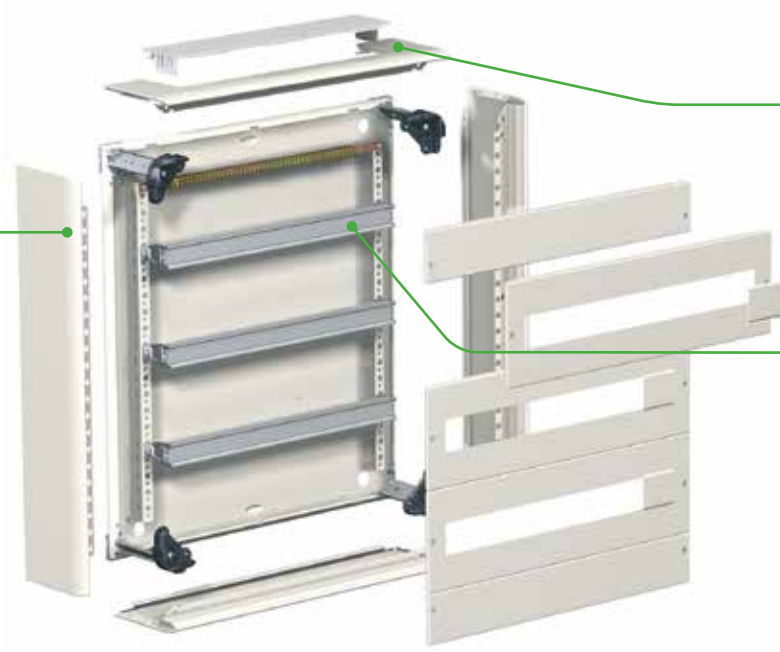
Up to 160 A

Premounted metallic indoor enclosures can be ordered with a single catalogue number.

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

**One product reference = a complete modular enclosure ready to be equipped**

- 160 A
- IP30
- IK07/08



**Accessibility**

- Side panels dismountable for full access

**Installation**

- Door easy to install without tools
- Plain or transparent reversible door



**Gland plate**

- Removable, easy-to-install and easy-to-cut

**Double rail**

- Double rail supplied premounted in the 4-, 5- and 6-row enclosures allowing mixing of devices of different depths



## Description

Steel sheet metal with electrophoresis treatment + hot-polymerised polyester epoxy powder.

Enclosure:

- width: 555 mm
- height: 480 to 1080 mm
- depth: 157 mm without door / 186 mm with door
- properties of metal enclosures > page G-15.

## Main characteristics

### Pack enclosures

Rated operational current	160 A
Colour	White RAL 9001
Compliance with standards	EN 62208, IEC 61439-1-2-3, NFC 61-910
Degree of protection	IP30 without door, IP30 with door, IP31 with canopy + door, IP43 with canopy + door + door gasket
Degree of protection against mechanical impact	IK07 without door IK08 with door
Insulation	Class 1
Doors	<ul style="list-style-type: none"> <li>■ Plain or transparent, opening to right or left, 130°</li> <li>■ By design, electrical continuity of moving parts (hinges...)</li> <li>■ Supplied with a handle and keylock (key 405)</li> <li>■ No possibility to install push buttons (distance behind door = 42 mm)</li> </ul>
Mounting	Pack 160 enclosures easily integrated in using flush-mounting kit



The design of Pack 160 enclosures ensures easy device access and mounting. Optimised depth and an extra-thin door ensure perfect integration in all environments.

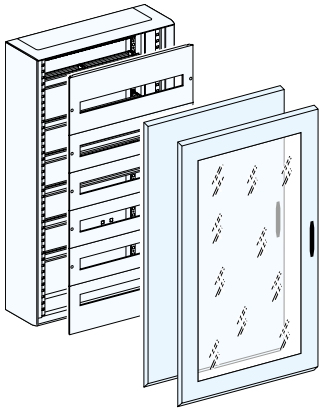
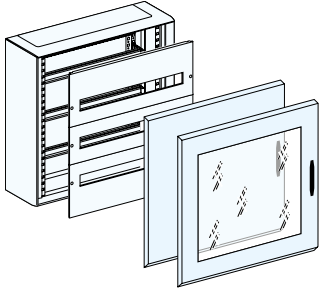
Models with 4, 5 and 6 rows are particularly well-suited for the incomer function:

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



# Wall-mounted enclosures

Up to 160 A



## Wall-mounted enclosures for modular devices

### Enclosures include:

- 1 modular rail per row (L= 24 modules of 18mm).
- The recessed rail at the top of 4, 5, 6-row enclosures is adapted for NSXm installation or INS/INV160 (for NG160, you can order **03008**) and supplied with another rail + raisers to complete the row with modular devices.
- 1 front plate with cut-out per row (height depending on model)
- 1 plastic gland plate
- divisible blanking plates: 3 for 2 and 3 rows enclosures, 6 for 4 to 6 rows enclosures
- earth bar with 40 straps

### Doors are:

- reversible, opening to left or right,
- supplied with a handle and barrel with keylock (key 405)
- barrel locks and inserts

### Enclosure W555

Nb. of rows	Nb. of vertical modules of 50 mm	Height in mm	Enclosure	Plain door	Transparent door
2	9	480	<b>08002</b>	<b>08082</b>	<b>08092</b>
3	12	630	<b>08003</b>	<b>08083</b>	<b>08093</b>
4	15	780	<b>08004</b>	<b>08084</b>	<b>08094</b>
5	18	930	<b>08005</b>	<b>08085</b>	<b>08095</b>
6	21	1080	<b>08006</b>	<b>08086</b>	<b>08096</b>

Flush-mounting kit > see page F-7

	Other modular ≤ 63 A rails W555	Other devices			
	<b>Fixed</b>	<b>Rear</b>	<b>Recessed</b>	<b>NSXm/NSXm Vigi</b>	<b>For NG160</b>
Catalogue numbers	<b>01260</b>	<b>03004</b>	<b>03003</b>	<b>03018</b>	<b>03008</b>
Useful length	432 mm	432 mm	432 mm	432 mm	432 mm
9 mm modules number	48	48	48	48	48
Depth behind front plate	50 mm	80 mm	110 mm	76 mm	83 mm

## Accessories

Allows adding modular devices to the row, if the **03008** or **03018** rail is used.

	Raiser for NSXm	Rail to be cut L1600	Rail + raiser for NG160
Catalogue numbers	<b>04225</b>	<b>04226</b>	<b>04227 (2)</b>
Characteristics	Set of 12 raisers (NSXm/NSXm Vigi) height 11 mm to be completed with <b>04226</b>	Set of 2 rails, useful length: 1600 mm with 4 holes, dia. 6.4 mm, 450 mm between centres	Rail and 4 modular raisers (NG160) Useful length: 432 mm Raiser height: 33 mm

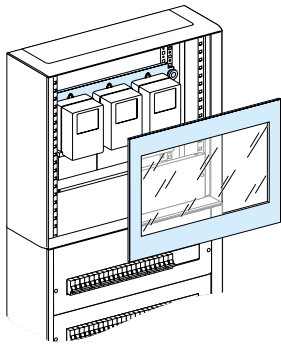
## Other front plates W600

> page C-50 and page F-8.

# Enclosure extension and metering

## Functional units for extension enclosure

Up to 160 A



### Enclosure extension for metering

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.

#### Enclosure extension W555

Nb. of vertical modules of 50 mm	Height in mm	Enclosure	Plain door	Transparent door
9	480	<b>08012</b>	<b>08082</b>	<b>08092</b>

### Kilowatt-hour meters, Class 2

Class 1: Depending on preferences and needs, meters can be installed directly on mounting plates (without insulating plate) equipped with earthing braids of 6 mm<sup>2</sup> (08910) and combined with partitioning or front plates. The mounting plates can be raised using **M5 spacers** > see page C-51.

Installation	In Pack wall-mounted enclosures		In an enclosure extension	
<b>Device</b>	<b>Single-phase meters</b>	<b>3-phase meters</b>	<b>Single-phase meters</b>	<b>3-phase meters</b>
Nb. of devices per row	3	2	3	2
Nb. of vertical modules	6	9	6	9
Mounting plate	<b>03157</b>	<b>03152</b>	<b>03157</b>	<b>03152</b>
Insulating plate	<b>03154</b>	<b>03154</b>	<b>03154</b>	<b>03154</b>
Horizontal partitioning <sup>(1)</sup>	<b>04333</b>	<b>04333</b>	-	-
Front plate	transparent plain	<b>03344</b> or <b>03807</b>	<b>03343</b> or <b>03806</b>	<b>03344</b> or <b>03807</b>
Enclosure	Pack enclosure	Pack enclosure	<b>08012</b>	<b>08013</b>
Door	Depending on enclosure	Depending on enclosure	<b>08092</b> (transparent) or <b>08082</b> (plain)	<b>08093</b> (transparent) or <b>08083</b> (plain)
Earthing wire 6 mm <sup>2</sup>	<b>08911</b>	<b>08911</b>	<b>08911</b>	<b>08911</b>
Combination uprights (set of 2)	-	-	<b>08817</b> <sup>(2)</sup>	<b>08817</b> <sup>(2)</sup>

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

(2) 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.

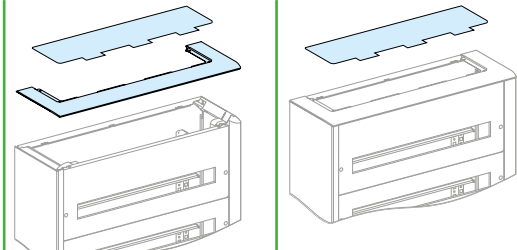


# Gland plates, trunk, canopy, gasket

Up to 160 A

## Gland plates

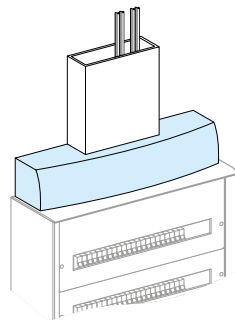
### Gland plates



	Top or bottom plate with plastic gland plate	Metal gland plate
Catalogue numbers	<b>08878</b>	<b>08879</b>
Characteristics	-	Plain metal gland plate

## Trunking spreader

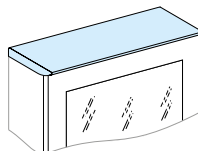
### Trunking spreader



Catalogue numbers	<b>08821</b>
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## Canopy

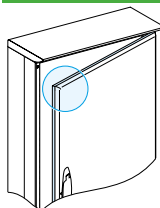
### Canopy for IP31



Catalogue numbers	<b>08823</b>
Characteristics	<p>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.</p> <p>The existing top plate is remounted at the bottom of the enclosure to allow cable entry and exit via the bottom.</p> <p>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.</p>

## Gasket

### Gasket for IP43



Catalogue numbers	<b>08841</b>
Characteristics	<p>When the switchboard is equipped with a canopy, a gasket for the doors ensures compliance with the degree of protection IP43.</p> <p>L = 5.3 m</p>

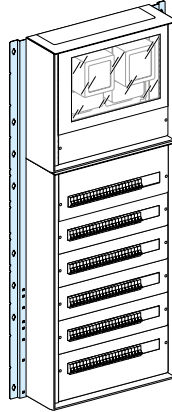


# Combination, installation, flush-mounting kit

Up to 630 A

## Combination uprights

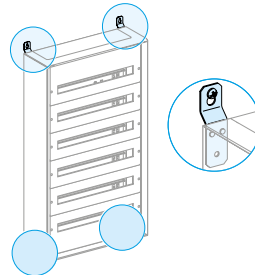
### Combination uprights



Catalogue numbers	<b>08817</b>
Characteristics	Set of 2 uprights. Particularly during transport, it is mandatory to use a set of combination uprights secured to the rear of the switchboard, to make the combination more rigid.

