



Prisma G

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



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Electric



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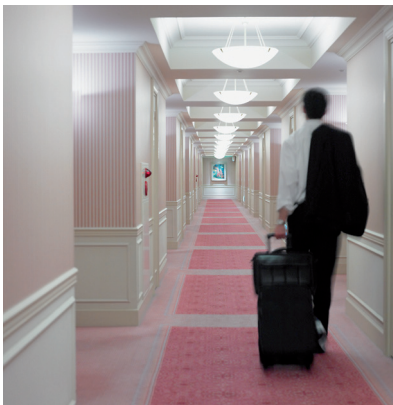
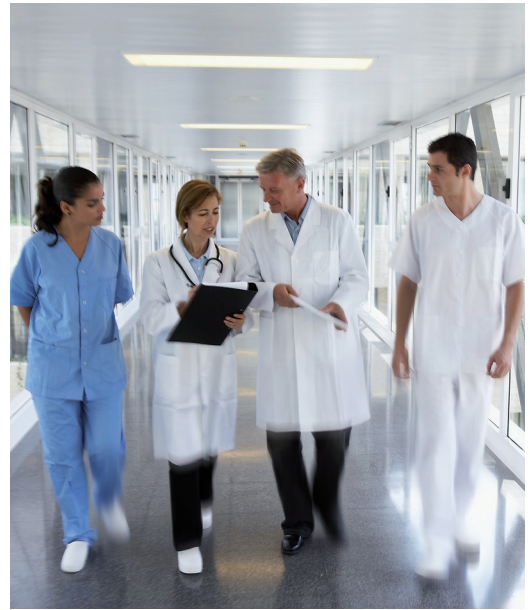
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To respond to increasing building requirements



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.

4000 A

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.

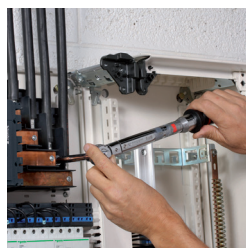


Simple gestures for cabling in the workshop



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.

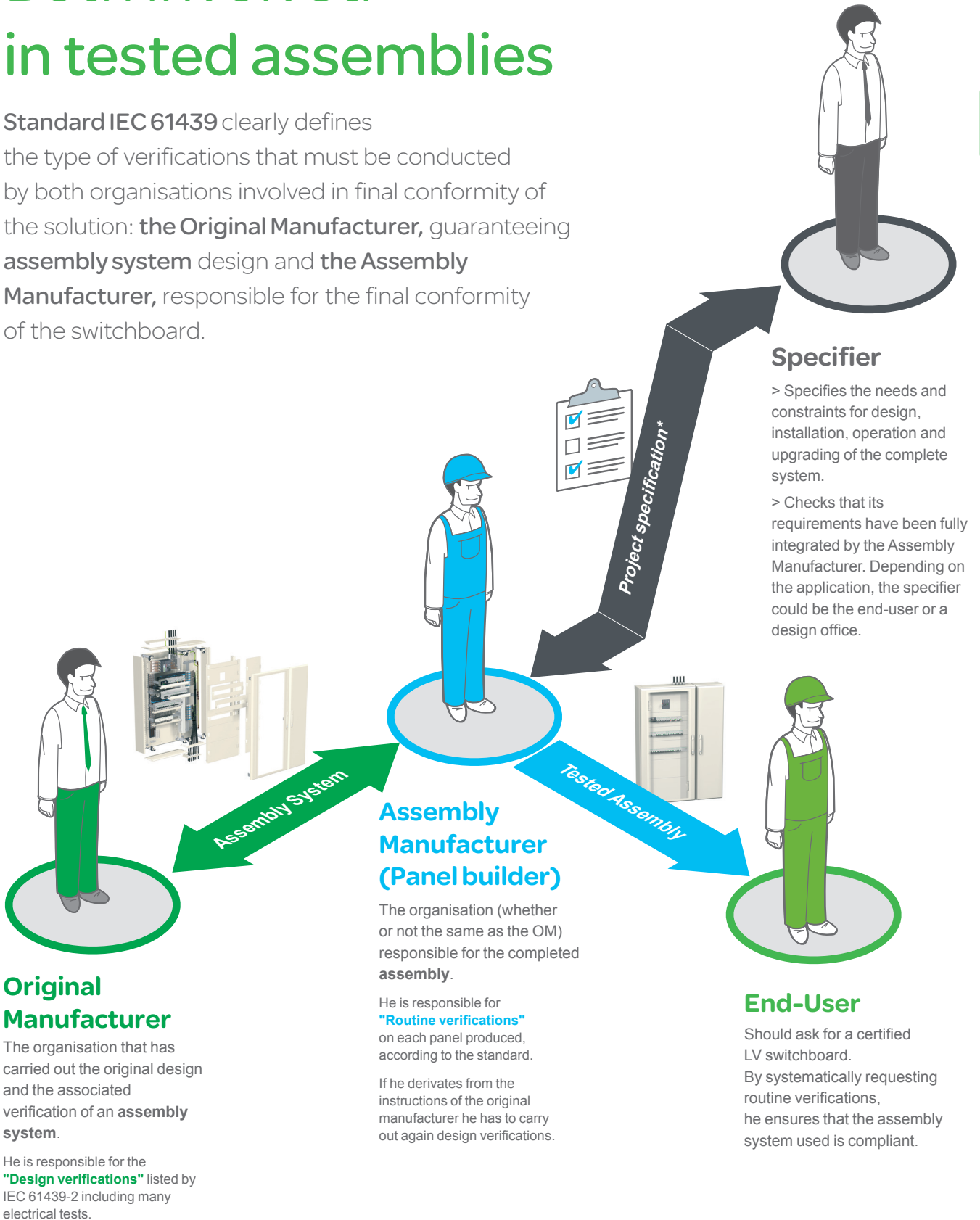
Schneider Electric makes available to the panelbuilder everything required to create tested Prisma switchboards, including the basic configurations in the low voltage distribution catalogue, all the documentation for switchboard design and mounting, calculation and design software, etc.

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, 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.



* Schneider Electric has developed a specification guide.

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)

B

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:

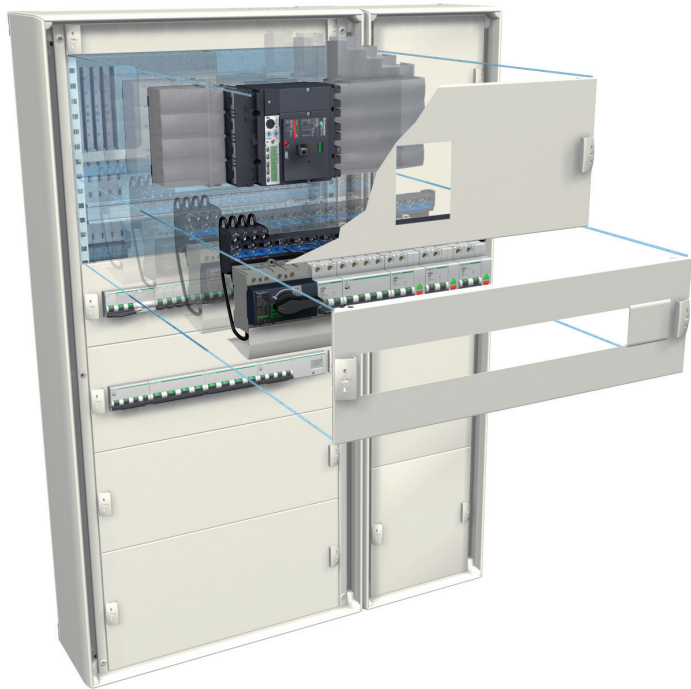
.....

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.

PB113427.eps



PD090228_SE_2013.eps



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.

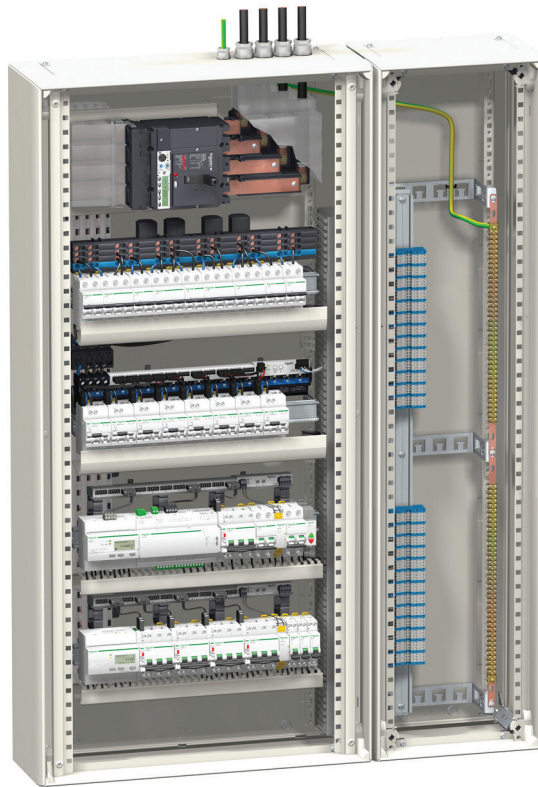
To increase the safety of personnel, devices are installed behind protective front plates; only the operating handles are accessible.

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.

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.

PB115632_73_695



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
- short-circuit current Icc: 70 kA
- frequency: 50/60 Hz

B



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.



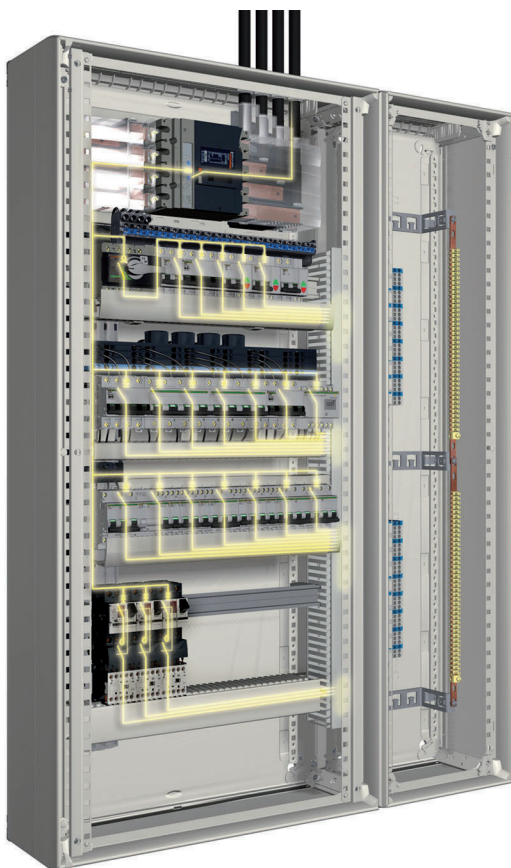
Readily available close by

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 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 INS-INV40/160 switch disconnecter



Presentation

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

Made of an aluminium alloy with a magnetic 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

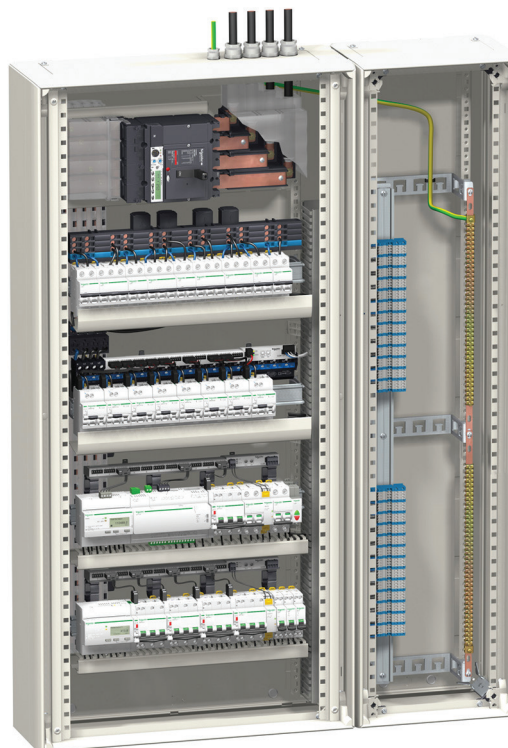
Supply to the rows, using Linergy FH comb busbars or Linergy FM distribution systems via:

- > 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.

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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 pages D-12, D-13

Linergy DS screw distribution blocks

- > See page D-14



Cable running

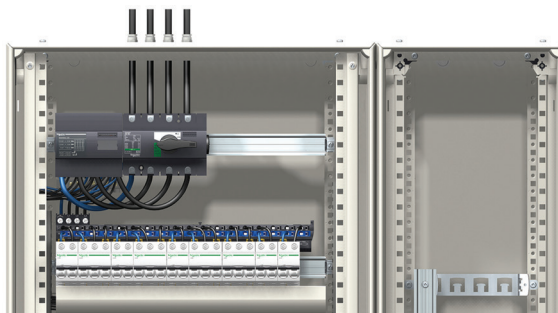
Straps

- > 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.

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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, and helps in securing 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 up to 160
> page C-4



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



Compact INS-INV 40 to 60
> page C-36



Source changeover systems
Compact NSX
> page C-30



Source changeover systems
Compact INS-INV
> page C-31



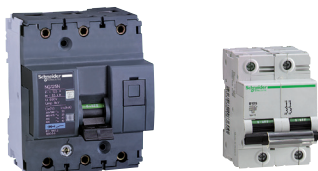
Fupact INF from 32 to 160 A
> page C-32



Fupact ISFT from 160 to 250 A
> page C-34



NG125, INS-INV40 to 160,
C120 - Acti 9
> page C-36



Industrial control switchgears, metering
> page C-40
Human-switchboard interface
> page C-42



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.

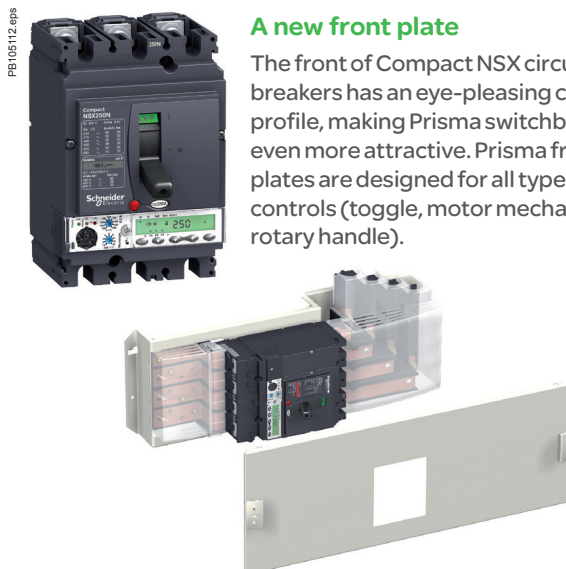
Installation times have also been reduced with respect to system with current transformers.

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.

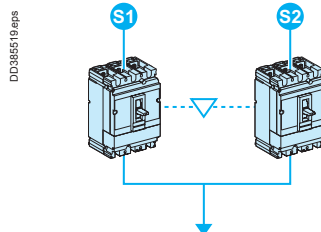
A mechanical and/or electrical interlocking system between two Compact switch-disconnectors or circuit breakers (or a mixture) avoids simultaneous connection of the two sources during switching.

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 of Fupact fusegear for Prisma G



Presentation

Whatever the switchboard configuration, Prisma range offers tested and certified solution guaranteeing the safety of life and properties.

2 families of Fupact fusegears

Fupact INF

Fupact INF ensures your power application for:

- > distribution switchboards
- > disconnection, isolation, locking and primary control of incoming circuits
- > emergency stop,
- > motor feeders (protect motors against single-phasing).

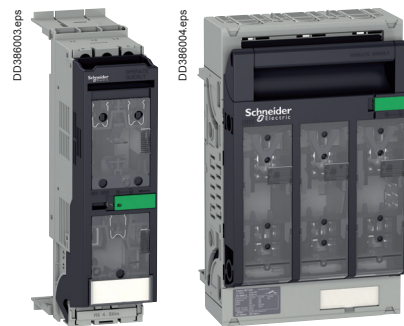
Fupact fusegears have a test position for greater flexibility, easy to use.



Fupact ISFT

Fupact ISFT fuse-switch disconnectors are particularly suited for:

- > secondary distribution circuits
- > powering and control of industrial motors as local isolation device.



Installation

- > Fupact fusegears have dedicated mounting plates and front plates.
- > The upstream and downstream connections are made by the panelbuilder.
- > Vertical mounting allows to install several Fupact fusegears.

Positioning and mounting of the devices in the switchboard and filling rate of it take into account temperature rise, withstand short-circuit capacities, isolation clearances.





Presentation

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

Robust performance that can withstand even the most severe environments.



Metal_Green-010-CM,IN.psd

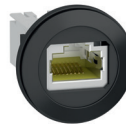
A touch of style electrical panels and machines.

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



XBE_633_CPSC16029A.eps



XBE_633_CPSC16027B.eps



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 22mm 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.

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.

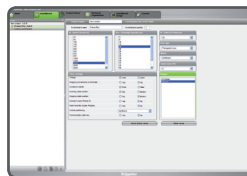
More flexibility since
modifications and
upgrades are
possible throughout
the project.



B

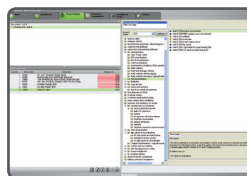
5 easy steps to design a switchboard

1



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

2



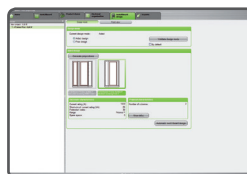
Choose and configure the devices to be installed, with no risk of error.

3



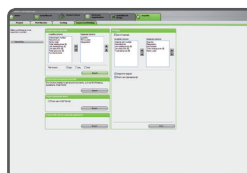
Customise, and easily modify the single-line diagram.
Move or duplicate devices.
Generate current distribution and connection systems.

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-INV 160 A

Incoming cables via top

Distribution

Linery DX distribution block 4P

Outgoing devices

Acti 9 devices

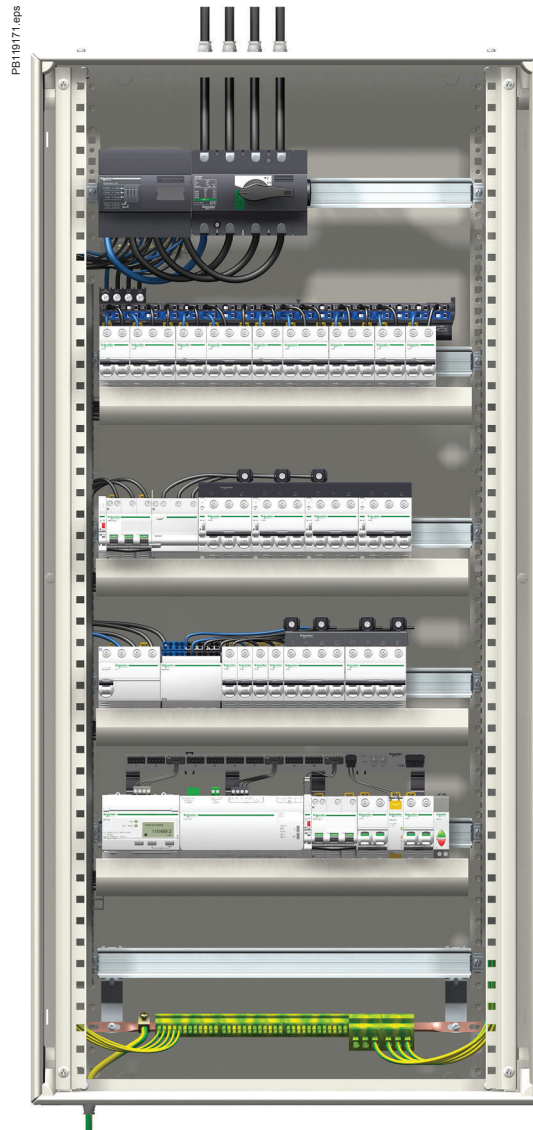
Supply Linery FM distribution block +
Linery FH comb busbar

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



Incomer

Compact NSX250

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

Distribution

Linergy BW rear busbar

Outgoing devices

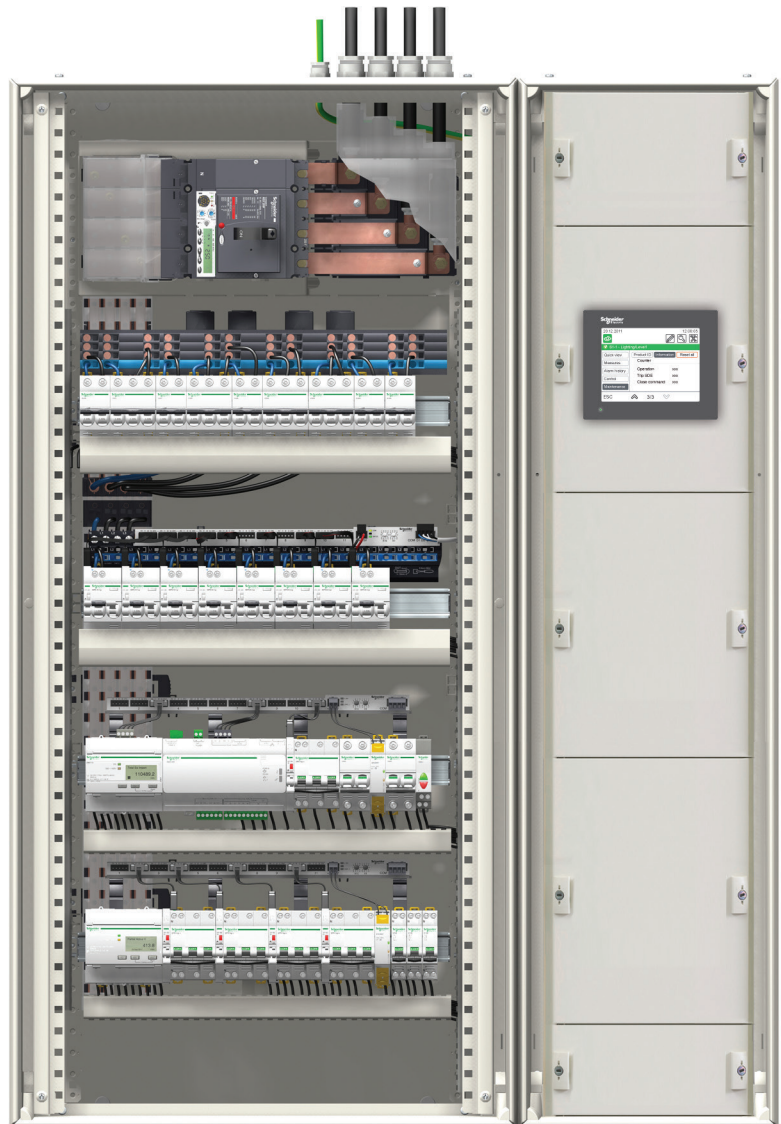
Acti 9 + NG160 devices

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

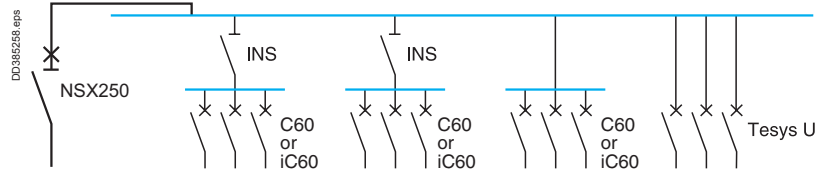
IP30/IP4X enclosure

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

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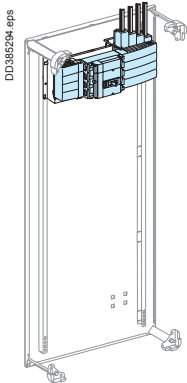


Starting with the electrical diagram: IP30/IP4X switchboard



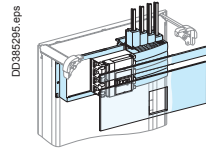
Install the incomer

> see page C-4

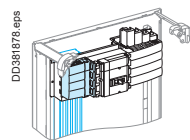


- order the mounting plates and the front plates
- the incoming connection block
- the power supply block for the Linergy BW busbars.

1 Installation / connection



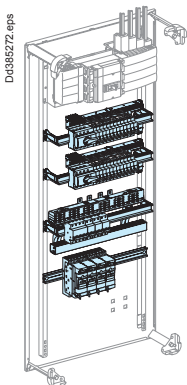
2 Distribution using Linergy BW busbars



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

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

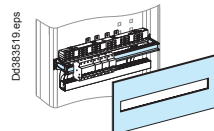
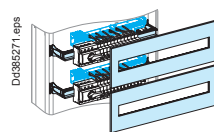
Install the modular devices



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

1 Acti 9

> see page C-36

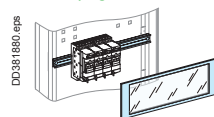


Device	No. of vertical modules	Modular rail	Modular front plate
All Multi 9 or Acti 9 devices			
All supply systems (Linergy FH) with cable straps and trunking sections	4	03001	03204
Multi 9 or Acti 9 devices y 40 A			
Supply via 63/80 A Linergy FM or Linergy FH with cable straps	3	03001	03203

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

2 TeSys "U"

> see page C-40



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

- Linergy FM distribution block > see page D-16
- Cable running > see page C-41

Determine the size of the switchboard

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

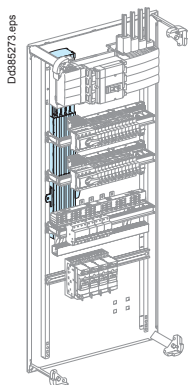
19 modules

21 modules

Plain front plate
> see page C-54

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

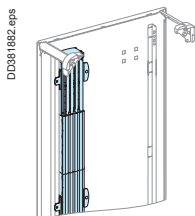
Plan the distribution system



DD381892.eps

Linery BW busbars

> see page D-4



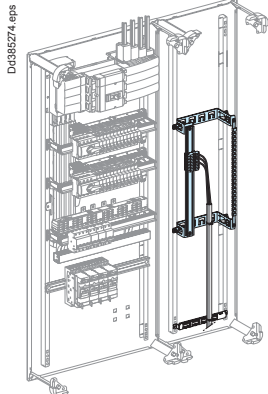
DD381892.eps

Linery 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

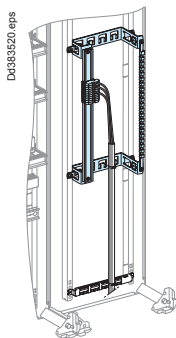


Select the Linery TR terminal blocks and the Linery TB earth bar

> see page D-23, page D-24



DD381892.eps

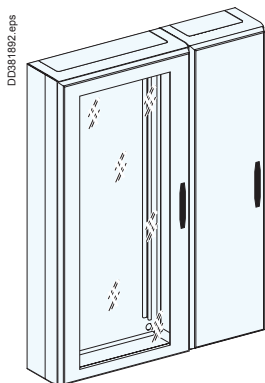


DD381892.eps

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

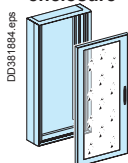
Select the enclosures

> see page E-4



DD381892.eps

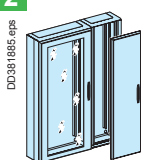
1 IP wall-mount enclosure



DD381894.eps

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

2 Duct, W = 300 mm



DD381895.eps

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

3 Cable tie supports

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

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



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

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- 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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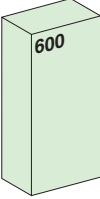
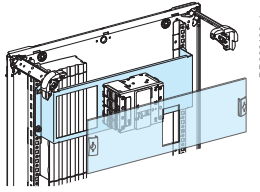
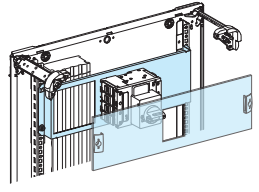
Accessories

Installation accessories **C-57**

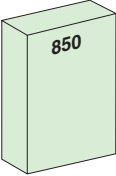
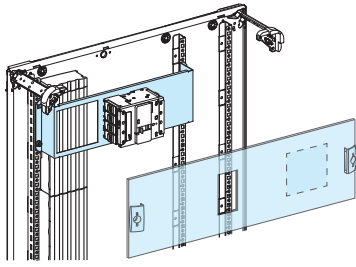
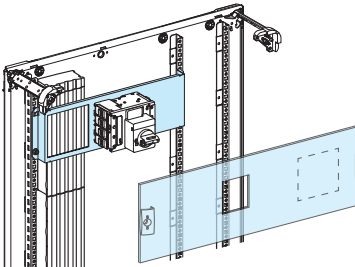
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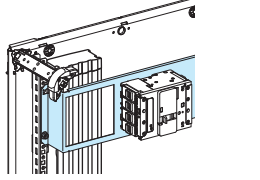
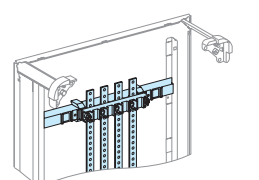
Compact and Compact Vigi (ELCB) NSXm up to 160
Horizontal mounting - Fixed - Toggle / Rotary handle
W600 - W850

Circuit breakers


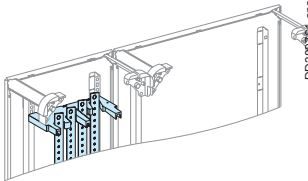
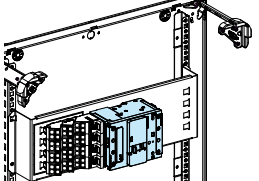
Mounting	W600 Horizontal - Fixed - Toggle		W600 Horizontal - Fixed - Rotary handle
			
Devices	NSXm	NSXm Vigi (ELCB)	NSXm
Number of devices per row	1	1	1
Nb. of vertical modules	3	3	3
Mounting plates	03020	03020	03021
Front plates with cut-out [Nb. of vertical modules]	03330 [3]	03330 [3]	03331 [3]
Long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

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

Mounting	W850 Horizontal - Fixed - Toggle		W850 Horizontal - Fixed - Rotary handle
			
Devices	NSXm	NSXm Vigi (ELCB)	NSXm
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
Collar			

Downstream distribution	Insulated Linergy BW busbars	Rear Linergy BS busbars
		
Busbars	Linergy BW > page D-4	04191 + copper bars > page D-6
Prefabricated connection	04021, 04145, 04146, 04148	04030

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

Downstream distribution	Linergy BS multi-stage busbars	Linergy DP
		
Busbars / Distribution block	04192 + copper bars > pages D-7, D-8	04038, 04039 > page D-13
Prefabricated connection	Connection must be made	

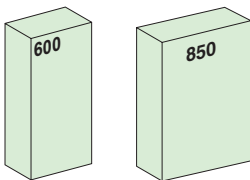
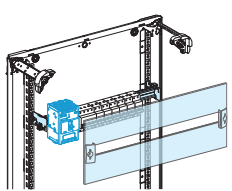
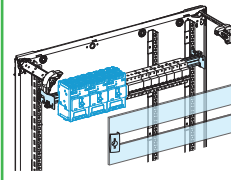
Note: For cable-tie function, add 2 modules above. > page C-51

Compact and Compact Vigi (ELCB) NSXm up to 160

Vertical mounting on modular rail - Toggle

W600 - W850 - W300

Circuit breakers

Mounting	W600 Modular rail - Toggle		W850 Modular rail - Toggle	
				
Devices	NSXm	NSXm Vigi (ELCB)	NSXm	NSXm Vigi (ELCB)
Nb. of vertical modules	5 (1)	5 (2)	5 (1)	5 (2)
Rail (48 modules of 9 mm)	03002 (adjustable) (3)	03002 (adjustable) (3)	03007 (adjustable) (3)	03007 (adjustable) (3)
Modular front plates With cut-out plates [Nb. of vertical modules]	03205 [5]	03205 [5]	03218 [5]	03218 [5]
Blanking plate	Strip	03220	03220	03220
	Divisible	03221	03221	03221

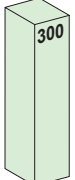
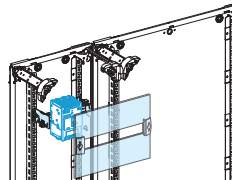
(1) With Linergy DP, the number of vertical modules will be 7 and must be used with downstream front plate; cat no. 03802 for W600 (quantity:1) or cat no. 03851 for W850 (quantity:2).


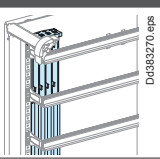
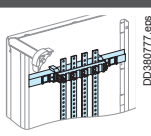
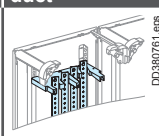
(2) With Linergy DP, the number of vertical modules will be 8 and must be used with downstream front plate; cat no. 03803 for W600 or cat no. 03853 for W850.

(3) Can be completed by a rail (cat no. 04226) + raiser (cat no. 04225) to install modular devices. > page C-48, C55


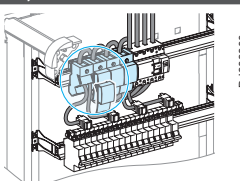
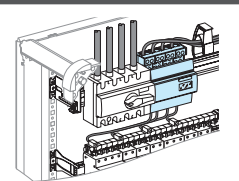
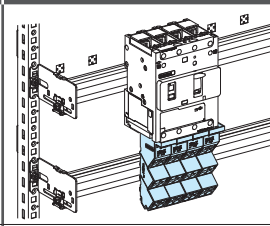
(4) With Linergy DP, the number of vertical modules will be 7 and must be used with downstream front plate; cat no. 03812 for W300.

(5) With Linergy DP, the number of vertical modules will be 8 and must be used with downstream front plate; cat no. 03813 for W300.

Mounting	W300 Modular rail - Toggle	
		
Devices	NSXm	NSXm Vigi (ELCB)
Nb. of vertical modules	6 (1)	6 (2)
Rail (20 modules of 9 mm)	03011 (adjustable)	03011 (adjustable)
Front plate	modular	03214 [4]
[Nb. of vertical modules]	upstream	03811 [1] (4)
	downstream	03811 [1] (5)
Blanking plate	Strip	03220
	Divisible	03221

Downstream distribution	Insulated Linergy BW busbars	Rear Linergy BS busbars	Linergy BS Multi-stage busbars in duct
			
Busbars	Linergy BW > page D-4	04191 + copper bars > page D-6	04192 + copper bars > pages D-7, D-8
Connection	04030, 04145, 04146, 04147, 04148	04145, 04146 (centred device)	Must be made

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

Downstream distribution	Distributionblock Linergy DX 1P, 160 A	Distribution block Linergy DX 4P, 125 A/160 A	Linergy DP, 3P/4P, 160 A	
				
Distribution block	04031 > page C-16	04045 > page C-16	04046 > page C-16	04038, 04039 > page D-13
Connection	04149	04047	included	
Rail				03002 (W600) 03007 (W850) 03011 (W300)

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

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			
Devices		NSX / NSX Vigi (ELCB) 100/250		NSX / NSX Vigi (ELCB) 100/160 (1)	
Number of devices per row		1		1	
Nb. of vertical modules		5		5	
Mounting plates		03030		03030	
Front plates cut-out		03232 [4]		03232 [4]	
[Nb. of vertical upstream modules]		03801 [1]		03801 [1]	
[Nb. of vertical downstream modules]		-		-	
Upstream connection		04066 > page C-46		04067 > page C-46	
Incoming connection block or cables + Long terminal shields					
				3P : LV429517, 4P : LV429518	

Mounting		W600+W300 Horizontal - Fixed - Toggle				W850 Horizontal - Fixed - Toggle			
Devices		NSX / NSX Vigi (ELCB) 100/250				NSX / NSX Vigi (ELCB) 100/250			
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. upstream mod.]		03801 [1]		-		03851 [1]		-	
[Nb. of vert. downstream mod.]		-		03801 [1]		-		-	
With PowerTag NSX		-				-			
Mounting plates		-		03033		-		03033	
Front plates cut-out		-		03334 [4]		-		03335 [4]	
[Nb. of vert. mod.]		-		03334 [4]		-		03335 [4]	
Upstream connection		04066 > page C-46		04067 > page C-46		04066 > page C-46		04067 > page C-46	
Incoming connection block or cables + Long terminal shields									
				3P : LV429517 4P : LV429518				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-46	Connection must be made	
Long terminal shields	-	-	3P : LV429517 4P : LV429518	

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

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

(2) Supplied with connections.

