



# PrismaSeT P

**Catalog 2023**  
Cubicles up to 4000 A

**Version 14**



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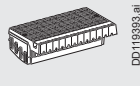
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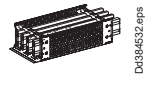


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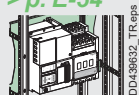
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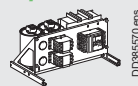
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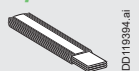
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# Overview

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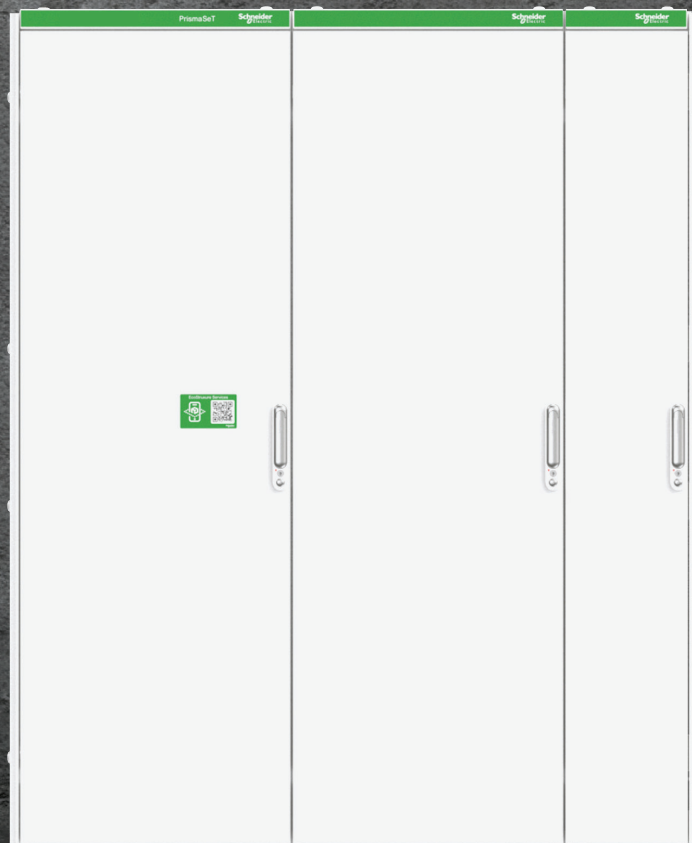
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# PrismaSeT P - Reliable, Easily connected

The new PrismaSeT P switchboard is the market forerunner with built-in cloud connectivity, allowing instant access to smart alarm system, energy usage analysis, trends, and preventative maintenance plans. Built-in cloud connectivity allows users to be notified of the round-the-clock electrical distribution as well as voltage loss if any. This maximizes efficiency and power availability, while creating the basis for future innovations. The PrismaSeT P switchboard also allows easy wireless integration of sensors.

## Offer values

-  **Simplicity**
  - Deliver connectivity without any complexity
-  **Easy installation**
  - Simple-to-install connected solution
-  **Robustness and Design**
  - New design with new structure color, increased frame and door robustness
-  **Win more business**
  - Increase the service business opportunities while offering an affordable connected panel
-  **Protection**
  - Deliver greater peace of mind



## Digital journey

### Peace of mind on the Cloud

- Electrical Fire Prevention
- Power availability at no cost
- Energy awareness



### Easy-to-install 100% wireless communication solutions

- User friendly installation instructions
- Independent from customer IT

### Built-in connectivity

- Voltage loss alert free of charge
- Connection to cloud in less than 5 min without any IT skill

### Easy installation and commissioning

- Less than 30 minutes for setting up the communication devices

# PrismaSeT P - Reliable, Easily connected

## New design with sustainable packaging

Enhance buildings with in-built connectivity and efficient design

The new design of PrismaSeT P increases the robustness of the panels, helps to gain efficiency on every level and provides peace of mind to the panel builders, electrical contractors and facility managers.

In addition, the new 100% green packaging decreases the quantity of waste and its disposal cost by using only cartons.

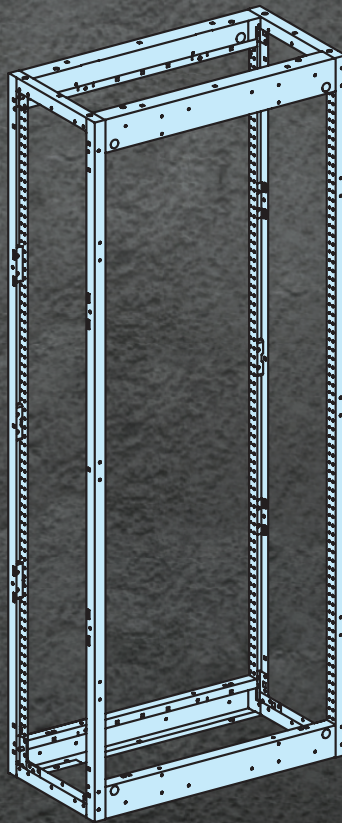
### Green Packaging

- Progressive cancellation of plastic and polystyrene of packaging.
- 100% recyclable cardboards.
- Time & money saving to sort waste.
- New cross beam in cardboard for a more robust packaging.