## Wall mounting installation

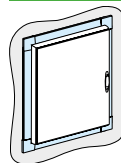
### Wall mounting



Catalogue numbers	<b>08803</b>
Characteristics	4 external wall-mounted brackets

## Flush-mounting kit

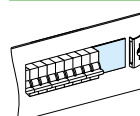
### Flush-mount kit



Catalogue numbers	<b>08822</b>
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## Blanking plates

### Blanking plates



Catalogue numbers	<b>03220</b>	<b>03221</b>
Characteristics	<ul style="list-style-type: none"> <li>■ Blanking strip</li> <li>■ H = 46 mm, L = 1 m</li> </ul>	<ul style="list-style-type: none"> <li>■ Divisible</li> <li>■ Set of 4</li> <li>■ H = 46 mm, L = 90 mm</li> </ul>

Finishing parts > see page C-40

F

Up to 160 A

### Cable-tie supports



> page C-42.

### Cable running

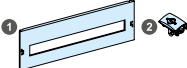
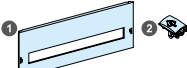
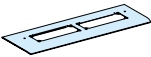
> page C-44.

### Earthing braid

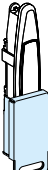
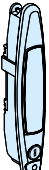
The earthing braid is used to earth a door with devices.

	Earthing braid, 6 mm <sup>2</sup>	Earthing wire, 6 mm <sup>2</sup>
		
Catalogue numbers	<b>08910</b>	<b>08911</b>
Characteristics	The braid is equipped with a 4 mm diameter lug at one end and a 6 mm diameter lug on the other. L = 200 mm	Equipped with a 5 mm diameter lug at one end and a 6 mm diameter lug on the other. L = 200 mm

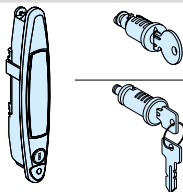





### Spare-parts

Front plate (IP30)			
	<b>4 modules decentered plate</b>		<b>01264</b>
	1 front plate 2 front plates locking mechanisms		
	<b>4.5 modules decentered plate</b>		<b>01265</b>
	1 front plate 2 front plates locking mechanisms		
Gland plate (IP30)			
	<b>Cut-out gland plate for Pack 160 enclosure</b>		<b>01020</b>

### Handle and padlocking

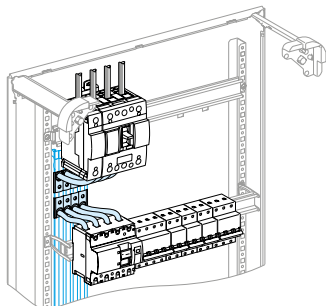
	Padlocking	RAL 7016 handle
		
Catalogue numbers	<b>08938</b>	<b>08931</b>
Characteristics	For existing handle	Supplied with barrel lock (key no. 405) RAL 7016

### Barrel locks, inserts

Barrel locks and inserts for handle (2)			
	Characteristics		Catalogue numbers
	1 key no. 405		<b>08940</b>
	2 keys no. 455		<b>08941</b>
	2 keys no. 1242E		<b>08942</b>
	2 keys no. 3113A		<b>08943</b>
	2 keys no. 2433A		<b>08944</b>
	2 keys no. 2432E		<b>08956</b>
	DIN double bar insert		<b>08945</b>
	Screwdriver slot insert		<b>08946</b>
	Male triangle insert	6.5 mm	<b>08947</b>
		7 mm	<b>08948</b>
		8 mm	<b>08949</b>
		9 mm	<b>08950</b>
	Male square insert	6 mm	<b>08951</b>
		7 mm	<b>08952</b>
		8 mm	<b>08953</b>
	Female square insert	6 mm	<b>08955</b>

## Linergy distribution and connection systems

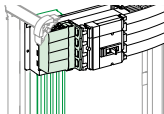
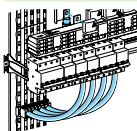
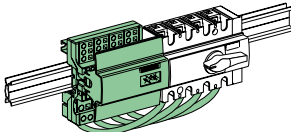

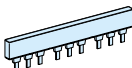
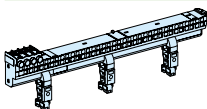

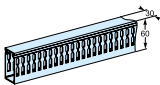
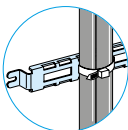
Up to 160 A



## Presentation

At the head of a switchboard, the incoming device can supply by one of the following:

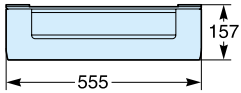
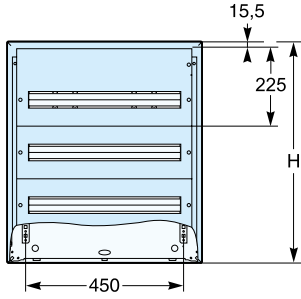
- busbars mounted in rear of the enclosure
- centralised distribution blocks
- row distribution blocks.

Linergy distribution	Catalogue numbers	Pages
<b>Linergy BW busbars 125 A</b>		
 125 A	<b>04103, 04107, 04104, 04108, 01210, 01201</b>	D-4
<b>Prefabricated connections 125 to 160 A</b>		
 125 A	<b>04145</b>	D-4, D-5
160 A	<b>04146, 04147, 04148, 04151</b>	
<b>Linergy DX distribution block</b>		
 63 A	<b>04040, 04041 (4P)</b>	D-10, D-11
125 A	<b>04045, 04047 (4P)</b>	
160 A	<b>04031, 04149, 04046</b>	
<b>Linergy DS distribution block</b>		
 100 A	<b>LGY410028, LGYN1007 LGYN12512</b>	D-14, D-15
125 A	<b>LGY112510, LGY412548, LGY412560, LGYN12515</b>	
160 A	<b>LGY116013, LGY416048</b>	
<b>Linergy FH comb busbars</b>		
		D-18 to D-22
<b>Linergy FM distribution block</b>		
 63 A	<b>04008 (4P)</b>	D-16, D-17
80 A	<b>04000 (4P)</b>	
<b>Cable straps</b>		
	<b>04239, 04243</b>	C-43
<b>Trunking</b>		
 80 x 60 mm support external brackets	<b>04257, 04255, 04206</b>	C-43, C-42
<b>Cable-tie supports</b>		
	<b>08867</b>	C-47

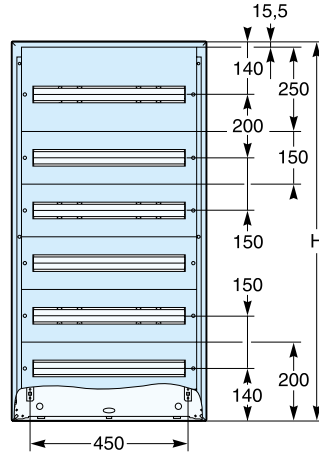
# Dimensions

Up to 160 A

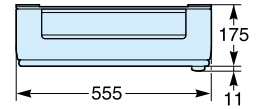
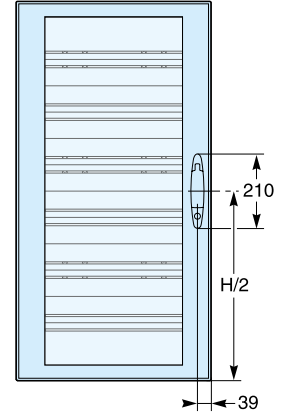
## Wall-mounted enclosures of 2 and 3 rows



## Wall-mounted enclosures of 4, 5 and 6 rows

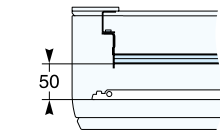
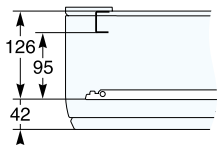


## Door

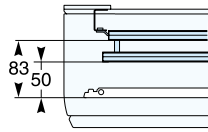


Nb. of rows	Nb. of vertical modules of 50 mm	Height in mm
2	9	480
3	12	630
4	15	780
5	18	930
6	21	1080

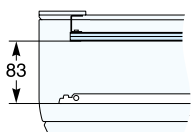
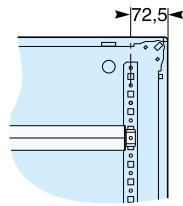
## Useful depth behind front plate Cable running



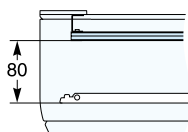
Supplied modular rail.



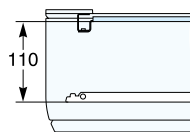
Upper rail in wall-mounted enclosures of 4, 5 and 6 rows.



Rail cat. no. 03008.

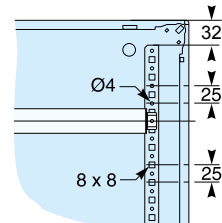


Rail cat. no. 03004.



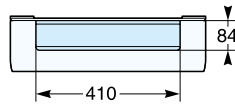
Rail cat. no. 03003.

## Rear upright

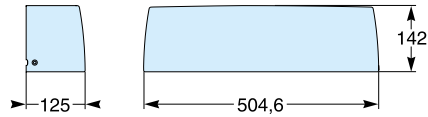


Up to 160 A

### Cable entry



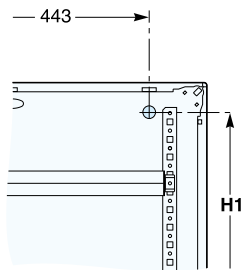
### Trunking spreader



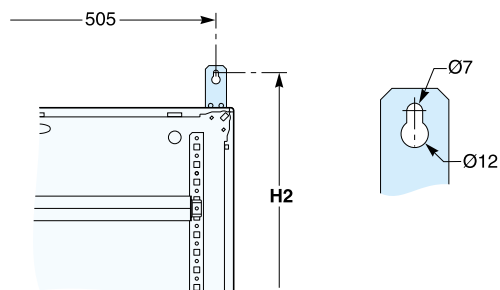
### Wall-mounted installation

Nb. of rows	H1	H2
2	396	546
3	546	696
4	696	846
5	846	996
6	996	1146

### Screws



### External brackets



F

# Presentation

## Wall-mounted and floor-standing enclosures

Up to 250 A

Metallic indoor wall-mounted and floor-standing enclosures delivered in a kit with a limited number of references. Commercial buildings: hotels, offices, shops, etc.

**Wall-mounted and floor-standing enclosures delivered flat: total accessibility**  
**Designed for electrical continuity**

- 250 A
- IP30/IP4X
- IK07/08
- Seismic characteristics 2,5G

**Free space**  
 ■ H = 300 mm for incomer device installation at your choice


**Gland plate**

- Dismountable and cuttable



**Quick fastening on hook-on rail**

- Easy wall mounting



**Total accessibility**

- Dismountable side panels: flat wiring



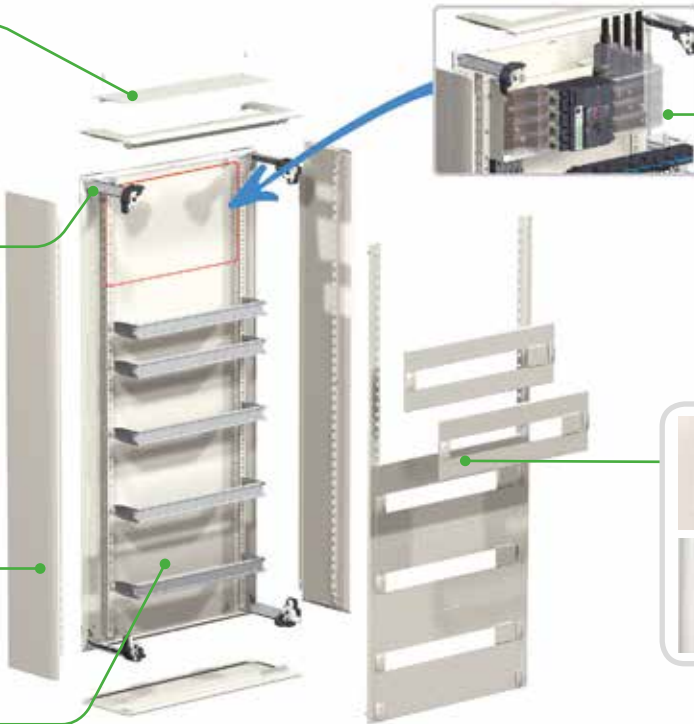
**Comfortable wiring**

- Steel sheet metal with inside painting, not aggressive for the hands of the wiring staffs

**Common accessories with Prisma G**

**Ergonomics and safety**

- Easy panel handling thanks to the ergonomic gripper
- Legible "Open/closed" positions of front plate
- Integrated front plate sealing function

### Description

Steel sheet metal with electrophoresis treatment + hot-polymerised polyester epoxy powder.