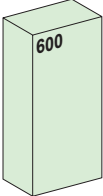
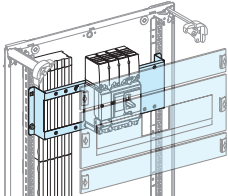
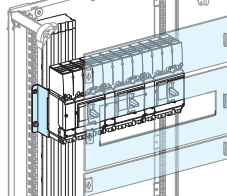


Compact and Compact Vigi (ELCB) NSX 100/160/250


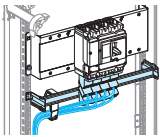
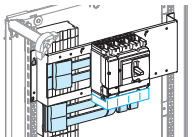
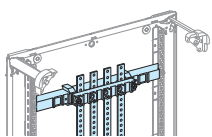
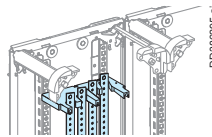
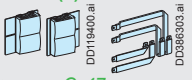


Vertical mounting - Fixed - Toggle

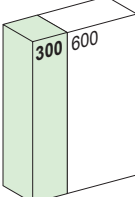
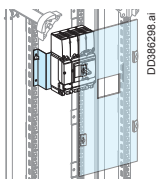

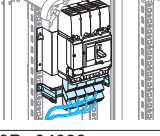
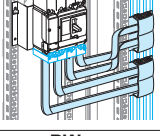
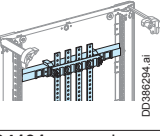
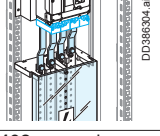




W600 - W300



Designed for PowerTag NSX
Circuit breakers

Mounting	W600 Vertical - Fixed - Toggle	
		
Devices	NSX / NSX Vigi (ELCB) 100/160	
Number of devices per row	1 or 4 x 3P or 3 x 4P	
Nb. of vertical modules	9 or 10	
Mounting plates	03040	
Front plates cut-out	03243 [5]	
[Nb. of upstream vertical modules]	03802 [2]	
[Nb. of downstream vertical modules]	03802 [2]	
downstream with PowerTag NSX	03803 [3]	
Upstream connection		
Long terminal shields	 3P : LV429517 4P : LV429518	
Divisible blanking plates (HxL)	 03220 Compact NSX 3P or 4P without electronic trip unit 03221 Compact NSX 3P or 4P with electronic trip unit	

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-47	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
						
Devices	NSX / NSX Vigi (ELCB) 100/250					
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						
Upstream connection						
Cables + Long terminal shields	3P : LV429517 4P : LV429518 					
Busbars / Distrib blocks	3P : 04033 + 03011 > 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	-		04061 > page C-47	-	-	
Connection	-		04064 > page C-47	Must be made	04065 > page C-48	
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-51

(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	1	1	1	1	
Nb. of vertical modules	4	4	4	4	4	4	4	4	
Mounting plates	03031	03031	03031	03031	03032	03032	03032	03032	
Front plates [Nb. of vert. mod.] cut-out	03232 [4]	03232 [4]	03301 [4]	03301 [4]	03234 [4]	03234 [4]	03290 [4]	03290 [4]	
With PowerTag NSX									
					-	-	-	-	
Front plates [Nb. of vert. mod.] cut-out	03334 [4]	03334 [4]	03335 [4]	03335 [4]	-	-	-	-	
Upstream connection									
Terminal shields		3P : LV429517 4P : LV429518					Plug-in base		Device
							3P : LV429517 4P : LV429518		3P : LV429515 4P : LV429516
+ connection adapter for plug-in base							3P : LV429306 4P : LV429307		

Downstream distribution	Linery DP 250 A distribution block	Linery BW + Power supply block (2)	Rear Linery BS busbars	Linery BS multi-stage busbars
Busbars / Distrib blocks	3P : 04033, 4P : 04034 > 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		04060 > page C-46 	Connection must be made	
Long terminal shields			3P : LV429517 4P : LV429518	

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

- (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 Linery BW. >page D5

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

Vertical mounting - Fixed - Rotary handle

W600 - W300



Designed for PowerTag NSX
Circuit breakers

Mounting		W600 Horizontal - Fixed - Rotary handle (1)	
Devices		NSX / NSX Vigi (ELCB) 100/160	NSX / NSX Vigi (ELCB) 250
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		03041	03041
Front plates	cut-out	03243 [5]	03243 [5]
[Nb. of vertical modules]	upstream	03802 [2]	03804 [4]
	downstream	03802 [2]	03802 [2]
	downstream with PowerTag NSX	03803 [3]	03803 [3]

Upstream connection	
Long terminal shields	3P : LV429517 4P : LV429518
Divisible blanking plates (HxL)	46 x 1000 mm 46 x 90 mm (x4)
	03220 Compact NSX 3P or 4P without electronic trip unit 03221 Compact NSX 3P or 4P with electronic trip unit

Downstream distribution	Lineryg DP 250 A distribution block	Lineryg BW + Power supply block (1)	Rear Lineryg BS busbars	Lineryg BS multi-stage busbars
Busbars / Distrib blocks	3P : 04033 4P : 04034 > page D-12 + 03002	Lineryg 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-47	Connection must be made	
Long terminal shields		3P : LV429515 4P : LV429516	3P : LV429517 4P : LV429518	

Mounting	W300 Vertical - Fixed - Rotary handle	Downstream distribution	Lineryg DP 250 A distribution block in duct	Insulated Lineryg BW busbars (2)	Rear Lineryg BS busbars	Lineryg BS multi-stage busbars or multi-stage distribution block
Devices	NSX / NSX Vigi (ELCB) 100/250					
Number of devices per row	1					
Nb. of vertical modules	9 or 10					
Mounting plates	03051					
Front plates	cut-out					
[Nb. of vertical modules]	downstream with PowerTag NSX					
		03811 [1]				
Upstream connection						
Long terminal shields	3P : LV429517 4P : LV429518					
		Busbars / Distrib blocks	3P : 04033 4P : 04034 > page D-12 + 03011	Lineryg BW > page D-4	04191 copper bars > page D-6	04192 copper bars > pages D-7, D-8
		Power supply block		04061 > page C-47		
		Connection block		04064 > page C-47	Must be made	04065 > page C-48
		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-51

(1) 1 device centred on mounting plate.

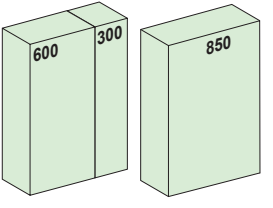
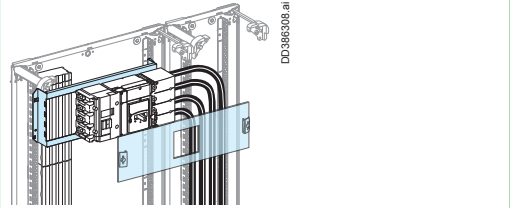
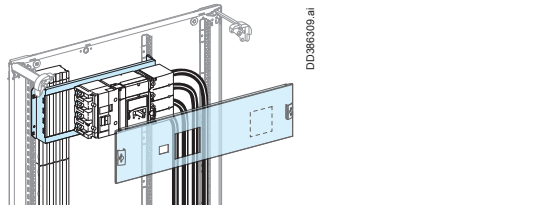
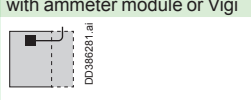





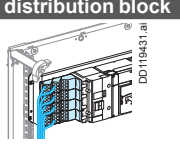
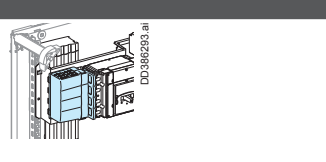
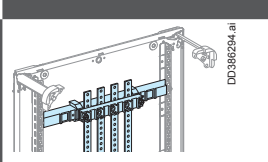
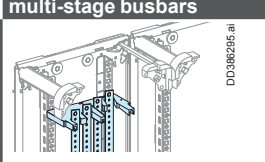
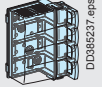

(2) Space available at the top of the enclosure after mounting the universal power supply block: NSX100/250 = 7 modules.

Vigicompact 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	
Nb. of vertical modules	4		4	
Mounting plates	03033		03033	
Front plates cut-out [Nb. of vertical modules]	03292 [4]		03295 [4]	
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	- 		Connection must be made	
Long terminal shields	-		3P : LV429517 4P : LV429518 	

Note: For cable-tie function, add 2 modules above. > page C-48

VigiCompact NSX100/160/250

Vertical mounting - Fixed - Toggle

W600 - W300

Circuit breakers

Mounting		W600 Horizontal - Fixed - Toggle (1)	
Devices		Vigi NSX100/160	Vigi NSX250
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]
Upstream connection			
Long terminal shields			3P : LV429517 4P : LV429518
Divisible blanking plates (HxL)		107 x 147 mm 85 x 147 mm	
		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

Downstream distribution	Lineryg DP 250 A distribution block	Lineryg BW + Power supply block (1)	Rear Lineryg BS busbars	Lineryg BS multi-stage busbars
Busbars / Distrib blocks	3P : 04033 + 03002	Lineryg BW > page D-4	04191 + copper bars > page D-6	04192 + copper bars > pages D-7, D-8
Power supply block	4P : 04034 > page D-12			
Power supply block / connection			Connection must be made	
Long terminal shields	-	04061 (2) > page C-47	3P : LV429517 4P : LV429518	

Mounting	W300 Vertical - Fixed - Toggle	Downstream distribution	Lineryg DP 250 A distribution block in duct	Insulated Lineryg BW busbars (2)	Rear Lineryg BS busbars	Lineryg BS multi-stage busbars or multi-stage distribution block
Devices		Vigi NSX100/250				
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]				
Upstream connection						
Long terminal shields		3P : LV429517 4P : LV429518				
		3P : 04033 + 03011 > page D-12		Lineryg BW > page D-4		
		-		04061 > page C-47		
		-		Must be made		
		-		04065 > page C-48		
		-		3P : LV429517 4P : LV429518		
		-		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-51

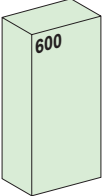
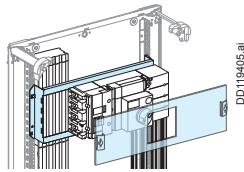



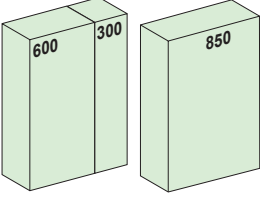
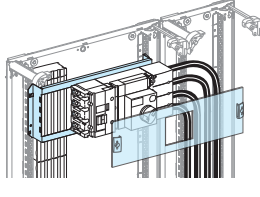
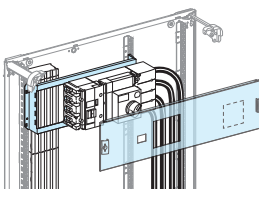






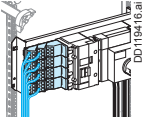
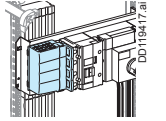
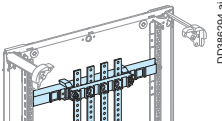
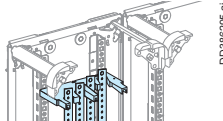


(1) 1 device centred on mounting plate.

(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)		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
Nb. of vertical modules		4	4	4	4
Mounting plates		03031	03031	03031	03031
Front plates		03292 [4]	03292 [4]	03295 [4]	03295 [4]
[Nb. of vertical modules] upstream		+ LV429285 (collar)	+ LV429285 (collar)	+ LV429285 (collar)	+ LV429285 (collar)
downstream		-	-	-	-
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-46	Connection must be made	
Long terminal shields		-		 3P : LV429517 4P : LV429518	

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

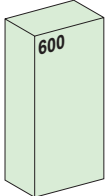




(1) Maximum size of connection cables: 70 mm². For cable cross-sections greater than 70 mm², use of a cable duct is recommended.


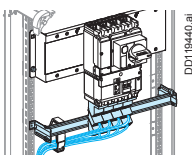
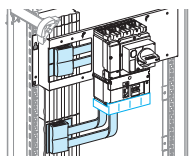
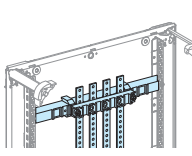
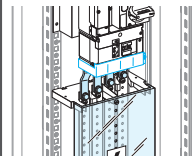



Vigicompact NSX100/160/250

Vertical mounting - Fixed - Rotary handle

W600

Circuit breakers

Mounting		W600 Horizontal - Fixed - Rotary handle (1)	
			
Devices		Vigi NSX100/160	Vigi NSX250
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		03041	03041
Front plates	cut-out	03244 [7] + LV429285 (collar)	03244 [7] + LV429285 (collar)
[Nb. of vertical modules]	upstream	03802 [2]	03804 [4]
	downstream	03801 [1]	03802 [2]
Upstream connection			
Long terminal shields		 3P : LV429517 4P : LV429518	
Divisible	107 x 147 mm	 03222 Compact NSX 3P or 4P + Vigi without electronic trip unit	
Blanking plates (HxL)	85 x 147 mm	 03249 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 : 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	-	 04061 + connection must be made	Connection must be made	
Terminal shields	-	 3P : LV429515 4P : LV429516	 3P : LV429517 4P : LV429518	

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-51](#)

(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			
Devices		NSX / NSX Vigi (ELCB) 400/630		NSX / NSX Vigi (ELCB) 400/630	
Number of devices per row	1	1	1	1	1
Nb. of vertical modules	9	6	9	6	6
Mounting plates	03070	03070	03070	03070	03070
Front plates cut-out	03296 [6]	03296 [6]	03296 [6]	03296 [6]	03296 [6]
[Nb. of vertical upstream modules]	03803 [3]	-	03803 [3]	03803 [3]	-
Upstream connection					
Incoming connection block or cables + Long terminal shields	04076 > page C-46 	04076 > page C-46 	3P : LV432593 4P : LV432594 		
Mounting		W850 Horizontal - Fixed - Toggle			
Devices		NSX / NSX Vigi (ELCB) 400/630			
Number of devices per row	1	1	1	1	1
Nb. of vertical modules	9	9	6	6	6
Mounting plates	03070	03070	03070	03070	03070
Front plates cut-out	03289 [6]	03289 [6]	03289 [6]	03289 [6]	03289 [6]
[Nb. of vertical upstream modules]	03853 [3]	-	-	-	-
Upstream connection					
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	
Type of connected devices	NSX400	NSX630	NSX400	NSX630	All types
Busbars	Linergy BW > page D-4		04191 + copper bars > page D-6	LG4193 + copper bars > page D-6	04192 + copper bars > pages D-7, D-8
Power supply block / connection	04070 > page C-46 04071 > page C-46		Connection must be made		
Long terminal shields	-		3P : LV429593 4P : LV429594		

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

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
Devices	NSX / NSX Vigi (ELCB) 400		NSX / NSX Vigi (ELCB) 630
Number of devices per row (2)	1		1
Nb. of vertical modules	12 or 14		13 or 15
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
Type of connected devices		NSX400	NSX630
Busbars	Linergy BW > page D-4	04191 + copper bars > page D-6	LGY4193 + copper bars > page D-6
Power supply block / connection	04074 Connection must be made > page C-47	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
			Busbars	Linergy BW > page D-4	04191/LGY4193 + copper bars > page D-6	04192 + copper bars > pages D-7, D-8
			Power supply block	04074 > page C-47	-	-
			Connection	04073 > page C-47	Must be made	04075 > page C-48
			Short/Long terminal shields	3P : LV432591 4P : LV432592	3P : LV432593 4P : LV432594	3P : LV432591 4P : LV432592
			Barrier	Included	04198	04197

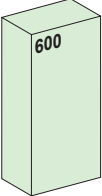
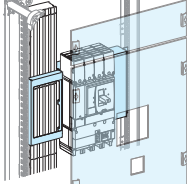
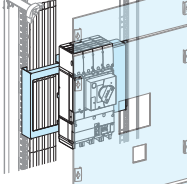


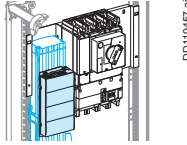
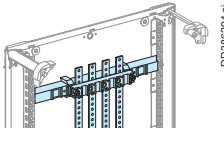
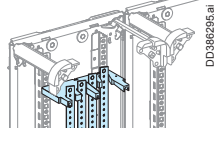


Note: For cable-tie function, add 1 module above > page C-51
(1) Space required by power supply block on insulated Linergy BW busbars = 5 modules.
(2) 1 device centred on mounting plate.

Vigicompact NSX400/630

Vertical mounting - Fixed - Toggle / Rotary handle

W600

Circuit breakers

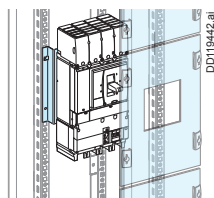
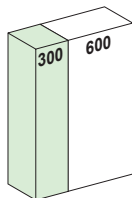
Mounting	W600 Vertical - Fixed - Toggle		W600 Vertical - Fixed - Rotary handle	
				
Devices	Vigi NSX400 (1)	Vigi NSX630 (1)	Vigi NSX400/630 (1)	
Number of devices per row	1	1	1	
Nb. of vertical modules	14	15	18	
Mounting plates	03073	03073	03074	
Front plates	cut-out 03297 [11]	03297 [11]	03297 [11] + LV429285 (collar)	
[Nb. of vertical modules]	upstream 03803 [3]	03803 [3]	03803 [3]	
	downstream	03801 [1]	03804 [4]	
Upstream connection				
Cables + Long terminal shields	 3P : LV432593 4P : LV432594			
Downstream distribution	Linergy BW + Power supply bloc (1)	Rear Linergy BS busbars		Linergy BS multi-stage busbars
				
Type of connected devices		NSX400	NSX630	All types
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-47	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
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Downstream distribution	Insulated Linergy BW busbars (2)	Rear Linergy BS busbars	Linergy BS multi-stage busbars
	 DD119459.ai	 DD386234.ai	 DD386304.ai
Busbars	Linergy BW > page D-4	04191 / LGY4193 + copper bars > page D-6	04192 + copper bars > pages D-7, D-8
Power supply block	04074 > page D-5  DD385246.eps	-	-
Connection	04073 > page D-5  DD385243.eps	Must be made	04075 > page D-7  DD385253.eps
Short/Long terminal shields	3P : LV432591 4P : LV432592  DD386302.ai	3P : LV432593 4P : LV432594  DD386301.ai	3P : LV432591 4P : LV432592  DD386302.ai
Barrier	Included	04198	04197

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-51

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

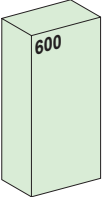
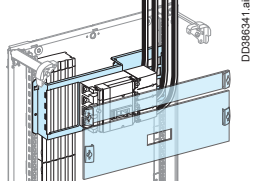
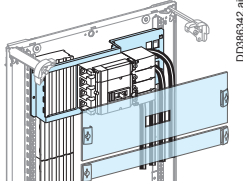





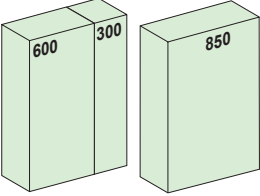
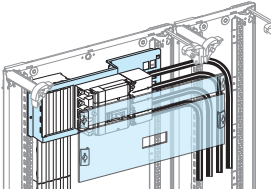
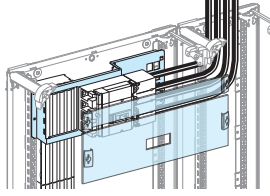









Easypact CVS and Vigi CVS100/160/250


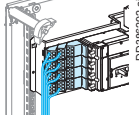
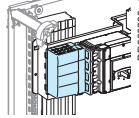
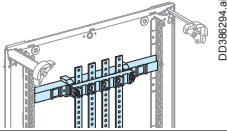
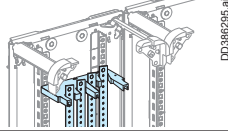

Horizontal mounting - Fixed - Toggle

W600 - W600+W300 - W850

Circuit breakers

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

Mounting	W600+W300 Horizontal - Fixed - Toggle				W850 Horizontal - Fixed - Toggle			
								
Devices	CVS100/160/250 	CVS100/160/250 	Vigi CVS100/160/250 	Vigi CVS100/160/250 	CVS100/160/250 	CVS100/160/250 	Vigi CVS100/160/250 	Vigi CVS100/160/250 
Number of devices per row	1	1	1	1	1	1	1	1
Nb. of vertical modules	4	4	4	4	4	4	4	4
Mounting plates	03030	03030	03033	03033	03030	03030	03033	03033
Front plates cut-out	03230 [4]	03230 [4]	03238 [4]	03238 [4]	03256 [4]	03256 [4]	03257 [4]	03257 [4]
[Nb. of vertical modules]								
Upstream connection								
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-46	Connection must be made	
Long terminal shields	-		 3P : LV429517 4P : LV429518	

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

(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			
Devices	CVS100/160	CVS250	Vigi CVS100/160	Vigi CVS250
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 modules] upstream	03802 [2]	03804 [4]	03802 [2]	03804 [4]
downstream	03802 [2]	03802 [2]	03801 [1]	03802 [2]
Upstream connection				
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 > page D-12 + 03002	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-47	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
Devices	CVS100/250	Vigi CVS250	Type of connected switchgear	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
Nb. of vertical modules	9	13	Power supply block	-	04061 > page C-47	04061 > page C-47	-
Mounting plates	03050	03050	Connection	-	04064 > page C-47	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 modules] upstream	-	03812 [2]					
Upstream connection							
Long terminal shields	3P : LV429517 4P : LV429518						04065 > page C-48

Note: For cable-tie function, add 1 module above. > page C-51

(1) 1 device centred on mounting plate.

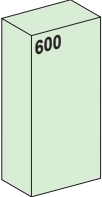
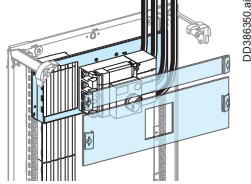



(2) Space available at the top of the enclosure after mounting the universal power supply block:

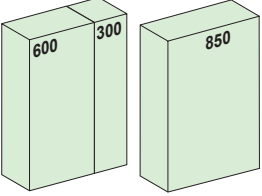
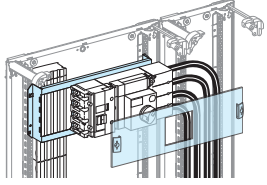
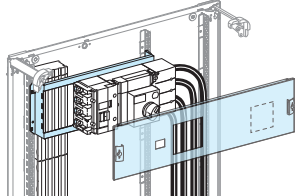







- CVS100/250 = 7 modules


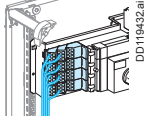
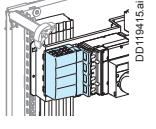
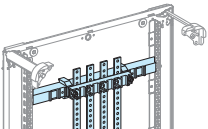
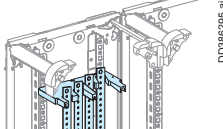

- Vigi CVS100/250 = 9 modules. Space required by power supply block on Linery BW busbars = 5 modules.

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)	
			
Devices		CVS100/160	
			
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]	-	
[Nb. of vertical modules] downstream	-	03801 [1]	
Upstream connection			
Cables + Long terminal shields		 3P : LV429517 4P : LV429518	

Mounting		W600+W300 Horizontal - Fixed - Rotary handle		W850 Horizontal - Fixed - Rotary handle	
					
Devices		CVS100/160/250		Vigi CVS100/160/250	
					
					
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 cut-out	03232 [4]	03232 [4]	03292 [4] + LV429285 (collar)	03292 [4] + LV429285 (collar)	03301 [4]
[Nb. of vertical modules] upstream					
[Nb. of vertical modules] downstream					
Upstream connection					
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-46	Connection must be made	
Long terminal shields	-	-	 3P : LV429517 4P : LV429518	

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

(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 - Rotary handle

W600 - W300

Circuit breakers

Mounting	W600 Vertical - Fixed - Rotary handle			
Devices	CVS100/160	CVS250	Vigi CVS100/160	Vigi CVS250
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 upstream modules]	03802 [2]	03804 [4]	03802 [2]	03804 [4]
downstream	03802 [2]	03802 [2]	03801 [1]	03802 [2]
Upstream connection				
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
Devices	CVS100/160/250	Type of connected switchgear	All types	CVS	All types	All types
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-47	-	-
Mounting plates	03051	Connection	-	04064 > page C-47	Connection must be made	04065 > page C-48
Front plates cut-out	03253 [9]	Short / Long terminal shields	-	3P : LV429515 4P : LV429516 	3P : LV429517 4P : LV429518 	3P : LV429515 4P : LV429516
[Nb. of vertical upstream modules]						
Upstream connection						
Long terminal shields	3P : LV429517 4P : LV429518					

Note: For cable-tie function, add 1 module above. > page C-51

(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

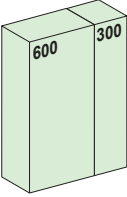
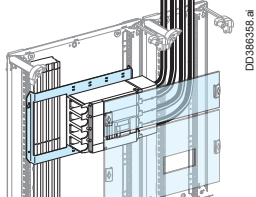
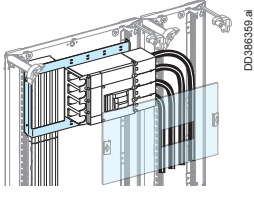



- Vigi CVS100/250 = 9 modules. Space required by power supply block on Linergy BW busbars = 5 modules.

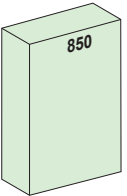
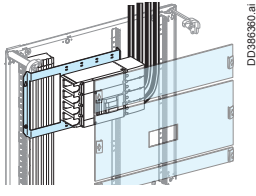
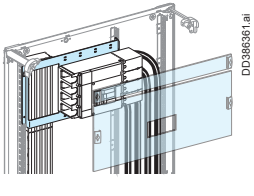



Easypact CVS400/630


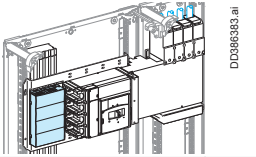
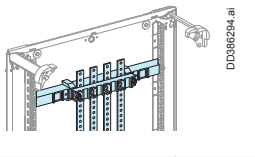
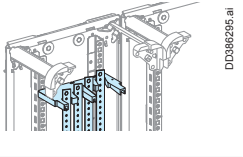



Horizontal mounting - Fixed - Toggle

W600+W300 - W850

Circuit breakers

Mounting		W600+W300 Horizontal - Fixed - Toggle	
			
Devices	CVS400/630 	CVS400/630 	
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]	-	
Upstream connection			
Cables + Long terminal shields	 3P : LV432593 4P : LV432594		

Mounting		W850 Horizontal - Fixed - Toggle	
			
Devices	CVS400/630 	CVS400/630 	
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]	-	-	
Upstream connection			
Cables + Long terminal shields	 3P : LV432593 4P : LV432594		

Downstream distribution	Insulated Linergy BW busbars		Rear Linergy BS busbars	Linergy BS multi-stage busbars
				
Type of connected devices	CVS400	CVS630	CVS400	All types
Busbars	Linergy BW > page D-4		04191 + copper bars > page D-6	04192 + copper bars > pages D-7, D-8
Power supply block / connection	 04070 > page C-46	 04071 > page C-46	Connection must be made	
Long terminal shields	-		 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	
Devices	CVS400	CVS630	Vigi CVS400	Vigi CVS630	CVS400/630	Vigi CVS400/630
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]
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
Type of connected devices	CVS400/630		CVS400		CVS630
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-47 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
Devices	CVS400/630	Vigi CVS400/630	CVS400/630
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]	-
Upstream connection			
Cables + Long terminal shields	3P : LV432593 4P : LV432594		

Downstream distribution	Insulated Linergy BW busbars	Rear Linergy BS busbars	Linergy BS multi-stage busbars
Type of connected devices	All types	All types	All types
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-47 04073 > page C-47	- Must be made	04075 > page C-48
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-51
 (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)			
Devices		EZC100-160		EZCV100-160	
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]
Upstream connection					
Cables + Long terminal shields		3P : EZETSHD3P 4P : EZETSHD4P			

Mounting		W600+W300 Horizontal - Fixed - Toggle			
Devices		EZC-EZCV100/250		EZC400/630	
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]	-
Upstream connection					
Cables + Long terminal shields		3P : EZETSHD3P 4P : EZETSHD4P		3P : LV429593 4P : LV429594	

Downstream distribution	Rear Linergy BS busbars	Linergy BS multi-stage busbars	
Type of connected devices	EZC250/EZCV250	EZC400/630	EZC250/EZCV250
Busbars	04191 + copper bars > page D-6	04191/LGY4193 + 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	3P : EZETSHD3P 4P : EZETSHD4P
			3P : LV429593 4P : LV429594

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

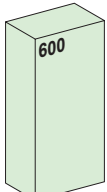
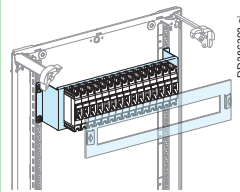
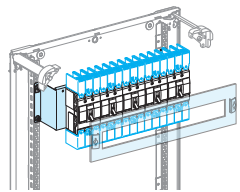



(1) Maximum size of connection cables: 70 mm². For cable cross-sections greater than 70 mm², use of a cable duct is recommended.

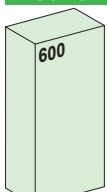
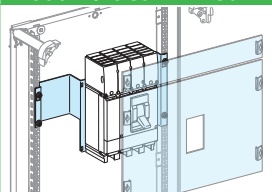

Easypact Ezc and EzcV100/630


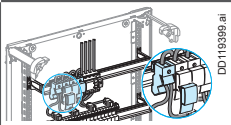
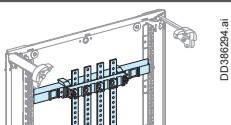

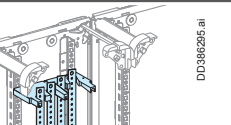









Vertical mounting - Fixed - Toggle

W600

Circuit breakers

Mounting		W600 Vertical - Fixed - Toggle			
					
Devices		Ezc100		Ezc160-250/EzcV160-250	
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]				03305 [7]	
Upstream connection					
Cables + Long terminal shields		 1P : - 3P : EZATSHD3P 4P : EZATSHD4P		 3P : EZETSHD3PN 4P : EZETSHD4PN	
Divisible blanking plates		 03249 > page C-56			

Mounting		W600 Vertical - Fixed - Toggle	
			
Devices		Ezc400	Ezc630
Number of devices per row	1	1	1
Nb. of vertical modules	12	13	13
Mounting plates	03073	03073	03073
Front plates cut-out	03273 [9]	03273 [9]	03273 [9]
[Nb. of vertical modules] upstream	03803 [3]	03803 [3]	03803 [3]
downstream	-	03801 [1]	03801 [1]
Upstream connection			
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		
							
Type of connected devices	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	> page D-6	04191/ LGY4193 + copper bars > page D-6	04192 + copper bars > pages D-7, D-8	> pages D-7, D-8	> 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 : EZETSHD3P 4P : EZETSHD4P	3P : EZETSHD3PN 4P : EZETSHD4PN	3P : LV429593 4P : LV429594
							

Note: For cable-tie function, add 1 module above. > page C-51

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	1	1
Nb. of vertical modules	5	5	5	5
Mounting plates	03030	03030	03030	03030
Front plates cut-out	03231 [4]	03231 [4]	03231 [4]	03231 [4]
[Nb. of vertical upstream modules]	03801 [1]	-	03801 [1]	-
downstream	-	03801 [1]	-	03801 [1]
Upstream connection				
Incoming connection block or cables + Long terminal shields	04066 > page C-46	04067 > page C-46	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		INS-INV100/160/250		INS-INV100/160/250	
Number of devices per row	1	1	1	1	1	1	1	1
Nb. of vertical modules	5	5	4	4	5	5	4	4
Mounting plates	03030	03030	03030	03030	03030	03030	03030	03030
Front plates cut-out	03231 [4]	03231 [4]	03231 [4]	03231 [4]	03239 [4]	03239 [4]	03239 [4]	03239 [4]
[Nb. of vertical upstream modules]	03801 [1]	-	-	-	03851 [1]	-	-	-
downstream	-	03801 [1]	-	-	-	03851 [1]	-	-
Upstream connection								
Incoming connection block or cables + Long terminal shields	04066 > page C-46	04067 > page C-46	3P : LV429517 4P : LV429518		04066 > page C-46	04067 > page C-46	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-46	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-51

(1) Maximum size of connection cables: 70 mm². For cable cross-sections greater than 70 mm², 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	
Devices	INS250-INV100/160/250	INS-INV250 lateral handle
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 Linery BW busbars (2)	Rear Linery BS busbars	Linery BS multi-stage busbars
Type of connected devices	Direct front handle INS-INV100/250 Lateral handle INS-INV100/250	INS-INV100/250	INS-INV250	INS-INV250
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	-	04060 + 04062 > page C-47	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	Downstream distribution	Linery DP 250 A distribution block	Insulated Linery BW busbars (2)	Rear Linery BS busbars	Linery BS multi-stage busbars
Devices	INS-INV100/160/250	Direct front handle INS-INV100/250	INS-INV100/250	INS-INV100/250	INS-INV100/250	INS-INV100/250
Number of devices per row	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 or 10	Power supply block / connection	-	04061 + 04064 > page C-47	Connection must be made	
Mounting plates	03050	Long terminal shields	-	3P : LV429515 4P : LV429516	3P : LV429517 4P : LV429518	3P : LV429517 4P : LV429518
Front plates cut-out	03251 [9]					
[Nb. of vert. modules]	downstream with PowerTag NSX 03811 [1]					
Upstream connection						
Cables + Long terminal shields	3P : LV429517 4P : LV429518					

- Note:** For cable-tie function, add 1 module above. > page C-51
- (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 Linery 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	
Devices	INS-INV320/630		INS-INV320/630	
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
Type of connected devices	INS-INV320/400	INS-INV500/630	INS-INV320/630	INS-INV320/630
Busbars / Distrib blocks	Linergy BW > page D-4	Linergy BW > page D-4	04191 / LGY4193 + copper bars > page D-6	04192 + copper bars > pages D-7, D-8
Power supply block / connection	04070 > page C-46	04071 > page C-46	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-48

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	
Devices	INS320/400	INV500/630	
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]	
Upstream connection			
Cables + Long terminal shields		 3P : LV429593 4P : LV429594	



Downstream distribution	Insulated Linergy BW busbars	Rear Linergy BS busbars	Linergy BS multi-stage busbars
Type of connected devices Busbars	INS-INV320/630 Linergy BW > page D-4	INS-INV320/400 04191 + copper bars > page D-6	INS-INV400/630 LG4193 + copper bars > page D-6
Power supply block / connection	04074 > page C-47 Connection must be made 	Connection must be made	
Long terminal shields	3P : LV429515 4P : LV429516	3P : LV429517 4P : LV429518	3P : LV429517 4P : LV429518

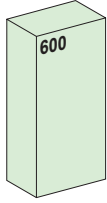
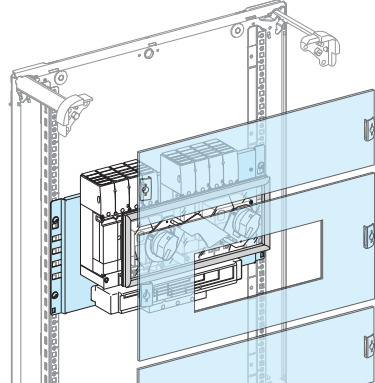
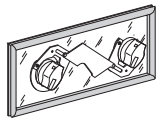

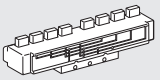


Mounting	W300 Vertical - Fixed with or without spreaders	
Devices	INS-INV 320/400	INS-INV 500/630
Number of devices per row	1	1
Nb. of vertical modules	10 or 12	12 or 14
Mounting plates	03080	03080
Front plates cut-out	03281 [10]	03281 [10]
[Nb. of vertical modules]	upstream	03812 [2]
	downstream with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

Downstream distribution	Insulated Linergy BW busbars	Rear Linergy BS busbars	Linergy BS multi-stage busbars
Type of connected devices Busbars / Distrib blocks	INS-INV320/630 Linergy BW > page D-4	INS-INV320/630 04191 / LG4193 + copper bars > page D-6	INS-INV320/630 04192 + copper bars > pages D-7, D-8
Power supply block / connection	04074 + 04073 > page C-47 	Connection must be made	
Long terminal shields	3P : LV429593 4P : LV429594	3P : LV429593 4P : LV429594	3P : LV429593 4P : LV429594

Note: For cable-tie function, add 1 module above. > page C-51

Compact NSX100/250 circuit breakers changeover system
 Vertical mounting - Fixed - Manual source
 W600

Changeover system

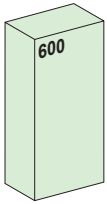
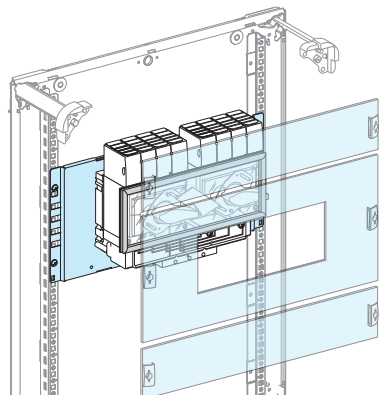
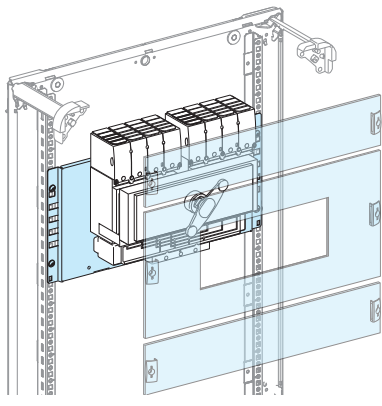
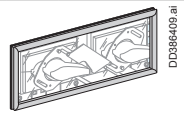

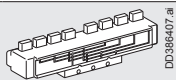

Mounting		W600 Fixed - Changeover with mechanical interlocking	
		DD388405.ai	
Devices		NSX100/250	
Nb. of vertical modules		11	
Mounting plates		03043	
Front plates cut-out		03245 [5]	
[Nb. of vertical modules] upstream		03803 [3]	
[Nb. of vertical modules] downstream		03803 [3]	
Mechanical interlocking		LV429369	
		DD388406.ai	
Upstream connection			
Cable + Long terminal shields		3P : LV429517 4P : LV429518	
			DD388301.ai
Coupling accessory		3P : LV429358 4P : LV429359	
			DD388407.ai
Downstream connection			
			
Cable + Long terminal shields		3P : LV429517 4P : LV429518	
			DD388301.ai

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

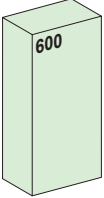
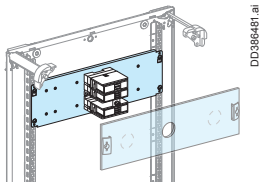
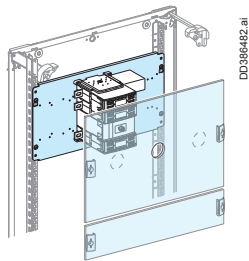

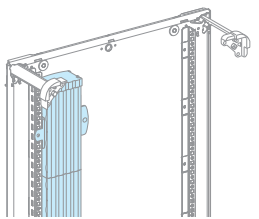
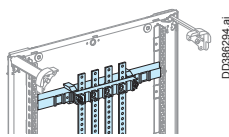
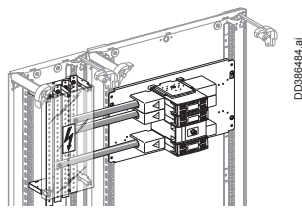
Note: For cable-tie function, add 1 module above. > page C-48

Fupact INF32/40/63/100/160

Horizontal mounting - Fixed - Extended rotary handle

W600

Fusegear

Mounting		W600 Horizontal - Fixed			
					
Devices		INF32	INF40/63		INF100/160
		3P or 4P	3P	4P	3P 4P
Number of devices per row		1	1	1	1 1
Nb. of vertical modules		3	5	5	7 7
Mounting plates		03113	03114	03114	03114 03114
Front plates	cut-out	03313	03314	03314	03314 [5] 03314 [5]
[Nb. of vertical modules] downstream		-	-	-	03802 [2] (1) 03802 [2] (1)
Upstream connection					
Long terminal shields		-	-	-	3 x LV480445 4 x LV480445
Downstream distribution	Insulated Linergy BW busbars (2)	Rear Linergy BS busbars		Linergy BS multi-stage busbars	
					
Type of connected devices	INF100/160	All types		All types	
Busbars	Linergy BW > page D-4	04191 + copper bars > page D-6		04192 + copper bars > pages D-7, D-8	
Power supply block	04061 > page C-47	-		-	
Connection	Must be made	Must be made		Must be made	
Long terminal shields	3P : 3 x LV480445 4P : 4 x LV480445	3P : 3 x LV480445 4P : 4 x LV480445		3P : 3 x LV480445 4P : 4 x LV480445	

(1) Not needed if direct distribution.