### Reinforced Frame

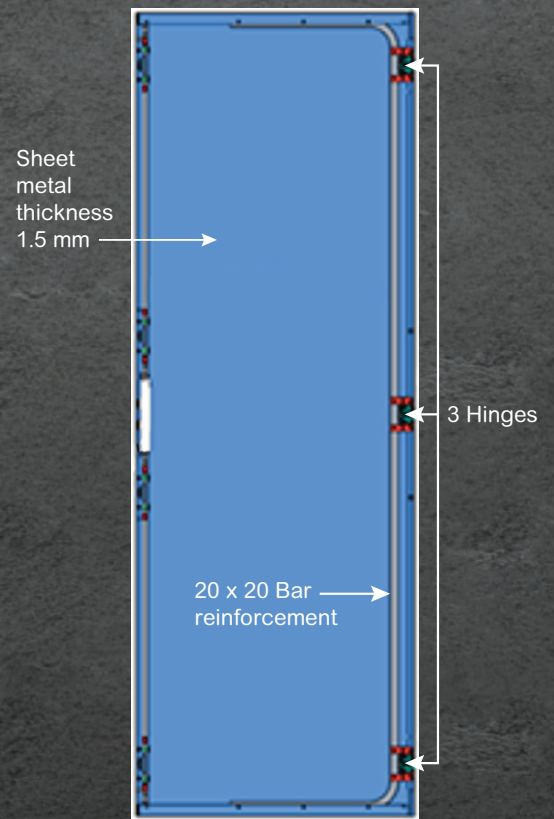
- Easier transportation and perception during assembly.
- Reinforcement on the lower angle levels using additional accessories.



### Reinforced Plain Door

- 3 hinges
- Sheet metal thickness 1.5 mm
- 20 x 20 bar reinforcement

IP 30/31 Plain Door



### New Improved Handle

- More robust handle.
- Keyless entry door.
- Ergonomic and Aesthetically handle design.



### Digital Instruction Sheets

- Cancellation of systematic printed instruction in each packaging.
- 1 printed 'Super Leaflet' with all instructions (available to order once).
- 1 systematic QR code to link to the right instruction sheets.



# PrismaSeT P - Reliable, Easily connected

The new **PrismaSeT** switchboard is the market forerunner with built-in cloud connectivity, allowing instant access to smart alarm system, energy usage analysis, trends, and preventative maintenance plans. Built-in cloud connectivity allows users to be notified of the round-the-clock electrical distribution as well as voltage loss if any. This maximizes efficiency and power availability, while creating the basis for future innovations. The **PrismaSeT** switchboard also allows easy wireless integration of sensors.

## PowerLogic HeatTag

- Cable Overheating Alert



The PowerLogic HeatTag sensor is a revolutionary new product designed for fire prevention in switchboards. It uses proactive heating detection technology to drastically reduce the risk of fire.

## ComPacT NSX

- With wireless Auxiliary Contact



New ComPacT NSX circuit breaker redefines and enhances customer experience through seamless connectivity along with game-changing user interface.

## Acti9 AFDD Connect

- Arc Fault detection on Load cables



Acti9 AFDD Connect is most advanced protection available with all-in-one function providing connectivity and diagnostics.

## PowerLogic PowerTag

- From 1 to 6300 A



PowerTag Energy is a wireless communication energy sensor that provides precise, real-time data on energy, currents, power, voltage, and power factor.



# Wireless Sensor for Early Detection of Overheating Cables



SMT10020

HeatTag is a smart sensor for early detection of overheating wire connections or overheating cables. HeatTag helps prevent electrical switchboards from being damaged, by analyzing gas and particles in the air and sending alerts before any smoke or insulator browning.

## Standards

The HeatTag smart sensor complies with the following standards:

- IEC 61010-1:2017 UL/CSA/EU CENELEC deviations
- IEC/EN 61326-1b FCC Part 15B and 15C
- ETSI/EN 300328
- ETSI/EN 301489-1
- IEEE 802.15.4

### Note:

Do not use HeatTag as a safety device. HeatTag does not replace the fire protection devices of the building.

## Presentation

### HeatTag smart sensor:

- Sends three levels of alert depending on the severity of the situation it detects.
- Helps prevent potential fire damages by analyzing gas and micro-particles emitted by cable sheaths when overheating.
- Measures temperature and humidity.
- Communicates with all Schneider Electric EcoStruxure panel servers or gateways.
- Is integrated in EcoStruxure solutions.

The HeatTag sensor must be installed only in non-forced air ventilated switchboards. It must be mounted on a DIN rail.

During the first 30 minutes after powered on, HeatTag can generate an alert for test. It then takes another 8 hours for HeatTag to define its nominal environment and to be fully operational. Each time the HeatTag sensor is powered on, these 30-minute and 8-hour sequences are repeated.

## Operation

### Paired with Schneider Electric panel servers or gateways, HeatTag reports:

- Alerts
- Air quality index
- Temperature and humidity measurement
- Self-diagnosis information

## Air Quality

HeatTag provides an air quality index, ranging from 0 to 10, and displays the air quality evolution trend in a table.