Enclosure:

- width: 595 mm
- height: 630 to 1830 mm
- depth: 205 mm without door / 259 mm with door (including the handle : 13,5 mm)
- properties of metal enclosures > [page G-15](#)

### Main characteristics

Prisma Pack 250 enclosures, IP30/IP4X	
Rated operational current	In = 250 A, Isc = 50 kA, Icw = 25 kA rms/1 s, Ipk = 52.5 kA
Colour	White colour RAL 9001
Standards conformity	EN 62208, IEC 61439-1-2-3
Degree of protection	IP30 without door IP40 with door IP41 with canopy + door IP43 with canopy + door + gasket
Degree of protection against mechanical impacts	IK07 without door IK08 with door (transparent) Ik10 with plain door
Seismic characteristics	2.5G without accessory (IEC 60068-2-57)
Isolation	Class 1
Doors	<ul style="list-style-type: none"> <li>■ Plain or transparent, opening to right or left, 130°</li> <li>■ By design, electrical continuity of moving parts</li> <li>■ Supplied with a handle and keylock (key 405)</li> <li>■ Distance behind door = 58 mm</li> </ul>
Mounting	Surface mounting, floor-standing, flush-mounting via a kit

# Wall-mounted and floor standing enclosures

W600

Up to 250 A



Each enclosure is delivered with H = 150 mm front plates and rails for modular devices (quantity according the number of rows) and a plastic gland plate.

## Wall-mounted and floor standing enclosures W600

Capacity		Nb of row + Zone A to complete height 300 mm (6 modules)	H x W x D (in mm)	Wall-mounted and floor-standing	Optional		Earth bar with 40 staples (16 mm <sup>2</sup> ) and 1 incoming terminal (35 mm <sup>2</sup> )
9-mm pitches	18-mm modules				Plain door (1)	Transparent door (1)	
<b>Wall-mounted</b>							
96 + 96	48 + 48	2R + A	630 x 600 x 205	08064	08124	08134	1
144 + 96	72 + 48	3R + A	780 x 600 x 205	08065	08125	08135	1
192 + 96	96 + 48	4R + A	930 x 600 x 205	08066	08126	08136	1
240 + 96	120 + 48	5R + A	1080 x 600 x 205	08067	08127	08137	2
288 + 96	144 + 48	6R + A	1230 x 600 x 205	08068	08128	08138	2
336 + 96	168 + 48	7R + A	1380 x 600 x 205	08069	08222	08232	2
<b>Floor-standing</b>							
336 + 96	168 + 48	7R + A	1530 x 600 x 205	08072	08222	08232	2
384 + 96	192 + 48	8R + A	1680 x 600 x 205	08073	08223	08233	2
432 + 96	216 + 48	9R + A	1830 x 600 x 205	08074	08224	08234	2

(1) Reversible doors, opening to left or right, equipped with a handle and keylock (key 405).

Zone A to complete depending on the incoming device

Zone A (H = 300 mm) to complete			
	Zone A incoming device	Cat. no.	Composition
 03260	Modular devices ≤ 40 A (2 rows)	03001 x 2 + 03203 x 2	2 modular rails 2 modular front plates (H = 2 x 150 mm)
	Modular devices ≤ 63 A (1 row)	03001 + 03204 + 03802	1 modular rail 1 modular front plate H = 200 mm 1 plain front plate H = 100 mm
	Compact INS40-160, NG125, Vigi NG125, C120, Vigi C120 + Modular devices Acti 9	03260	1 modular rail + 1 modular front plate H = 250 mm + 1 plain front plate H = 50 mm
	NSXm or NSXm Vigi + modular devices	03261	1 adjustable modular rail + 1 modular rail + 2 raisers (1) + 1 modular front plate H = 250 mm + 1 plain front plate H = 50 mm
 03264	Compact INS/INV250 horizontal fixed, toggle	03264	1 mounting plate + 1 front plate INS/INV250 H = 200 mm + 2 plain front plates H = 50 mm
	Compact NSX100/250 horizontal fixed, toggle	03030 + 03232 + 03802	1 mounting plate + 1 front plate with cut-out H = 200 mm + 1 plain front plate H = 100 mm
	Vigicompact NSX100/250 horizontal fixed, toggle	03033 + 03292 + 03802	1 mounting plate + 1 front plate with cut-out H = 200 mm + 1 plain front plate H = 100 mm
	Easycompact CVS 100/250, 3P/4P, horizontal fixed, toggle	03030 + 03230 + 03802	1 mounting plate + 1 front plate with cut-out H = 200 mm + 1 plain front plate H = 100 mm
	Easycompact Vigi CVS 100/250, 3P/4P, horizontal fixed, toggle	03033 + 03238 + 03802	1 mounting plate + 1 front plate with cut-out H = 200 mm + 1 plain front plate H = 100 mm

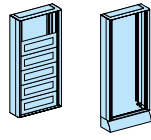
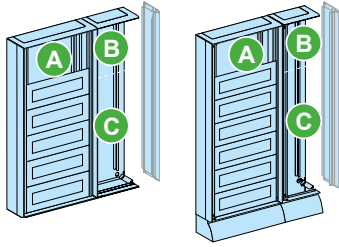
(1) To add modular devices to the row.

# Wall-mounted and floor standing enclosures + duct

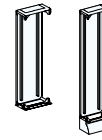
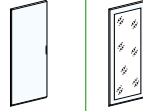
W600 + W300

Up to 250 A

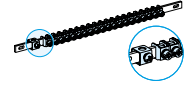
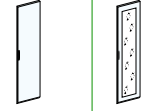
## Wall-mounted and floor standing enclosures W600 + Ducts W300



Optional



Optional



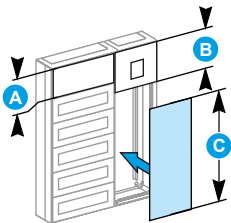
Nb of row + Zone A to complete height 300 mm (6 modules)	Height in mm	Wall-mounted and floor-standing	Plain door (2)	Transparent door (2)	Ducts (1)	Plain door	Transparent door	Earth bar with 40 staples
<b>Wall-mounted</b>								
2R + A	630	08064	08124	08134	08174	08184	-	1
3R + A	780	08065	08125	08135	08175	08185	-	1
4R + A	930	08066	08126	08136	08176	08186	-	1
5R + A	1080	08067	08127	08137	08177	08187	08197	2
6R + A	1230	08068	08128	08138	08178	08188	08198	2
7R + A	1380	08069	08222	08232	08179	08282	08292	2
<b>Floor-standing</b>								
7R + A	1530	08072	08222	08232	08272	08282	08292	2
8R + A	1680	08073	08223	08233	08273	08283	08293	2
9R + A	1830	08074	08224	08234	08274	08284	08294	2

(1) Supplied with a combination kit for enclosure + duct association.

(2) Reversible doors, opening to left or right, equipped with a handle and keylock (key 405).

Zone A to complete with 2 rails (Ref. 03001) + 2 front plates (Ref. 03203)

Zone B to complete (H = 450 mm) with the incoming device



Location of zones to complete



03267

Incoming device Zone B	Cat. no.	Composition
Compact INV250	03267	1 mounting plate INV 1 front plate INV 2 modular rails L = 600 mm 2 front plates L = 600 mm
Compact NSX100/250 Vertical fixed, toggle	03050 + 03253	1 mounting plate 1 front plate
Easypact CVS100/250 Vertical fixed, toggle	03050 + 03250	1 mounting plate 1 front plate

### Zone C to complete

The table below gives the cat. no of plain front plates to be installed to complete the duct.

Cat. no. of the duct	Dimensions of zone C (mm) to complete	Cat. no.
08174	150	03813 x 1
08175	300	03816 x 1
08176	450	03817 x 1
08177	600	03816 x 2
08178	750	03815 x 3
08179	900	03816 x 3
08272	900	03817 x 2
08273	1050	03817 x 2 + 03813 x 1
08274	1200	03816 x 4

Other combinations are possible to complete the zone C, including 7 heights of 300 mm width front-plates:

Height (mm)	Cat. no.
50	03811
100	03812
150	03813
200	03814
250	03815
300	03816
450	03817

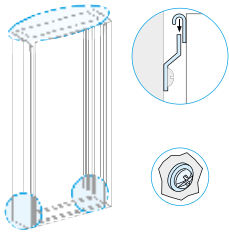
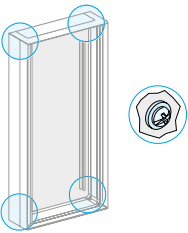
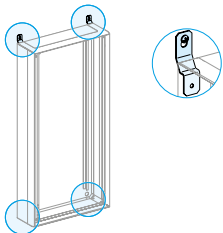


# Installation / Lifting accessories, IP degree level

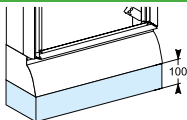
Up to 250 A

## Installation possibilities

Switchboards can be mounted on a wall in three manners: with the hook-on rail system, via the inside of the enclosure or using external wall-mounted brackets. Combined enclosures can be mounted using the lifting/reinforcement crossmembers set of two lifting/reinforcement cross-members.

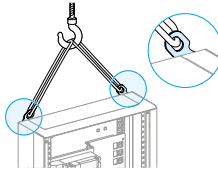
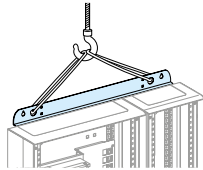


	Hook-on rail system	Mounting via the inside	Mounting using the external wall-mounted brackets
			
Catalogue numbers	Delivered with the enclosure	-	<b>08804</b>
Characteristics	The enclosure comes with 2 cross-members secured to the back of the enclosure (top and bottom) and a support rail (with levelling adjustment) for screw-mounting on the wall. The enclosure is easily mounted on the hook-on rail system. End the fixation with 2x 8mm diameter screws, at the bottom of 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).	4 external wall-mounted brackets.

## Plinth raiser

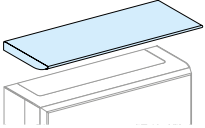
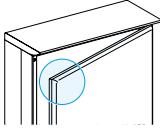


Plinth raiser		
		
Catalogue numbers	<b>08805</b>	<b>08807</b>
Characteristics	For basic floor-standing enclosure or extension W = 600 mm	For a duct W = 300 mm

## Lifting accessories

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).

	2 lifting rings for single wall-mounted or floor-standing enclosures	Lifting/reinforcement cross-members for combined enclosures
		
Catalogue numbers	<b>08801</b>	<b>08812</b>
Characteristics	 Set of two lifting rings	 Have 2 types of holes: for lifting and for mounting on a wall

## Accessories to increase the degree of protection IP

	Canopy to increase the IP value from IP30 to IP31 (1)	Gasket for the door to increase the IP value from IP31 to IP43
		
Used with	1 wall-mounted enclosure	1 wall-mounted enclosure + 1 duct (2)
		
Catalogue numbers	<b>08830</b>	<b>08832</b>
Designation	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.	When the switchboard is equipped with a canopy, a gasket for the doors ensures compliance with the degree of protection IP43. L = 5.3 m

(1) With a door, the IP30 become IP40  
With a door + canopy, the IP40 become IP41.  
(2) Whatever the duct position.