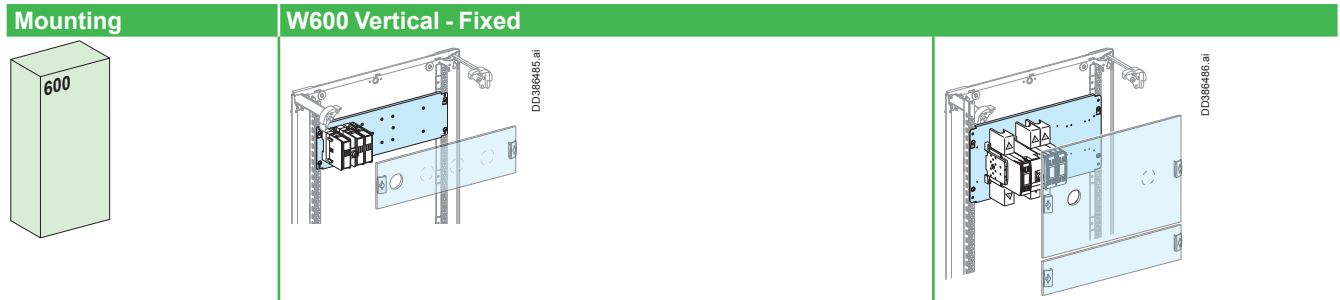
(2) The mounting plate for INF Fupact does not leave a passage for the busbar; it can only be installed below the plate. The distribution system is installed under the functional unit.

Fupact INF32/40/63/100/160

Vertical mounting - Fixed - Extended rotary handle

W600

Fusegear



Devices	INF32/40		INF63		INF100/160	
	3P	4P	3P	4P	3P	4P
Number of devices per row	4	3	3	2	2	2
Nb. of vertical modules	3	3	5	5	7	7
Mounting plates	03113	03113	03114	03114	03114	03114
Front plates cut-out	03312	03313	03314	03315	03315 [5]	03315 [5]
[Nb. of vertical modules] downstream	-	-	-	-	03802 [2] (1)	03802 [2] (1)
Upstream connection						
Long terminal shields	-	-	-	-	3 x LV480445	4 x LV480445

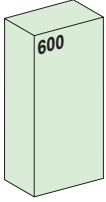
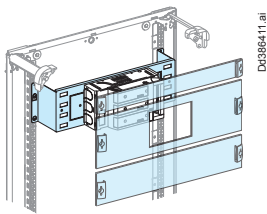

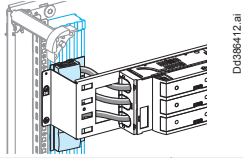
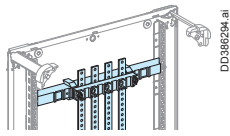
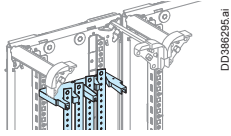
Downstream distribution	Distribution block Linergy DX 1P, 160 A	Insulated Linergy BW busbars (2)	Rear Linergy BS busbars	Linergy BS multi-stage busbars
Type of connected devices	INF100/160	INF100/160	INF100/160	INF100/160
	3P 4P	3P 4P	3P 4P	3P 4P
Distribution block / busbars	3 x 04031 + 03002 > page D-11 4 x 04031 + 03002 > page D-11	Linergy BW > page D-4	04191 + copper bars > page D-6	04192 + copper bars > pages D-7, D-8
Power supply block	-	04061 > page C-47	-	-
Connection	Must be made	Must be made	Must be made	Must be made
Long terminal shields	3 x LV480445 4 x LV480445	3 x LV480445 4 x LV480445	3 x LV480445 4 x LV480445	3 x LV480445 4 x LV480445

(1) Not needed if direct distribution.

(2) The mounting plate for INF Fupact does not leave a passage for the busbar; it can only be installed below the plate. The distribution system is installed under the functional unit.

Fupact ISFT160/250
Horizontal mounting - Fixed
W600

Fusegear

Mounting		W600 Horizontal - Fixed					
							
Devices		ISFT160		ISFT250			
Number of devices per row		1		1			
Nb. of vertical modules		6		6			
Mounting plates		03121		03124			
Front plates cut-out		03326 [3]		03328 [5]			
[Nb. of vertical modules] upstream		03801 [1]		-			
downstream		03802 [2] (1)		03801 [1]			
Upstream connection							
Long terminal shields		LV480819		LV480824			
Downstream distribution		Insulated Linergy BW busbars		Rear Linergy BS busbars		Linergy BS multi-stage busbars	
							
Type of connected devices		ISFT160 ISFT250		ISFT160 ISFT250		ISFT160 ISFT250	
Busbars		Linergy BW > page D-4		04191 + copper bars > page D-6		04192 + copper bars > pages D-7, D-8	
Power supply block		04061 > page C-47		-		-	
Connection		Must be made		Must be made		Must be made	
Long terminal shields		LV480819 LV480824		LV480819 LV480824		LV480819 LV480824	

(1) Not needed if direct distribution.

Fupact ISFT100/100N, ISFT160/250

Vertical mounting - Fixed

W600 - W300

Fusegear

Mounting		W600 Vertical - Fixed				
Devices		On mounting plate			On busbars (2)	
		ISFT100	ISFT100N	ISFT160	ISFT100N	ISFT160
Number of devices per row		5	8	4	6	4
Nb. of vertical modules		6	8	8	8	8
Mounting plates		03120	03126	03121	03122 (2)	03122 (2)
Front plates	cut-out	03320 [6]	03325 [8]	03321 [6]	03325 [8]	03321 [6]
	upstream	-	-	-	-	-
	downstream	-	-	03802 [2] (1)	-	03802 [2] (1)
Upstream connection						
Long terminal shields		-	LV480756	LV480819	LV480756	LV480819

Upstream connection		Comb busbar		
Connected devices	Type	ISFT100		
	Number	2	3	4
Comb busbar		49861	49862	49863
Set of 3 connectors		49865 (25 to 95 mm ²)		
		49860 (3 x 10 mm ²)		
Incoming connection		Comb busbar		
Connected devices	Type	ISFT160		
	Number	2	3	4
Comb busbar		LV480811	LV480812	LV480813
Set of 3 connectors		LV480818 (25 to 95 mm)		
		LV480814 (3 x 16 mm ²)		

Downstream distribution	Distribution block Linergy DX 1 P, 160 A	Insulated Linergy BW busbars	Rear Linergy BS busbars	Linergy BS multi-stage busbars
Type of connected devices	ISFT100N ISFT160	ISFT100N ISFT160	ISFT100N ISFT160	ISFT100N ISFT160
Distribution block / busbars	3 x 04031 + 03002 > 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	-	04061 > page C-47	-	-
Connection	Must be made	Must be made	Must be made	Must be made
Long terminal shields	LV480756 LV480819	LV480756 LV480819	LV480756 LV480819	LV480756 LV480819

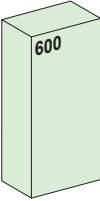
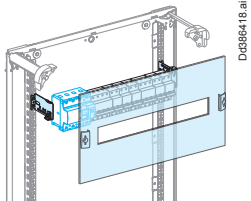
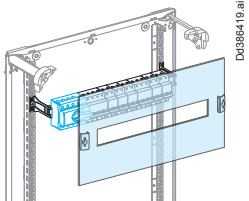
Mounting		W300 Vertical - Fixed	
Devices		ISFT160	ISFT250
Number of devices per row		1	1
Nb. of vertical modules		6	9
Mounting plates		03123	03125
Cut-out front plate		03327	03329
Upstream connection			
Long terminal shields		LV480819	LV480824

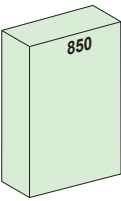
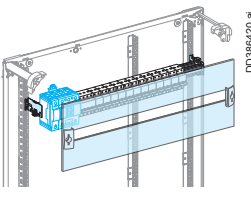
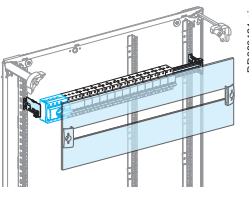
Downstream distribution	Distribution block Linergy DX 1 P, 160 A	Insulated Linergy BW busbars	Rear Linergy BS busbars	Linergy BS busbars in duct
Type of connected devices	ISFT160	ISFT160 ISFT250	ISFT160 ISFT250	ISFT160 ISFT250
Busbars / Distribution block	3 x 04031 + 03002 > page D-12	Linergy BW > page D-4	04191 + copper bars > page D-6	04192 + copper bars > pages D-7, D-8
Power supply block	-	04061 > page C-47	-	-
Connection	Must be made	Must be made	Must be made	Must be made
Long terminal shields	LV480819	LV480819 LV480824	LV480819 LV480824	LV480819 LV480824

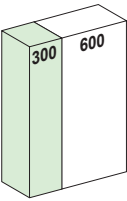
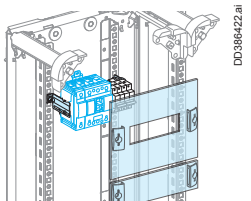
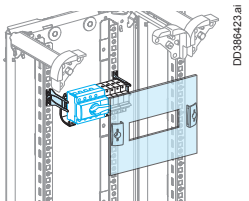
(1) Not needed if direct distribution.
 (2) Only for 3P.



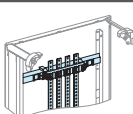
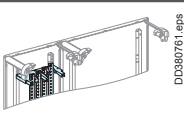
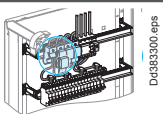
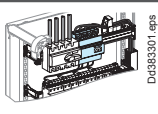
Modular devices ≤ 160 A switchboard incomer
W600 - W850 - W300

Modular devices

Mounting		W600 Circuit breaker		W600 Switch-disconnector	
					
Devices		NG160, Vigi NG160 (1) (2)		INS-INV40/160	
Nb. of vertical modules		5		5	
Rail (48 modules of 9 mm)		03002 (adjustable) (1)		03001	
Modular front plates [Nb. of vertical modules]		03205 [5]		03204 [4]	
Blanking plates		strip		03220	
		divisible		03221	

Mounting		W850 Circuit breaker		W850 Switches	
					
Devices		NG160, Vigi NG160 (1) (2)		Compact INS-INV40/160	
Nb. of vertical modules		5		5	
Rail (72 modules of 9 mm)		03007 (adjustable) (2)		03006	
Modular front plates [Nb. of vertical modules]		03218 [5]		03217 [4]	
Blanking plates		strip		03220	
		divisible		03221	

Mounting		W300 Circuit breaker		W300 Switch-disconnector	
					
Devices		NG160 (1)		INS-INV40/160	
Nb. of vertical modules		5		5	
Rail (20 modules of 9 mm)		03011 (adjustable) (1)		03010	
Front plates		modular		03214 [4]	
		downstream		03811 [1]	
Blanking plates		strip		03220	
		divisible		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
					
Type of connected devices 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
Connection	> page D-5	Must be made	Must be made	04149	04047
					supplied with

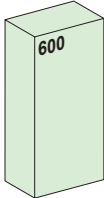
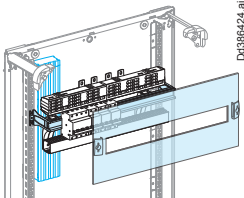
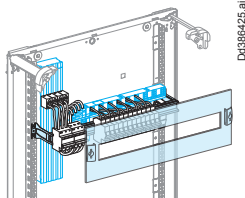
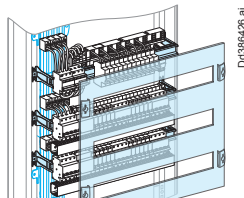
(1) End of life mid 2018 substituted by NSXm > page C-4.

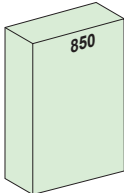
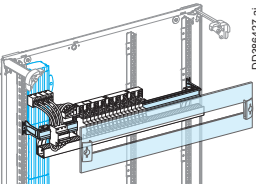
(2) Can be completed by a rail + raiser (cat no. 04227) to install modular devices on.


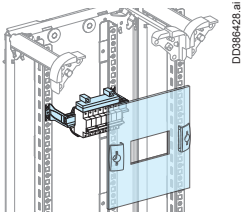
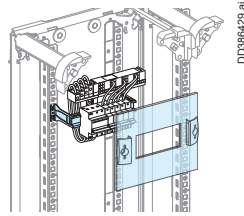
Modular devices outgoers ≤ 63 A

W600 - W850 - W300

Modular devices

Mounting	W600 Distances between centres : 200 mm	W600 Distances between centres : 150 mm	
			
Devices	All modular devices	Modular devices ≤ 40 A	
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
		
Devices	All modular devices	Modular devices ≤ 40 A
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
		
Devices	All modular devices	Modular devices ≤ 40 A
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	Linerigy FH comb busbar	Distribution system Linergy FM 63 A
		
Type of connected devices	According devices	04008
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
Nb. of modules	Height			
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
Devices		Vigirex (1), VigiloHM (2)		Other modular devices (3)	
Nb. of vertical modules		3		2	
Rail (48 modules of 9 mm)		03001		03001	
Cut-out front plates		03203		03202	
				ammeter, voltmeter, lamp, pushbuttons	
				3	
				03006	
				03216	
				03010	
				03213	

Lighting

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

(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).

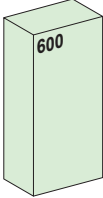
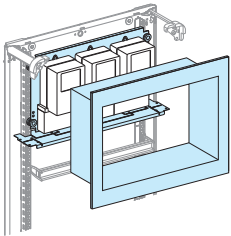
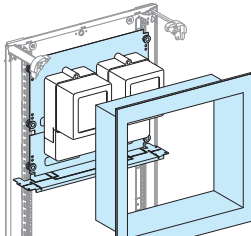
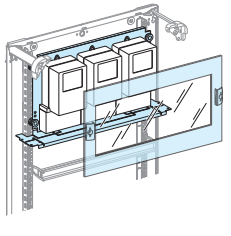
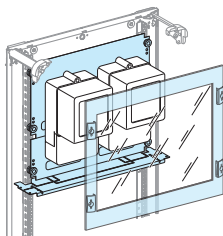
(4) 2/3 transparent front plate.

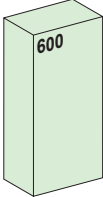
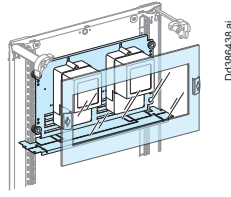
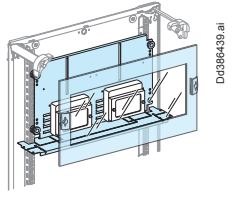
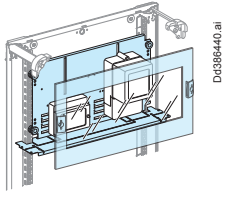
Kilowatt-hour meters

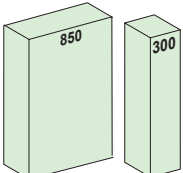
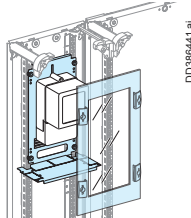
Class II

W600 - W850 - W300

Other devices

Mounting	W600 Accessible (1)		W600 Behind front plate (1)	
				
Devices	1-phase (Ph + N)	3-phase (3 Ph + N)	1-phase (Ph + N)	3-phase (3 Ph + N)
Number of devices per row	3	2	3	2
Nb. of vertical modules	6	8	6	9
Mounting plates	03157	03152	03157	03152
Metering front plate	03155 [6]	03158 [8]	-	-
Front plates transparent	-	-	03343 [6]	03344 [9]
at your choice plain	-	-	03806 [6]	03807 [9]
Horizontal partitioning	04331	04331	04331	04331
Insulating plate (class II)	03154	03154	03154	03154
Accessories	M5 spacers for mounting plate > page C-55			

Mounting	W600 Behind front plate (1)		
			
Devices	3-phase kilowatt-hour meters (3 Ph + N)	Connection blocks	3-phase kilowatt-hour meters (3 Ph + N) + connection blocks
Number of devices per row	2	2	1+1
Nb. of vertical modules	6	6	6
Mounting plates	03160	03160	03160
Front plates transparent	03343 [6]	03343 [6]	03343 [6]
at your choice plain	03806 [6]	03806 [6]	03806 [6]
Horizontal partitioning	04331	04331	04331
Earthing braid (2)	08910	08910	08910
Accessories	M5 spacers for mounting plate > page C-55		

Mounting	W850 Behind front plate (3)			W300 Behind front plate (1)
				
Devices	1-phase (Ph + N)	3-phase (3 Ph + N)	3-phase (3 Ph + N)	3-phase (3 Ph + N)
Number of devices per row	3	2	2	1
Nb. of vertical modules	6	9	6	9
Mounting plates	03157	03152	03160	03156
Front plates transparent	03363	03364	03363	03354 [9]
at your choice plain	03856	03859	03856	03817 [9]
Horizontal partitioning	-	-	-	04332
Earthing braid (2) / Insulating plate	03154	03154	08910	08910
Accessories	-	-	-	M5 spacers for mounting plate > page C-55

- (1) Order one additional horizontal partition in case of installation other than at the top of enclosure.
- (2) Meters can be installed directly on mounting plate equipped with 6 mm² earthing braid (cat.no 08910) and combined with partitioning or front plates.
- (3) On the right of the front plate, possibility to install 96 x 96 device > page C-42.

TeSys, Altistart, Phaseo
W600 - W850 - W300

Industrial control devices

TeSys D, TeSys K contactors

Mounting	W600	W850	W300
Devices	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							
Devices	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]	03213 [3]
	upstream	-	-	-	-	-	-	-	-	03811 [1]
	downstream	-	-	-	-	-	-	-	-	03811 [1]
Blanking plates > page C-56	strip	03220								
	divisible	03221								

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

Mounting	W600	W850	W300				
Devices	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	
Devices		TeSys U		TeSys U (1)		TeSys U	
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]	

Soft starters Altistart 01

Mounting		W600 behind front plate				W850 behind front plate		W300 behind front plate	
Devices		On rail				On recessed slotted mounting plate		On rail	
		ATS01N103FT ATS01N106FT		ATS01N109FT ATS01N112FT ATS01N206 to 212 ATS01N230LY ATS01N244LY ATS01N244Q		ATS01N222 to 232 ATS01N272LY, ATS01N285LY ATS01N272Q, ATS01N285Q		ATS01N103FT ATS01N106FT	
Useful length		432 mm		432 mm		420 mm		180 mm	
Nb. of vertical modules		4		5		6		4	
Rail		03004 (in rear)		03003		-		03011 (adjustable)	
Slotted plate		-		-		03172		-	
Front plates transparent		03342 [4]		-		03343 [6]		03352 [4]	
[Nb. of vertical modules] plain		03804 [4]		03805 [5]		03806 [6]		03814 [4]	

Supply and LV/LV Phaseo transformer

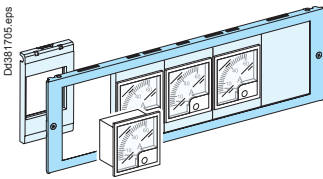
Mounting		W600 behind front plate		W300 behind front plate	
Devices		On recessed slotted mounting plate		On slotted plate	
		ABL6TS/TD, ABL6-RF		ABL6TS/TD, ABL6-RF	
Useful length for mounting plate		420 mm		172 mm	
Nb. of vertical modules		4		4	
Slotted plates		03171		03175	
Front plates transparent		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).

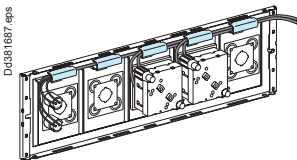
2 types of device mounting
72 x 72 and 96 x 96

①

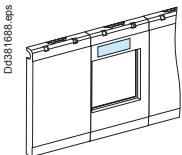
> On an interface with plastic mounting plates clipped onto the metal front plate with cut-outs



- 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.



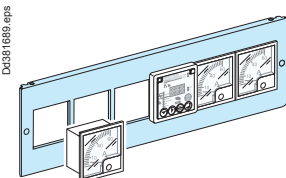
- A system at the rear of the mounting plates guides the wires.



- 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

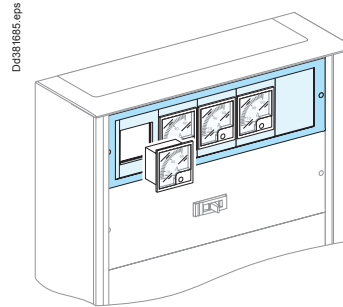


- Devices are attached directly to the metal front plate.
- Blanking plates are available to blank off any unused locations.

2 mounting types in Prisma G

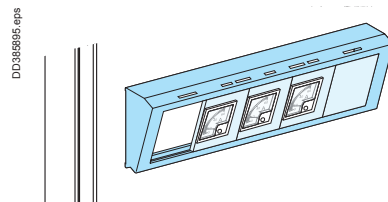
①

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



②

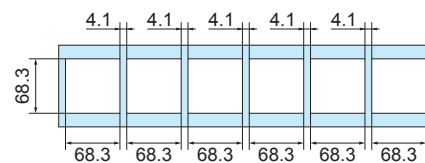
> On a plain door with cut-outs, on an inclined visor by 30°



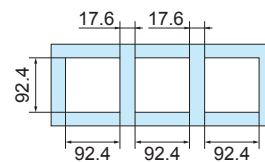
- With cut-out plastic mounting plate directly clipped on the visor.
- Supplied with a drilling diagram for mounting on a plain door.

Precut dimensions

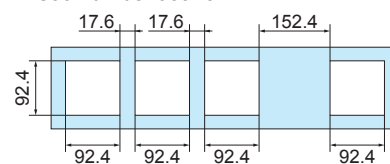
- Cat. number **03910**



- Cat. number **03911**



- Cat. number **03925**




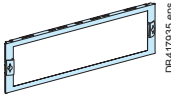






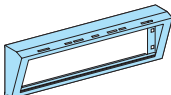






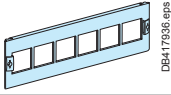


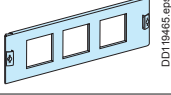


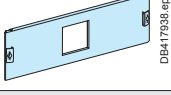


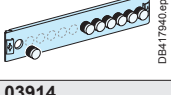






Note: device mounting on door: earthing braid (ref. 08910) or earthing wire (ref. 08911).

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
Mounted on W600 front plate with interface and/or plastic plate				
5 x  Vigirex and other devices 72 x 72	 DB417935 eps	3	 DD385465 eps 03902	 DD385466 eps To blank-off or install: - from 1 to 4 buttons Ø 16 or 22 mm - 1 device, 45 x 45 03900
4 x  Power Meter and other devices 96 x 96	03904		 DD385467 eps 03903	 DD385468 eps 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 03901
Mounted on W600 canopy tilted to 30° with plastic plate				
5 x  Vigirex and other devices 72 x 72	 DD385459 eps	3	 DD385465 eps 03902	 DD385466 eps To blank-off or install: - from 1 to 4 buttons Ø 16 or 22 mm - 1 device, 45 x 45 03900
4 x  Power Meter and other devices 96 x 96	03928 (1)		 DD385467 eps 03903	 DD385468 eps 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 03901
Directly mounted on W600 metal front plate with cut-out				
72 x 72 devices				
6 x  Vigirex and other devices 72 x 72	 DB417936 eps	3	Direct mounting	 DD385469 eps To blank-off or install: - from 1 or 2 buttons Ø 22 mm - 1 device, 45 x 45 03907
96 x 96 devices				
3 x  Power Meter and other devices 96 x 96	 DD119465 eps	3	Direct mounting	 DD385470 eps To blank-off or install: - from 1 or 2 buttons Ø 22 mm - 1 device, 45 x 45 - 1 device, 72 x 72 03908
1 x  Power Meter and other devices 96 x 96	 DB417938 eps	3	Direct mounting	 DD385470 eps To blank-off or install: - from 1 or 2 buttons Ø 22 mm - 1 device, 45 x 45 - 1 device, 72 x 72 03908
Pushbuttons and lamps Ø22 mm				
12 x 	 DB417940 eps	2	Direct mounting	-
Directly mounted on W850 metal front plate with cut-outs				
4 x  Power Meter and other devices 96 x 96	 DD385861 eps	3	Direct mounting	 DD385470 eps To blank-off or install: - from 1 or 2 buttons Ø 22 mm - 1 device, 45 x 45 - 1 device, 72 x 72 03908
Directly mounted on W300 metal front plate with cut-outs				
1 x  Power Meter and other devices 96 x 96	 DD385860 eps	3	Direct mounting	 DD385470 eps To blank-off or install: - from 1 or 2 buttons Ø 22 mm - 1 device, 45 x 45 - 1 device, 72 x 72 03908

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.


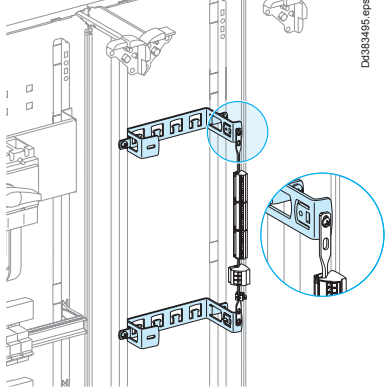

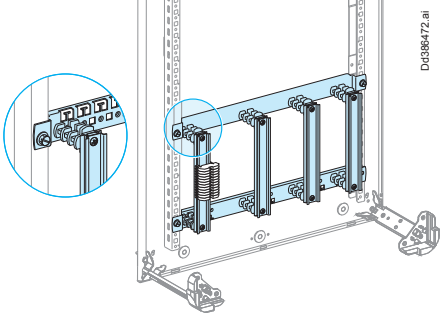
(2) Precut dimensions "Human-switchboard interface", page C-42

Terminal block and earth bar installation

Accessories


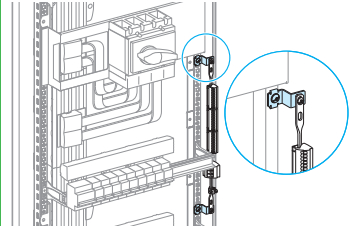
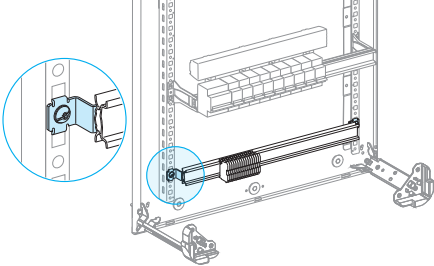
Support plate and dedicated mounting plate, in device compartment

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	04220		04223
Characteristics	<ul style="list-style-type: none"> ■ A mounting plate made up of two supports, is equipped with: <ul style="list-style-type: none"> □ a 1600 mm modular rail (04226) for terminal blocks □ Linergy TB earth bar > page D-23 ■ The supports have cut-outs that can be used to easily tie down the connection wires. 		<ul style="list-style-type: none"> ■ Mounting brackets, fixed to the functional uprights at the top or bottom of the enclosure, is equipped with four 200 mm symmetrical rails. They are installed vertically to facilitate cable running. ■ To facilitate mixing of different size terminal blocks and ensure convenient connections from the front or the side, the distance between rails and the depth of each rail can be adjusted. ■ The assembly has cut-outs that can be used to easily tie down the connection wires. ■ 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"> □ four sets of terminal blocks □ 3 sets of terminal blocks + one or two Linergy TB earth bars (W = 290 mm).

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	04206	04207	04208	04206	04207	04208
Characteristics	H = 15 mm	H = 45 mm	H = 80 mm	H = 15 mm	H = 45 mm	H = 80 mm
	Set of 2 brackets			Set of 2 brackets		

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.																								
	<table border="1"> <thead> <tr> <th>Nb. of vertical modules</th> <th>7</th> <th>11</th> <th>15</th> <th>19</th> <th>23</th> <th>27</th> <th>33</th> </tr> </thead> <tbody> <tr> <td>Height (mm)</td> <td>450</td> <td>650</td> <td>850</td> <td>1050</td> <td>1250</td> <td>1450</td> <td>1750</td> </tr> <tr> <td>Quantity</td> <td>1</td> <td>2</td> <td>3</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Nb. of vertical modules	7	11	15	19	23	27	33	Height (mm)	450	650	850	1050	1250	1450	1750	Quantity	1	2	3				
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)
Devices	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	04066	04066	04067	04067	04076
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
Devices	Compact NSX100/250	Compact INS250, INV100/250	Compact INS250, INV100/250
Mounting	Horizontal	Horizontal	Vertical
Catalogue number	04060	04060	04060 + connection 04062
Configuration	> page C-7	> page C-27	> page C-28

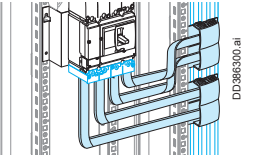
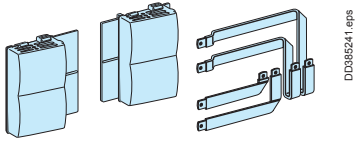
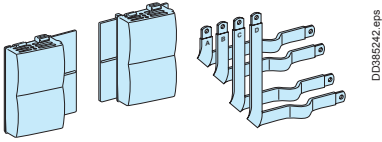
Power supply block with connections between Compact device and Linergy BW isolated busbar
Devices 400-630 A

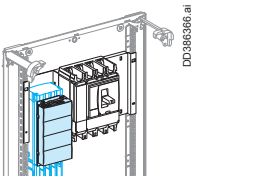
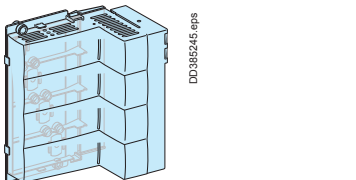
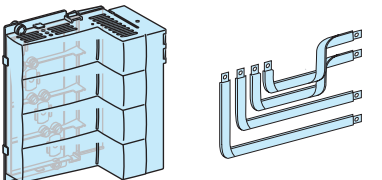
Downstream connection	Power supply block 400 A		Power supply block 630 A	
Devices	Compact NSX400	Compact INS-INV320/400	Compact NSX630	Compact INS-INV500/630
Mounting	Horizontal	Horizontal	Horizontal	Horizontal
Catalogue number	04070	04070	04071	04071
Configuration	> page C-14	> page C-29	> page C-14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

Connections blocks
Power supply blocks
Vertical mounting

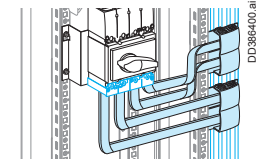
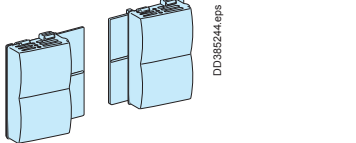
Prefabricated connections

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	
				
Devices	Compact NSX100/250		Compact NSX100/250	Compact INS250, INV100/250
Mounting	Vertical		Vertical, in duct	Vertical, in duct
Catalogue number	04061 + connection 04062		04061 + connection 04064	04061 + connection 04064
Configuration	> page C-8		> page C-8	> page C-8

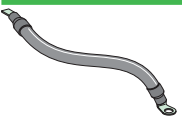
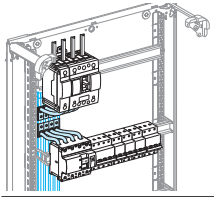
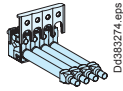
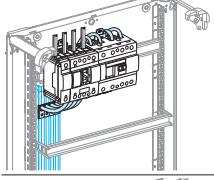
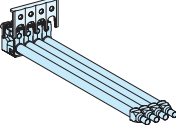
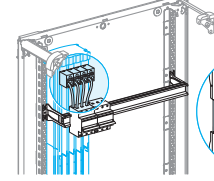
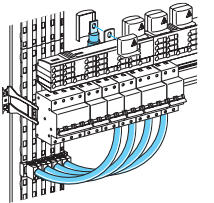
Downstream connection	Universal power supply 400/630 A + connection must be made		Universal power supply 400/630 A + prefabricated connections 400/630 A	
				
Devices	Compact NSX400/630	Compact INS-INV320/630	Compact NSX400/630	Compact INS-INV320/630
Mounting	Vertical	Vertical	Vertical, in duct	Vertical, in duct
Catalogue number	04074 + connection must be made	04074 + connection must be made	04074 + connection 04073	04074 + connection 04073
Configuration	> page C-16	> page C-29	> page C-17	> page C-29

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	
		
Devices	Compact NSX100/250	
Mounting	Horizontal - Motor mechanism module	Vertical - Direct rotary handle
Catalogue number	04061 + connection must be made	
Configuration	> page C-8	> page C-13

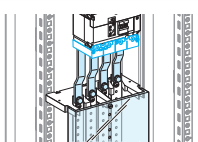
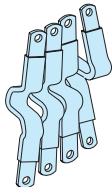
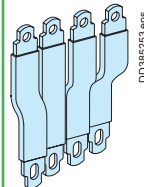
Lineryg BW and devices connections
Other prefabricated connections

Prefabricated connections

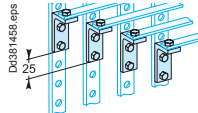
	Description	Allows connection of	Cat. no.
 DC881376-LIN.eps	Set of 4 - 125 A - L = 230 mm <ul style="list-style-type: none"> + 45° angle connector 35 mm² ferrule 	NSXm125, NG125, INS-INV with enclosed terminals cat. no. 28947 or 28948	04145 (1)
	Set of 4 - 160 A - L = 250 mm <ul style="list-style-type: none"> + 45° angle connector 45 mm² ferrule 	NSXm160, INS-INV160 cat. no. 28947 or 28948	04146 (1)
 DD388477.ai	One-piece connection 3/4P - 160 A, L = 165 mm <ul style="list-style-type: none"> Fast connection to Lineryg BW busbars Equipped with male fittings one end for tunnel terminals Respects the degree of protection IPxxB Neutral is clearly indicated (blue) 	 DD388274.eps NSXm, NSXm Vigi, NG125, INS-INV160, C120	04147 (1)
 DD388478.ai	One-piece connection 3/4P - 160 A, L = 440 mm <ul style="list-style-type: none"> Fast connection to Lineryg BW busbars Equipped with male fittings one end for tunnel terminals Respects the degree of protection IPxxB Neutral is clearly indicated (blue) 	 DD383276.eps NSXm, NSXm Vigi, NG125, INS-INV160, C120	04148 (1)
 DD388479.ai	12 tap-off blocks for 1 cable of 6 mm ² (32 A max.) and 1 of 10 mm ² (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	04151
	12 tap-off blocks for 1 cable of 16 mm ² (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	04152
 DD383472.eps	Set of 4 connections 4P - 200 A, L = from 230 to 330 mm Supplied with mounting hardware + insulated covers	Lineryg FM 200 A	04021 + 04150

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
 DD388316.ai	 DD388251.eps	 DD388253.eps
Devices	Compact NSX-INS-INV 100/160/250	Compact NSX-INS-INV 400/630
Mounting	Vertical, in duct	Vertical, in duct
Catalogue number	04065	04075
Configuration	> page C-7	> page C-16

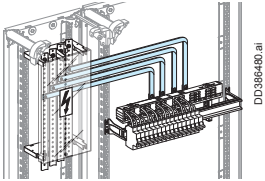
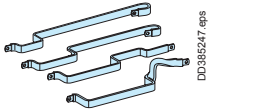
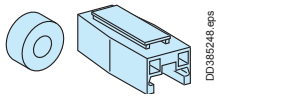
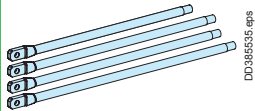
Connections between two sets of Lineryg BS rear busbars

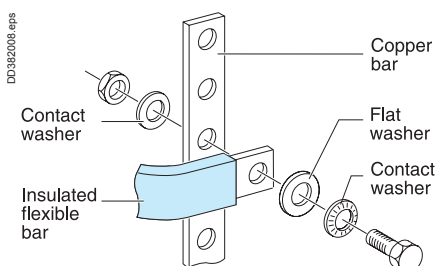
	Connection between 2 sets of Lineryg BS rear busbars
 DC881459.eps	
Devices	Set of 4 copper angle brackets - 250 A
Catalogue number	04190
Allows connection of	Electrical connections between two sets of rear busbars

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-INV 160.

Linery BS and Linery FM busbars connections ≤ 200 A / NSXm

	Linery BS multi-stage busbars	Rear Linery BS busbars	Linery FM 160A / NSXm160
			
Devices			
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 ⁽¹⁾	04743
NSX400	32 x 5	04751
NSX630	32 x 8	04753
INS-INV125/160	20 x 2	04742
INS-INV250	20 x 3	04743
INS-INV400	32 x 5	04751
INS-INV630	32 x 6	04752
Linery FM 200	20 x 3	04743
Fupact 250	24 x 5	04746
Fupact 400	32 x 5	04751
Fupact 630	32 x 8	04753
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 ⁽¹⁾ 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	04267	04257	04206
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	04266 ⁽¹⁾	04256	04265
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

(1) Horizontal mounting not possible with Linergy BW.

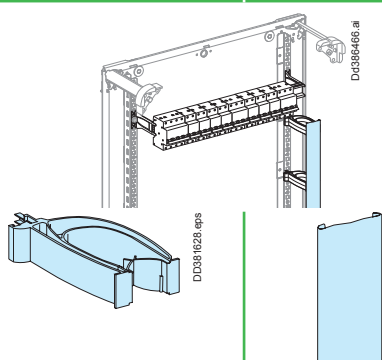

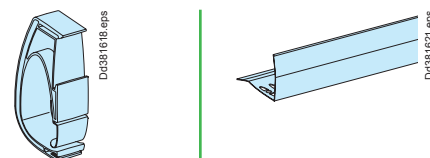
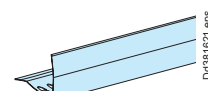
Cable trunking for doors

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

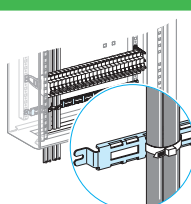
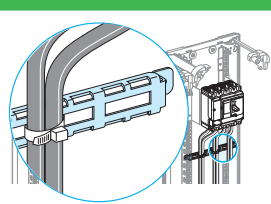
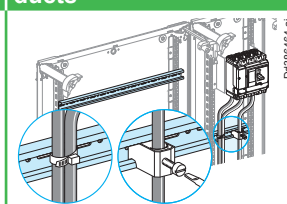
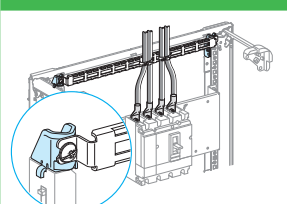
Grommets for wiring through front

Grommets	
Catalogue number	04234
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	04264	04263	04239	04243
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	08867	08868	08783	08866
Characteristics	<ul style="list-style-type: none"> ■ Set of 2 ■ Supplied with hardware for mounting on the functional uprights of the enclosure. 	<ul style="list-style-type: none"> ■ Set of 4 ■ Supplied with hardware for mounting on the functional uprights of the duct. 	<ul style="list-style-type: none"> ■ W = 1600 mm, can be cut to length as needed. ■ Cables secured by ties or cable clamps. ■ Supplied with hardware for mounting on the functional uprights of the enclosure or duct. 	<ul style="list-style-type: none"> ■ Set of 2 ■ Makes it possible to tie down the cables next to the gland plate and gain one module in height. ■ Only for use in 33- and 36-module enclosures.

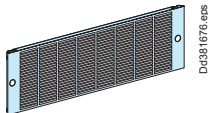


Note: for the connection of power cables, see [page G-8](#).

Ventilation

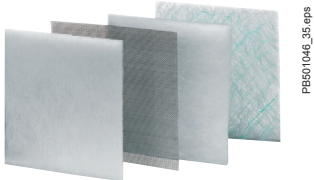
In most cases and notably for IP30 switchboards, the heat dissipation by convection takes place naturally and does not require fans.

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	03891	03895	
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 ²	250 cm ²	
Forced-air ventilation		85 m ³ /h	165 m ³ /h
			
Catalogue numbers	NSYCVF85M230PF		NSYCVF165M230PF
Free flow rate with filter (m ³ /h)	50 Hz	85	165
	60 Hz	98	193
Flow rate with outlet grille (m ³ /h)	50 Hz	63	153
	60 Hz	72	171
Power consumption (W)	17/15		16,3/14,3
(max. current (A))	(0,121/0,097)		(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"> ■ by cutting out a side panel, ■ on front of switchboard by cutting out a 4M (03804) or 6M (03806) plain front plate. 		
Characteristics	The set comprises the fan with a grill and a standard filter. <ul style="list-style-type: none"> ■ Input voltage: 230 V (50/60 Hz). ■ Degree of protection: IP54. ■ RAL 7035. ■ Material: ABS, V0 		

Outlet grille filters, set of 5, spare parts

			
Standards filters G2 M1	NSYCAF125	NSYCAF223	
Fine filters G3 M1	NSYCAF125T	NSYCAF223T	

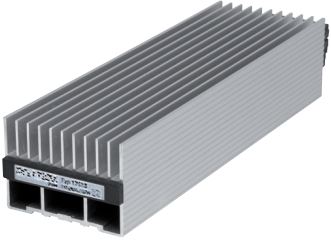


Heating elements

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

Regulating

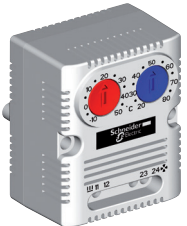
Used to control the temperature inside electrical switchboards in conjunction with heating resistors and fans.

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

Thermal management of switchboards

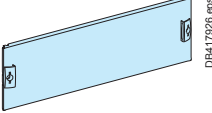
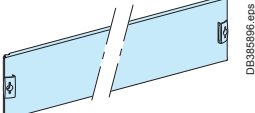
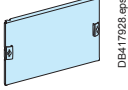
> page G-25

Front plates

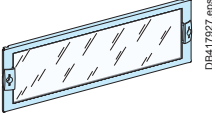
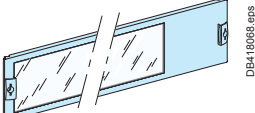
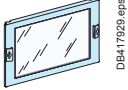
W600 - W850 - W300

Front plates and accessories

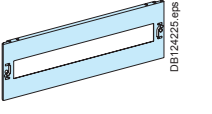
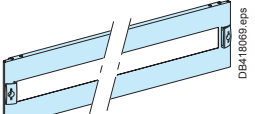
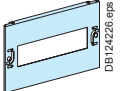
Plain front plates

Used for		W600 Enclosure	W850 Enclosure	W300 Duct
				
		DB417926.eps	DB385986.eps	DB417926.eps
Nb. of vertical modules	Height	Plain	Plain	Plain
1	50 mm	03801	03851	03811
2	100 mm	03802	-	03812
3	150 mm	03803	03853	03813
4	200 mm	03804	03854	03814
5	250 mm	03805	-	03815
6	300 mm	03806	03856	03816
9	450 mm	03807	03859	03817
11	550 mm	-	03861	-
12	600 mm	03808	-	-

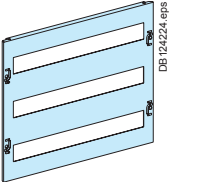
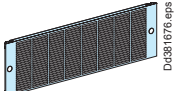
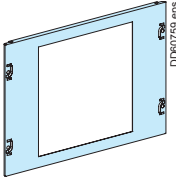
Transparent front plates

Used for		W600 Enclosure	W850 Enclosure	W300 Duct
				
		DB417927.eps	DB418068.eps	DB417926.eps
Nb. of vertical modules	Height	Transparent	Transparent (1)	Transparent
4	200 mm	03342	-	03352
6	300 mm	03343	03363	03353
9	450 mm	03344	03364	03354
12	600 mm	03345	-	-

Modular front plates

Used for		W600 Enclosure	W850 Enclosure	W300 Duct
				
		DB124225.eps	DB418069.eps	DB124226.eps
Nb. of vertical modules	Height	1 row of modular devices	1 row of modular devices	1 row of modular devices
2	100 mm	03202	-	-
3	150 mm	03203	03216	03213
4	200 mm	03204	03217	03214
5	250 mm	03205	03218	-

Other front plates

Used for		W600 wall mounted and floor standing enclosures		
				
		DB124224.eps	D4381676.eps	DD60759.eps
Nb. of vertical modules	Height	3 rows of modular devices	Ventilated	With cut-out for fan or filter > page C-50
1	50 mm	-	03891	-
3	150 mm	-	03895	-
7	350 mm	-	-	03890
8	400 mm	03223	-	-

(1) 2/3 transparent front plate

Finishing parts

Identification labels

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

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

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	01005	01006	01007	01008	01009
Characteristics	Set of 10 Colour: black				

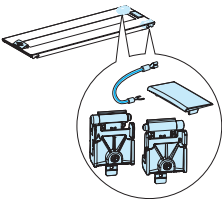
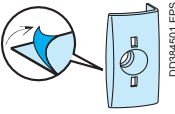

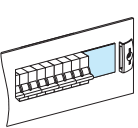
Accessories

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

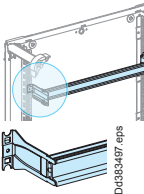
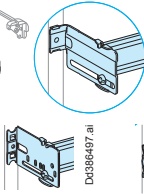
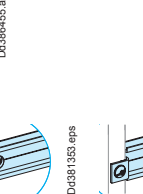
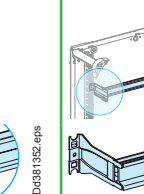
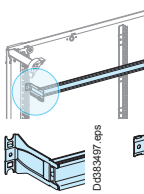
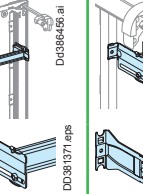
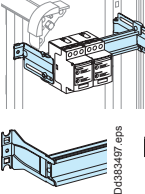
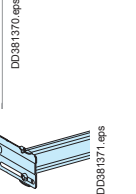
Rails, slotted mounting plates, accessories

Front plates and accessories

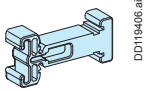
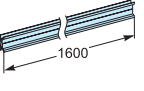
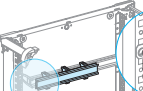
Front plates accessories

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




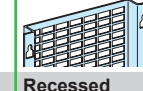
Rails

Used for	W600 Enclosure				W850 Enclosure		W300 Duct	
								
Catalogue numbers	03001	03002	03004	03003	03006	03007	03010	03011
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	04225	04226	04227
Characteristics	Set of 12 raisers (NSXm) Raiser height 11 mm To be completed with 04226 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			
								
Catalogue numbers	03170	03171	03172	03173	03175	03176	03177	03178
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-55.

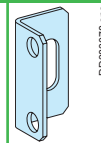
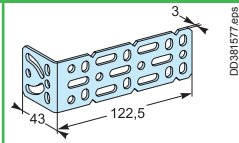
(1) For 850 width floor standing enclosure, fit a W600 mounting plate plus a W300.

Self-tapping screws



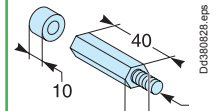
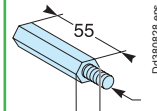
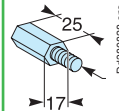
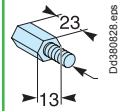
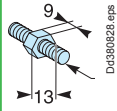
M5	03183
Characteristics	Set of 20, mounting on functional uprights

Universal angle bracket



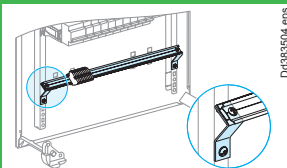
Catalogue numbers	03581	03583
Characteristics	Set of 2	Set of 6

Hexagonal spacers



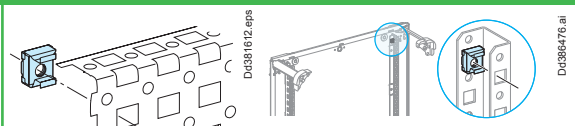
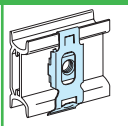
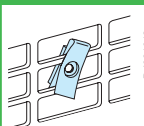
M5	03185	03186	-	03187	-
M6	03195	03196	03198	03197	-
M8	-	-	-	-	03199
Characteristics	Height: 9 mm Set of 4	Height: 23 mm Set of 4	Height: 25 mm Set of 4	Height: 55 mm Set of 4	Height: 40 + 10 mm Set of 4

30° supports



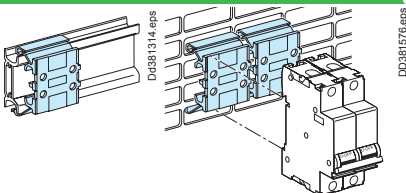
Catalogue numbers	03005
Characteristics	Set of 2 supports (to fix a modular rail, earth bar, etc.)

Clip-nuts



M4	03180	03164	-
M5	03181	03165	-
M6	03182	03166	03194
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	04224
Characteristics	Set of 5, height: 10 mm, length 27 mm Colour: RAL 9001, insulating material

Lineryg distribution and connection systems

Contents

Distribution and connection

Panorama of the solutions	D-2
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Power busbars up to 630 A

Linergy BW	
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Distribution blocks

Linergy DX	
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Linergy DP	
Quick distribution blocks - Compact NSX and INS-INV up to 250 A	D-12
Quick distribution blocks - Compact NSXm up to 160 A	D-13
Linergy DS	
Screw distribution blocks	D-14

Device feeders

Linergy FM	
Quick device feeders	D-16
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Horizontal comb busbar for 27 mm pitch for NG125	D-18
Horizontal comb busbar for 18 mm pitch for Acti 9	D-19
Horizontal comb busbar for 9 mm pitch for Acti 9, C60	D-21

Terminal blocks

Linergy TB	
Earth bars	D-23
Linergy TR	
Terminal blocks	D-24

Terminal blocks and bars

Linergy TA	
Auxiliary connections	D-26

Electrical characteristics

Designing connection ≤ 630 A	D-27
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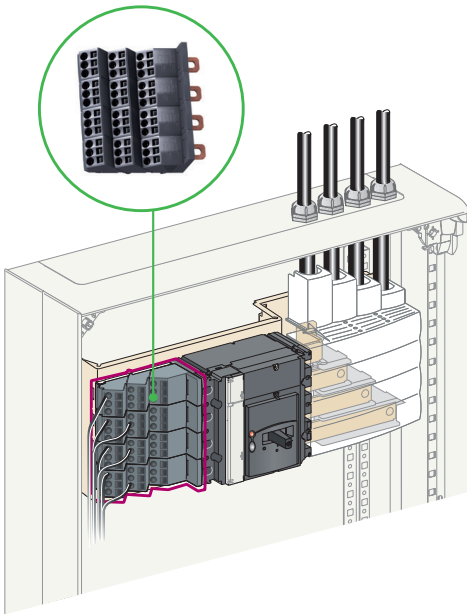
Panorama of the solutions

Distribution and connection

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

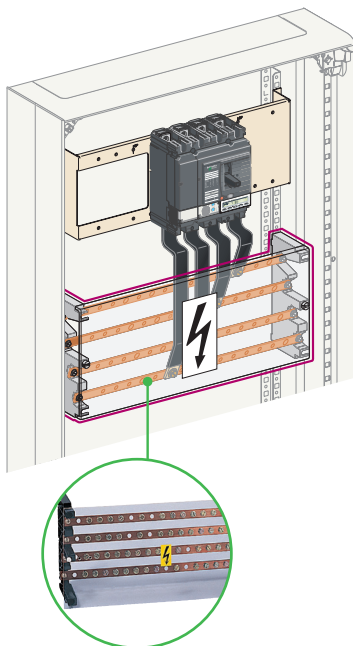
> For incoming devices

Linergy DX 160 A and Linergy DP upto 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



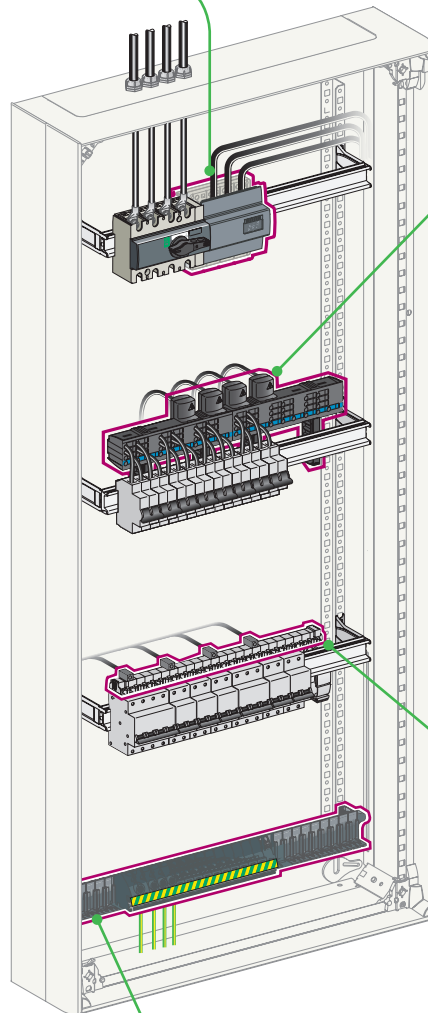
- Traditional, highly polyvalent solution
- Many installation possibilities

> For rows of modular devices

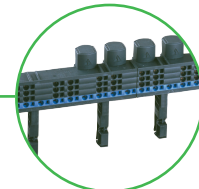
Linergy DX 125 at 160 A distribution block



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

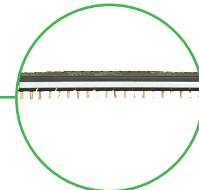


Linergy FM 63/200 A



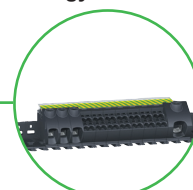
- Reliable spring-terminal connections requiring no maintenance
- Fast installation
- Easy upgrades through replacement or addition of devices
- Easy balancing of phases

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)

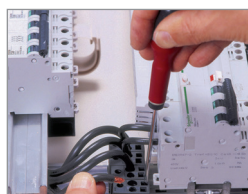
Panorama of the solutions

Distribution and connection

Customised organisation of your switchboard

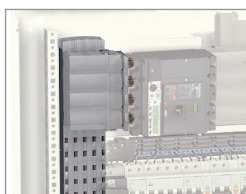
> Busbars up to 630 A for all switchboard architectures

Linergy BW busbars:
compact and insulated for fast upgrades.

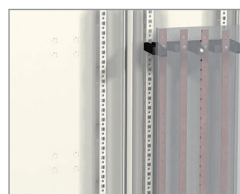


Prefabricated connections, optimised and fully insulated.

Linergy BS busbars:
for traditional distribution.



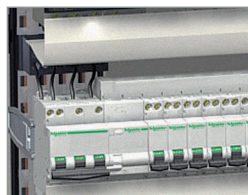
Rear Linergy BS busbars.



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.

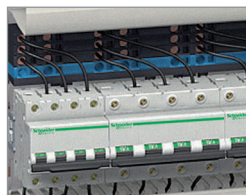


Linergy FH comb busbars.
Linergy FH comb busbars are fully insulated.
Device can be connected in a single operation.

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



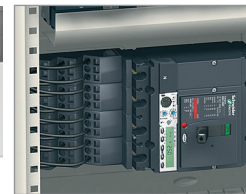
Linergy DX 160 A 1P:
"Quick" distribution block.
Modular combinable components for fast connections.



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



Linergy DP 160 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.

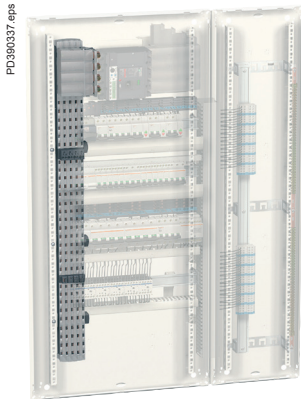


Linergy DP 250 A:
modular and compact.

Linergy BW

Insulated busbars

Power busbars up to 630 A

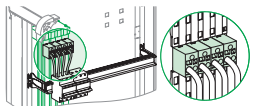
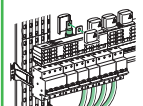
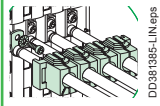
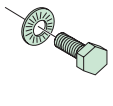


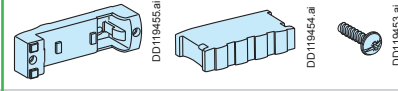
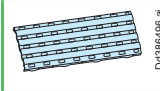
Description

- 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

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

Linergy BW busbar												
		125 A (1)		160 A		250 A		400 A		630 A		
Rated peak withstand current / 60 ms	(I _{pk})	20 kA		30 kA		30 kA		52.5 kA		52.5 kA		
Rated insulation voltage	(U _i)	500 V AC		750 V AC		750 V AC		750 V AC		1000 V AC		
Rated impulse withstand voltage	(U _{imp})	8 kV		8 kV		8 kV		8 kV		8 kV		
Rated short-time current	(I _{sc})	50 kA		150 kA		150 kA		150 kA		150 kA		
Thermal stress	(I ² .t)	7.225 x 10 ⁷		1.000 x 10 ⁸		1.690 x 10 ⁸		4.000 x 10 ⁸		6.250 x 10 ⁸		
Rated short-time withstand current	(I _{cw})	25 kA rms/1 second		25 kA rms/1 second		25 kA rms/1 second		25 kA rms/1 second		25 kA rms/1 second		
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					
					
	IPxxB tap-off terminals	200 A connections	IPxxB insulating covers	Class 8.8 fixing accessories	
	12 tap-off blocks For 1 cable of 6 mm ² (32 A max.) and 1 cable of 10 mm ² (40 A max.) U _i : 750 V I _n : 55 A max. (2)	12 tap-off blocks For 1 cable of 1 to 16 mm ² U _i : 750 V I _n : 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 ²	M6 x 12 + 20 M6 contact washers	
Used for connecting	<ul style="list-style-type: none"> ■ All switchgear equipped with enclosed terminals ■ Linergy FM 160/200 A 	<ul style="list-style-type: none"> ■ All switchgear equipped with enclosed terminals ■ Linergy FM 63/80/160/200 A 	<ul style="list-style-type: none"> ■ Linergy FM 200 A 		
Set of	12	12	4	8	20
Catalogue numbers	04151	04152	04021	04150	04158

Spare parts					
					
	Linergy BW busbar supports				
Rated operational current at 40 °C	(I _e)	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
					
	IPxxB clip-on covers				
Length (mm)		200			
Set of		2			
Catalogue numbers		01201	01201	01201	01201

Note: Electrical characteristics. > page D-27

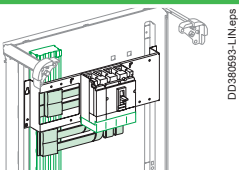
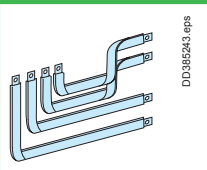
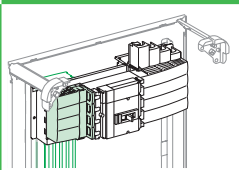
(1) Not compatible with seismic kit.


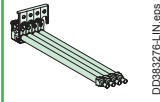
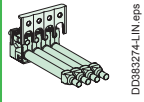
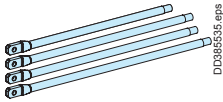
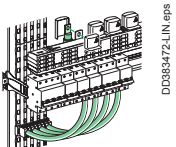
(2) I_{max} = 55 A for all connected cables.



Linergy BW

Insulated busbars

Power busbars up to 630 A

Mounting	Vertical			Horizontal		
						
	Power supply units without connections		Universal power supply units		Universal power supply units with connections	
Switchgear	Fixed ■ Enclosed horizontal NSX100/250 with rotary handle or remote control ■ Vertical Fupact INF 100/160, Fupact ISFT100/250	Fixed ■ Enclosed NSX400/630 with or without Vigi ■ Enclosed INS-INV320/630	Fixed ■ Enclosed NSX100/250 with toggle switch ■ Enclosed Vertical INS-INV250	Fixed ■ In duct NSX100/250 with or without Vigi ■ In duct Vertical INS-INV250	Fixed ■ In duct NSX400/630 with or without Vigi ■ In duct INS-INV320/630	Fixed ■ NSX100/250 horizontal with or without Vigi ■ INS-INV250 horizontal Fixed ■ NSX400 horizontal ■ INS-INV320/400 horizontal Fixed ■ NSX630 horizontal ■ INS-INV500/630 horizontal
Catalogue numbers	04061	04074	04062	04064	04073	04060 (1) 04070 04071

Pre-wired connectors						
						
	Connections		IPxxB 3/4P monobloc connection	IPxxB 3/4P monobloc connection	Connections 4P	Connections 4P
	35 mm ² ferrule + 45° angled connector	45 mm ² 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-INV with enclosed terminals cat. no. 28947 or 28948	■ INS-INV160, NSXm160	■ NSXm160, NSXm Vigi 160 (left-hand position), ■ NG125, INS-INV160, C120	■ NSXm160 (left-hand position), NG125, INS-INV160, C120	■ Linergy FM 160 ■ NSXm160	■ Linergy FM 200 A
Set of	4	4	1	1		4
Catalogue numbers	04145	04146	04148	04147	04030 + 04150 insulated covers	04021 + 04150 insulated covers

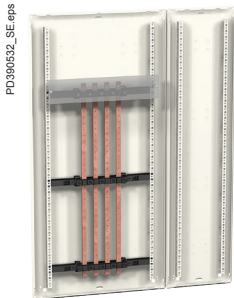
Seismic kit for Linergy BW 160 up to 400 A (1)	
	
	Use the seismic kit 04130 when using Linergy BW - 3 metallic support.
Catalogue numbers	04130

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

Lineryg BS

Rear flat busbars

Power busbars up to 630 A

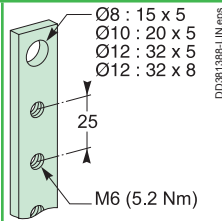


IEC 61439-1 & 2

Description

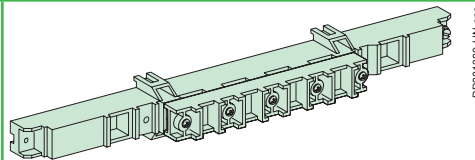
The busbar can be 3-pole or 4-pole with ratings between 160 A and 630 A. 2 lengths are available: 1000 and 1400 mm, which can be cut as required. The number of supports depends on the installation maximum rated current. The supports allow installation of a 5th bar with 15 or 20 x 5 mm cross-section to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

Copper busbars 160 to 630 A



	160 A	250 A	400 A	630 A
Rated peak withstand current / 60 ms (I _{pk})	30 kA	40 kA	55 kA	77 kA
Rated insulation voltage (U _i)	1000 V AC	1000 V AC	1000 V AC	1000 V AC
Rated short-time current (I _{sc})	150 kA	150 kA	150 kA	150 kA
Thermal stress (I ² .t)	1.000 x 10 ⁸	1.690 x 10 ⁸	6.250 x 10 ⁸	1.225 x 10 ⁸
Rated short-time withstand current (I _{cw})	25 kA rms/1 second	25 kA rms/1 second	25 kA rms/1 second	25 kA rms/1 second
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 ² flexible cables with crimped lugs			
Set of	4			
Length (mm)	1000	1400	1000	1400
Catalogue numbers	04161	04171	04162	04172

Insulating busbar support



Distance between supports depending on I _{cw} (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	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)						
Catalogue numbers	04191	04191	04191	04191	04191	04191	LG4193

	Prefabricated connections	IPxxB insulated protective shield
Devices	Rear Lineryg BS busbars set of 4	Lineryg FM & NSXm160
Cat. numb.	04029	04030
		04190
		04198

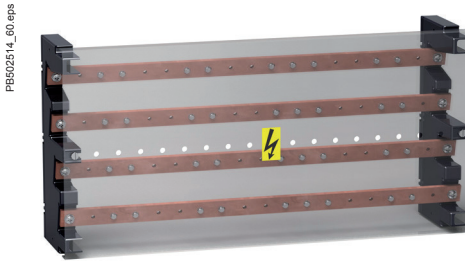
Note: Electrical characteristics. > page D-27

(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 distribution blocks

Power busbars up to 630 A



IEC 61439-1 and 2

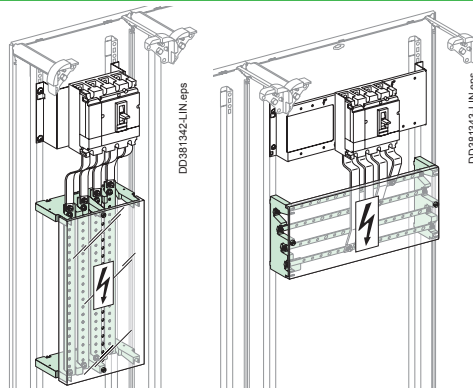
Description

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



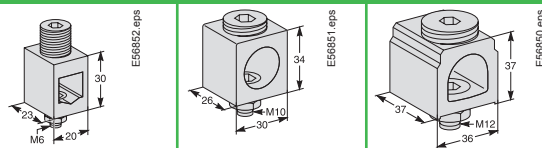
	160 A	250 A	400 A	630 A
Rated peak withstand current / 60 ms (Ipk)	30 kA	40 kA	55 kA	55 kA
Rated insulation voltage (Ui)	750 V AC			
Rated operational voltage (Ue)	440 V AC			
Rated impulse withstand voltage (Uimp)	8 kV			
Rated short-time current (Isc)	150 kA	150 kA	150 kA	150 kA
Thermal stress (I².t)	1.000 x 10 ⁸	1.690 x 10 ⁸	4.000 x 10 ⁸	6.250 x 10 ⁸
Rated short-time withstand current (Icw)	25 kA rms/1 second	25 kA rms/1 second	25 kA rms/1 second	25 kA rms/1 second
Total connection capacity	4 incomers per phase: Ø from 8 to 12 mm clearance holes 13 outgoing per phase 16 to 50 mm²: 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		

Linery BS

Common accessories

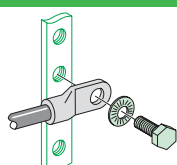
Power busbars up to 630 A

Incomer accessories



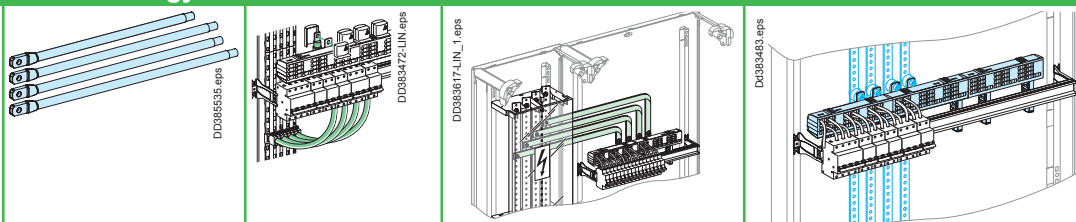
Connectors for copper or aluminium cables			
Rated operational current at 40 °C (Ie)	160 A	250 A	400 A
Supply at incoming terminals	16 to 70 mm ² cables	16 to 185 mm ² cables	70 to 300 mm ² cables
Composition	Supplied with fixings at busbar end		
Set of	4		
Catalogue numbers	07051	07052	07053

Outgoer accessories



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

Connections to device and Linery 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	Linery FM 160 A	Linery FM 200 A	Linery BS busbars in duct	Rear Linery BS busbars
Catalogue numbers	04030	04021	04024	04029

Note: Electrical characteristics. > page D-27



Linery 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
	PB104499-6.eps	PB104499-6.eps
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 kA	10 kA
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
Rated short-time current Icw (Icc)	150 kA	150 kA
Thermal stress (I².t)	9,03 x 10 ⁶	9,03 x 10 ⁶
Rated operational frequency	50/60 Hz	50/60 Hz
Degree of protection	IPxxB	IPxxB
Incoming terminals	1 tunnel terminal 25 ² /Ph	1 tunnel terminal 25 ² /Ph
Total connection capacity, outgoing terminals	24 connections: 4 x 6 ² /phase 12 x 6 ² /neutral	24 connections: 4 x 6 ² /phase 12 x 6 ² /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
Catalogue numbers	04040	04041

Accessories

Catalogue numbers	-	-
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Lineryg DX

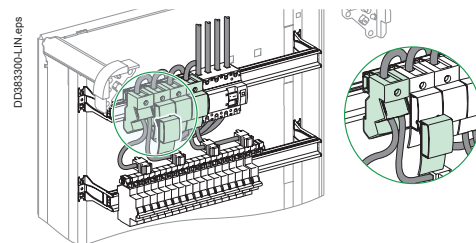
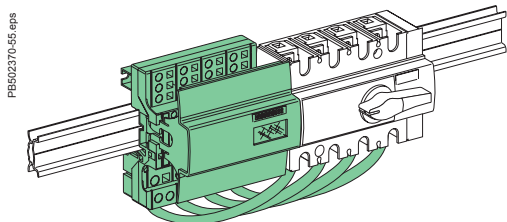
Quick distribution blocks

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	
	PB500924-75 eps		DD386251 eps
125 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		160 A	
20 kA		20 kA	
750 V AC		750 V AC	
690 V AC		690 V AC	
8 kV		8 kV	
150 kA		150 kA	
2.025×10^7		2.025×10^7	
50/60 Hz		50/60 Hz	
IPxxB		IPxxB	
1 tunnel terminal 35 ² /Ph		Supplied with a prefabricated flexible connection equipped with tunnel terminals.	
52 connections: 7 x 4 ² /phase 3 x 6 ² /phase 2 x 10 ² /phase 1 x 16 ² /phase (screw terminal)		52 connections: 7 x 4 ² /phase 3 x 6 ² /phase 2 x 10 ² /phase 1 x 16 ² /phase (screw terminal)	
127 x 108 x 48 12 x 9 mm pitch		127 x 108 x 48 12 x 9 mm pitch	
Screwed to plain or slotted backplate or onto DIN rail		Screwed to plain or slotted backplate or onto DIN rail	
Possible to combine 2 terminal blocks (2nd terminal block supplied from enclosed terminals in the 1st, I _{max} of 2nd terminal block: 80 A)			
IEC 61439-2		IEC 61439-2	
960 °C		960 °C	
3		3	
04045		04046 (1)	
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 ² end fittings for tunnel terminals	
04047 (1)		04149	



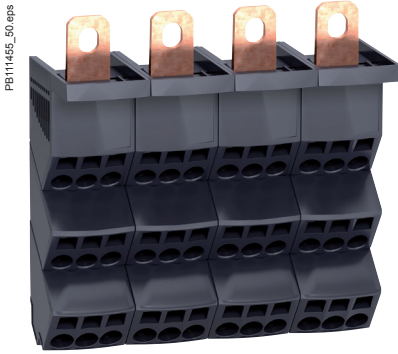
Nota: Electrical characteristics. > page D-27

(1) For INS-INV160: adaptation with references 28947 and 28948

Lineryg DP

Quick distribution blocks - Compact NSX and INS-INV up to 250 A

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-INV up to 250 A. It can also be clipped onto a modular rail.

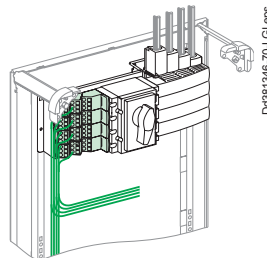
Advantages

- 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			Additional block	
Number of poles	3P	4P	3P/4P	
Rated operational current (Ie)	250 A	250 A	250 A	
Rated peak withstand current (Ipk)	30 kA	30 kA	30 kA	
Rated short-time current with upstream protection of 150 kA Icc (Icc)	150 kA	150 kA	150 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	
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			
Standard for installation inside Prisma	IEC 61439-1-2			
Glow-wire 60695-2-11	960 °C			
Catalogue numbers	04033	04034	04155 (3P) 04156 (4P)	

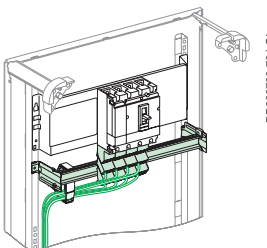
Technical Data		
Common characteristics		
Rated conditional short-circuit current of an assembly (Isc)		The reinforced breaking capacity due to cascading in circuit-breaker combinations is maintained. The worst-case situations have been tested.
Rated insulation voltage (Ui)		750 V AC
Rated operational 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 INS-INV250** devices in the enclosures.

For details on mounting plates, refer [pages C-4, C-6, C-8, C-10, and C-11](#).



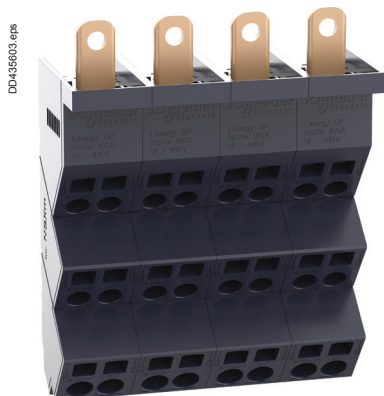
It can also be mounted downstream of vertically mounted **Compact NSX100/250** and **Compact INS-INV250** devices in the enclosures. In this case, the Lineryg DP is mounted on a depth-adjustable modular rail.

Note: Electrical characteristics > [page D-27](#)

Linergy DP

Quick distribution blocks - Compact NSXm up to 160 A

Distribution blocks



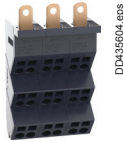

IEC 60947-7-1, IEC 61439-1 and 2 Description

The Linergy DP quick distribution block is designed for installation directly downstream of Compact NSXm up to 160 A. It can also be clipped onto a modular rail.

Advantages

- 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

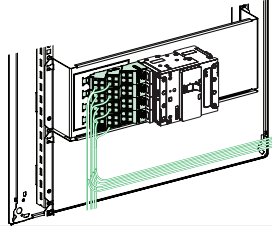
Number of poles	3P	4P
		
Rated operational current (Ie)	160 A	160 A
Rated peak withstand current (Ipk)	20 kA	20 kA
Rated short-time current (Icc)	70 kA	70 kA
Thermal stress (I².t)	4.7 x 10⁶ A²S	4.7 x 10⁶ A²S
Total connection capacity, outgoing terminals	18 connections: 4 x 10²/phase 2 x 16²/phase	24 connections: 4 x 10²/phase 2 x 16²/phase
Incomer terminals	1 cable lug 70 mm² per pole	
Dimensions (H x W x D)	140 X 81 X 58 mm	140 X 108 X 58 mm
Installation	On mounting plate or DIN rail	
Product certifications	ASEFA	
Standard for installation inside Prisma	IEC 61439-1-2	
Glow-wire 60695-2-11	960 °C	
Catalogue numbers	04038	04039



Technical Data

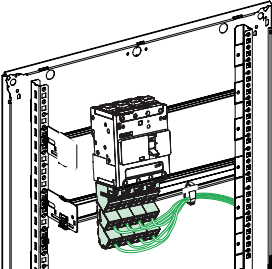
Common characteristics		
Rated conditional short-circuit current of an assembly (Isc)		The reinforced breaking capacity due to cascading in circuit-breaker combinations is maintained. The worst-case situations have been tested.
Rated insulation voltage (Ui)		800 V AC
Rated operational voltage (Ue)		690 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 NSXm** devices in the enclosures.