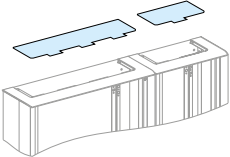
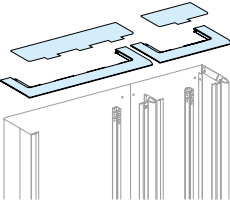
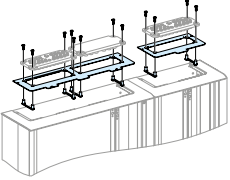
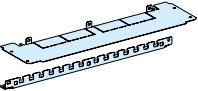
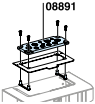
# Gland plates, cable running

Up to 250 A

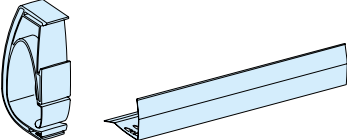
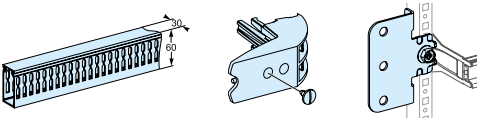
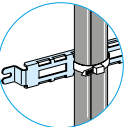
## Gland plates

Enclosures (wall-mounted, floor-standing, ducts) are supplied with a plastic gland plate installed on the top or bottom for wall-mounted enclosures and the top for floor-standing enclosures.

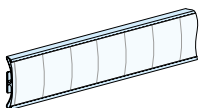
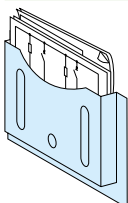
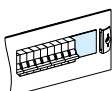
The existing plastic gland plate can be replaced by this metal gland plate or by an interface plate with cut-out.

Wall-mounted and floor-standing W600 and duct W300	Pages
<b>Plain metal gland plates</b>	
	E-11
<b>Metal plates with cut-outs + plastic gland plates</b>	
	E-11
<b>Metal plate with cut-outs</b>	
	E-11
<b>Metal gland plates for plinth</b>	
	E-7
<b>Gland plates, plain with knockouts or membrane-type</b>	
	E-11


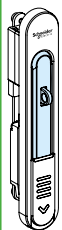

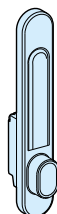
## Cable running

Cable running	Pages
<b>Horizontal/vertical cable straps + covers</b>	
	C-43
<b>Horizontal/vertical trunkings + supports</b>	
	C-43, C-46
<b>Cable-tie supports</b>	
	C-43

Up to 250 A


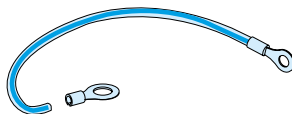
Labels	Pages
<b>Adhesive labels</b>	
	C-41
<b>Adhesive drawing holder</b>	
	C-41
<b>Blanking plates modular device (blinking strip or divisible)</b>	
	F-7

Door handles and padlocking *See page E-12*

	Rotary handle	Padlocking	EURO handle	ASSA/ABLOY handle
				
Catalogue numbers	<b>01218</b>	<b>07938</b>	<b>07932</b>	<b>07933</b>
Characteristics	New rotary handle - RAL 9001	For new rotary handle	Supplied without barrel	Supplied without barrel

Earthing braid

The earthing braid is used to earth a door or partial door with devices.

	Earthing braid, 6 mm <sup>2</sup>	Earthing wire, 6 mm <sup>2</sup>
		
Catalogue numbers	<b>08910</b>	<b>08911</b>
Characteristics	Equipped with a 4 mm diameter lug at one end and a 6 mm diameter lug on the other L = 200 mm	Equipped with a 5 mm diameter lug at one end and a 6 mm diameter lug on the other. L = 200 mm

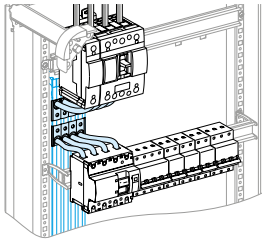
Spare parts

> see pages E-13 to E-15.

Dimensions

> see page E-16.

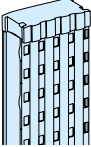
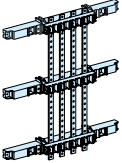
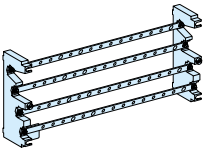

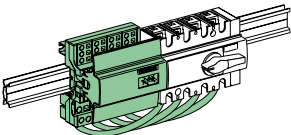

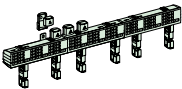
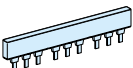
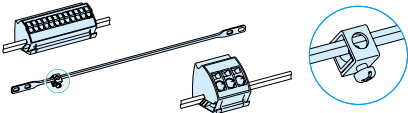
Up to 250 A



### Presentation

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.

Linergy distribution	Catalogue numbers	Pages
<b>Linergy BW insulated busbars up to 250 A</b>		
	125 A 04103, 04104, 04107, 04108	D-4
	160 A 04111, 04121, 04116, 04126	
	250 A 04112, 04122, 04117, 04127	
<b>Linergy BS rear busbars</b>		
	160 A 04161, 04171	D-6
	250 A 04162, 04172	
	Support 04191	
<b>Linergy BS multi-stage distribution block up to 250 A / Linergy BS multi-stage busbars up to 250 A</b>		
	Complete	D-7, D-8
	160 A 04052	
	250 A 04053	
	To be assembled	
160 A 04161, 04171		
250 A 04162, 04172		
<b>Linergy DP quick distribution blocks 250 A</b>		
	250 A 04033, 04155 (3P)	D-12
	250 A 04034, 04156 (3P)	
<b>Linergy DX distribution block</b>		
	63 A 04040, 04041 (4P)	D-10, D-11
	125 A 04045 (4P)	
	160 A 04031 (1P), 04046 (4P)	
<b>Linergy DS screw distribution blocks</b>		
	100 A LGY410028	D-14, D-15
	125 A LGY112510, LGY416048, LGY412560	
	160 A LGY116013, LGY412548	
	250 A LGY125014	
<b>Linergy FM quick device feeders</b>		
	63 A 04008 (4P)	D-16, D-17
	80 A 04000 (4P)	
	04018 (4P)	
	160 A 04012 (2P), 04013 (3P), 04014 (4P)	
	200 A	
<b>Horizontal comb busbars Linergy FH</b>		
		D-18 to D-22
<b>Linergy TB earth bar, neutral bar</b>		
	04201, 04214, 04215, 04200, 04202, 04210	D-23

Note: see pages C-53, C-54 for prefabricated connections.

F

# Prisma G Additional information

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## Electrical characteristics

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<b>Designing connections <math>\leq 630</math> A</b>	
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Incoming connection block and power supply block on Linergy BW busbars	G-6
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<b>Tools required for mounting and connection</b>	<b>G-9</b>
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## Standards

<b>Prisma G seismic</b>	<b>G-10</b>
<b>Standards</b>	<b>G-12</b>

## Enclosure characteristics

<b>Selection of enclosures according to the premises</b>	<b>G-18</b>
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## Thermal characteristics

<b>Thermal management of switchboards</b>	
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Ventilation	G-31
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# Designing Prisma power circuits

## Presentation and approach

### Electrical characteristics

The Prisma G system takes into account the installation and connection conditions of Schneider Electric devices.  
The entire installation complies with standard IEC 61439-1 and 2 of tested switchboard.



In the following pages you will find a number of examples, validated for Prisma 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 61439-1 and 2 §4.7 specifies the table below:

Number of circuits	Rated diversity factor (RDF)
2 and 3	0.9
4 and 5	0.8
6 and 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 > see page G-3 which indicate the correct size for each type of connected device.

- an insulated flexible bar (not connected) must meet standards IEC 60243-1, (dielectric, > see page G-3), NFC 32201 (insulation) and IEC 60332-1 (fire)
- a flexible bar connected to a device in an enclosure must comply with standard IEC 61439-1 and 2.

### Cables

To determine the cables required, see the tables. on > see page G-5.

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.



### Rapsody software

Easy design with

> see page B-20



# Designing connections ≤ 630 A

## Device connections

### Electrical characteristics

#### Flexible copper bars with an insulating sheath

##### Switchboards that comply with standard IEC 61439-1 and 2

It is imperative to use the values indicated below that have been validated for the installation of devices in Prisma 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 brings flexibility, easy and quick installation.

##### Insulated flexible bars are better solution than cables:

- 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 enclosures 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 (S) 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	INF250 ISFT250	INF400 ISFT400	INF630 ISFT630
S (mm)	20 x 2	20 x 2	20 x 3	32 x 5	32 x 6	24 x 5	32 x 5	32 x 8

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

Device	Linergy FM distribution block (200 A)
S (mm)	20 x 3

##### 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 switchboards.

Designing connections  $\leq 630$  A

## Compact circuit breakers NSX100 to 630

## Electrical characteristics

## Compact NSX100 to NSX250

## Insulated flexible copper bars

Devices		Rated current of a circuit $I_{nc}$ (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
<b>IP <math>\leq 55</math></b>							
NSX100 TMD-TMG	Size per phase	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2
	$I_{nc}$ (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
	$I_{nc}$ (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
	$I_{nc}$ (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
	$I_{nc}$ (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
	$I_{nc}$ (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
	$I_{nc}$ (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
	$I_{nc}$ (A)	250	250	237.5	237.5	225	225

## Compact NSX400 to NSX630

## Insulated flexible copper bars

Devices		Rated current of a circuit $I_{nc}$ (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
<b>IP <math>\leq 55</math></b>							
NSX400B/F/N/H/S/L fixed	Size per phase	32 x 5	32 x 5	32 x 5	32 x 5	32 x 5	32 x 5
	$I_{nc}$ (A)	400	400	400	390	380	370
NSX400B/F/N/H/S/L with Vigi	Size per phase	32 x 5	32 x 5	32 x 5	32 x 5	32 x 5	32 x 5
	$I_{nc}$ (A)	400	390	380	370	360	350
NSX400B/F/N/H/S/L withdrawable	Size per phase	32 x 5	32 x 5	32 x 5	32 x 5	32 x 5	32 x 5
	$I_{nc}$ (A)	400	390	380	370	360	350
NSX630B/F/N/H/S/L fixed	Size per phase	32 x 6	32 x 6	32 x 6	32 x 6	32 x 6	32 x 6
	$I_{nc}$ (A)	630	615	600	585	570	550
NSX630B/F/N/H/S/L with Vigi or withdrawable	Size per phase	32 x 8	32 x 8	32 x 8	32 x 8	32 x 8	32 x 8
	$I_{nc}$ (A)	570	550	535	520	505	490

**Note:** the values indicated above have been validated for Prisma switchboards.

(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 NSX250 equipped with a Vigi or an insulation-monitoring module, multiply the  $I_n$  values by 0.86.

## Designing connections $\leq 630$ A

Compact circuit breakers NSX100 to 630

Compact circuit breakers NSXm 160

### Electrical characteristics

#### Cables

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.

When mounting Schneider Electric prefabricated connections, short terminal shields can be used or not if the function is already integrated in prefabricated connections.

**Note:** For some devices, it is recommended to use Schneider Electric prefabricated connections. If not, switchgears must be equipped with long terminal shields for personnel safety.