For details on mounting plates, refer [page C-4](#).



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

Note: Electrical characteristics > [page D-27](#)

Linergy 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
Terminal capacity				
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 _{pk})	I _{pk} /60 ms	25 kA	36 kA	60 kA
	I _{pk} /6 ms	-	-	-
Rated short-time withstand current (I _{cc}) (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	LGY112510	LGY116013	LGY125014	LGY410028

Linery DS

Screw distribution blocks

Distribution blocks

Technical data

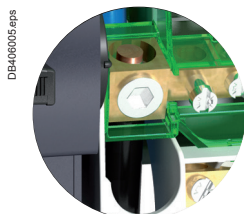
Common characteristics

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
Overtoltage 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



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

			Neutral terminal strip		
125 A	160 A	100 A	125 A	100 A	15 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	-	-	-
LGY412548	LGY412560	LGY416048	LGYN1007	LGYN12512	LGYN12515

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 ²	1.5 to 16 mm ²	1.5 to 16 mm ²	1.5 to 16 mm ²	2.5 to 25 mm ²	6 to 35 mm ²	10 to 35 mm ²	10 to 35 mm ²
Section Flexible cable or with ferrule	1.5 to 10 mm ²	1.5 to 10 mm ²	1.5 to 10 mm ²	1.5 to 10 mm ²	1.5 to 16 mm ²	4 to 25 mm ²	4 to 25 mm ²	6 to 35 mm ²
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 ²	1.5 to 50 mm ²	25 to 70 mm ²		35 to 120 mm ²			
Section Flexible cable or with ferrule	6 to 35 mm ²	1.5 to 35 mm ²	16 to 50 mm ²		25 to 95 mm ²			
Tightening torque	8 N.m	4 N.m	1P: 10 N.m	4P: 5 N.m	14 N.m			

Linergy FM

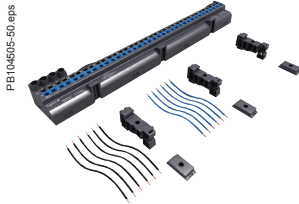
Quick device feeders

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 ≥ 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
		63 A	80 A	160 A
Rated peak withstand current	(I _{pk}) 60ms	15 kA	16 kA	27 kA
Rated conditional short-circuit current of an assembly	(I _{sc})	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, and their whole performance is maintained.		
Insulation voltage	(U _i)	500 V AC	500 V AC	750 V AC
Rated voltage	(U _e)	440 V AC	440 V AC	690 V AC
Rated impulse withstand voltage	(U _{imp})	6 kV	6 kV	8 kV
Maximum current	(I _{max})	-	-	50 A for feeder for 1 10 mm ² cable/63 A for feeder for 2 10 mm ² cables
Thermal stress	(I ² .t)	9,03 x 10 ⁶	9,03 x 10 ⁶	3,600 x 10 ⁷
Rated operational frequency		50/60 Hz	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 ²	Enclosed terminals for flexible cables 6 to 25 mm ² or rigid cables 10 to 35 mm ²	Direct onto the row by cable 70 mm ² with crimped lug, or flexible bar 20 x 3 from busbar with prefabricated connection
Downstream connection capacity (1)	Phase	(6 x 4 mm ²) + (6 x 6 mm ²)	18 x 6 mm ²	18 x 10 mm ²
	Neutral	(4 x 4 mm ²) + (4 x 6 mm ²)	18 x 6 mm ²	9 x 10 mm ²
Accessories included	Pre-stripped copper connections	10 x 4 mm ² + 6 x 6 mm ² (W = 100 mm)	12 blue + 12 black	12 of 10 mm ² (W = 100 mm)
	Protection cover	-	-	For rows (IPxxB)
	Fixings	-	-	For rows
Catalogue numbers		04008 (1)	04000	04018 (1)

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.

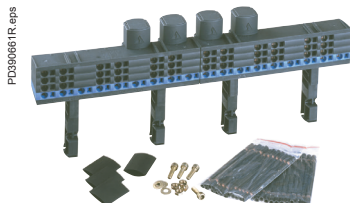
Connections to the device feeders





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
Catalogue numbers	04021 + 04150 insulating covers	04024	04029	04030
			04030	04743

Linergy FM

Quick device feeders

Device feeders



2P	3P	4P (1)	4P - L = 36 modules
			
200 A	200 A	200 A	200 A
25 kA	25 kA	30 kA	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 ² cable/63 A for feeder for 2 10 mm ² cables			
3,600 x 10 ⁷	3,600 x 10 ⁷	3,600 x 10 ⁷	3,600 x 10 ⁷
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 ² with crimped lug, or flexible bar 20 x 3 from busbar with prefabricated connection			
12 x 10 mm ²	36 x 10 mm ²	36 x 10 mm ²	54 x 10 mm ²
12 x 10 mm ²	-	18 x 10 mm ²	27 x 10 mm ²
24 of 10 mm ²	24 of 10 mm ²	24 of 10 mm ²	36 of 10 mm ²
-	-	-	-
-	-	-	-
04012 (1) (2)	04013 (1)	04014 (1) (2)	04026 (1)

Spare parts



4 covers for 160/200 A Linergy FM rows

Catalogue numbers
01202

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

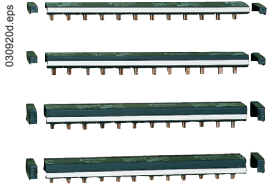
(1) Cable to be used without ferrules.

(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 comb busbar reference includes: ■ 1 x single or 2 pole comb busbar + 8 tooth-caps + 2 side plates ■ 1 x 3 or 4 pole comb busbar + 4 tooth-caps + 2 side plates 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)			
Use					
Power supply by connector recommended					
Number of 27 mm modules		16	16	15	16
Set of		1			
Catalogue numbers		14811	14812	14813	14814

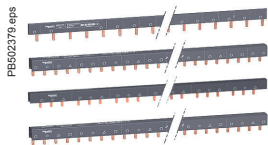
Installation	
Comb busbars allow dismountability (1-2)	

Accessories	
Number of poles	1P, 2P, 3P, 4P
	Tooth covers PG 134071, eps
	Insulated connector 030621d, eps 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 identifi
Use	
	For 25 mm ² semi-rigid cable
Set of	20 / 4
Catalogue numbers	14818 / 14885
Installation	

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)											
Use												
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	1
Catalogue numbers												
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



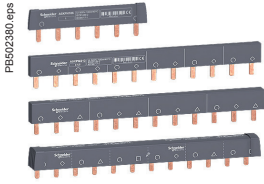
Accessories

Number of poles	1P	2P	3P	4P	-	-	-
	Side plates				Tooth covers	Connectors	
	Lateral end-caps providing IP20 protection				To insulate teeth that have been left free	Monoconnect Comb busbar power supply. Horizontal in comer on each side. For 35 mm ² 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

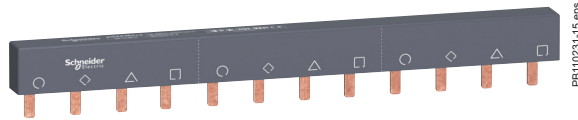


IEC 60947-7-1, IEC 61439-2

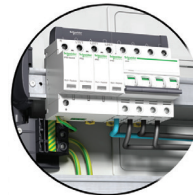
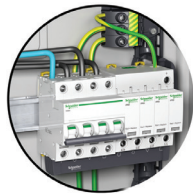
Description

- 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)					
Use						
Type	Power supply by connector recommended					
Set of	L1	L1L2	L1L2L3	NL1L2L3	NL1NL2NL3	
Set of	1	1	1	1	1	
Catalogue numbers						
12 modules of 18 mm	A9XPM112	A9XPM212	A9XPM312	A9XPM412	A9XPM512 (1)	



Installation



Accessories

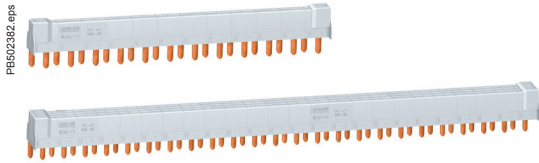
			
	Tooth covers	Connectors	
	To insulate teeth that have been left free	Double terminals	Monoconnect
		Comb busbar power supply	
Use			
		Horizontal in-come on each side For 35 mm ² cable Tightening torque 4 N.m	
Set of	20	4	4
Catalogue numbers	A9XPT920	A9XPCD04	A9XPCM04
Installation			
			

(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
Catalogue numbers		21501	19512	21503	21505	19516	21507
Comb busbars alone							
Number of 18 mm modules	Comb busbar	48			48		
		21089			21093		

C60/ID Group Feeder comb busbars alone		3P+N		
Number of poles				
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
	Power supply	Through left-hand	Through left-hand	Through right-hand
Catalogue numbers		10545	10546	10547

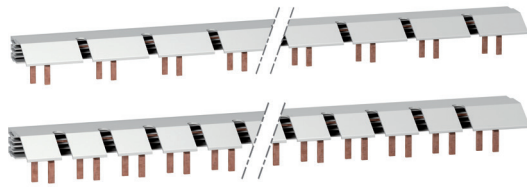
Accessories				
Number of poles	1P+N	3P+N		
	Side plates	Tooth caps (3 x 18-mm module)	Tooth caps (1 x 18-mm module)	Connectors (grey)
Set of	40	12	10	4
Catalogue numbers	21094	21095	21096	10405
				21098

Lineryg FH

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

Device feeders

PE602983-eps



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.

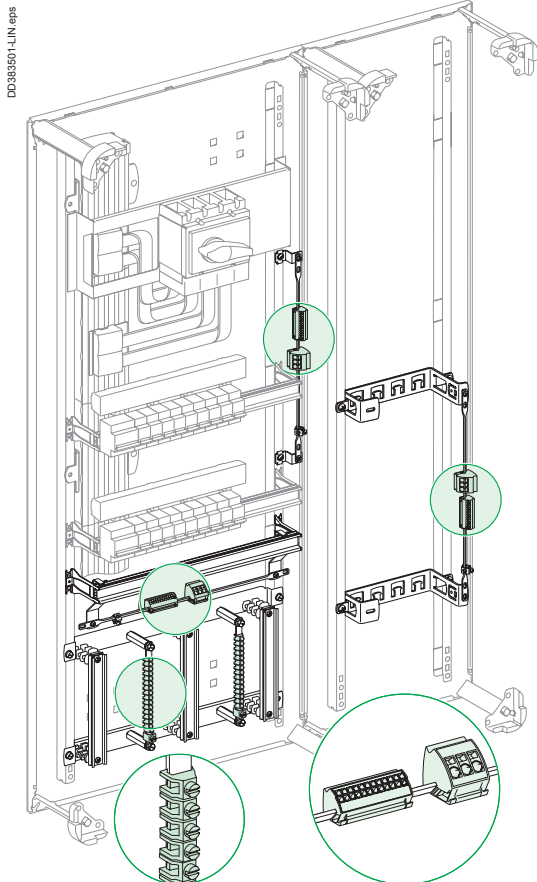
Acti 9				
9 mm poles, cuttable				
Number of poles	1P + N	3P + N	1P + N	3P + N
	A9N21036			
	Comb busbars		Comb busbars DPN Vigi	
Rated operational current at 40 °C (Ie)	63 A			
Rated conditional short-circuit current of an assembly (Isc)	Compatible with the breaking capacity of Acti 9 circuit breaker			
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)
Set of	20		10	10
Catalogue numbers	A9N21039	A9N21040	A9N21041	A9N21042
				Tooth caps (1 x 18 mm module)
				10
Catalogue numbers				A9N21050

Linergy TB

Earth bars

Terminal blocks

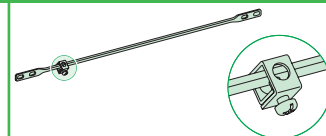


Description

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.

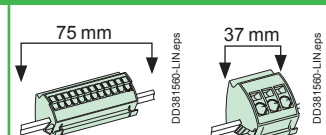
Fast-connecting earth bar



DD381560-LIN.eps

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

Accessories

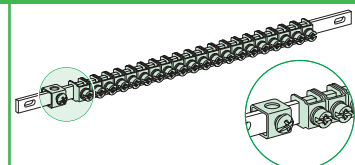


DD381560-LIN.eps

DD381560-LIN.eps

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

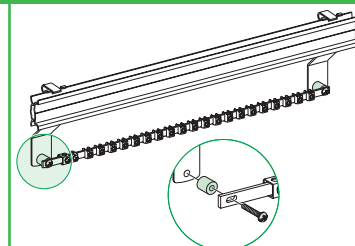
Accessories



DD381516-LIN.eps

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

Accessories



DD381519-LIN.eps

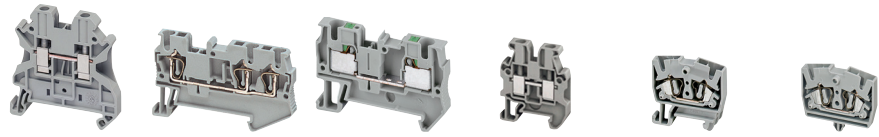
	Neutral bar
	Converts an earth bar to a neutral bar
Composition	2 insulating spacers
Catalogue numbers	04210




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 ² (2 pts)	Grey	NSYTRV22	NSYTRR22	NSYTRP22	NSYTRV22M	NSYTRR22M	NSYTRR22MF
		Blue	NSYTRV22BL	NSYTRR22BL	NSYTRP22BL	NSYTRV22MBL	NSYTRR22MBL	NSYTRR22MBFL
		Orange	NSYTRV22AR	NSYTRR22AR	NSYTRP22AR	-	-	NSYTRR22MFF [*]
	2.5 mm ² (3 pts)	Grey	NSYTRV23	NSYTRR23	NSYTRP23	-	-	-
		Blue	NSYTRV23BL	NSYTRR23BL	NSYTRP23BL	-	-	-
		Orange	-	NSYTRR23AR	NSYTRP23AR	-	-	-
	2.5 mm ² (4 pts)	Grey	NSYTRV24	NSYTRR24	NSYTRP24	-	NSYTRR24M	NSYTRR24M
		Blue	NSYTRV24BL	NSYTRR24BL	NSYTRP24BL	-	NSYTRR24MBL	NSYTRR24MBL
	2.5 mm ² (4 pts, 2 levels)	Grey	NSYTRV24D	NSYTRR24D	NSYTRP24D	-	-	-
		Blue	NSYTRV24DBL	NSYTRR24DBL	NSYTRP24DBL	-	-	-
	2.5 mm ² (6 pts, 3 levels)	Grey	NSYTRV26T	NSYTRR26T	NSYTRP26T	-	-	-
		Blue	NSYTRV26TBL	NSYTRR26TBL	NSYTRP26TBL	-	-	-
	4 mm ² (2 pts)	Grey	NSYTRV42	NSYTRR42	NSYTRP42	NSYTRV42M	-	-
		Blue	NSYTRV42BL	NSYTRR42BL	NSYTRP42BL	NSYTRV42MBL	-	-
		Orange	NSYTRV42AR	NSYTRR42AR	-	-	-	-
	4 mm ² (3 pts)	Grey	NSYTRV43	NSYTRR43	NSYTRP43	-	-	-
		Blue	NSYTRV43BL	NSYTRR43BL	NSYTRP43BL	-	-	-
	4 mm ² (4 pts)	Grey	NSYTRV44	NSYTRR44	NSYTRP44	-	-	-
		Blue	NSYTRV44BL	NSYTRR44BL	NSYTRP44BL	-	-	-
	4 mm ² (4 pts, 2 levels)	Grey	NSYTRV44D	NSYTRR44D	-	-	-	-
Blue		NSYTRV44DBL	NSYTRR44DBL	-	-	-	-	
6 mm ² (2 pts)	Grey	NSYTRV62	NSYTRR62	-	-	-	-	
	Blue	NSYTRV62BL	NSYTRR62BL	-	-	-	-	
10 mm ² (2 pts)	Grey	NSYTRV102	NSYTRR102	-	-	-	-	
	Blue	NSYTRV102BL	NSYTRR102BL	-	-	-	-	
16 mm ² (2 pts)	Grey	NSYTRV162	NSYTRR162	-	-	-	-	
	Blue	NSYTRV162BL	NSYTRR162BL	-	-	-	-	
Earth protection	2.5 mm ² (2 pts)	Green/Yellow	NSYTRV22PE	NSYTRR22PE	NSYTRP22PE	NSYTRV22MPE	NSYTRR22MPE	-
	2.5 mm ² (3 pts)	Green/Yellow	NSYTRV23PE	NSYTRR23PE	NSYTRP23PE	-	-	-
	2.5 mm ² (4 pts)	Green/Yellow	NSYTRV24PE	NSYTRR24PE	NSYTRP24PE	-	-	-
	4 mm ² (2 pts)	Green/Yellow	NSYTRV42PE	NSYTRR42PE	NSYTRP42PE	NSYTRV42MPE	-	-
	4 mm ² (3 pts)	Green/Yellow	NSYTRV43PE	NSYTRR43PE	NSYTRP43PE	-	-	-
	4 mm ² (4 pts)	Green/Yellow	NSYTRV44PE	NSYTRR44PE	NSYTRP44PE	-	-	-
	6 mm ² (2 pts)	Green/Yellow	NSYTRV62PE	NSYTRR62PE	-	-	-	-
	10 mm ² (2 pts)	Green/Yellow	NSYTRV102PE	NSYTRR102PE	-	-	-	-
Knife Disconnect	2.5 mm ² (2 pts)	Grey	NSYTRV22SC	NSYTRR22SC	NSYTRP22SC	-	-	-
		Orange	NSYTRV22ST (1)	NSYTRR22SCAR	-	-	-	-
	2.5 mm ² (3 pts)	Grey	-	NSYTRR23SC	NSYTRP23SC	-	-	-
		Orange	-	NSYTRR23SCAR	-	-	-	-
	2.5 mm ² (2 levels)	Grey	NSYTRV24SCD	NSYTRR24SCD	-	-	-	-
Fuse Disconnect	4 mm ² (2 pts)	Black	NSYTRV42SF5	-	-	-	-	-
	5 x 20 mm fuse	Black (12 V)	NSYTRV42SF5LD (2)	-	-	-	-	-
		Black (230 V)	NSYTRV42SF5LA (2)	-	-	-	-	-
Basic Disconnect(3)	4 mm ² (2 pts)	Grey	NSYTRV42TB	NSYTRR42TB	NSYTRP42TB	-	-	-
Measuring transducer	6 mm ² (2 pts) Disconnect	Grey	NSYTRV62TTD	-	-	-	-	-
	6 mm ² (2 pts)	Grey	NSYTRV62TT	-	-	-	-	-
	6 mm ² (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	Included	NSYTRACR42			
-	NSYTRACT22	-	-			
-	NSYTRACT22	-	-			
-	NSYTRACT22	-	-			

Cable ends compatible with all technologies

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

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

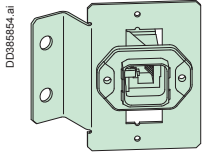


Linery TA
Auxiliary connections

Terminal blocks and bars

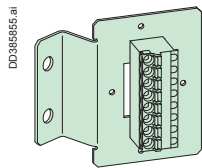
Connectors

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
Catalogue number	LGY4230	

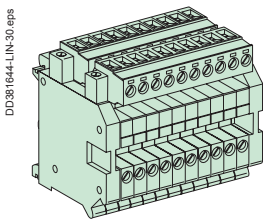


8P male-female connector with mounting plate

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 ²	
Catalogue number	LGY4231	

Terminal block

For distributing auxiliary voltages in power and regulation equipment.

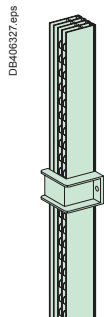


Terminal block for auxiliary wiring

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 ²		
Tightening torque	0.5 to 0.6 N.m		
Composition	3.5 18-mm modules		
Catalogue number	04228		

Bus duct

Four-pole auxiliary bus duct



		Duct for 4 conductors
		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	
Catalogue number	04203	

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	XB5PUSB3
	Ethernet interface, RJ45 jack	RJ45 port Cat. 6	IP20 IP65, IP67, IP69K with protection cover	XB5PRJ45
	Plastic protection cover IP65/IP67	Ø 22 mm/0.866 in. USB and RJ45 ports	Black 10	ZBSP1
	Rigid plastic protection cover IP65/IP67	Ø 22 mm/0.866 in. USB and RJ45 ports	Transparent 1	ZBSP2
	Metal protection cover IP65/IP67/IP69K	Ø 22 mm/0.866 in. USB and RJ45 ports	Silver 1	ZBSP3

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 _{nc} (A)												
Linery BW												
Insulated bus bar Linery BW 125 A	134	125	129	120	125	116	120	111	116	106	111	■
Insulated bus bar Linery BW 160 A	171	160	166	154	160	148	154	142	148	135	142	■
Insulated bus bar Linery BW 250 A	267	250	259	241	250	231	241	222	231	211	222	■
Insulated bus bar Linery BW 400 A	428	400	414	385	400	370	385	355	370	338	355	■
Insulated bus bar Linery BW 630 A	673	630	652	607	630	583	607	558	583	532	558	■
Linery BS												
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	■
Linery BS												
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 400 A	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	■
Linery BS												
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 400 A	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	■
Linery DX												
Quick distribution block Linery DX 4P 125 A	134	125	129	120	125	116	120	111	116	106	111	■
Quick distribution block Linery DX 4P 160 A	171	160	166	154	160	148	154	142	148	135	142	■
Quick distribution block Linery DX 1P 1P 160 A	171	160	166	154	160	148	154	142	148	135	142	■
Linery DP												
Quick distribution block Linery DP 3P-4P 160 A	160	160	155	155	150	150	145	145	140	140	135	■
Quick distribution block Linery DP 3P-4P 250 A	267	250	259	241	250	231	241	222	231	211	222	■
Linery FM												
Quick device feeders Linery FM 4P 63 A	67	63	65	61	63	58	61	56	58	53	56	■
Quick device feeders Linery FM 4P 80 A	86	80	83	77	80	74	77	71	74	68	71	■
Quick device feeders Linery FM 4P 160 A	171	160	166	154	160	148	154	142	148	135	142	■
Quick device feeders Linery FM 2P 200 A	214	200	207	193	200	185	193	177	185	169	177	■
Quick device feeders Linery FM 3P 200 A	214	200	207	193	200	185	193	177	185	169	177	■
Quick device feeders Linery FM 4P 200 A	214	200	207	193	200	185	193	177	185	169	177	■
Quick device feeders Linery FM 4P 200 A (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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Accessories	E-10
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Prisma G IP55

Presentation	E-19
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Side panels	E-27
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Spare-parts	E-29
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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.

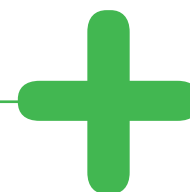
> Optimised, upgradeable installation

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

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"> ■ Plain or transparent, opening to right or left, 130° ■ Earthed by design ■ Supplied with a handle and keylock (key 405) ■ Distance behind door = 58 mm (possibility of push-buttons, lamps installation). ■ 2 closing points on 15- to 24-module doors ■ 3 closing points on 27-, 30-, 33- and 36-module doors.
Mounting	Surface mounting, floor-standing, flush mounting via a kit > page E-10

PB115630_39.jpg



Easy design with
Rapsody software
> page B-23

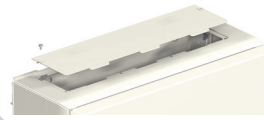
Presentation

Up to 630 A

3 widths available:
300/600/850

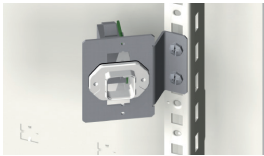
Lengthened rear upright to facilitate the fitting of accessories (cables tying) and installation of earth, neutral terminals, etc....

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



Hooks for quick plate pre-mounting

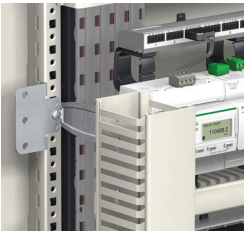
Plates for connecting control, command and communication circuits



Ergonomic handle



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



New pillar with natural positioning



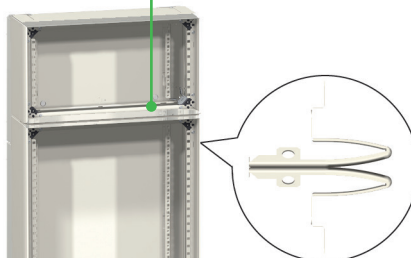
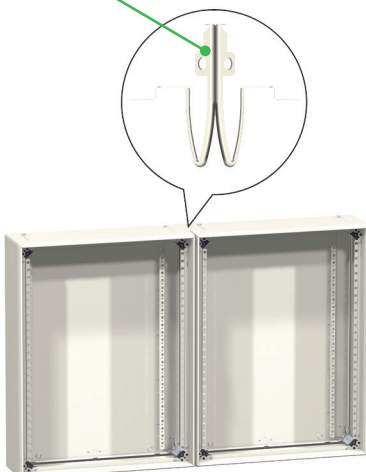
Combination: old and new versions fully compatible

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	Transparent door	Rear + top plate + combination upright + plinth	Plain door	Transparent door
27	1530	08242 (1)	08252 (1)	08262 (1)	08272	08282	08292
30	1680	08243 (1)	08253 (1)	08263 (1)	08273	08283	08293
33	1830	08244	08254	08264	08274	08284	08294
36	1980	08245	08255	08265	08275	08285	08295

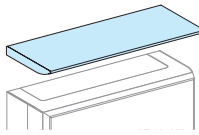
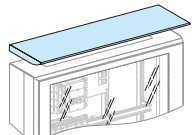
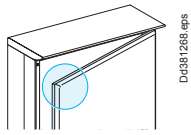
(1) Beginning of 2018.
 Switchgear on the door > page E-10
 Spare parts > page E-13
 Partitioning > page C-45

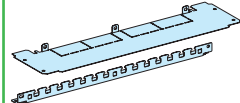
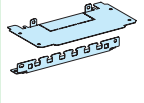
Wall-mounted and floor-standing enclosures

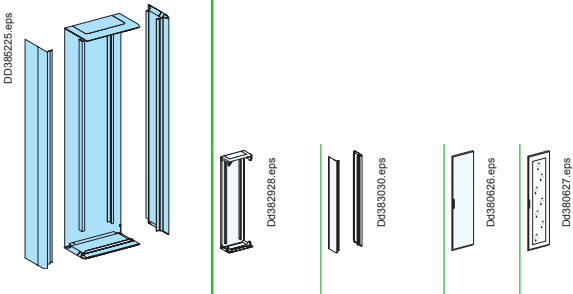
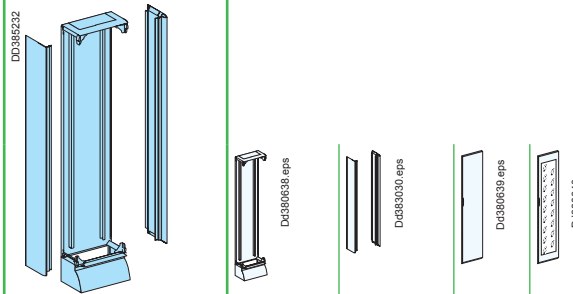
Accessories

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	
	 Dd381267.eps				 Dd383525.eps		 Dd381268.eps	
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	08830	08832	08831	08827	08833	08836	08837	08841 (3)
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		
	 Dd124224.eps	 Dd124225.eps
Used with	Between the plinth and the bottom of a floor-standing enclosure or duct, for ensuring IP20	
	Floor-standing enclosure W600	Duct W300
Catalogue numbers	08887	08888
		For 08244
		Floor-standing enclosure W850
		08889 (4)

Wall-mounted enclosures W300						Floor-standing enclosures W300					
	 Dd386225.eps, Dd382928.eps, Dd383030.eps, Dd380626.eps, Dd380627.eps					 Dd386232, Dd380638.eps, Dd383030.eps, Dd380639.eps, Dd380640.eps					
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	08172	2 x 01040	08182	-	-	-	-	-	-	-
9	480	08173	2 x 01041	08183	-	-	-	-	-	-	-
12	630	08174	2 x 01042	08184	-	-	-	-	-	-	-
15	780	08175	2 x 01043	08185	-	-	-	-	-	-	-
18	930	08176	2 x 01044	08186	-	-	-	-	-	-	-
21	1080	08177	2 x 01045	08187	08197	-	-	-	-	-	-
24	1230	08178	2 x 01046	08188	08198	-	-	-	-	-	-
27	1380	08179	2 x 01035	08282	08292	27	1530	08272	2 x 01035	08282	08292
-	-	-	-	-	-	30	1680	08273	2 x 01034	08283	08293
-	-	-	-	-	-	33	1830	08274	2 x 01033	08284	08294
-	-	-	-	-	-	36	1980	08275	2 x 01047	08285	08295

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

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

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

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

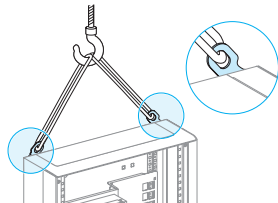

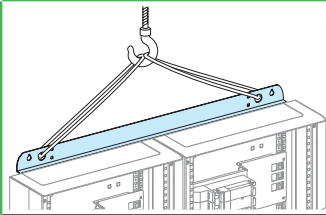
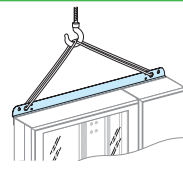
Wall-mounted and floor-standing enclosures

Lifting accessories - Installation

Up to 630 A

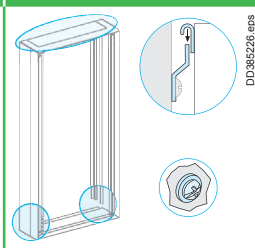
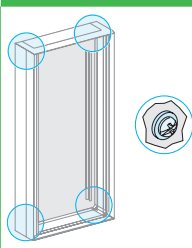
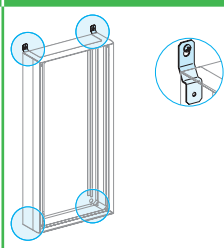
Lifting accessories

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	 <p>Set of two lifting rings</p>					
2 Lifting/reinforcement cross-members for combined enclosures W600 + W300				2 Lifting/reinforcement cross-members for combination cross-mounted enclosure W850 + duct W300		
						
Catalogue numbers	08812	08811	08811	08813	08814	08826
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.

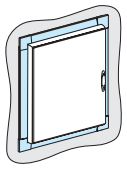
	Hook-on rail system	Mounting via the inside	Mounting using the external wall-mounted brackets
			
Catalogue numbers	Delivered with the enclosure	-	08804
Characteristics	The enclosure comes with 2 cross-members secured to the back of the enclosure (top and bottom) and a support rail (with levelling adjustment) 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

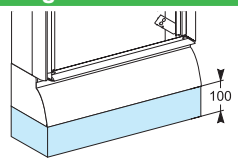
Accessories

Up to 630 A

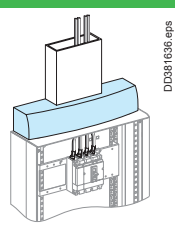
Flush-mounting kit

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

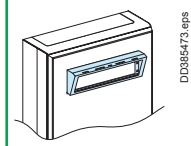
Plinth raiser

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

Trunking spreader


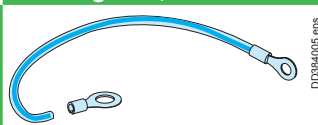
Trunking spreader	
	
Catalogue number	08824
Characteristics	For a professional-looking connection between the trunking and the enclosure. Can be installed at the top or bottom. The spreader is marked for cut-outs for standard trunking sizes. The maximum capacity is two 250 x 80 mm trunking sections.

Mounting of devices on doors

Type	Plain door with cut-out W600, W850
	
Catalogue numbers	Plain door + 03928
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-43.</i>

Earthing braid

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

	Earthing braid, 6 mm ²	Earthing wire, 6 mm ²
		
Catalogue numbers	08910	08911
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

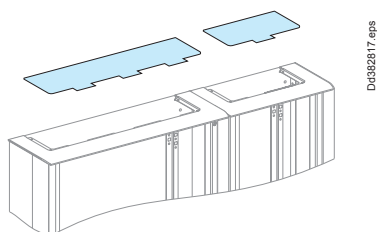
Wall-mounted and floor-standing enclosures

Gland plates


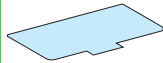
Up to 630 A

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.

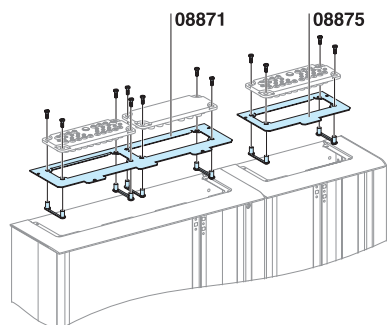


DD382817.eps

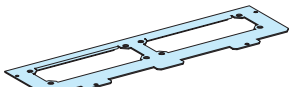
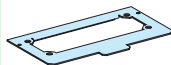
Plain metal gland plates		
		
Used with	Wall-mounted or floor-standing enclos. W600 / 850 mm	Duct W300
Catalogue numbers	08870	08874

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).

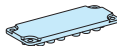





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Metal interface plates with cut-outs		
		
Used with	Wall-mounted or floor-standing enclos. W600 / 850 mm	Duct W300
Catalogue numbers	08871	08875

Gland plates : plain, with knockouts or membrane-type

Mounting on the interface plates ref 08871 or 08875.

Gland plates	Gland plates			
	plain	membrane-type		
				
Catalogue numbers	08881	08872	08896	08897
Ø 3 mm	-	-	8	-
Ø 3 to 7 mm	-	4	4	-
Ø 5 mm	-	-	4	-
Ø 7 to 12 mm	-	-	20	-
Ø 7 to 14 mm	-	8	4	-
Ø 7 to 18 mm	-	-	2	-
Ø 10 to 14 mm	-	12	-	-
Ø 14 to 20 mm	-	4	-	-
Ø 20 to 26 mm	-	1	-	-
Ø 17 to 30 mm	-	-	1	-
Ø 8 to 67 mm	-	-	-	2
Total number of entries	-	29	43	2

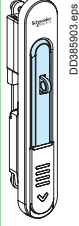
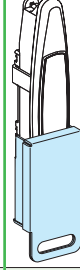


Wall-mounted and floor-standing enclosures

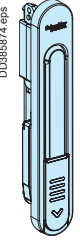
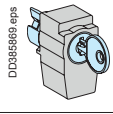
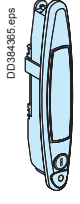

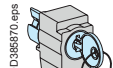



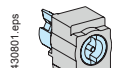

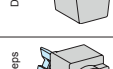



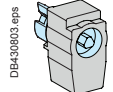

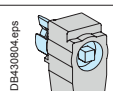

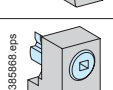





Door accessories


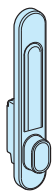
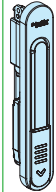
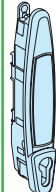
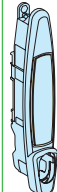

Up to 630 A

Door handles and padlocking

	Padlocking	Padlocking
		
Catalogue numbers	07938	08938
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	07940		 1 key no. 405	08940
	 2 keys no. 455	07941		 2 keys no. 455	08941
	 2 keys no. 1242E	07942		 2 keys no. 1242E	08942
	 2 keys no. 3113A	07943		 2 keys no. 3113A	08943
	 2 keys no. 2433A	07944		 2 keys no. 2433A	08944
 2 keys no. 2432E	07956	 2 keys no. 2432E	08956		
	DIN double bar insert	07945		DIN double bar insert	08945
	Screwdriver slot insert	07946		Screwdriver slot insert	08946
	Male triangle insert	6.5 mm 07947		Male triangle insert	6.5 mm 08947
		7 mm 07948			7 mm 08948
		8 mm 07949			8 mm 08949
		9 mm 07950			9 mm 08950
	Male square insert	6 mm 07951		Male square insert	6 mm 08951
		7 mm 07952			7 mm 08952
		8 mm 07953			8 mm 08953
	Female square insert	6 mm 07955		Female square insert	6 mm 08955

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
07932	07933	07931	08932	08933	08931

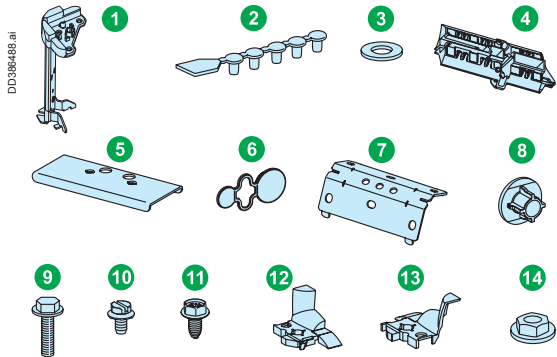
(1) Can be adapted to the new rotary handle on Prisma G IP30 enclosures.
 (2) Can be adapted to handle ref. 08931 and existing handles on Prisma G IP30 enclosures.

Wall-mounted and floor-standing enclosures

Spare parts

Up to 630 A

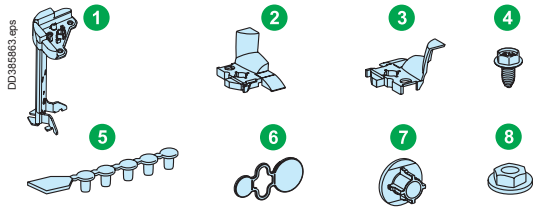
Accessories



Duct accessories

01036

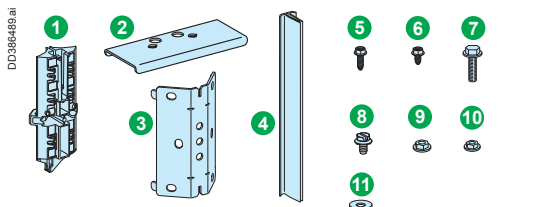
- 1 4 pillars
- 2 1 earthing braid plug
- 3 4 washers
- 4 2 combination uprights
- 5 2 short combination crossbars
- 6 2 base blanking plugs
- 7 2 association fasteners
- 8 4 spacers
- 9 2 screws with flange
- 10 2 screws
- 11 1 self-threading screw
- 12 2 A-angle parts
- 13 2 B-angle parts
- 14 6 nuts HX grooved



Wall mounted and floor standing enclosures accessories

01018

- 1 4 pillars
- 2 2 A-angle parts
- 3 2 B-angle parts
- 4 8 self threading screws
- 5 1 earthing braid plug
- 6 4 base blanking plugs
- 7 4 spacers
- 8 4 nuts HX grooved

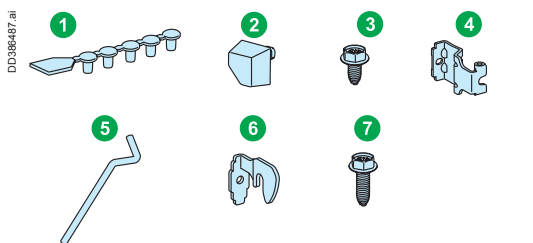


G IP30 floor standing enclosure combination kit

08815

- 1 1 combination upright
- 2 1 short combination crossbar + 2 screws + 2 nuts
- 3 2 association fasteners
- 4 7 plastic protectors
- 5 2 self-threading screws
- 6 3 self-threading screws
- 7 1 screw with flange
- 8 1 screw
- 9 3 nuts
- 10 3 nuts
- 11 2 washers

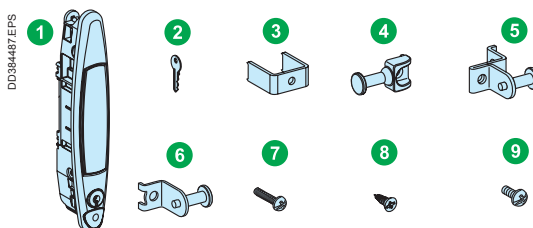
Door accessories



Wall mounted and floor standing enclosures closing accessories

01032

- 1 1 earthing braid plug
- 2 2 door stops
- 3 3 self threading screws
- 4 3 fixed hinges
- 5 3 hinge pins
- 6 3 stop bolts
- 7 4 self threading screws



IP30 Pack, wall mounted and floor standing enclosure handle

01220

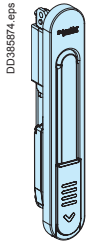
- 1 1 handle
- 2 1 key no.405
- 3 1 handle staple
- 4 1 Pack kit pin
- 5 1 assembled rod angle
- 6 1 peg and angle assembly for G cubicle
- 7 1 pozidriv screw for handle staple
- 8 1 self threading screw for Pack enclosure
- 9 1 pozidriv screw for wall-mounted and floor standing enclosures

Wall-mounted and floor-standing enclosures

Spare parts

Up to 630 A

Rotary-handle

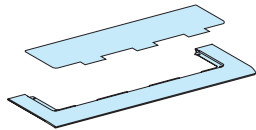


Ral 9001

01218

Metal plates with cut-outs + plastic gland plates

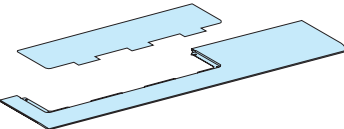
DD385832.eps



W600

08880

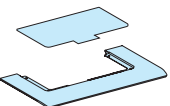
DD385833.eps



W850

08883

DD385834.eps

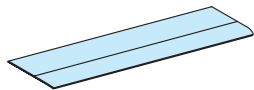


W300

08884

Metal top/bottom plate (IP30)

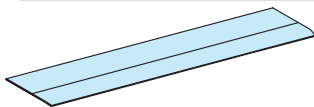
DD384488.EPS



W600

01017

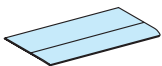
DD385831.EPS



W850

01070

DD384490.EPS

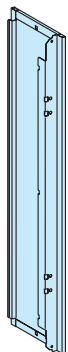


W300

01039

Side (IP30)

DD384491.EPS



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

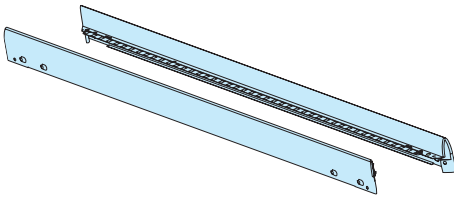
Wall-mounted and floor-standing enclosures

Spare parts

Up to 630 A

Central uprights (IP30)

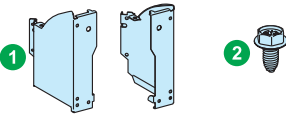
DD384492.EPS



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

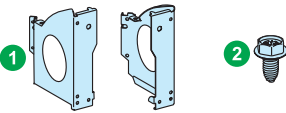
DD384494.EPS



Accessories for plinth 01051

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

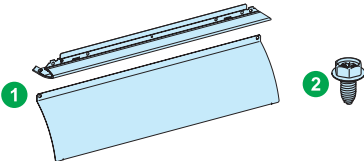
DD384493.EPS



Floor standing enclosures 01050

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

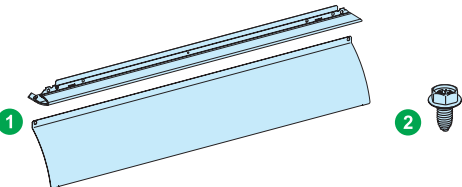
DD384495.EPS



Plinth front, 600 mm 01052

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

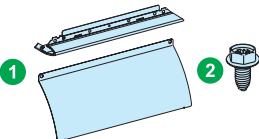
DD385556.EPS



Plinth front, 850 mm 01054

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

DD384496.EPS

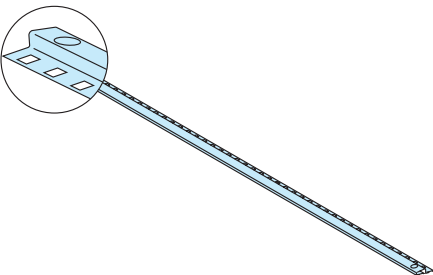


Plinth front, 300 mm 01053

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

Front cover support uprights (IP30)

DD384500.EPS



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

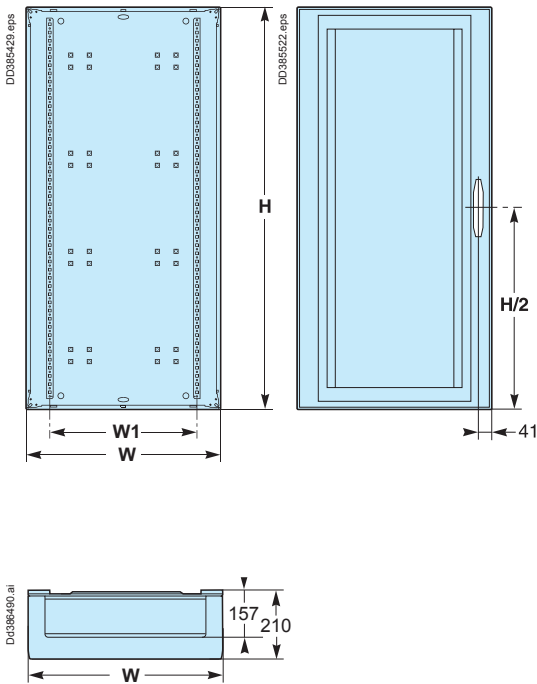
E

Wall-mounted and floor-standing enclosures

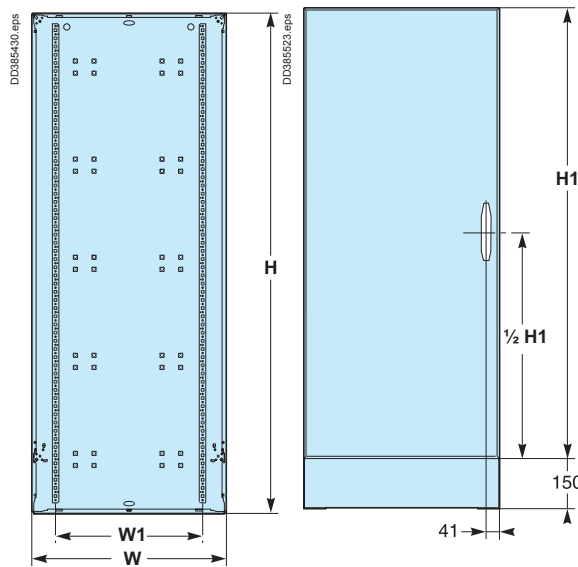
Dimensions

Up to 630 A

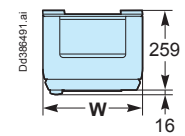
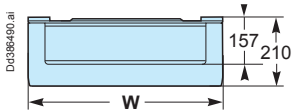
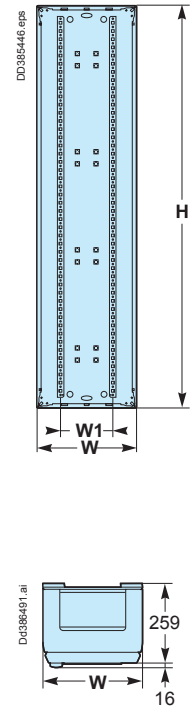
Enclosures W600 – 6 to 27 mod.



Enclosures W600 – 27 to 36 mod.



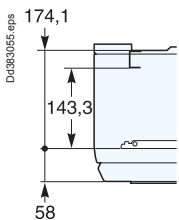
Ducts W300



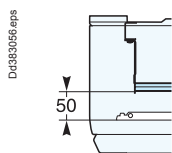
	Nb. of vertical modules	Height		Width						Depth		
		H	H1	W600		W850		W300		W/O door	with door	
				W	W1	W	W1	W2	W			W1
Wall-mounted enclosures / duct	6	330	-	595	450	-	-	-	305	200	210	259
	9	480	-	595	450	-	-	-	305	200	210	259
	12	630	-	595	450	-	-	-	305	200	210	259
	15	780	-	595	450	-	-	-	305	200	210	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

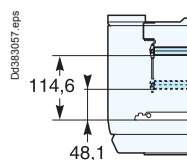
Functional uprights



Modular rails

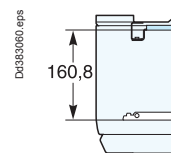


Fixed rail
Cat. no. 03001 or 03010



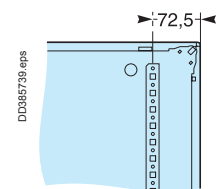
Adjustable rail
Cat. no. 03002 or 03011

Slotted mounting plate

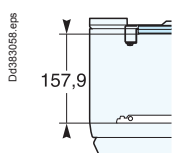


Recessed mounting plate
Cat. no. 03171, 03172, 03173, 03176, 03177 or 03178

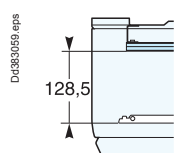
Cable running



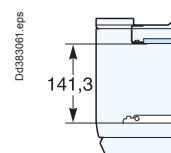
Rear upright



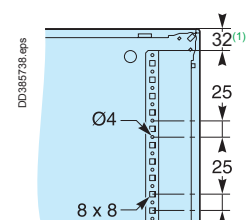
Recessed rail
Cat. no. 03003



Rear rail
Cat. no. 03004



Flat plate
Cat. no. 03170 or 03175



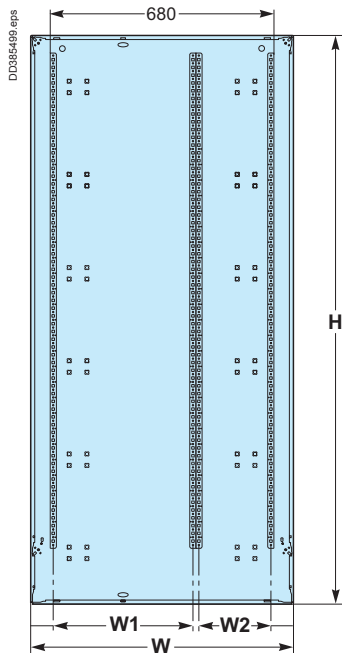
(1) 57 mm for height 36 modules

Wall-mounted and floor-standing enclosures

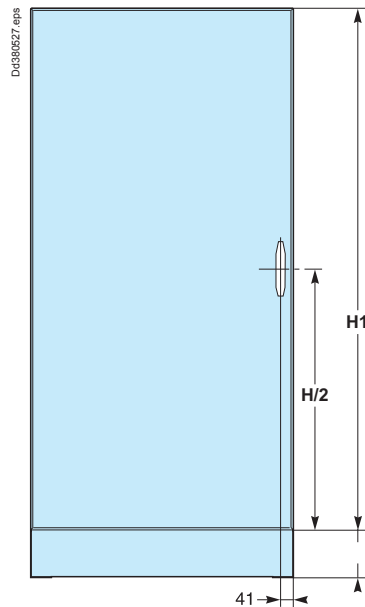
Dimensions

Up to 630 A

Enclosures W850

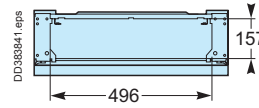


Door

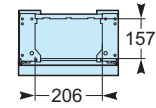


Cable entry

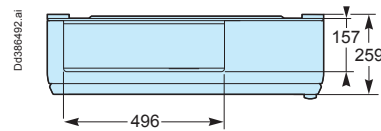
W600



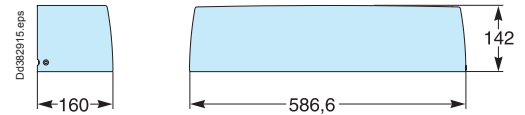
W300



W850

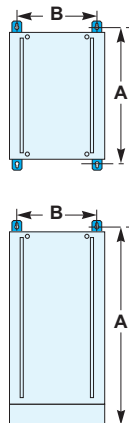


Trunking spreader



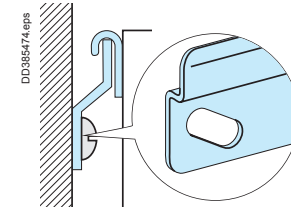
Wall-mounted installation

External brackets

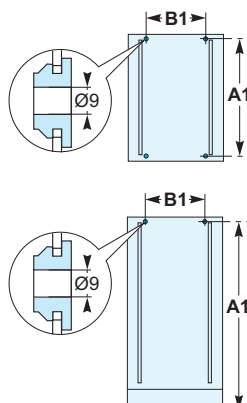


	Nb. of vertical modules	A	B		
			W600	W850	W300
Wall-mounted enclosures	6	430	545	795	255
	9	580	545	795	255
	12	730	545	795	255
	15	880	545	795	255
	18	1030	545	795	255
	21	1180	545	795	255
Floor-standing enclosures	24	1330	545	795	255
	27	1480	545	795	255
	30	1780	545	795	255
	33	1880	545	795	255
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

Cyma system



Screws



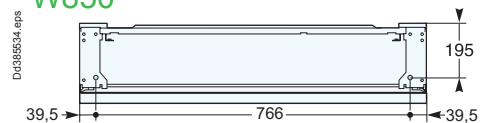
	Nb. of vertical modules	A1	B1		
			W600	W850	W300
Wall-mounted enclosures	6	270	381	631	91
	9	420	381	631	91
	12	570	381	631	91
	15	720	381	631	91
	18	870	381	631	91
	21	1020	381	631	91
Floor-standing enclosures	24	1170	381	631	91
	27	1320	381	631	91
	30	1500	381	631	91
	36	1950	381	631	91

Enclosure plinth fixation

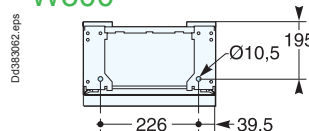
W600



W850

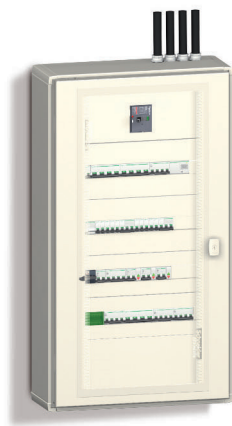


W300





Great capability for meeting the requirements of your installation



PB119187_aps

> 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.



- > 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



PB119167.eps



PE600331.eps

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"> ■ Plain or transparent, opening to right or left 180° ■ Supplied with a handle and keylock (key 405) 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

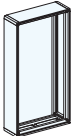



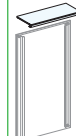


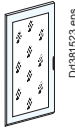
Up to 630 A





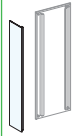
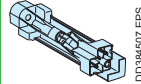
Wall mounted and floor standing enclosures

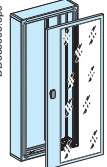



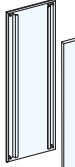

Enclosures are supplied with plain metal gland plates and external mounting brackets.

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-45

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

Lifting

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

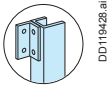
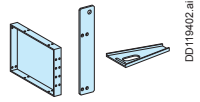
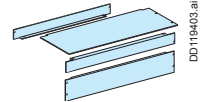
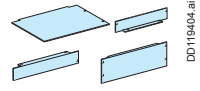
Note: for combinations of more than two enclosures, the switchboard must be reinforced using mounting uprights (08391).

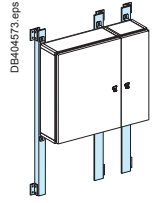
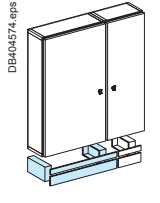
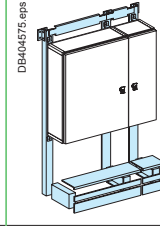
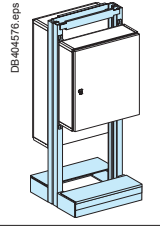
Weatherproof enclosures

Mounting accessories

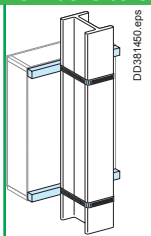
Up to 630 A

Mounting accessories

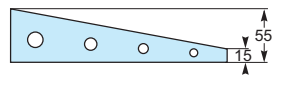
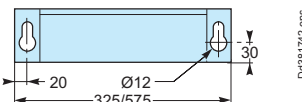
Upright	Mounting uprights	Plinth	Plinth cover panel (for enclosure)	Plinth cover panel (for duct)
Catalogue numbers	08391	08392	08393	08394
Characteristics	<ul style="list-style-type: none"> W = 1950 mm Colour: RAL 7016 Supplied with: <ul style="list-style-type: none"> two adjustable fixing brackets, one joint for combination with a plinth or another upright. Leave space behind the switchboard for cable running and to improve ventilation. 	<ul style="list-style-type: none"> H = 150 mm Colour: RAL 7016 	<ul style="list-style-type: none"> W = 600 mm Colour: RAL 7016 	<ul style="list-style-type: none"> W = 300 mm Colour: RAL 7016 
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	On uprights	On plinth	On wall structure	Free-standing structure
				
Catalogue numbers	3 x 08391	3 x 08392 + 08393 + 08394	3 x 08391 + 3 x 08392 + 08393 + 08394	4 x 08391 + 4 x 08392 + 2 x 08393
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	08395
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	08386	08387
Characteristics	<ul style="list-style-type: none"> Installed on the mounting uprights or directly on the wall, canopies improve switchboard protection against vertically falling water and objects. Colour: RAL 7016. Supplied with: the hardware required for mounting on the uprights, the components required for combination with another canopy. 	

Dimensions > page E-30 ; Partitioning > page C-45

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).

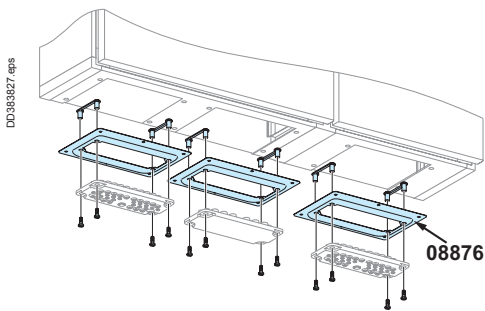
These plates can be replaced by metal plates with cut-outs 08876 for special cable entry systems made of an insulating material (plain, with knockouts or membrane-type).

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.

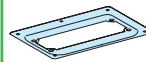
The gland plates are easy to install using the mounting kit (supplied with each gland plate) that positions and holds the nuts during installation.

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



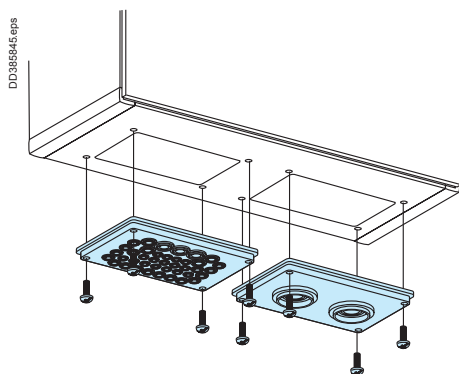
DD385944.EPS

Catalogue numbers **08876**

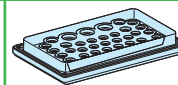
Characteristics Fitting gland plates: plain and membrane-type.

Gland plates for metal interface

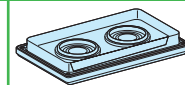
	plain		membrane-type	
	DD385708.EPS	DD385712.EPS	DD385713.EPS	DD385714.EPS
Catalogue numbers	08881	08872	08896	08897
Ø 3 mm	-	-	8	-
Ø 3 to 7 mm	-	4	4	-
Ø 5 mm	-	-	4	-
Ø 7 to 12 mm	-	-	20	-
Ø 7 to 14 mm	-	8	4	-
Ø 7 to 18 mm	-	-	2	-
Ø 10 to 14 mm	-	12	-	-
Ø 14 to 20 mm	-	4	-	-
Ø 20 to 26 mm	-	1	-	-
Ø 17 to 30 mm	-	-	1	-
Ø 8 to 67 mm	-	-	-	2
Total number of entries	-	29	43	2



Gland plates, direct mounting



DB124229.EPS



DB124230.EPS

Catalogue numbers **08898** **08899**

Ø 7 to 26 mm 39 -

Ø 33 to 72 mm - 2

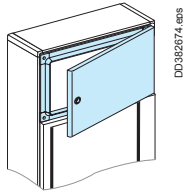
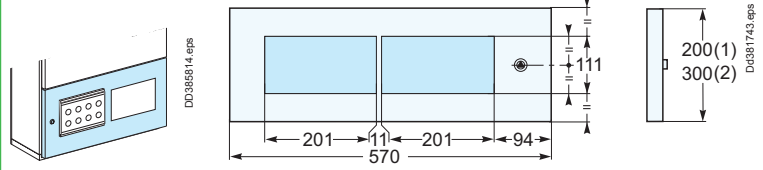
Total number of entries **39** **2**

Weatherproof enclosures

Partial doors and functional units for partial door

Up to 630 A

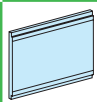
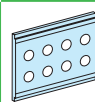
Partial doors

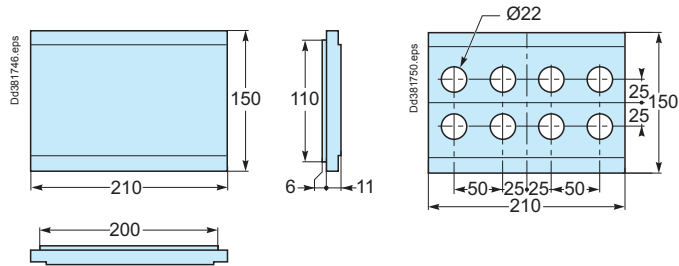
Type	Plain	With cut-outs
		
4 modules (H = 200 mm) for enclosure from 11 to 27 modules	08374	08376
Installation	<ul style="list-style-type: none"> On a wall-mounted enclosure at least 11 modules high (H = 650 mm). The front must be completed with another door (plain or transparent). Each enclosure or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

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



Weatherproof enclosures

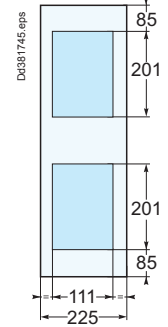
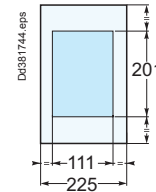
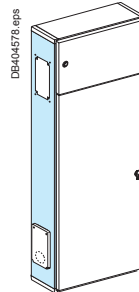
Side panels

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	08364
19	1050	2	08365
23	1250	2	08366
27	1450	2	08367
33	1750	2	08369

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



Weatherproof enclosures


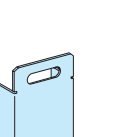
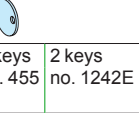
Door accessories

Up to 630 A

Locks

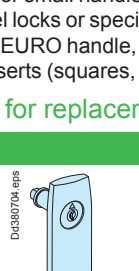
- The small plain and transparent doors (7 to 23 modules) are supplied with a small handle comprising a barrel lock no. 405.
- The large plain and transparent doors (27 to 33 modules) are supplied with a large handle comprising a barrel lock no. 405.
- The partial doors are supplied with an 8 mm male 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	08936	08935	08934
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)

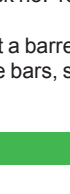




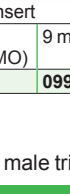
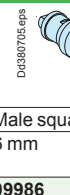


(1) Do not suit to barrels with an automatic return stroke of the key.

Padlocking

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

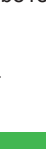





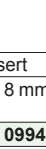

Handle barrel locks and inserts

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	09933	09945	09942	09943	09931	09932	09937	09938	09939	09949	09947	09948	09946

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	09981	09982	09983	09984	09985	09986	09988	09989

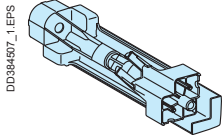
(1) Others A and E combinations are available from Ronis, please contact us.

Weatherproof enclosures

Spare-parts

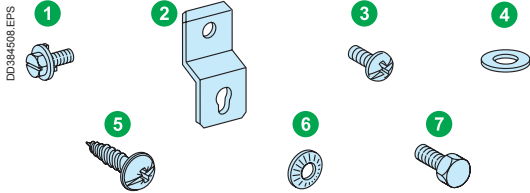
Up to 630 A

Accessories (IP55)



2 pillars

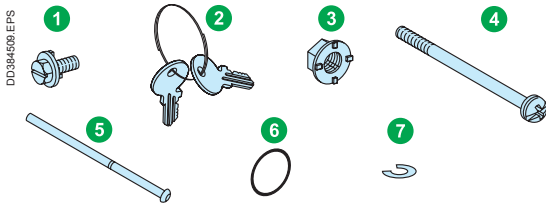
01025



Set of spare parts for wall-mounted enclosure

01247

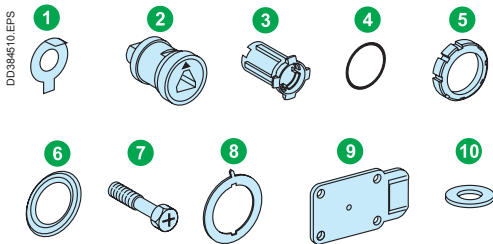
- 1 24 screws + stubs contact
- 2 4 simple fixing brackets
- 3 4 screws pillar/seating
- 4 12 nylon washers
- 5 12 self threading screws
- 6 4 conical washers
- 7 4 screws



Set of spare parts for door

01248

- 1 1 screw + stub washers
- 2 2 keys no.405
- 3 1 spring nut
- 4 4 screws frame/pillar
- 5 3 hinge pins
- 6 8 o-ring joints
- 7 3 stop rings



Spare parts for closing system

01249

- 1 1 stop washer
- 2 1 screw body
- 3 1 screw cap
- 4 1 o-ring
- 5 1 screw nut
- 6 1 composite seal
- 7 1 captive screw
- 8 1 special washer
- 9 1 cam
- 10 1 washer

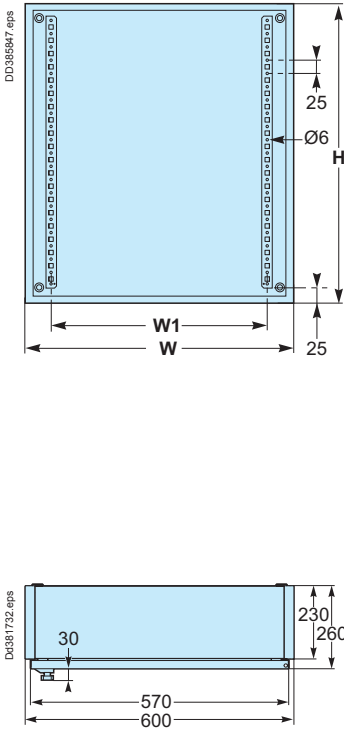


Weatherproof enclosures

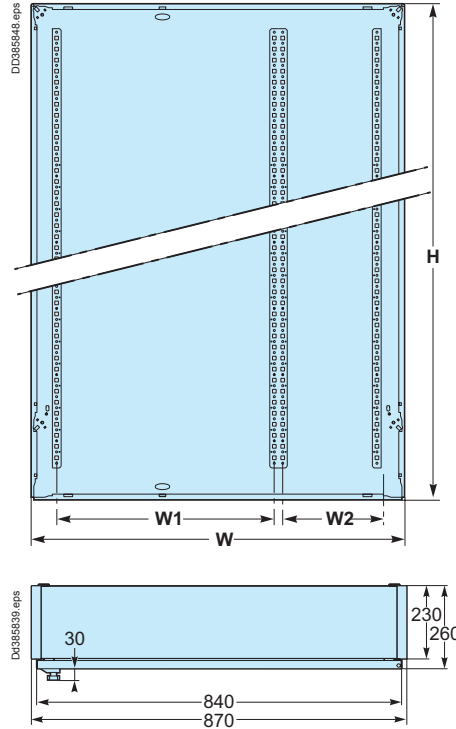
Dimensions

Up to 630 A

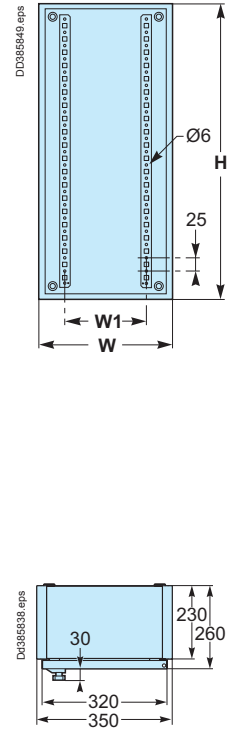
W600 enclosures



W850 enclosure, 33 mod.

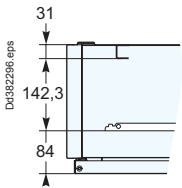


W300 ducts

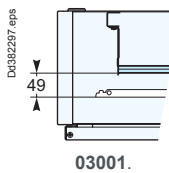


	Nb. of vertical modules	H	W600		W850			W300	
			W	W1	W	W1	W2	W	W1
Enclosures	7	425	575	450	-	-	-	325	200
Ducts	11	625	575	450	-	-	-	325	200
	15	825	575	450	-	-	-	325	200
	19	1025	575	450	-	-	-	325	200
	23	1225	575	450	-	-	-	325	200
	27	1425	575	450	-	-	-	325	200
	33	1725	575	450	845	450	200	325	200

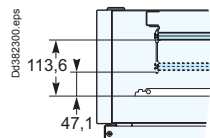
Functional uprights



Modular rails

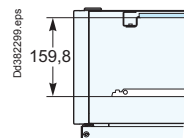


03001.



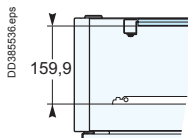
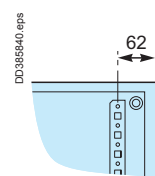
03002.

Slotted mounting plate

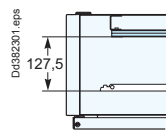


03171/03172/03173/03176/
03177/03178.

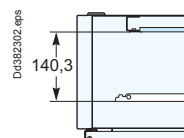
Cable running plate



03003.

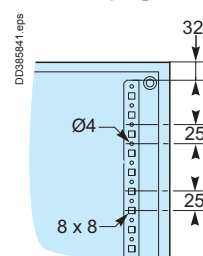


03004.

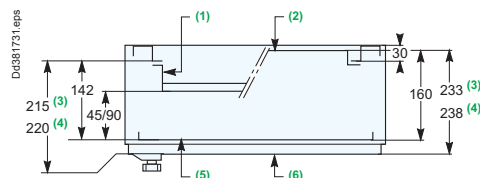


03170/03175.

Rear upright



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

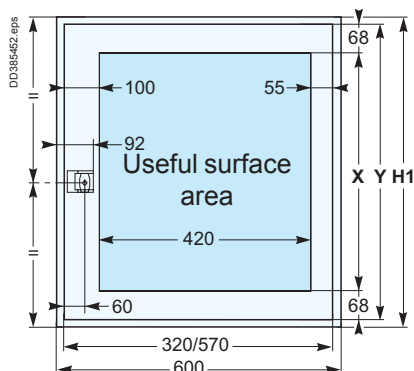


Weatherproof enclosures

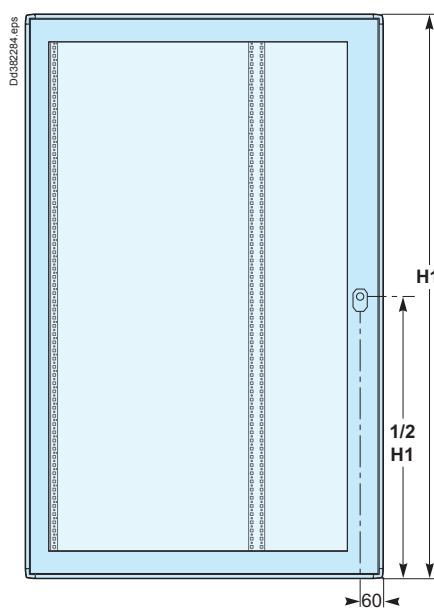
Dimensions

Up to 630 A

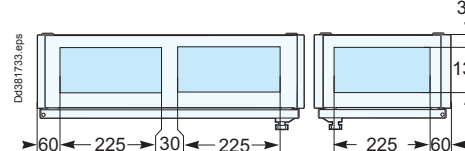
Doors W600



Doors W850 of 33 mod.