#### Compact NSX100 to NSX250

Copper cable, withstand temperature = 105 °C

Devices		Rated current of a circuit $I_{nc}$ (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
<b>IP <math>\leq 55</math></b>							
NSX100 TMD-TMG	Size per phase (mm <sup>2</sup> )	50	50	50	50	50	50
	$I_{nc}$ (A)	100	97.5	95	92.5	90	85
NSX125 TMD-TMG	Size per phase (mm <sup>2</sup> )	70	70	70	70	70	70
	$I_{nc}$ (A)	125	122	119	116	113	100
NSX160 (1) TMD-TMG	Size per phase (mm <sup>2</sup> )	95	95	95	95	95	95
	$I_{nc}$ (A)	160	156	152	147	144	140
NSX250 (1) TMD-TMG	Size per phase (mm <sup>2</sup> )	120	120	120	120	120	120
	$I_{nc}$ (A)	250	244	238	231	225	198
NSX100 STR	Size per phase (mm <sup>2</sup> )	50	50	50	50	50	50
	$I_{nc}$ (A)	100	100	100	100	100	100
NSX160 STR	Size per phase (mm <sup>2</sup> )	95	95	95	95	95	95
	$I_{nc}$ (A)	160	160	160	160	160	160
NSX250 (2) STR	Size per phase (mm <sup>2</sup> )	120	120	120	120	120	120
	$I_{nc}$ (A)	250	250	237.5	237.5	225	225

#### Compact NSX400 to NSX630

##### In case of cable connection

Cable connection is not recommended if the cable sizes are too large. Choose insulated flexible bar (see table opposite and list of insulated flexible bars).

(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 NSX250 equipped with a Vigi or an insulation-monitoring module, multiply the  $I_n$  values by 0.86.

**Note:** the values indicated above have been validated for Prisma switchboards.

#### Compact NSXm160

Copper cable, withstand temperature = 105 °C

Devices		Rated current of a circuit $I_{nc}$ (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
<b>IP <math>\leq 55</math></b>							
NSXm100 TMD	Size per phase (mm <sup>2</sup> )	50	50	50	50	50	50
	$I_{nc}$ (A)	96	94	90	87	83	80
NSXm125 TMD	Size per phase (mm <sup>2</sup> )	70	70	70	70	70	70
	$I_{nc}$ (A)	120	117	113	109	104	100
NSXm160 TMD	Size per phase (mm <sup>2</sup> )	95	95	95	95	95	95
	$I_{nc}$ (A)	156	152	148	144	139	133
NSXm Vigi (ELCB) 100	Size per phase (mm <sup>2</sup> )	50	50	50	50	50	50
	$I_{nc}$ (A)	100	100	100	100	96	93
NSXm Vigi (ELCB) 160	Size per phase (mm <sup>2</sup> )	95	95	95	95	95	95
	$I_{nc}$ (A)	160	155	150	145	140	135

**Note:** For use of NSXm in Prisma Pack multiply the  $I_{nc}$  values by 0.98.

# Designing connections ≤ 630 A

Incoming connection block and power supply block on Linergy BW busbars  
Tubular lugs, Bimetal lugs

## Electrical characteristics

### Compact NSX100 to NSX630

#### 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				Rated current of a circuit I <sub>nc</sub> (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												
NSX400B/F/ N/H/S/L fixed	Incoming connection block		04076	400	360	390	350	380	340	370	330	360	320	350	■
	Power supply block		04070												
NSX630B/F/ N/H/S/L fixed	Incoming connection block		04076	570	520	555	505	540	490	525	470	510	450	495	■
	Power supply block		04071												

Note: the values indicated above have been validated for Prisma switchboards.

■ 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.

### Designing connections with cables

#### Tubular lugs

#### Tubular lugs for incoming connection blocks

Maximum size of lugs for connection to the different incoming connection blocks.

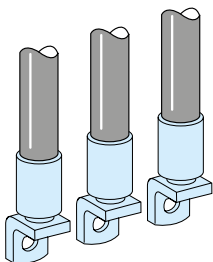
	Standard Cu lugs	Narrow Cu lugs	Narrow bimetal lugs
Incoming connection block for NSX-INS250 supplied via the top or bottom, cat. no. 04066 and 04067	150 mm <sup>2</sup>	240 mm <sup>2</sup>	185 mm <sup>2</sup>
In-duct incoming connection block for NSX630, cat. no. 04076	240 mm <sup>2</sup>	300 mm <sup>2</sup>	300 mm <sup>2</sup>

#### Narrow bimetal lugs

#### Catalogue numbers selection

Catalogue numbers	Cable size (mm <sup>2</sup> )	Quantity
<b>Lugs for aluminium cable(1)</b>		
LV429504	150	3
LV429505	150	4
LV429506	185	3
LV429507	185	4
LV432504	240	3
LV432505	240	4
LV432506	300	3
LV432507	300	4

(1) Supplied with 2 or 3 interphase barriers.



## Electrical characteristics

### 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  $\geq 16\text{mm}^2$ , 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 61439-1 and 2, 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.

## Electrical characteristics

- 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 electrical switchboard.
- 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 <sup>2</sup> )	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 I <sub>cw</sub> (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

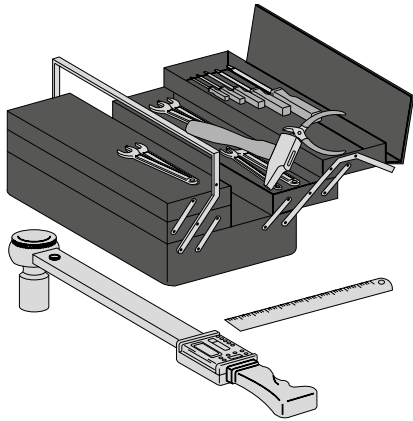
For cable sizes of 50 mm<sup>2</sup> or more, use 9 mm wide fixing ties.

**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

## Tools required for mounting and connection

## Practical information

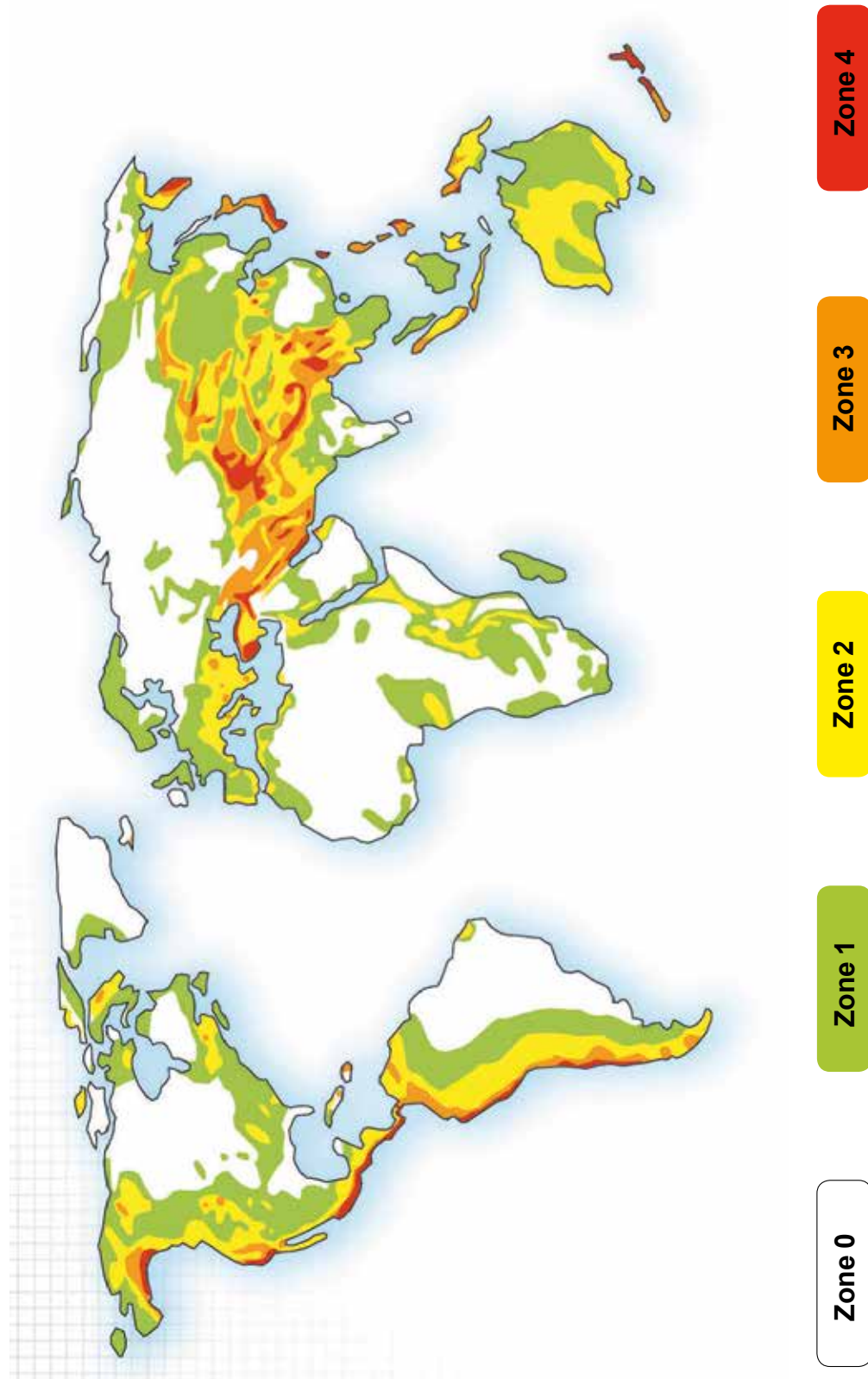


- Vacuum cleaner to clean the switchboards
- Ratchet wrench with sockets
- Torque wrench with sockets and ring bits to tighten the electrical connections to the correct torque (max. torque 50 Nm)
- Open-ended spanners (15 to 27 mm)
- Electrician's knife
- 7, 8, 10, 13, 16, 17 and 19 mm sockets
- Bit 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, 4, 5, 5.5 and 8 mm flat screwdrivers
- Pozidriv 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



## Seismic zone

Around the world can be found different zones with a specific seismic risk. These zones have been classified according to the Uniform Building Code (UBC).





# Prisma G seismic



## Switchboard qualification

Tests are carried out on switchboards to ensure that they operate correctly (structural and functional integrity) under severe earthquake conditions and meet specific safety requirements. The tests carried out to qualify these switchboards are described in the international standard IEC 60068-3-3.

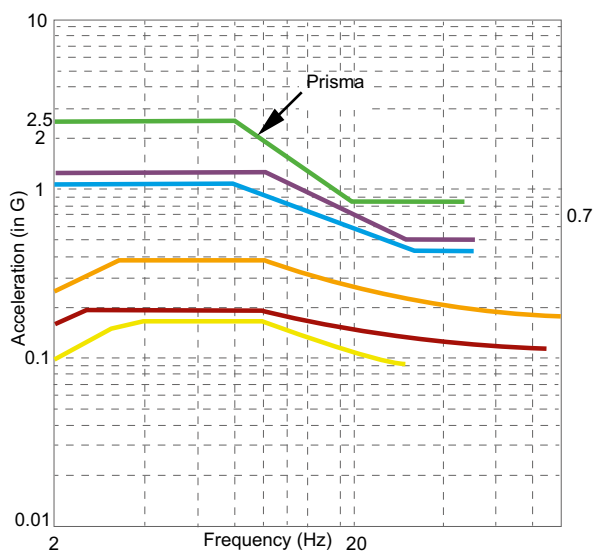
## Classification

From weak to strong earthquakes, Prisma G has been tested in the following ground accelerations to guarantee the right performance on seismic risk.