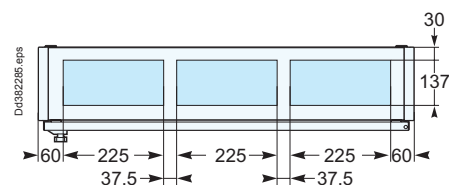


Cable entry W600



W300

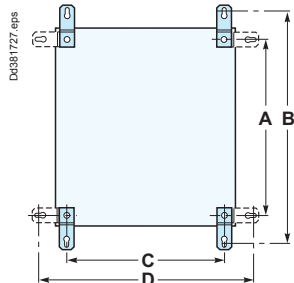
W850



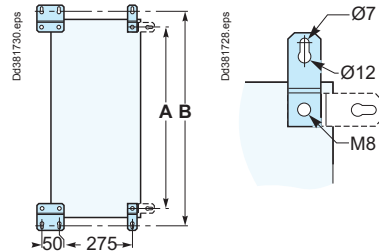
Doors		
H1	X	Y
450	284	420
650	484	620
850	684	820
1050	884	1020
1250	1084	1220
1450	1284	1420
1750	1584	1720

Wall-mounted installation

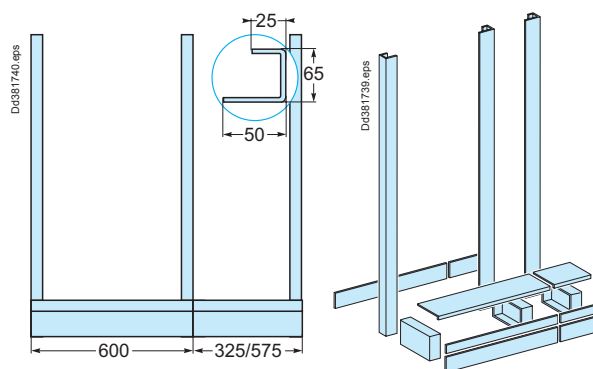
External brackets W600/850



External brackets W300

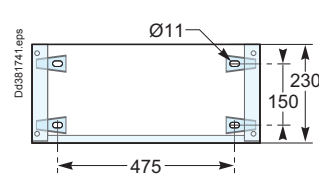


Wall structure

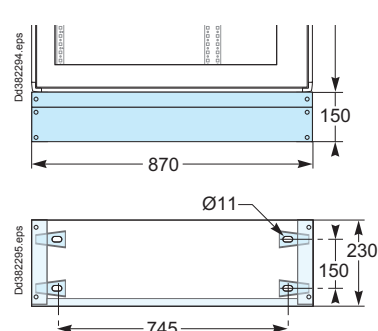


Nb. of vertical modules	A	B	C		D	
			W600	W850	W600	W850
7	375	525	525	-	650	-
11	575	725	525	-	650	-
15	775	925	525	-	650	-
19	975	1125	525	-	650	-
23	1175	1325	525	-	650	-
27	1375	1525	525	-	650	-
33	1675	1825	525	-	650	-

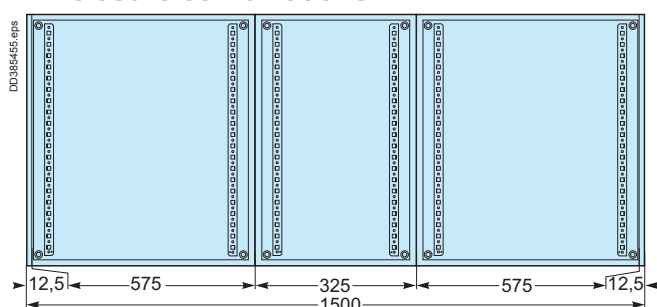
Plinth fixation W600



Plinth fixation W850



Enclosure combinations



Pack 160
Prisma Pack 250
enclosures

Contents

Pack 160, IP30/IP43

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

Prisma Pack 250, IP30/IP4X

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



Presentation

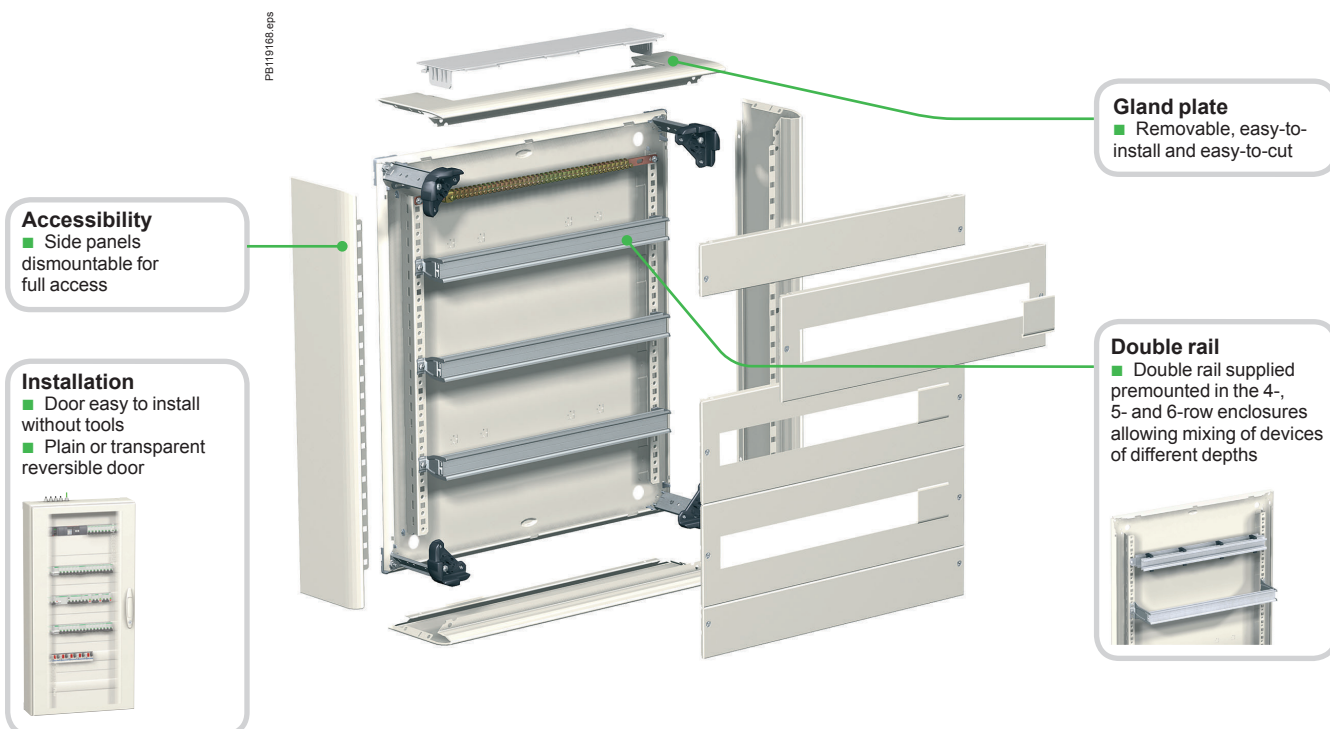
Up to 160 A

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



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, IP40 with door, IP41 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"> ■ Plain or transparent, opening to right or left, 130° ■ By design, electrical continuity of moving parts (hinges...) ■ Supplied with a handle and keylock (key 405) ■ No possibility to install push buttons (distance behind door = 42 mm)
Mounting	Pack 160 enclosures easily integrated in using flush-mounting kit



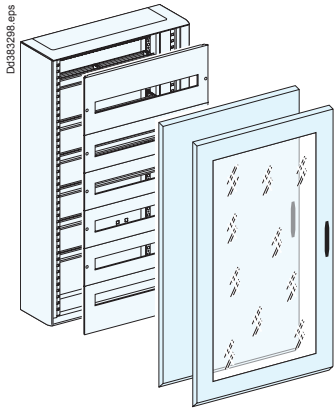
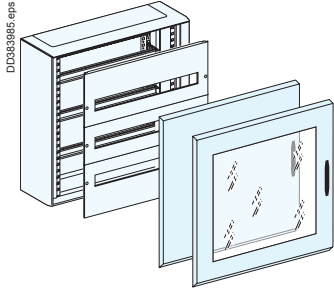
The design of Pack 160 enclosures ensures easy device access and mounting. Optimised depth and an extra-thin door ensure perfect integration in all environments.

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	08002	08082	08092
3	12	630	08003	08083	08093
4	15	780	08004	08084	08094
5	18	930	08005	08085	08095
6	21	1080	08006	08086	08096

Flush-mounting kit > see page F-7

	Other modular ≅ 63 A rails W555	Other devices			
	Fixed	Rear	Recessed	NSXm/NSXm Vigi	For NG160
Catalogue numbers	01260	03004	03003	03018	03008
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	04225	04226	04227 (2)
Characteristics	Set of 12 raisers (NSXm/NSXm Vigi) height 11 mm to be completed with 04226	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

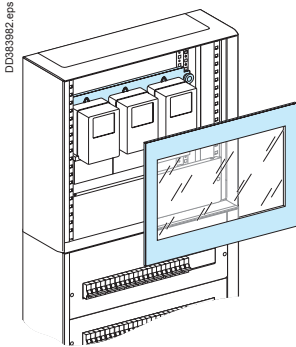
Other front plates W600

> page C-54 and page F-8.

Enclosure extension and metering

Functional units for extension enclosure

Up to 160 A



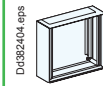
Enclosure extension for metering

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.

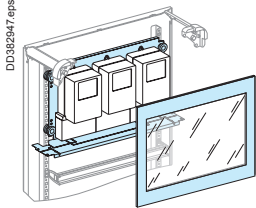
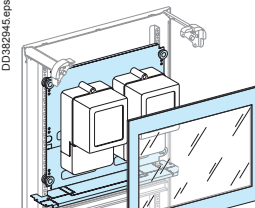
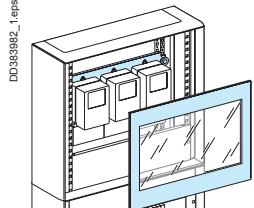
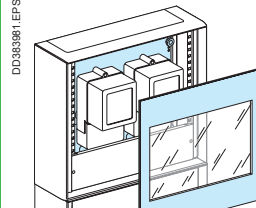
Enclosure extension W555

Nb. of vertical modules of 50 mm	Height in mm	Enclosure extension		
		Enclosure	Plain door	Transparent door
9	480	08012	08082	08092



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 mm² (08910) and combined with partitioning or front plates. The mounting plates can be raised using M5 spacers > see page C-55.

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

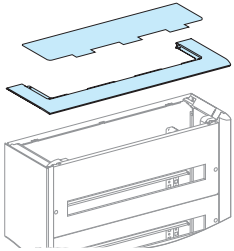
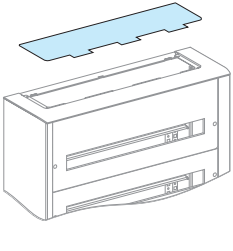
(1) If not installed at the top of a Pack enclosure, order an addition horizontal partition (04333).

(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.



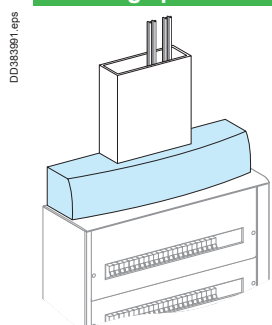
Gland plates

Gland plates

	 <p>DD083088.eps</p>	 <p>DD083090.eps</p>
	Top or bottom plate with plastic gland plate	Metal gland plate
Catalogue numbers	08878	08879
Characteristics	-	Plain metal gland plate

Trunking spreader

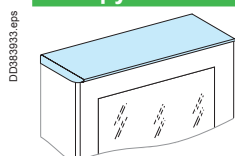
Trunking spreader



Catalogue numbers	08821
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Canopy

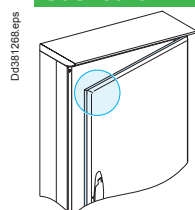
Canopy for IP31



Catalogue numbers	08823
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



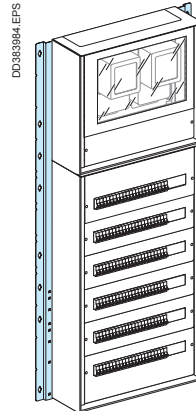
Catalogue numbers	08841
Characteristics	<p>When the switchboard is equipped with a canopy, a gasket for the doors ensures compliance with the degree of protection IP43.</p> <p>L = 5.3 m</p>

Combination, installation, flush-mounting kit

Up to 630 A

Combination uprights

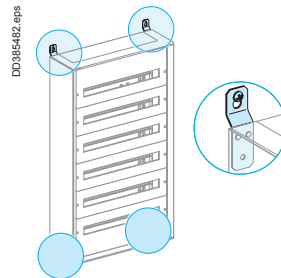
Combination uprights



Catalogue numbers	08817
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

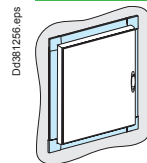
Wall mounting



Catalogue numbers	08803
Characteristics	4 external wall-mounted brackets

Flush-mounting kit

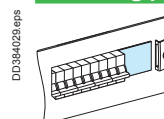
Flush-mount kit



Catalogue numbers	08822
-------------------	--------------

Blanking plates

Blanking plates



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

Finishing parts > see page C-44

F

Up to 160 A

Cable-tie supports



> page C-46.

Cable running

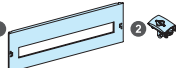
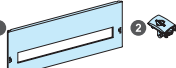
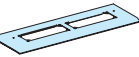
> page C-48.

Earthing braid

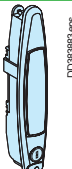
The earthing braid is used to earth a door with devices.

	Earthing braid, 6 mm ²	Earthing wire, 6 mm ²
	 DD384005.eps	 DD384005.eps
Catalogue numbers	08910	08911
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)			
	4 modules decentered plate	01264	
	1 front plate		
	2 front plates locking mechanisms		
	4.5 modules decentered plate	01265	
	1 front plate		
	2 front plates locking mechanisms		
Gland plate (IP30)			
	Cut-out gland plate for Pack 160 enclosure	01020	

Handle and padlocking

	Padlocking	RAL 7016 handle
	 DD383885.eps	 DD383883.eps
Catalogue numbers	08938	08931
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		08940
	2 keys no. 455		08941
	2 keys no. 1242E		08942
	2 keys no. 3113A		08943
	2 keys no. 2433A		08944
	2 keys no. 2432E		08956
	DIN double bar insert		08945
	Screwdriver slot insert		08946
	Male triangle insert	6.5 mm	08947
		7 mm	08948
		8 mm	08949
		9 mm	08950
	Male square insert	6 mm	08951
		7 mm	08952
		8 mm	08953
	Female square insert	6 mm	08955

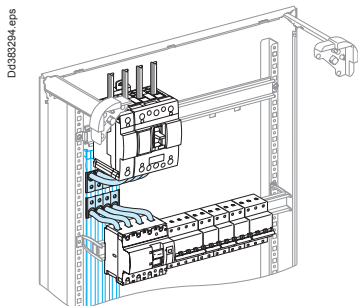
Linergy distribution and connection systems

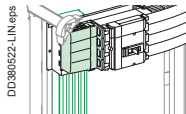
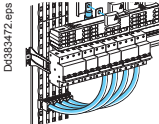
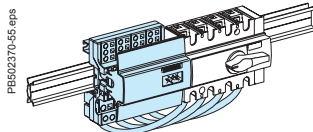
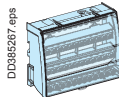
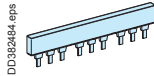
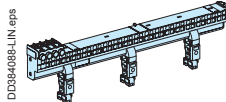

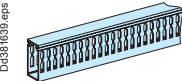
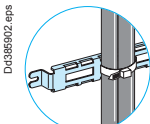
Up to 160 A

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.



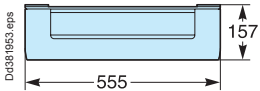
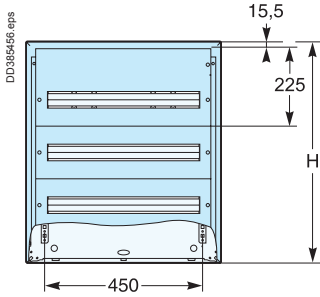
Linergy distribution		Catalogue numbers	Pages
Linergy BW busbars 125 A			
	125 A	04103, 04107, 04104, 04108, 01210, 01201	D-4
Prefabricated connections 125 to 160 A			
	125 A	04145	D-4, D-5
	160 A	04146, 04147, 04148, 04151	
Linergy DX distribution block			
	63 A	04040, 04041 (4P)	D-10, D-11
	125 A	04045, 04047 (4P)	
	160 A	04031, 04149, 04046	
Linergy DS distribution block			
	100 A	LGY410028, LGYN1007, LGYN12512	D-14, D-15
	125 A	LGY112510, LGY412548, LGY412560, LGYN12515	
	160 A	LGY116013, LGY416048	
Linergy FH comb busbars			
			D-18 to D-22
Linergy FM distribution block			
	63 A	04008 (4P)	D-16, D-17
	80 A	04000 (4P)	
Cable straps			
		04239, 04243	C-47
Trunking			
	80 x 60 mm support external brackets	04257, 04255, 04206	C-47, C-46
Cable-tie supports			
		08867	C-47



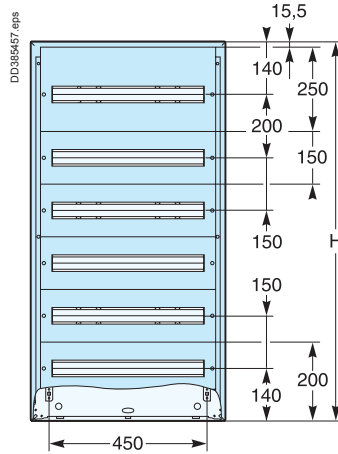
Dimensions

Up to 160 A

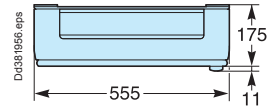
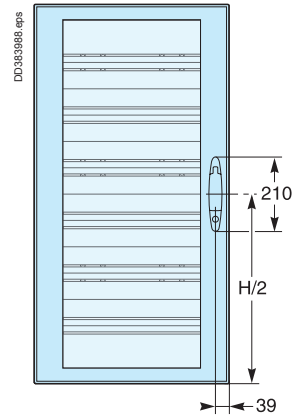
Wall-mounted enclosures of 2 and 3 rows



Wall-mounted enclosures of 4, 5 and 6 rows

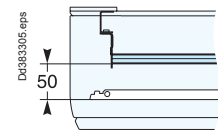
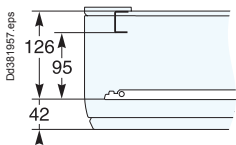


Door

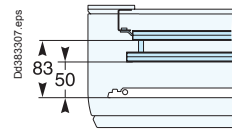


Nb. of rows	Nb. of vertical modules of 50 mm	Height in mm
2	9	480
3	12	630
4	15	780
5	18	930
6	21	1080

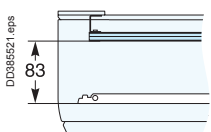
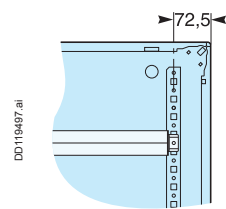
Useful depth behind front plate Cable running



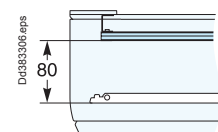
Supplied modular rail.



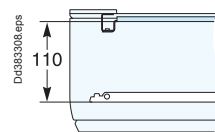
Upper rail in wall-mounted enclosures of 4, 5 and 6 rows.



Rail cat. no. 03008.

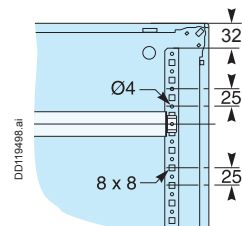


Rail cat. no. 03004.



Rail cat. no. 03003.

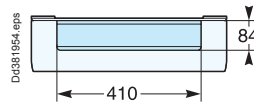
Rear upright



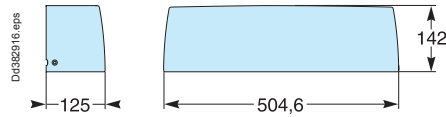
Dimensions

Up to 160 A

Cable entry



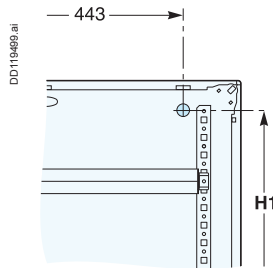
Trunking spreader



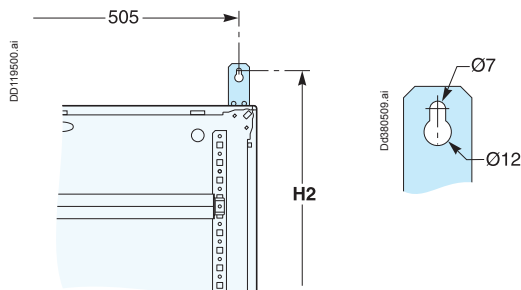
Wall-mounted installation

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

Screws



External brackets



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



PE115703.eps

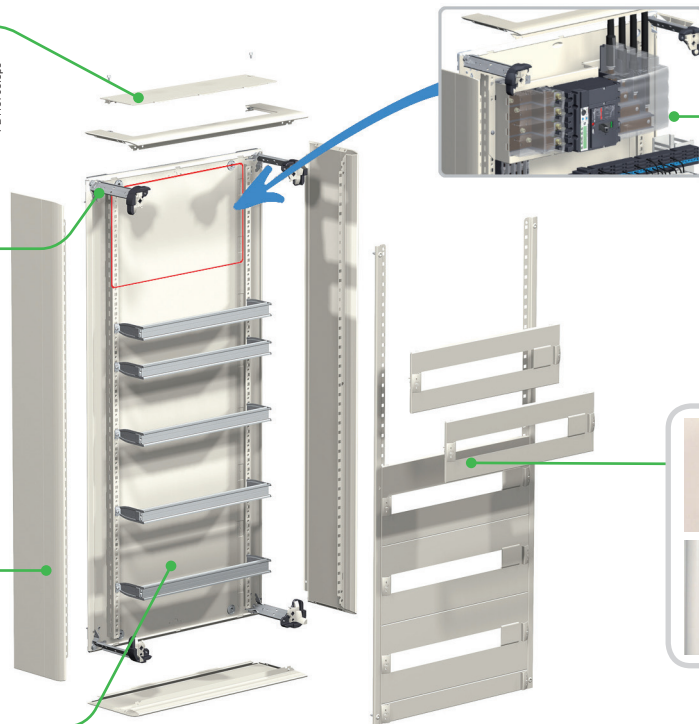
Quick fastening on hook-on rail
 ■ Easy wall mounting



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



PE115642_26.eps



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"> ■ Plain or transparent, opening to right or left, 130° ■ By design, electrical continuity of moving parts ■ Supplied with a handle and keylock (key 405) ■ Distance behind door = 58 mm
Mounting	Surface mounting, floor-standing, flush-mounting via a kit

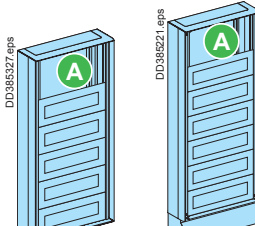
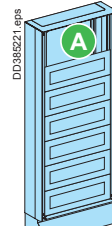
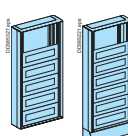


Wall-mounted and floor standing enclosures

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


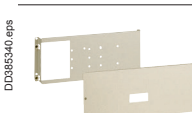






Capacity		Nb of row + Zone A to complete height 300 mm (6 modules)	H x W x D (in mm)	Wall-mounted and floor-standing	Optional		Earth bar with 40 staples (16 mm ²) and 1 incoming terminal (35 mm ²)
9-mm pitches	18-mm modules				Plain door (1)	Transparent door (1)	
Wall-mounted							
96 + 96	48 + 48	2R + 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
Floor-standing							
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 INS-INV40-160, 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
	Easypact 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
	Easypact 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
	Fupact ISFT160, horizontal fixed	03121 + 03326 + 03801 + 03802	1 mounting plate + 1 front plate with cut-out H = 150 mm + 1 plain front plate H = 50 mm + 1 plain front plate H = 100 mm
	Fupact ISFT250, horizontal fixed	03124 + 03328 + 03801	1 mounting plate + 1 front plate with cut-out H = 250 mm + 1 plain front plate H = 50 mm

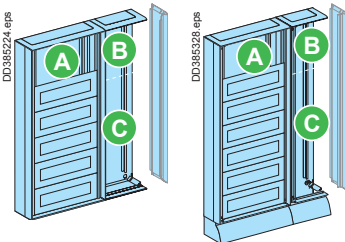
(1) To add modular devices to the row.

Wall-mounted and floor standing enclosures + duct

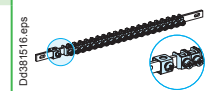
W600 + W300

Up to 250 A

Wall-mounted and floor standing enclosures W600 + Ducts W300



Nb of row + Zone A to complete height 300 mm (6 modules)	Height in mm	Wall-mounted and floor-standing	Optional Plain door (2)	Optional Transparent door (2)	Ducts (1)	Optional Plain door	Optional Transparent door	Earth bar with 40 staples
Wall-mounted								
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
Floor-standing								
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

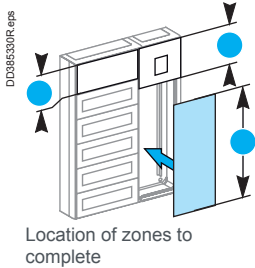



(1) Supplied with a combination kit for enclosure + duct association.

(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

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
Fupact ISFT160 Vertical fixed, toggle	03123 + 03327 + 03813	1 mounting plate 1 front plate H = 300 mm 1 front plate H = 150 mm
Fupact ISFT250 Vertical fixed, toggle	03125 + 03329	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:

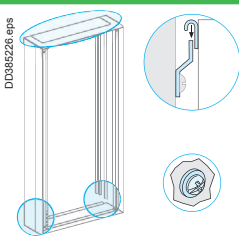
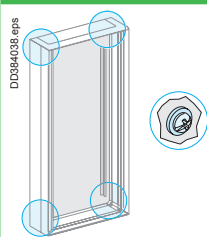
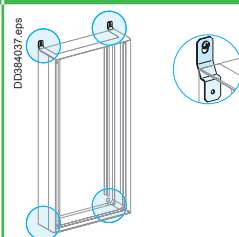
Height (mm)	Cat. no.
50	03811
100	03812
150	03813
200	03814
250	03815
300	03816
450	03817

Installation / Lifting accessories, IP degree level

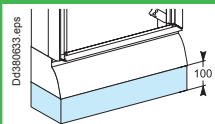
Up to 250 A

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.

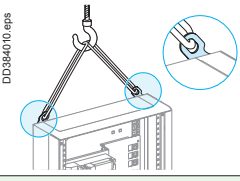
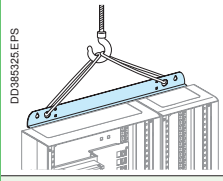


	Hook-on rail system	Mounting via the inside	Mounting using the external wall-mounted brackets
			
Catalogue numbers	Delivered with the enclosure	-	08804
Characteristics	The enclosure comes with 2 cross-members secured to the back of the enclosure (top and bottom) and a support rail (with levelling adjustment) 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.

Plinth raiser

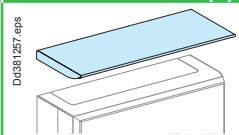
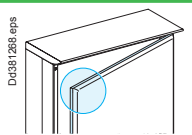


Plinth raiser		
		
Catalogue numbers	08805	08807
Characteristics	For basic floor-standing enclosure or extension W = 600 mm	For a duct W = 300 mm

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	08801	08812
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	08830	08832
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.	Enclosures or a duct from 6 to 33 modules 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.



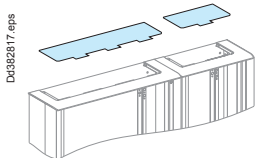
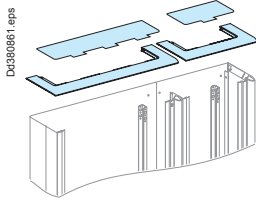
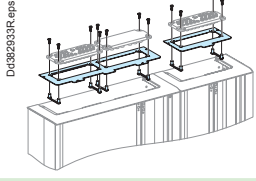
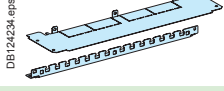
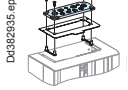
Gland plates, cable running

Up to 250 A

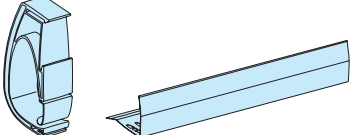
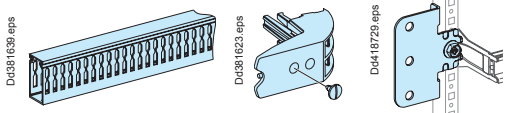
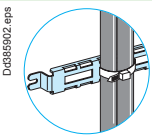
Gland plates

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.

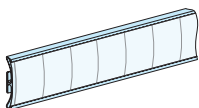
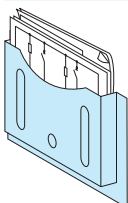
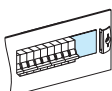
The existing plastic gland plate can be replaced by this metal gland plate or by an interface plate with cut-out.

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


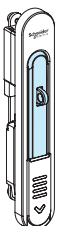
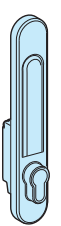

Cable running

Cable running		Pages
Horizontal/vertical cable straps + covers		
		C-47
Horizontal/vertical trunkings + supports		
		C-47, C-50
Cable-tie supports		
		C-47

Up to 250 A


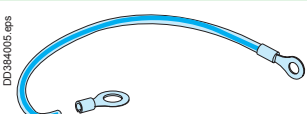
Labels	Pages
Adhesive labels	
	C-45
Adhesive drawing holder	
	C-45
Blanking plates modular device (blanking strip or divisible)	
	F-7

Door handles and padlocking *See page E-12*

	Rotary handle	Padlocking	EURO handle	ASSA/ABLOY handle
	 DD385674.eps	 DD385693.eps	 Dd119386.ai	 Dd119387.ai
Catalogue numbers	01218	07938	07932	07933
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 ²	Earthing wire, 6 mm ²
	 DD384005.eps	 DD384005.eps
Catalogue numbers	08910	08911
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

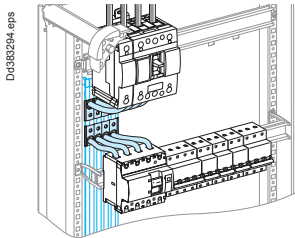
Spare parts

> see pages E-13 to E-15.

Dimensions

> see page E-16.

Up to 250 A



Presentation

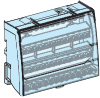
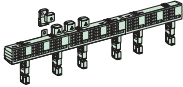
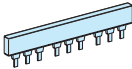
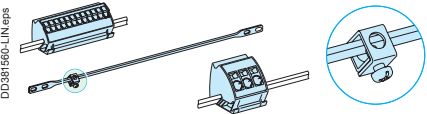
At the head of a switchboard, the incoming device can be supplied by one of the following:

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

Linergy distribution		Catalogue numbers	Pages
Linergy BW insulated busbars up to 250 A			
<p>DD385345 JB BW 250A.eps</p>	125 A	04103, 04104, 04107, 04108	D-4
	160 A	04111, 04121, 04116, 04126	
	250 A	04112, 04122, 04117, 04127	
Linergy BS rear busbars			
<p>DD385346 JB de fond BS.eps</p>	160 A	04161, 04171	D-6
	250 A	04162, 04172	
	Support	04191	
Linergy BS multi-stage distribution block up to 250 A / Linergy BS multi-stage busbars up to 250 A			
<p>DD381344-LIN_R.eps</p>	Complete		D-7, D-8
	160 A	04052	
	250 A	04053	
	To be assembled		
	160 A	04161, 04171	
	250 A	04162, 04172	
Linergy DP quick distribution blocks 160 A / Linergy DP quick distribution blocks 250 A			
<p>DD435226.eps</p>	NSXm up to 160 A	04038 (3P)	D-13
	NSXm up to 160 A	04039 (4P)	
<p>DD385347 LinergyDP.eps</p>	NSX100 to 250 A	04033, 04155 (3P)	D-12
	NSX100 to 250 A	04034, 04156 (4P)	
Linergy DX distribution block			
<p>PE602370-55.eps</p>	63 A	04040, 04041 (4P)	D-10, D-11
	125 A	04045 (4P)	
	160 A	04031 (1P), 04046 (4P)	

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

Up to 250 A

Linergy distribution		Catalogue numbers	Pages
Linergy DS screw distribution blocks			
 DD305267.eps	100 A	LGY410028	D-14, D-15
	125 A	LGY112510, LGY416048, LGY412560	
	160 A	LGY116013, LGY412548	
	250 A	LGY125014	
Linergy FM quick device feeders			
 DD301674-LIN.eps	63 A	04008 (4P)	D-16, D-17
	80 A	04000 (4P)	
	160 A	04018 (4P)	
	200 A	04012 (2P), 04013 (3P), 04014 (4P)	
Horizontal comb busbars Linergy FH			
 DD302484.eps			D-18 to D-22
Linergy TB earth bar, neutral bar			
 DD301560-LIN.eps		04201, 04214, 04215, 04200, 04202, 04210	D-23

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

Prisma G Additional information

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Tubular lugs, Bimetal lugs	G-6
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Connection of power cables	G-8

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Designing Prisma power circuits

Presentation and approach

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.

PB115625_06.eps



Electrical characteristics

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 \leq 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 \leq 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	INS-INV125	INS-INV160	INS-INV250	INS-INV320 INS-INV400	INS-INV500 INS-INV630	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	Linerger 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 ≤ 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
IP ≤ 55							
NSX100 TMD-TMG	Size per phase	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2
	I_{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
IP ≤ 55							
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 or NSX Vigi (ELCB) 400 B/F/N/H/S/L	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 or NSX Vigi (ELCB) 630 B/F/N/H/S/L	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 NSX Vigi (ELCB) or an insulation-monitoring module, multiply the I_n values by 0.9.

(2) For a withdrawable NSX250 equipped with a Vigi or NSX Vigi (ELCB) or an insulation-monitoring module, multiply the I_n values by 0.86.

Designing connections ≤ 630 A

Compact circuit breakers NSX100 to 630

Compact circuit breakers NSXm up to 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
IP \leq 55							
NSX100 TMD-TMG	Size per phase (mm ²)	50	50	50	50	50	50
	I_{nc} (A)	100	97.5	95	92.5	90	85
NSX125 TMD-TMG	Size per phase (mm ²)	70	70	70	70	70	70
	I_{nc} (A)	125	122	119	116	113	100
NSX160 (1) TMD-TMG	Size per phase (mm ²)	95	95	95	95	95	95
	I_{nc} (A)	160	156	152	147	144	140
NSX250 (1) TMD-TMG	Size per phase (mm ²)	120	120	120	120	120	120
	I_{nc} (A)	250	244	238	231	225	198
NSX100 STR	Size per phase (mm ²)	50	50	50	50	50	50
	I_{nc} (A)	100	100	100	100	100	100
NSX160 STR	Size per phase (mm ²)	95	95	95	95	95	95
	I_{nc} (A)	160	160	160	160	160	160
NSX250 (2) STR	Size per phase (mm ²)	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 NSXm up to 160

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
IP \leq 55							
NSXm100 TMD	Size per phase (mm ²)	50	50	50	50	50	50
	I_{nc} (A)	96	94	90	87	83	80
NSXm125 TMD	Size per phase (mm ²)	70	70	70	70	70	70
	I_{nc} (A)	120	117	113	109	104	100
NSXm160 TMD	Size per phase (mm ²)	95	95	95	95	95	95
	I_{nc} (A)	156	152	148	144	139	133
NSXm Vigi (ELCB) 100	Size per phase (mm ²)	50	50	50	50	50	50
	I_{nc} (A)	100	100	100	100	96	93
NSXm Vigi (ELCB) 160	Size per phase (mm ²)	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_{nc} (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-INS-INV250 supplied via the top or bottom, cat. no. 04066 and 04067	150 mm ²	240 mm ²	185 mm ²
In-duct incoming connection block for NSX630, cat. no. 04076	240 mm ²	300 mm ²	300 mm ²

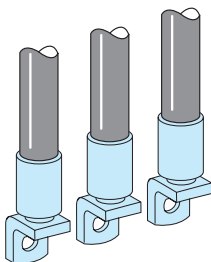
Narrow bimetal lugs

Catalogue numbers selection

Catalogue numbers	Cable size (mm ²)	Quantity
Lugs for aluminium cable(1)		
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.

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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.

Connection of power cables

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 ²)	Max. number of cables per bundle
CSA ≤ 10	8
16 < CSA ≤ 50	4
CSA ≥ 50	Tie individually

Tying the cable bundles

Type of tie	Maximum I _{cw} (kA/rms 1s)	Distance between ties (mm)
Width: 4.5 mm Load: 22 kg	10	200
	15	100
	20	50
Width: 9 mm Load: 80 kg	20	350
	25	200
	35	100
	45	70

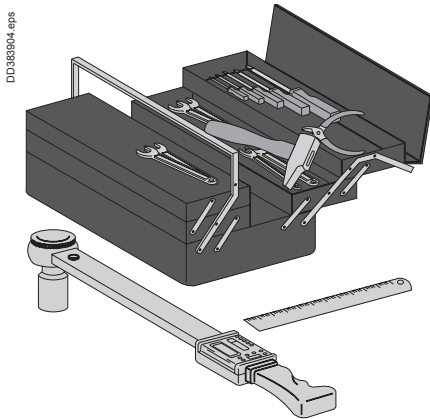
For cable sizes of 50 mm² or more, use 9 mm wide fixing ties.

Recommended tightening torque for mechanical and electrical connections with 8.8 class screws.

Diameter of screw	Tightening torque (Nm) (with nut + contact washer)
M3	1.5
M4	3.5
M5	7
M6	13
M8	28
M10	50
M12	75

Tools required for mounting and connection

Practical information



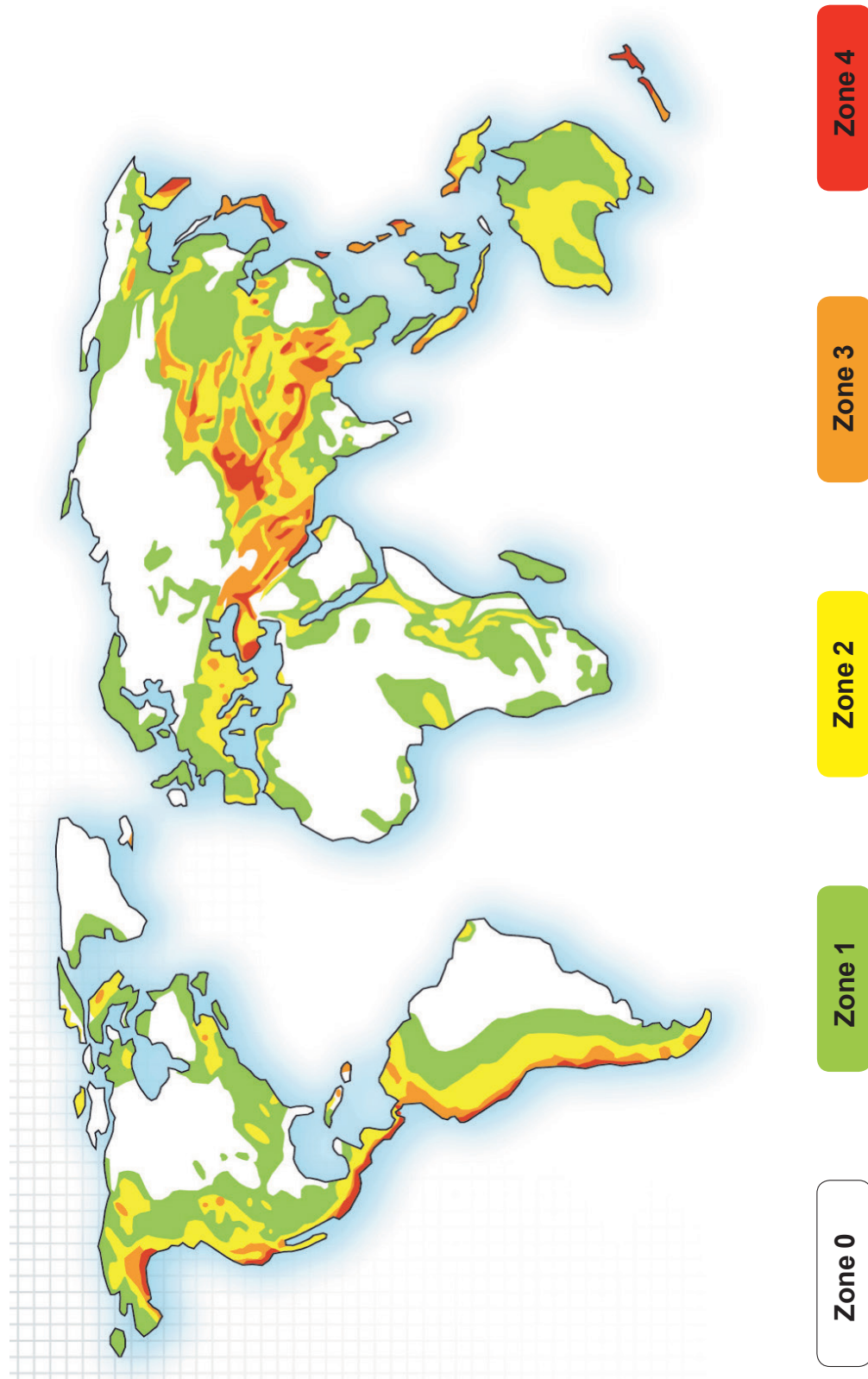
- Vacuum cleaner to clean the switchboards
- Ratchet wrench with sockets
- Torque wrench with sockets and ring bits to tighten the electrical connections to the correct torque (max. torque 50 Nm)
- Open-ended spanners (15 to 27 mm)
- Electrician's knife
- 7, 8, 10, 13, 16, 17 and 19 mm sockets
- Bit 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

Prisma G seismic



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.

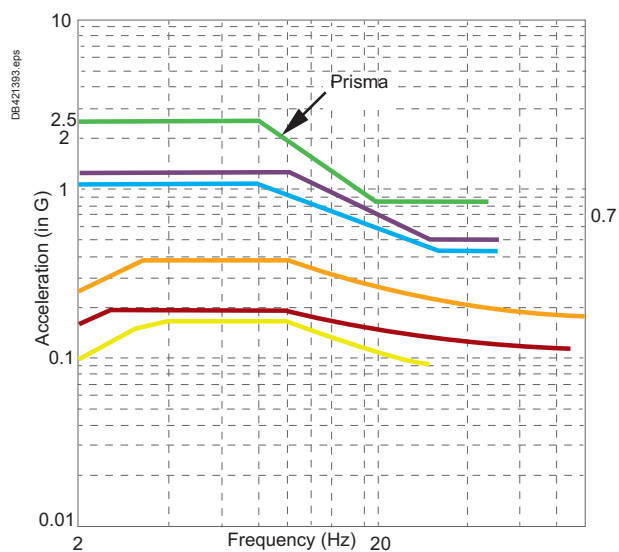
Classification

From weak to strong earthquakes, Prisma G has been tested in the following ground accelerations to guarantee the right performance on seismic risk.

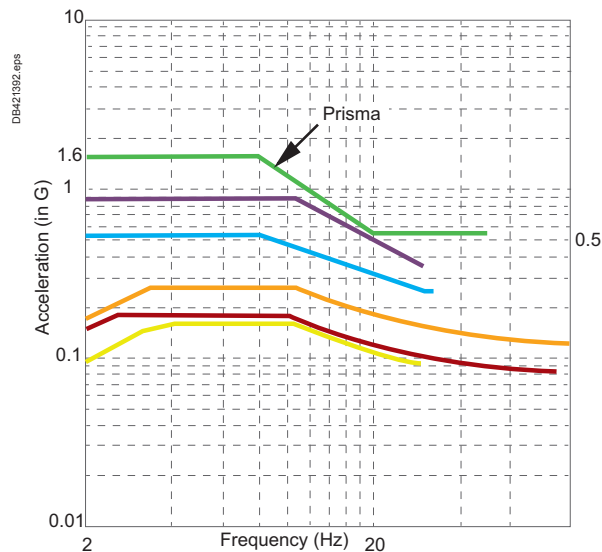
IEC 60068 -3-3 Ground acceleration	Seismic characteristics			
References	General description	Richter scale magnitude	MSK Intensity	UBC Zone
AG2	Intensity from weak to average	< 5.5	< VIII	0 1
AG3	Intensity from average to strong	5.5 to 7.0	VIII to IX	2 3
AG5	Intensity from strong to very strong	> 7.0	> 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





Standards

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).

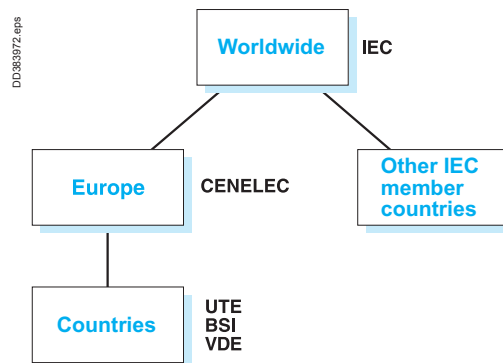
Other IEC member countries

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:

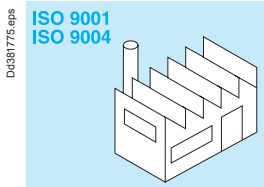
- standards on low voltage switchgear and controlgear:
 - IEC 60947-1: general rules
 - IEC 60947-2: circuit breakers
 - IEC 60947-3: switches and disconnectors
 - IEC 60947-4: contactors
 - IEC 60947-7-1: terminal blocks for copper conductors
 - IEC 62208: empty enclosures.
- The IEC 61439 switchboard 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.

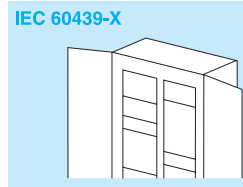
> More informations in [pages B-8 to B-11](#).



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ISO 9001
ISO 9004

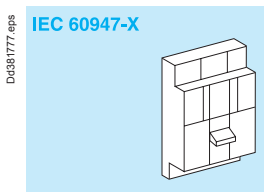
Design and manufacture.



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IEC 60439-X

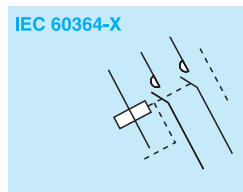
Switchgear and controlgear assemblies.



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IEC 60947-X

Switchgear and controlgear.



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IEC 60364-X

Installation.



Standards

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 ⁽¹⁾	> 1 kg/50 cm	(ISO 6272)
Mandrel bending test ⁽²⁾	< 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.



Standards

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	
1	Protected against access with back of hand <small>Dd381959.eps</small> Ø50 mm	Protection against solid foreign objects larger than 50 mm <small>Dd381959.eps</small> Ø50 mm		1	Protected against vertically dripping water (condensation) <small>Dd381966.eps</small> <small>Dd381966.eps</small>
2	2 Protected against access with a finger <small>Dd381960.eps</small> Ø12 mm	Protection against solid foreign objects larger than 12.5 mm <small>Dd381963.eps</small> Ø12,5 mm		2	Protected against dripping water up to 15° from vertical <small>Dd381967.eps</small> 15° <small>Dd381967.eps</small>
3	Protected against access with a tool <small>Dd381961.eps</small> Ø2,5 mm	Protection against solid foreign objects larger than 2.5 mm <small>Dd381961.eps</small> Ø2,5 mm		3	Protected against spraying water up to 60° from vertical <small>Dd381968.eps</small> 60° <small>Dd381968.eps</small>
4	4 Protected against access with a wire <small>Dd381962.eps</small> Ø1 mm	Protection against solid foreign objects larger than 1 mm <small>Dd381962.eps</small> Ø1 mm		4	Protected against splashing water from all directions <small>Dd381969.eps</small> <small>Dd381969.eps</small>
5	Protected against access with a wire <small>Dd381962.eps</small> Ø1 mm	Protected against dust (dust protected) <small>Dd381964.eps</small> <small>Dd381964.eps</small>		5	Protected against water jets from all directions <small>Dd381970.eps</small> <small>Dd381970.eps</small>
6	Protected against access with a wire <small>Dd381962.eps</small> Ø1 mm	Dust tight <small>Dd381965.eps</small> <small>Dd381965.eps</small>		6	Protected against powerful water jets from all directions <small>Dd381971.eps</small> <small>Dd381971.eps</small>
				7	Protected against the effects of temporary immersion in water <small>Dd381972.eps</small> <small>Dd381972.eps</small>
				8	Protected against the effects of continuous immersion in water <small>Dd381973.eps</small> <small>Dd381973.eps</small>
				9	Protected against close-range high pressure, high temperature spray downs



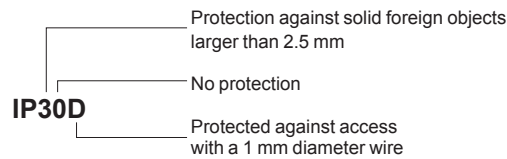
Additional letter

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[□]/25[■]), enclosures that correspond to the higher degree of protection (■) are suitable for the lower degree of protection (□).

Example:

Selection of an enclosure for a laundry room.

Minimum degree of protection: IP21/IK02

A wall-mounted enclosure with a door (plain or transparent), a canopy and a gasket offer 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)	
Min. IP/IK required	IP30/IK07	IP40/IK08 - IK10	IP41/IK08 - IK10	IP43/IK08 - IK10	IP55/IK10	
	IP	IK				
Domestic or comparable premises or locations						
Porch	24	07				■
Bathrooms (see washrooms)						
Bicycles, motorcycles, tricycles, etc. (premises for)	20	07	■			
Water, sewer and heating connections	23	02				■
Laundries	21	02			■	
Cellars, garages, furnace rooms	20	02/07	■			
Bedrooms	20	02	■			
Trash rooms	25	07				■
Halls in cellars	20	07	■			
Courtyards	24/25	02/07				■
Kitchens	20	02	■			
Shower rooms (see washrooms)						
Indoor stairways and alleys	20	02/07	■			
Outdoor stairways and outdoor alleys without roofs	24	07				
Outdoor alleys with roofs	21	02			■	
Attics (roof space)	20	02	■			
Garden shelters	24/25	02/07				■
Latrines	20	02	■			
Dustbin rooms	25	02/07				■
Ironing room	20	02	■			
Access ramps to garages	25	07				■

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			■	
Commercial premises and adjoining areas							
Gunsmiths (storage area, workshop)		30	08		■		
Laundries (wash room)		24	07				■
Butchers	shop	24	07				■
	cold room: ≤ -10 °C	23	07			■	
Bakers, cake shops (kitchens)		50	07				■
Coffee roasters		21	02			■	
Coal, wood, oil		20	08		■		
Delicatessen (production)		24	07				■
Sweets (production)		20	02	■			
Shoe repair shops		20	02	■			
Dairies		24	02				■
Hardware stores (storage areas for chemicals and paint)		33	07			■	
Wood workers		50	07				■
Art galleries		20	02/07	■			
Florists		24	07				■
Furriers		20	07	■			
Fruit and vegetable merchants		24	07				■
Grain shops		50	07				■
Bookshops, stationers		20	02	■			
Motorcycle and bicycle repairs and accessories		20	08		■		
Messenger services		20	08		■		
Furniture shops (antiques, 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=08		■		
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				
Buildings open to the general public							
Shared premises of buildings open to the general public	storage rooms	20	08		■		
	packing rooms	20	08		■		
	archive rooms	20	02	■			
	film and magnetic media storage	20	02	■			
	linen rooms	20	02	■			
	laundry rooms	24	07				■
	misc. shops	21	07/08			■	
	kitchens (large)						
J	Reception old and handicapped people	20	02	■			
L	Lecture halls, meeting rooms, auditoriums, halls used for several purposes						
	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 [□] /23 [■]	02 [□] /07 [■]			■	
V	Places of worship	20	02	■			
W	Administrative premises, banks	20	02	■			
X	Indoor sports facilities						
	halls	20	07 [□] /08 [■]		■		
	premises containing refrigeration facilities	21	08	□		■	
Y	Museums	20	02	■			
PA	Covered open air facilities	23 [□] /25 [■]	08 [□] /10 [■]				■
CTS	Marquees and tents	44	08			□	■
SG	Inflatable structures	44	08				■
PS	Covered parking lots	21	08 [□] /10 [■]				■

(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				
Technical premises						
Battery rooms	23	02/07				■
Lifts (machine rooms and pulley rooms)	20	07 [□] /08 [■]	□	■		
Electrical rooms	20	07	■			
Control rooms	20	02	■			
Workshops	21 [□] /23 [■]	07 [□] /08 [■]			□	■
Laboratories	21 [□] /23 [■]	02 [□] /07 [■]			□	■
Air conditioning washers	24	07				
Garages (used exclusively for parking vehicles) of an area not exceeding 100 m ²	21	07			■	
Machine rooms	31	07/08			■	
Water pressurisers	23	07/08				■
Boiler houses and adjoining premises (power in excess of 70 kW)						
Boiler rooms	coal fuel	51 [□] /61 [■]	07 [□] /08 [■]			
	other fuel	21	07/08		■	
	electrical	21	07/08		■	
Fuel storage areas	coal	50 [□] /60 [■]	08			□
	oil	20	07 [□] /08 [■]	□	■	
	liquefied gas	20	07 [□] /08 [■]	□	■	
Cinder tips	50	08				■
Pump rooms	21 [□] /23 [■]	07 [□] /08 [■]			□	■
Pressure reduction rooms (gas)	20	07 [□] /08 [■]	□	■		
Steam or hot water facilities	21 [□] /23 [■]	07 [□] /08 [■]			□	■
Expansion vessel rooms	21	02			■	
Garages and car parks of an area exceeding 100 m²						
Parking lots	21	07 [□] /10 [■]			□	■
Carwash areas (inside premises)	25	07				■
Petrol stations	inside	21	07		■	
	outside					
Lubrication areas	23	08				■
Battery recharging areas	23	07				■
Workshops	21	08			■	
Public building (other than for the general public)						
Offices	20	02	■			
Libraries	20	02	■			
Archives	20	02	■			
Computer rooms	20	02	■			
Design offices	20	02	■			
Rooms containing reprographic machines	20	02	■			
Sorting rooms	20	07	■			
Refectories in restaurants or canteens	21	07			■	
Large kitchens						
Sports rooms	20	07 [□] /08 [■]	□	■		
Barracks	20	07	■			
Meeting rooms	20	02	■			
Waiting rooms, lounges, halls	20	02	■			
Medical consulting rooms, not fitted with specific equipment	20	02	■			
Demonstration and exhibition rooms	20	02/07	■			

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				
Industrial facilities						
Slaughter houses	55	08				■
Batteries (manufacture)	33	07				■
Acid (manufacture and storage)	33	07				■
Alcohol (manufacture and storage)	33	07				■
Aluminium (manufacture and storage)	51	08				■
Livestock (raising, fattening and sale)	45	07				■
Asphalt and bitumen storage	53	07				■
Wool beating and carding	50	08				■
Industrial laundry	24/25	07				■
Wood (processing)	50	08				■
Meat packers	24/25	07				■
Bakeries	50	07				■
Breweries	24	07				■
Brickworks	53	08				■
Rubber (production and processing)	54	07				■
Carbide (manufacture and storage)	51	07				■
Ammunition factories	53	08				■
Carton board (production)	33	07			■	
Quarries	55	08				■
Celluloid (manufacture of objects)	30	08		■		
Cellulose (manufacture)	34	08				■
Coal (depots)	53	08				■
Pork products	24/25	07				■
Boiler-making works	30	08		■		
Lime kilns	50	08				■
Rag (storage)	30	07	■			
Chlorine (manufacture and storage)	33	07			■	
Chrome-plating	33	07			■	
Cement works	50	08				■
Coking plant	53	08				■
Adhesives (production)	33	07			■	
Bottling lines	35	08				■
Liquid fuels (storage)	31 [□] /33 [■]	08		□	■	
Fats (processing)	51	07				■
Leather (tanning and storage)	31	08			■	
Copper (ore processing)	31	08			■	
Paint stripping	54	08				■
Detergents (manufacture)	53	07				■
Distilleries	33	07			■	
Electrolysis	33	08			■	
Ink manufacturing	31	07			■	
Fertilisers (manufacture and storage)	53	07				■
Explosives (manufacture and storage)	55	08				■
Iron (production and processing)	51	08				■
Spinning mills	50	07				■
Furriers (beating process)	50	07				■
Cheese factories	25	07				■
Gas (production and storage)	31	08			■	
Tar (processing)	33	05			■	
Seed production	50	07				■
Metal engraving	33	07			■	
Oils (extraction)	31	07			■	
Petroleum products (manufacture)	33 [□] /34 [■]	08			□	■
Printworks	20	08		■		

(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				
Industrial establishments (continued)						
Dairies	25	07				■
Public wash-houses	25	07				■
Liqueurs (production)	21	07			■	
Halogenated liquids (use)	21	08			■	
Inflammable products (storage and workshops where they are used)	21	08			■	
Magnesium (production, storage and use)	31	08			■	
Machine rooms	20	08		■		
Plastics (production)	51	08				■
Cabinet makers	50	08				■
Metals (processing)	31 [□] /33 [■]	08			□	■
Combustion engines (testing of)	30	08		■		
Ammunition storage	33	08				■
Nickel (ore processing)	33	08				■
Household waste (processing)	54	07				■
Paper (production)	33 [□] /34 [■]	07			□	■
Paper (storage)	31	07			■	
Perfume (production and storage)	31	07			■	
Pulp mill	34/35	07				■
Paint (production and storage)	33	08				■
Plaster (processing and storage)	50	07				■
Gunpowder factory	55	08				■
Chemicals (production)	30 [□] /50 [■]	08		□		■
Oil refineries	34/35	07				■
Salt preserve factories	33	07				■
Soap (production)	31	07			■	
Saw mills	50	08				■
Metalwork shops	30	08		■		
Grain or sugar silos	50	07				■
Silk and artificial hair factories	50	08				■
Sodium carbonate (processing and storage)	33	07				■
Sulphur (processing)	51	07				■
Spirits (storage)	33	07				■
Sugar mills	55	07				■
Tanners	35	07				■
Dye works	35	07				■
Textile and fabric (production)	51	08				■
Varnish (production and application)	33	08				■
Glass works	33	08				■
Zinc works	31	08			■	

(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				
Farm premises or locations						
Alcohol (storage)	23	07			■	
Closed cattle sheds	35	07				■
Laundries	24	07				■
Wood storage rooms	30	10				■
Threshing floors	50	07				■
Distilling cellars	23	07			■	
Vat rooms (wine)	23	07			■	
Courtyards	35	07				■
Poultry barns	35	07				■
Stables	35	07				■
Fertiliser (storage)	50	07				■
Stables	35	07				■
Manure heaps	24	07				■
Haylofts	50	07				■
Haystacks, forage (storage)	50	07				■
Granaries, barns	50	07				■
Straw (storage)	50	07				■
Greenhouses	23	07			■	
Grain silos	50	07				■
Milking rooms	35	07				■
Pig sties	35	07				■
Chicken houses	35	07				■
Miscellaneous installations						
Fair facilities	33	08			■	
Water treatment facilities	24/25	07/08				■
Thermodynamic installations, air-conditioned rooms and cold rooms						
Height above ground	from 0 to 1.10 m	25	07			■
	from 1.10 to 2 m	24	07			■
	above 2 m under evaporator or water drain pipe	21	07		■	
	ceiling and up to 10 cm underneath	23	07			■
Temperature ≤ -10 °C		23	07			■
Compressor	room	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.

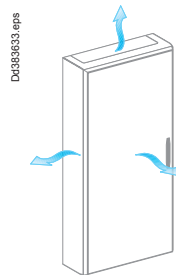
Management of the internal temperature

Cooling

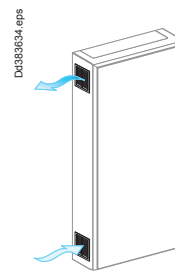
There are a number of way to dissipate heat from the switchboard.

The drawings below present the various means.

Convection

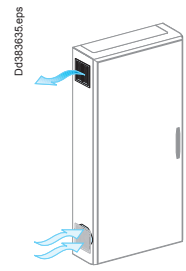


IP > 31
Ensured naturally in Prisma enclosures.



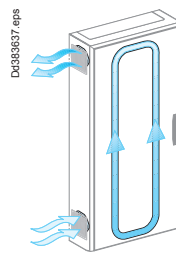
IP ≤ 31

Forced-air ventilation



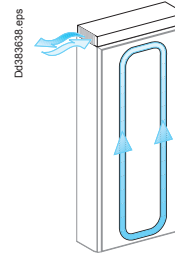
IP ≤ 54
Using fans, it significantly increases the thermal capacity of an enclosure.

Forced-air ventilation with air-air exchanger



IP > 31
On special request.

Forced convection and cooling



IP > 31

For these extreme cases, many installers prefer to set up the switchboards with other electrotechnical and electronic devices in air-conditioned electrical rooms.

Heating

The means employed to raise the internal temperature in a switchboard is a 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

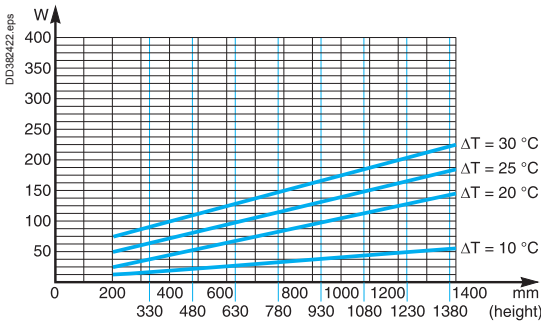
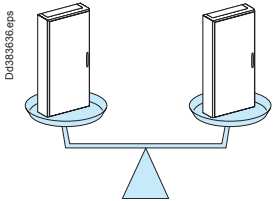
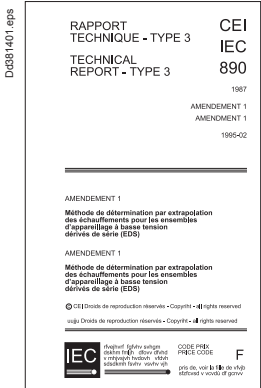
A number of qualified and tested configurations serve as the basis for indicating the thermal capacity of Prisma enclosures.

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.

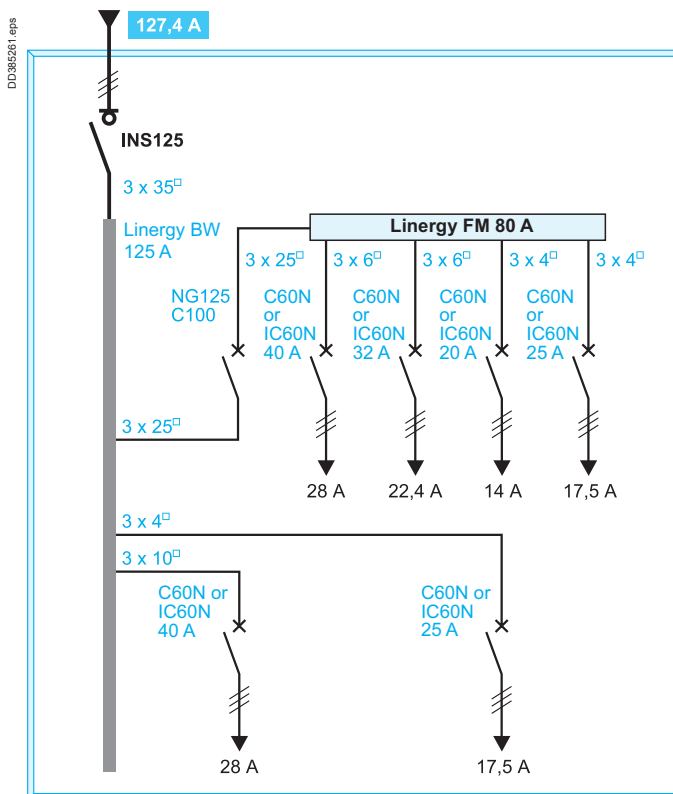
Pack enclosure, 3 rows, IP30

Diversity factor: 0.7

Ambient temperature around the switchboard:

35 °C

P(W) = 95 W

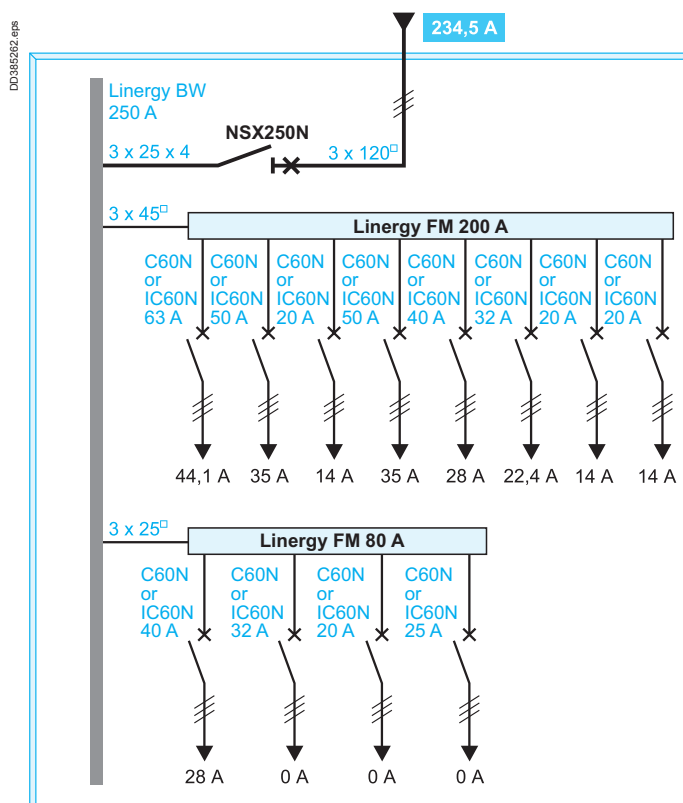


Wall-mounted enclosure, 23 modules, IP30/IP4X

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:

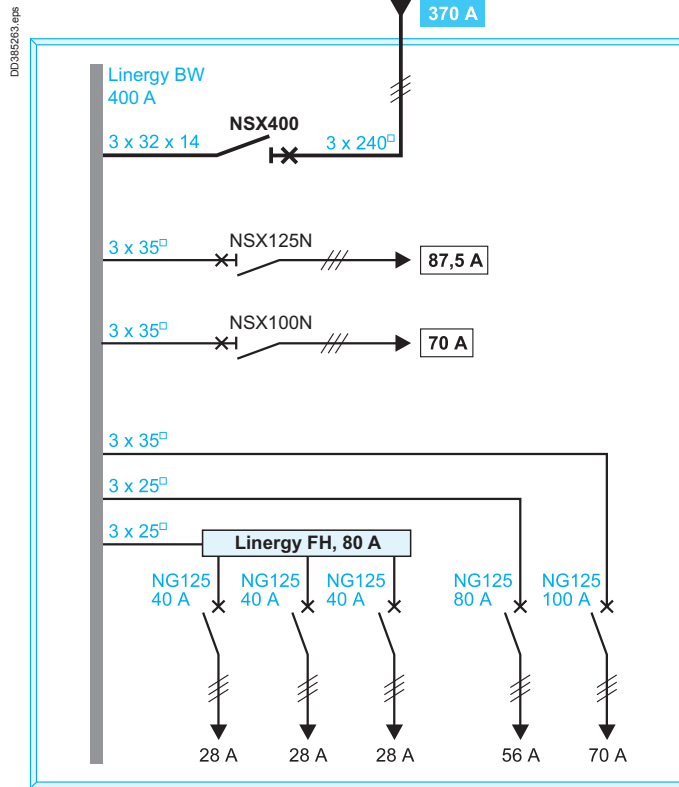
- the volume of the enclosure is greater than that of the tested enclosure with a similar assembly
- the P(W) of the installed assembly is less than the P(W) of the tested configuration in the same size enclosure.

Wall-mounted enclosure, 23 modules, plain door, IP30/IP4X

Diversity factor: 0.7

Ambient temperature around the switchboard: 35 °C

P(W) = 200 W

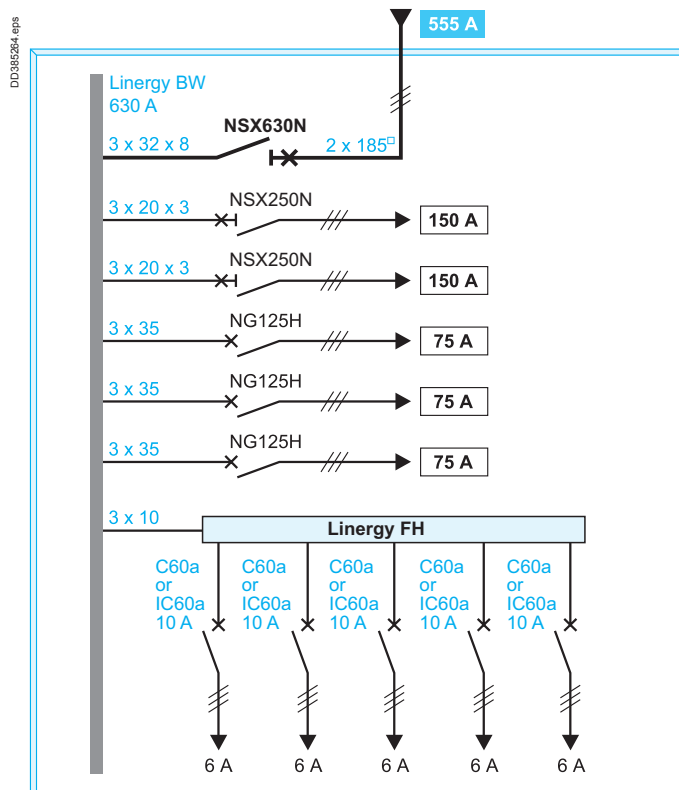


Floor-standing enclosure, 33 modules, IP30/IP4X

Diversity factor: 0.7

Ambient temperature around the switchboard: 35 °C

P(W) = 270 W

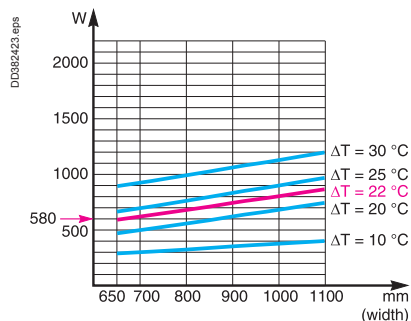


Thermal management of switchboards

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.

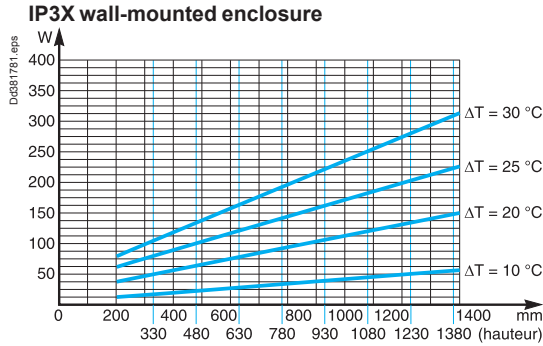
Thermal management of switchboards

Charts

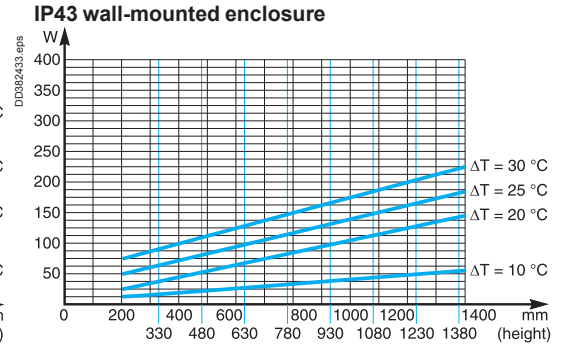
Thermal characteristics

Quick calculation charts for internal temperatures

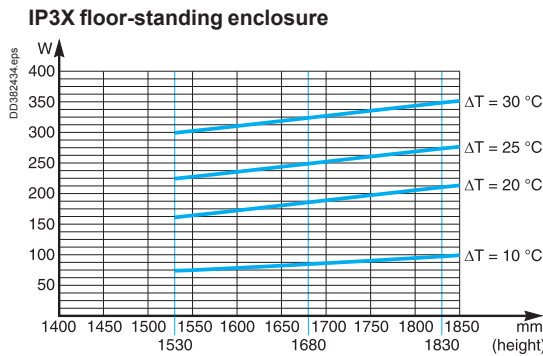
The indicated internal heat rise is that measured at mid-height in the enclosure.



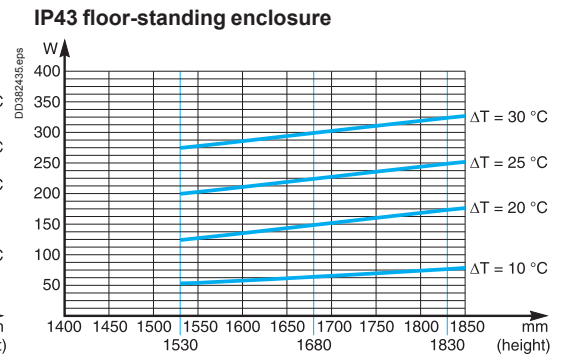
Test conditions:
600 mm wide enclosure mounted directly on wall without fixing lugs.



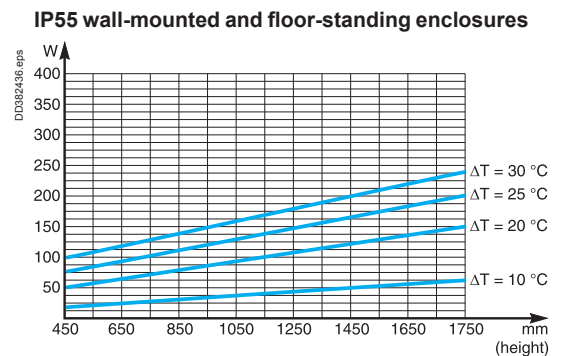
Test conditions:
600 mm wide enclosure mounted directly on wall without fixing lugs.



Test conditions:
600 mm wide enclosure on floor against a wall.



Test conditions:
Mounted on wall with fixing lugs or on mounting uprights.



Test conditions:
600 mm wide enclosure mounted directly on wall without fixing lugs or mounting uprights.

Thermal management of switchboards

Ventilation

Thermal characteristics

Switchboard ventilation

The air enters the lower section via the fans and exits the upper section:

- through a ventilated roof
- or through a ventilation opening.

The air throughput of the fans is determined by the equation:

$$D = 3,1 \times \left(\frac{P}{\Delta T} - KS \right)$$

The chart below can be used to determine the necessary throughput, based on the dissipated power, the difference in temperature (internal - external) and the exposed surface area of the enclosure.

Example

Consider an IP3X cubicle, 650 mm wide and 400 mm deep, containing components (devices, connections, busbars, etc.) dissipating 1000 W.

The ambient temperature around the cubicle is 50 °C.

Given that the average temperature at mid-height should not exceed 60 °C, the difference in temperature ΔT is equal to 60 - 50 = 10 °C.

The exposed surface of the cubicle (non adjacent to a wall or other cubicle) is 4.46 m².

(back = 1.3 m², front = 1.3 m², roof = 0.26 m², side panels = 1.6 m²).

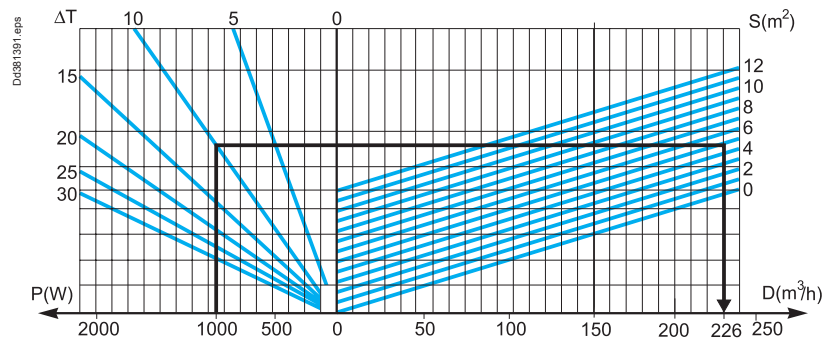
What is the necessary throughput of the ventilation system?

The throughput can be calculated as:

$$D = 3,1 \times \left(\frac{1000}{10} - 5,5 \times 4,46 \right)$$

D = 234 m³/h.

In the range of Prisma accessories, select a system with a throughput of 300 m³/h.



Calculation data

P : power dissipated by the devices, connections and busbars (in Watts)

P_r : power of the heating resistor (in Watts)

T_m : maximum internal temperature in the device zone (in °C)

T_i : average internal temperature (in °C)

T_e : average external temperature (in °C)

$$\Delta T_m = T_m - T_e$$

$$\Delta T_i = T_i - T_e$$

S : total free surface area of the enclosure (expressed in m²)

K : thermal-conduction coefficient of the material (W/m² °C)

K = 5.5 W/m² °C for painted sheet metal

D : ventilation throughput (in m³/h)

Note: the dissipated power of each device is provided by the manufacturer. Add approximately 30 % to account for the connections and the busbars.

Thermal management of switchboards

Heating

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)

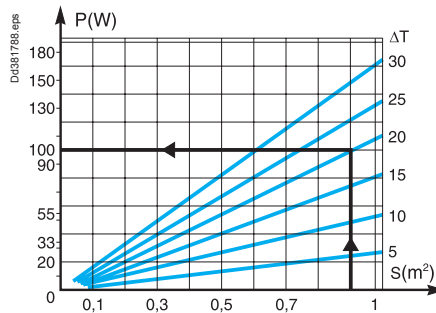
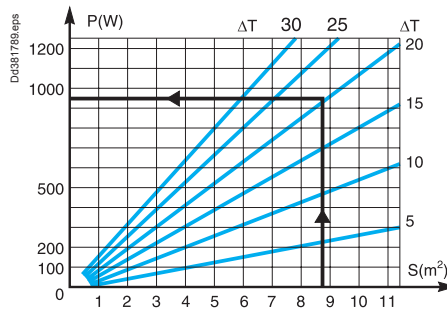


Chart to determine the heating resistor for all types of enclosures



Calculation data

- P** : power dissipated by the devices, connections and busbars (in Watts)
- P_r** : power of the heating resistor (in Watts)
- T_m** : maximum internal temperature in the device zone (in °C)
- T_i** : average internal temperature (in °C)
- T_e** : average external temperature (in °C)

$$\Delta T_m = T_m - T_e$$

$$\Delta T = T_i - T_e$$

S : total free surface area of the enclosure (expressed in m²)

K : thermal-conduction coefficient of the material (W/m² °C)
 K = 5.5 W/m² °C for painted sheet metal

D : ventilation throughput (in m³/h)

Note: the dissipated power of each device is provided by the manufacturer. Add approximately 30 % to account for the connections and the busbars.



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