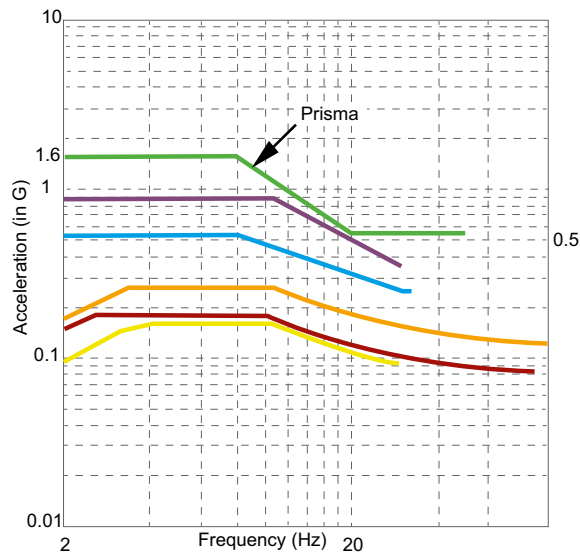
IEC 60068 -3-3 Ground acceleration	Seismic characteristics			
References	General description	Richter scale magnitude	MSK Intensity	UBC Zone
AG2	Intensity from weak to average	< 5.5	< VIII	0 1
AG3	Intensity from average to strong	5.5 to 7.0	VIII to IX	2 3
AG5	Intensity from strong to very strong	> 7.0	> IX	4

Prisma G is compliant up to level AG5 from IEC 60068-3-3 (2,5G) :

Compare Prisma G Switchboards Performances with seismic Standard  
Damping % - horizontal



Compare Prisma G Switchboards Performances with seismic Standard  
Damping % - vertical



Country	Standard	Parameters
Prisma G	IEC60068-3-3	Up to level AG5
Russia	GOST 17516.1-90	Civil Market (Seismic intensity 8, all installation levels) or (Up to Seismic Intensity 9, Level 1 only)
Chile	ENDESA 1986	All seismic categories
Turkey	Seismic Turkish Code 2009	All seismic zones, all site class
Greece	EAK 2000	All soil types, Worst case
Australia	AS1170	All soil types, Worst case

**Warning:** use the seismic kit 04130 when using linergy BW > see page D-4





## What is a standard?

### A common reference

"A standard helps to define a common language between economic stakeholders (producers, users and consumers), to clarify and harmonize practices and to define the levels of quality, safety, compatibility, and least environmental impact of products, services and practices.

Standards facilitate trade, both national and international, and help to better structure the economy and facilitate the everyday life of everyone."

### Afnor definition

## IEC international standards

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).

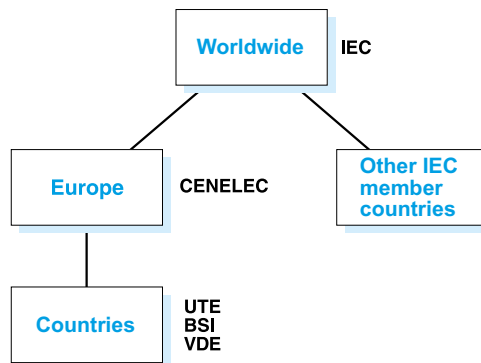
### Other IEC member countries

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.

### 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.

### Low voltage installation standards

The set of IEC 60364 standards defines the main principles and rules for the design and the mounting of the electrical installation:

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

### Switchgears standards

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

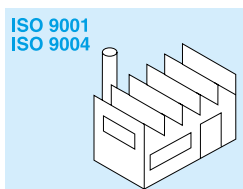
- standards on low voltage switchgear and controlgear:
  - IEC 60947-1: general rules
  - IEC 60947-2: circuit breakers
  - IEC 60947-3: switches and disconnectors
  - IEC 60947-4: contactors
  - IEC 60947-7-1: terminal blocks for copper conductors
  - IEC 62208: empty enclosures.
- The IEC 61439 switchboard standard:
  - characterizes the electrical switchboard and specifies the design, construction and verification rules
  - describes in detail all low voltage switchgear and controlgear: definitions, technical characteristics, conditions of use, and construction and verification requirements
  - applies to power switchgear and controlgear assemblies (PSC assemblies) whose rated voltage does not exceed 1000 V in alternating current or 1500 V in direct current.

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.

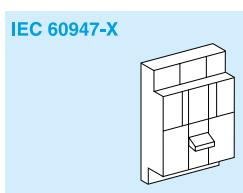
> More informations in [pages B-8 to B-11](#).



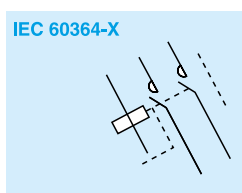
Design and manufacture.



Switchgear and controlgear assemblies.



Switchgear and controlgear.



Installation.



### Enclosure standards

Standard IEC 62208 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 IEC 62208

- 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 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 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 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.





## Standards

Schneider Electric enclosures comply with standard IEC 62208 for empty enclosures. The sheet metal used for Schneider Electric enclosures receives an anti-corrosion epoxy electrophoresis treatment and a coating of a thermosetting, polyester-resinmodified 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 cubicles

Floor-standing enclosure	64 kg
Wall-mounted enclosure	48 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 <sup>(1)</sup>	> 1 kg/50 cm	(ISO 6272)
Mandrel bending test <sup>(2)</sup>	< 10 mm	(ISO 6860)
Persoz hardness	300 s	(ISO 1522)

## 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.

## 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).

(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.



### 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.

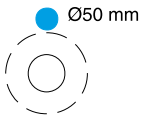
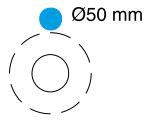
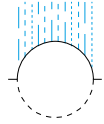
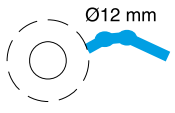
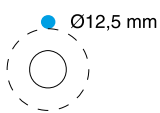

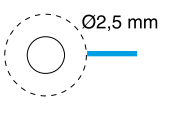
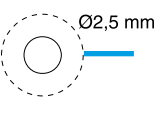
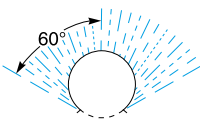
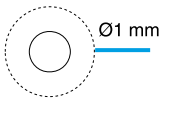
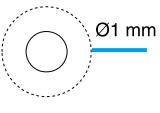
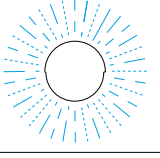
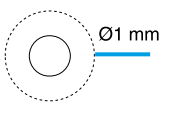
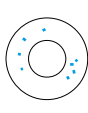
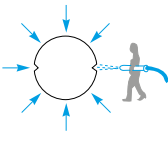
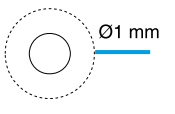
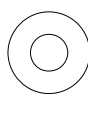
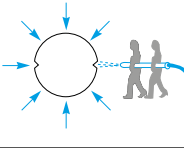
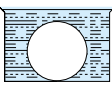
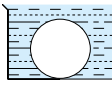
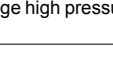
### IP code

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.

1st numeral Protection of persons		Protection against ingress of solid objects		2nd numeral Protection against ingress of water	
<b>1</b>	Protected against access with back of hand 	Protection against solid foreign objects larger than 50 mm 	<b>1</b>	Protected against vertically dripping water (condensation) 	
<b>2</b>	2 Protected against access with a finger 	Protection against solid foreign objects larger than 12.5 mm 	<b>2</b>	Protected against dripping water up to 15° from vertical 	
<b>3</b>	Protected against access with a tool 	Protection against solid foreign objects larger than 2.5 mm 	<b>3</b>	Protected against spraying water up to 60° from vertical 	
<b>4</b>	4 Protected against access with a wire 	Protection against solid foreign objects larger than 1 mm 	<b>4</b>	Protected against splashing water from all directions 	
<b>5</b>	Protected against access with a wire 	Protected against dust (dust protected) 	<b>5</b>	Protected against water jets from all directions 	
<b>6</b>	Protected against access with a wire 	Dust tight 	<b>6</b>	Protected against powerful water jets from all directions 	
			<b>7</b>	Protected against the effects of temporary immersion in water 	
			<b>8</b>	Protected against the effects of continuous immersion in water 	
			<b>9</b>	Protected against close-range high pressure, high temperature spray downs 	



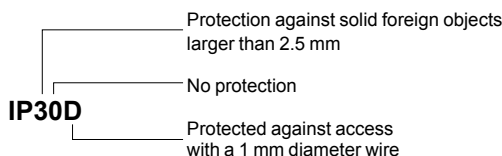
### Additional letter

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	A Protected against access with back of hand
B	B Protected against access with a 12 mm diameter finger
C	C Protected against access with a 2.5 mm diameter tool
D	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-mount enclosure is suitable for an environment that requires a minimum degree of protection IP21. However an IP30 wall-mount 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



# 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 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<sup>□</sup>/25<sup>■</sup>), 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 IP43/IK08 degrees of protection and are therefore suitable for this application.

Type of premises	Enclosures					
	Wall-mounted enclosure	without door	with door (1)	with door + canopy (1)	with door + canopy + gasket (1)	IP55
	Floor-standing enclosure	without door	with door (1)	with door + canopy (1)	with door + canopy + gasket (1)	
Min. IP/IK required	IP30/IK07	IP40/IK08 - IK10	IP41/IK08 - IK10	IP43/IK08 - IK10	IP55/IK10	
IP	IK					
<b>Domestic or comparable premises or locations</b>						
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				■

N/A

(1) IK08 with transparent door, IK10 with plain door.



## Selection of enclosures according to the premises

## Enclosure characteristics

Type of premises		Enclosures					
		Wall-mounted enclosure	without door	with door (1)	with door + canopy (1)	with door + canopy + gasket (1)	IP55
		Floor-standing enclosure	without door	with door (1)	with door + canopy (1)	with door + canopy + gasket (1)	IP55/IK10
		Min. IP/IK required	IP30/IK07	IP40/IK08 - IK10	IP41/IK08 - IK10	IP43/IK08 - 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				■
<b>Commercial premises and adjoining areas</b>							
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, secondhand)		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 <sup>2</sup> /08 <sup>2</sup>		■		
Vintners, spirits		20	07	■			
Interior decorator (carding)		50	07				■
Tailors, clothing retailers (storage area)		20	02	■			
Pet care		35	07				■

N/A

(1) IK08 with transparent door, IK10 with plain door.

## Selection of enclosures according to the premises

## Enclosure characteristics

Type of premises		Enclosures					
		Wall-mounted enclosure	without door	with door (1)	with door + canopy (1)	with door + canopy + gasket (1)	IP55
		Floor-standing enclosure	without door	with door (1)	with door + canopy (1)	with door + canopy + gasket (1)	
		Min. IP/IK required	IP30/IK07	IP40/IK08 - IK10	IP41/IK08 - IK10	IP43/IK08 - IK10	IP55/IK10
		IP	IK				
<b>Buildings open to the general public</b>							
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						
	halls	20	02/07	■			
	stage areas	20	08		■		
M	scenery storage rooms	20	08		■		
	costume rooms	20	07	■			
	Retail premises, shopping malls						
	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						
	classrooms	20	02	■			
	dormitories	20	08		■		
S	Libraries and documentation centres						
		20	02	■			
T	Exhibitions						
	halls and rooms	20	02	■			
	areas for reception of equipment and merchandise	20	07	■			
U	Healthcare establishments						
	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 <sup>□</sup> /23 <sup>■</sup>	02 <sup>□</sup> /07 <sup>■</sup>			■	
V	Places of worship	20	02	■			
W	Administrative premises, banks	20	02	■			
X	Indoor sports facilities						
	halls	20	07 <sup>□</sup> /08 <sup>■</sup>		■		
	premises containing refrigeration facilities	21	08	□		■	
Y	Museums	20	02	■			
PA	Covered open air facilities	23 <sup>□</sup> /25 <sup>■</sup>	08 <sup>□</sup> /10 <sup>■</sup>				■
CTS	Marquees and tents	44	08			□	■
SG	Inflatable structures	44	08				■
PS	Covered parking lots	21	08 <sup>□</sup> /10 <sup>■</sup>				■

(1) IK08 with transparent door, IK10 with plain door.

## Selection of enclosures according to the premises

## Enclosure characteristics

Type of premises	Enclosures					
	Wall-mounted enclosure	without door	with door (1)	with door + canopy (1)	with door + canopy + gasket (1)	IP55
	Floor-standing enclosure	without door	with door (1)	with door + canopy (1)	with door + canopy + gasket (1)	IP55/IK10
	Min. IP/IK required	IP30/IK07	IP40/IK08 - IK10	IP41/IK08 - IK10	IP43/IK08 - IK10	
	IP	IK				
<b>Technical premises</b>						
Battery rooms	23	02/07				■
Lifts (machine rooms and pulley rooms)	20	07 <sup>□</sup> /08 <sup>■</sup>	□	■		
Electrical rooms	20	07	■			
Control rooms	20	02	■			
Workshops	21 <sup>□</sup> /23 <sup>■</sup>	07 <sup>□</sup> /08 <sup>■</sup>			□	■
Laboratories	21 <sup>□</sup> /23 <sup>■</sup>	02 <sup>□</sup> /07 <sup>■</sup>			□	■
Air conditioning washers	24	07				■
Garages (used exclusively for parking vehicles) of an area not exceeding 100 m <sup>2</sup>	21	07			■	
Machine rooms	31	07/08			■	
Water pressurisers	23	07/08				■
<b>Boiler houses and adjoining premises (power in excess of 70 kW)</b>						
Boiler rooms	coal fuel	51 <sup>□</sup> /61 <sup>■</sup>	07 <sup>□</sup> /08 <sup>■</sup>			□
	other fuel	21	07/08		■	
	electrical	21	07/08		■	
Fuel storage areas	coal	50 <sup>□</sup> /60 <sup>■</sup>	08			□
	oil	20	07 <sup>□</sup> /08 <sup>■</sup>	□	■	
	liquefied gas	20	07 <sup>□</sup> /08 <sup>■</sup>	□	■	
Cinder tips	50	08				■
Pump rooms	21 <sup>□</sup> /23 <sup>■</sup>	07 <sup>□</sup> /08 <sup>■</sup>			□	■
Pressure reduction rooms (gas)	20	07 <sup>□</sup> /08 <sup>■</sup>	□	■		
Steam or hot water facilities	21 <sup>□</sup> /23 <sup>■</sup>	07 <sup>□</sup> /08 <sup>■</sup>			□	■
Expansion vessel rooms	21	02			■	
<b>Garages and car parks of an area exceeding 100 m<sup>2</sup></b>						
Parking lots	21	07 <sup>□</sup> /10 <sup>■</sup>			□	■
Carwash areas (inside premises)	25	07				■
Petrol stations	inside	21	07		■	
	outside					
Lubrication areas	23	08				■
Battery recharging areas	23	07				■
Workshops	21	08			■	
<b>Public building (other than for the general public)</b>						
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 <sup>□</sup> /08 <sup>■</sup>	□	■		
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	■			

N/A

(1) IK08 with transparent door, IK10 with plain door.

## Selection of enclosures according to the premises

## Enclosure characteristics

Type of premises	Enclosures					
	Wall-mounted enclosure	without door	with door (1)	with door + canopy (1)	with door + canopy + gasket (1)	IP55
	Floor-standing enclosure	without door	with door (1)	with door + canopy (1)	with door + canopy + gasket (1)	
	Min. IP/IK required	IP30/IK07	IP40/IK08 - IK10	IP41/IK08 - IK10	IP43/IK08 - IK10	IP55/IK10
	IP	IK				
<b>Industrial facilities</b>						
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 <sup>□</sup> /33 <sup>■</sup>	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 <sup>□</sup> /34 <sup>■</sup>	08				■
Printworks	20	08				■

(1) IK08 with transparent door, IK10 with plain door.

## Selection of enclosures according to the premises

## Enclosure characteristics

Type of premises	Enclosures					
	Wall-mounted enclosure	without door	with door (1)	with door + canopy (1)	with door + canopy + gasket (1)	IP55
	Floor-standing enclosure	without door	with with door (1)	with door + canopy (1)	with door + canopy + gasket (1)	
	Min. IP/IK required	IP30/IK07	IP30/IK07	IP41/IK08 - IK10	IP43/IK08 - IK10	IP55/IK10
	IP	IK				
<b>Industrial establishments (continued)</b>						
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 <sup>□</sup> /33 <sup>■</sup>	08			□	■
Combustion engines (testing of)	30	08		■		
Ammunition storage	33	08				■
Nickel (ore processing)	33	08				■
Household waste (processing)	54	07				■
Paper (production)	33 <sup>□</sup> /34 <sup>■</sup>	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 <sup>□</sup> /50 <sup>■</sup>	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			■	

(1) IK08 with transparent door, IK10 with plain door.

## Selection of enclosures according to the premises

## Enclosure characteristics

Type of premises	Enclosures					
	Wall-mounted enclosure	without door	with door (1)	with door + canopy (1)	with door + canopy + gasket (1)	IP55
	Floor-standing enclosure	without door	with door (1)	with door + canopy (1)	with door + canopy + gasket (1)	
	Min. IP/IK required	IP30/IK07	IP40/IK08 - IK10	IP41/IK08 - IK10	IP43/IK08 - IK10	IP55/IK10
	IP	IK				
<b>Farm premises or locations</b>						
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				■
<b>Miscellaneous installations</b>						
Fair facilities	33	08			■	
Water treatment facilities	24/25	07/08				■
<b>Thermodynamic installations, air-conditioned rooms and cold rooms</b>						
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	21	08		■	
	integral unit located outside or on a terrace	34	08			

N/A

(1) IK08 with transparent door, IK10 with plain door.

# 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.

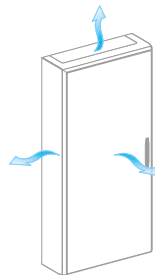
### Management of the internal temperature

#### Cooling

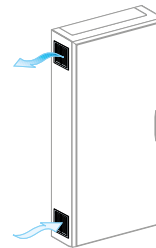
There are a number of way to dissipate heat from the switchboard.

The drawings below present the various means.

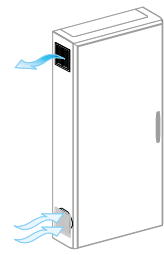
#### Convection



IP > 31  
Ensured naturally in Prisma enclosures.

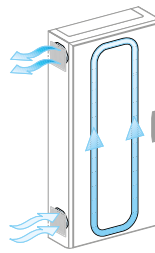


IP ≤ 31



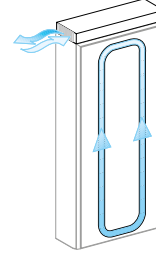
IP ≤ 54  
Using fans, it significantly increases the thermal capacity of an enclosure.

#### 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 resistorbased heater, used to:

- avoid condensation by limiting variations in temperature
- ensure that the switchboard does not freeze.

# Thermal management of switchboards

## General

### Thermal characteristics

#### 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

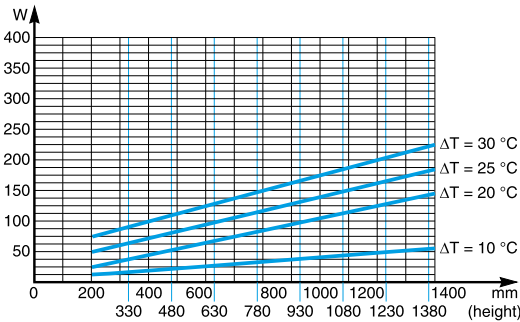
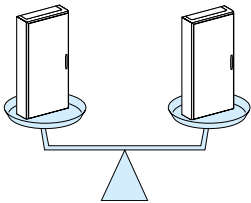
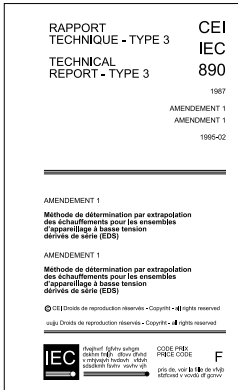
A number of qualified and tested configurations serve as the basis for indicating the thermal capacity of Prisma enclosures.

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-mount enclosures, floor-standing enclosures and cubicles.





# 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.

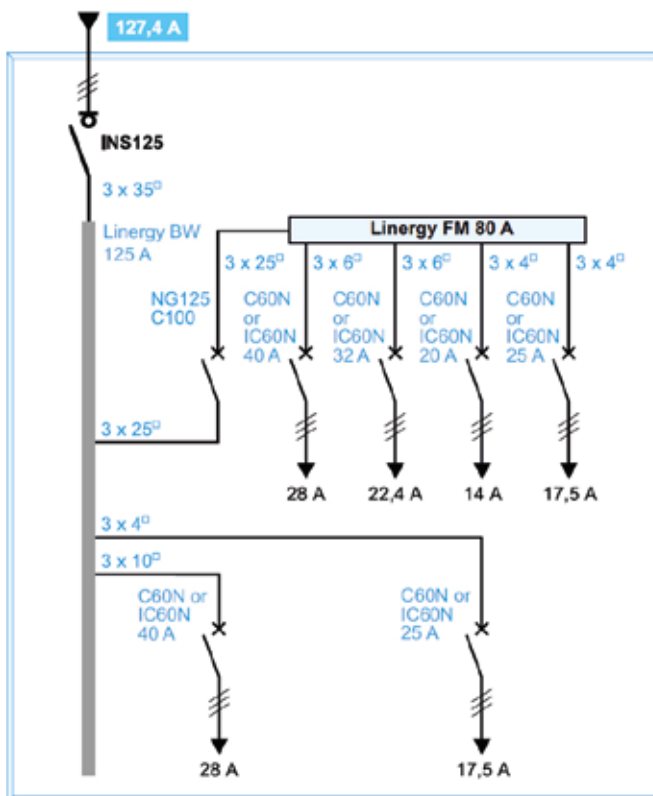
#### Pack enclosure, 3 rows, IP30

Diversity factor: 0.7

Ambient temperature around the switchboard:

35 °C

P(W) = 95 W

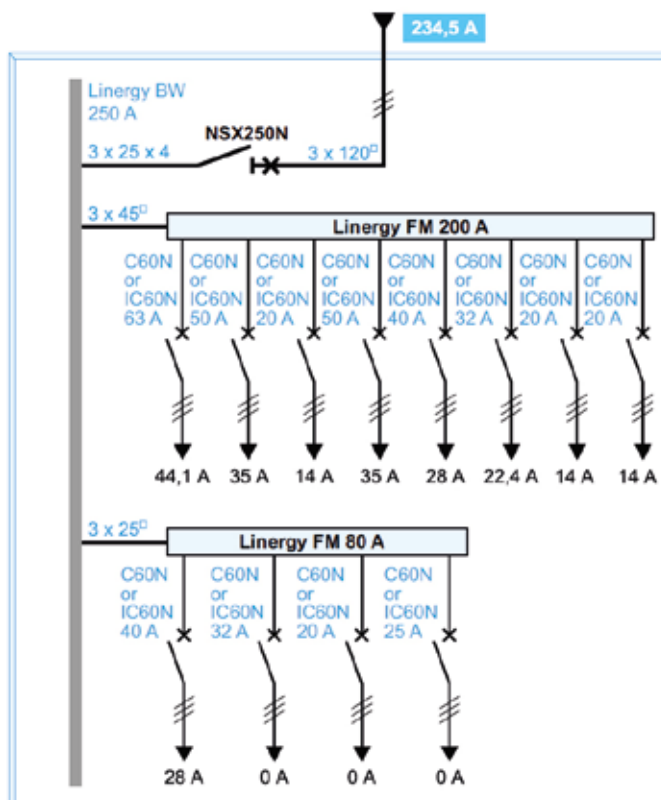


#### Wall-mounted enclosure, 23 modules, IP30/IP4X

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:

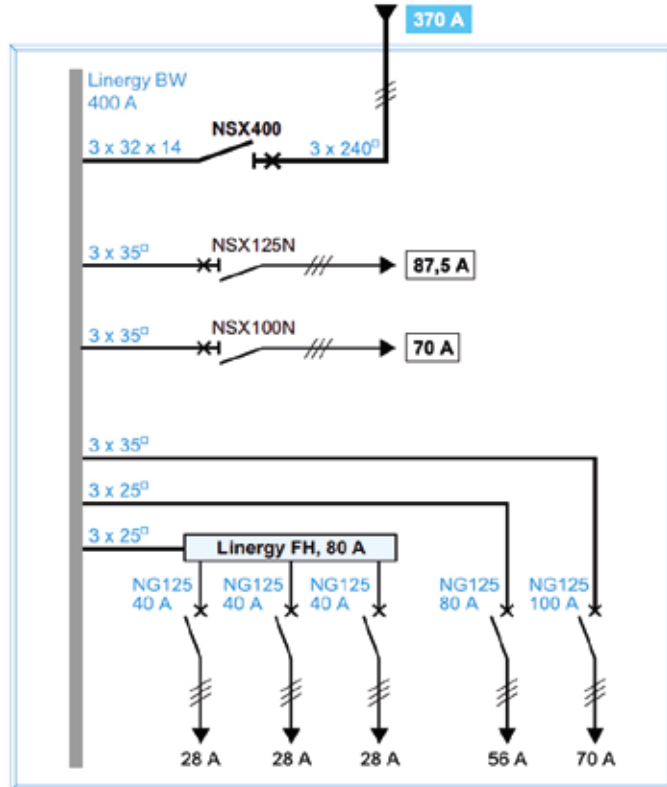
- the volume of the enclosure is greater than that of the tested enclosure with a similar assembly
- the P(W) of the installed assembly is less than the P(W) of the tested configuration in the same size enclosure.

**Wall-mounted enclosure, 23 modules, plain door, IP30/IP4X**

Diversity factor: 0.7

Ambient temperature around the switchboard: 35 °C

P(W) = 200 W

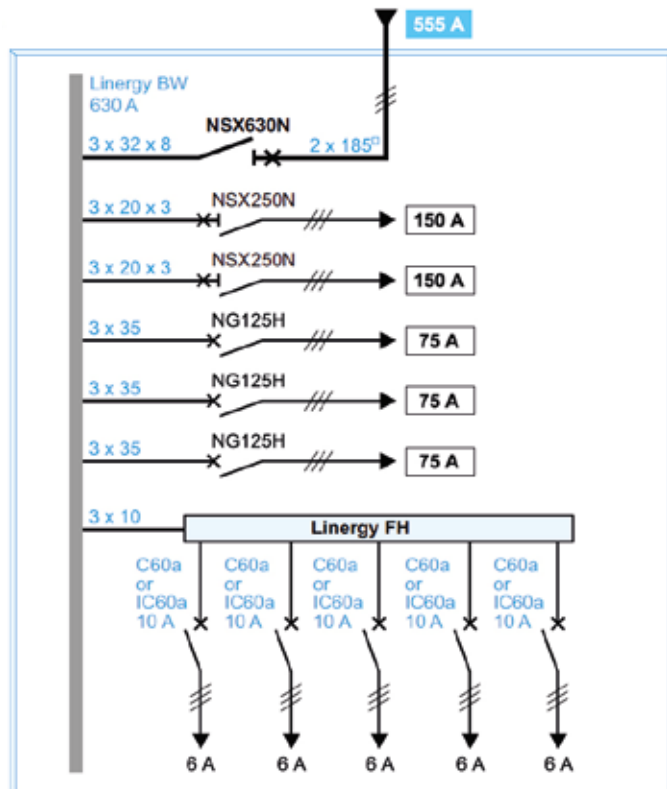


**Floor-standing enclosure, 33 modules, IP30/IP4X**

Diversity factor: 0.7

Ambient temperature around the switchboard: 35 °C

P(W) = 270 W

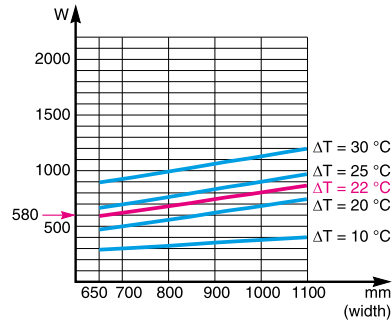


## Thermal management of switchboards

## 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 °C + 22 °C = 57 °C

57 °C < 60 °C stipulated by the standard, i.e. the result is acceptable for an IP30/IP4X all-mounted and floor-standing enclosures.

This gives roughly:

Internal temperature = 60 °C at mid-height in the enclosure for a low IP value.  
 = 70 °C at mid-height in the enclosure for a high IP value.

# Thermal management of switchboards

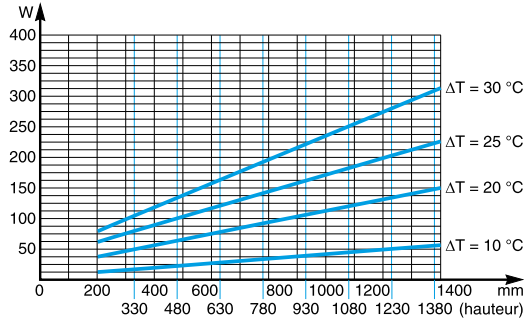
## Charts

### Thermal characteristics

#### Quick calculation charts for internal temperatures

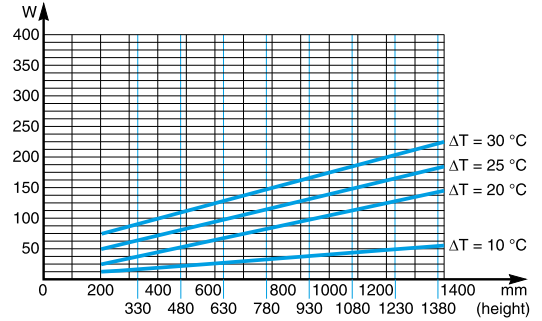
The indicated internal heat rise is that measured at mid-height in the enclosure.

**IP3X wall-mounted enclosure**



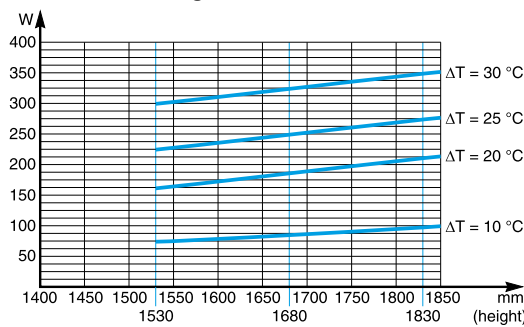
**Test conditions:**  
600 mm wide enclosure mounted directly on wall without fixing lugs.

**IP43 wall-mounted enclosure**



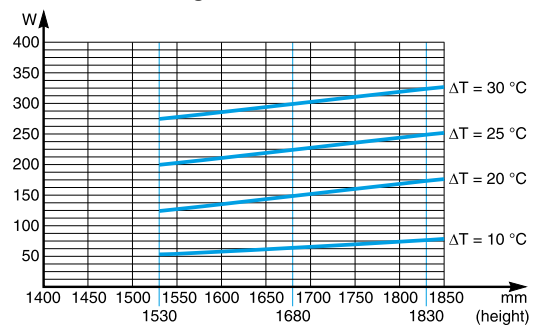
**Test conditions:**  
600 mm wide enclosure mounted directly on wall without fixing lugs.

**IP3X floor-standing enclosure**



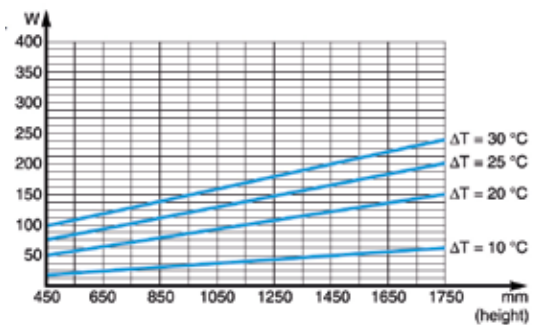
**Test conditions:**  
600 mm wide enclosure on floor against a wall.

**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  $\Delta T$  is equal to 60 - 50 = 10 °C.

The exposed surface of the cubicle (non adjacent to a wall or other cubicle) is 4.46 m<sup>2</sup>.

(back = 1.3 m<sup>2</sup>, front = 1.3 m<sup>2</sup>, roof = 0.26 m<sup>2</sup>, side panels = 1.6 m<sup>2</sup>).

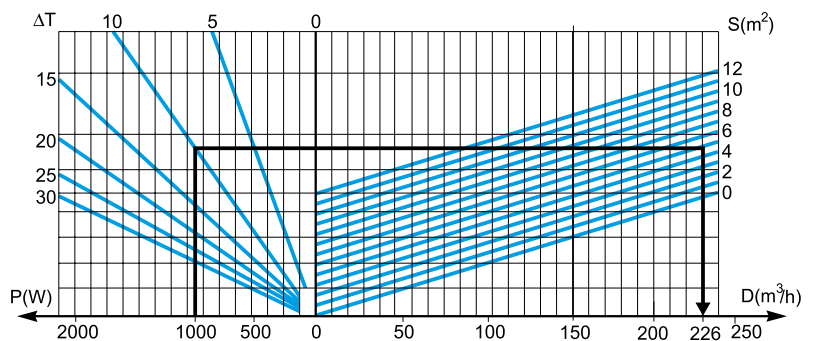
What is the necessary throughput of the ventilation system?

The throughput can be calculated as:

$$D = 3,1 \times \left( \frac{1000}{10} - 5,5 \times 4,46 \right)$$

$D = 234 \text{ m}^3/\text{h}$ .

In the range of Prisma accessories, select a system with a throughput of 300 m<sup>3</sup>/h.



## Calculation data

**P** : power dissipated by the devices, connections and busbars (in Watts)

**P<sub>r</sub>** : power of the heating resistor (in Watts)

**T<sub>m</sub>** : maximum internal temperature in the device zone (in °C)

**T<sub>i</sub>** : average internal temperature (in °C)

**T<sub>e</sub>** : average external temperature (in °C)

$$\Delta T_m = T_m - T_e$$

$$\Delta T_i = T_i - T_e$$

**S** : total free surface area of the enclosure (expressed in m<sup>2</sup>)

**K** : thermal-conduction coefficient of the material (W/m<sup>2</sup> °C)

$K = 5.5 \text{ W/m}^2 \text{ °C}$  for painted sheet metal

**D** : ventilation throughput (in m<sup>3</sup>/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

### Thermal characteristics

#### Switchboard heating

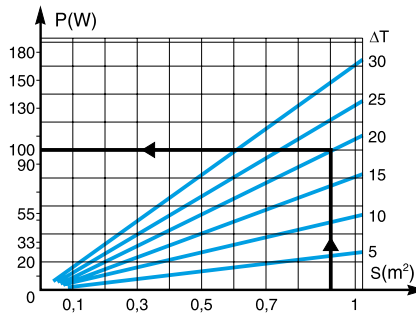
The heating resistor, placed in the bottom of the switchboard, maintains the internal temperature 10 °C higher than the external temperature.

When the switchboard is not in operation, the heater compensates the dissipated power normally emitted by the switchboard.

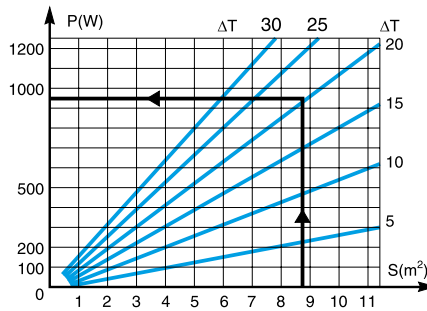
The power of the heating resistor is calculated:

- 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**



**Calculation data**

**P** : power dissipated by the devices, connections and busbars (in Watts)

**P<sub>r</sub>** : power of the heating resistor (in Watts)

**T<sub>m</sub>** : maximum internal temperature in the device zone (in °C)

**T<sub>i</sub>** : average internal temperature (in °C)

**T<sub>e</sub>** : 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.

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