When the air quality index is equal to 10, HeatTag sends an alert. It has detected abnormal cable sheath heating in the switchboard.

## Detection Alert

An alert is triggered when HeatTag detects abnormal cable sheath heating in the switchboard, which can be caused by:

- One or more loose connections (too high contact resistance)
- A poorly sized cable compared to the rated current
- Overcurrent and poorly regulated protective equipment

Alerts are triggered with three severity levels:

- Low level: a cable is slowly overheating in the installation, you must plan a maintenance visit of the installation.
- Medium level: a cable is overheating in the installation, you must go quickly to the installation for maintenance.
- High level: a cable overheats very quickly, you must check the installation immediately.

The orange application led flashes when HeatTag sends an alert to the panel servers or gateways.

## Temperature

HeatTag provides a temperature value with a 30 second default transmission period. The transmission period can be increased by the system in case of high wireless data traffic.

## Humidity

The HeatTag provides a humidity rate with a 30 second default transmission period. The transmission period can be increased by the system in case of high wireless data traffic.

## Self-Diagnosis

HeatTag carries out two types of diagnosis:

- A minor alert is sent when the fan rpm is 80% of its nominal rpm, which means fan clogging.
- A major alert is sent when HeatTag is faulty. In this case it cannot report measures at all, nor reports incorrect measures.

# Wireless Sensor for Early Detection of Overheating Cables

## HeatTag Smart Design

- No settings
- Nominal environment auto-learning to avoid false alerts
- Concentrator auto-discovery
- Alerts generated by a powerful algorithm integrated in HeatTag

## Electrical Characteristics

Supply voltage	110-277 VAC, -15 % / +15 %
Frequency	50-60 Hz
Max. consumption	0.1 A
Operating temperature	-15 °C / +70 °C (5 °F to 158 °F)
Storage temperature	-20 °C / +85 °C (-4 °F to 185 °F)
Relative humidity in operation	15-90 %
Altitude of use	0-2000 m (0-6500 ft)
Degree of pollution (IEC 60664-1)	3
Oversvoltage category	OVC III

## Sensor Characteristics

Temperature measurement	Measurement range	-15 °C / +70 °C (5 °F to 158 °F)
	Measurement accuracy	-1.1 °C / +1.1 °C
	Default transmission period	30 seconds (higher in case of high wireless data traffic)
Humidity measurement	Measurement range	15-90 %
	Measurement accuracy	±9 RH %
	Default transmission period	30 seconds (higher in case of high wireless data traffic)
Air quality		Index (0 to 10), alert generation when index = 10
Test alert after pairing		During the first 30 minutes after powered on
Environment auto-learning phase		8 hours after the first 30 minutes

## Installation

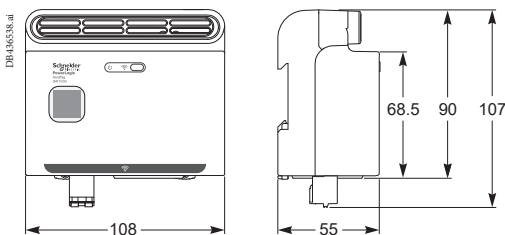
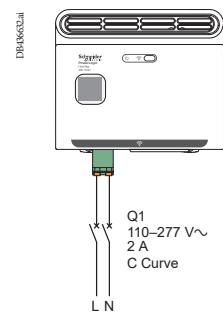
### Communication Architecture

List of compatible communicators:

- EcoStruxure Panel Servers
- PowerTag Link

### Wiring

HeatTag must be protected by 2 A breaker. It is delivered with a separate connector.



## Mechanical Characteristics

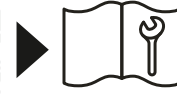
Dimensions (w x h x d)	108 x 107 x 55 mm
Weight	270 g
Degree of protection (IEC 60529)	IP30

# Wireless Sensor for Early Detection of Overheating Cables

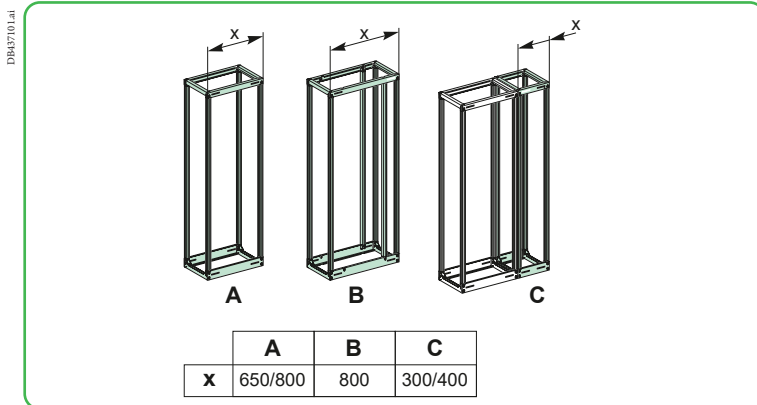
## Integration in PrismaSeT P

HeatTag must be installed following the Instruction Sheet recommendations (MFR5173801-02).

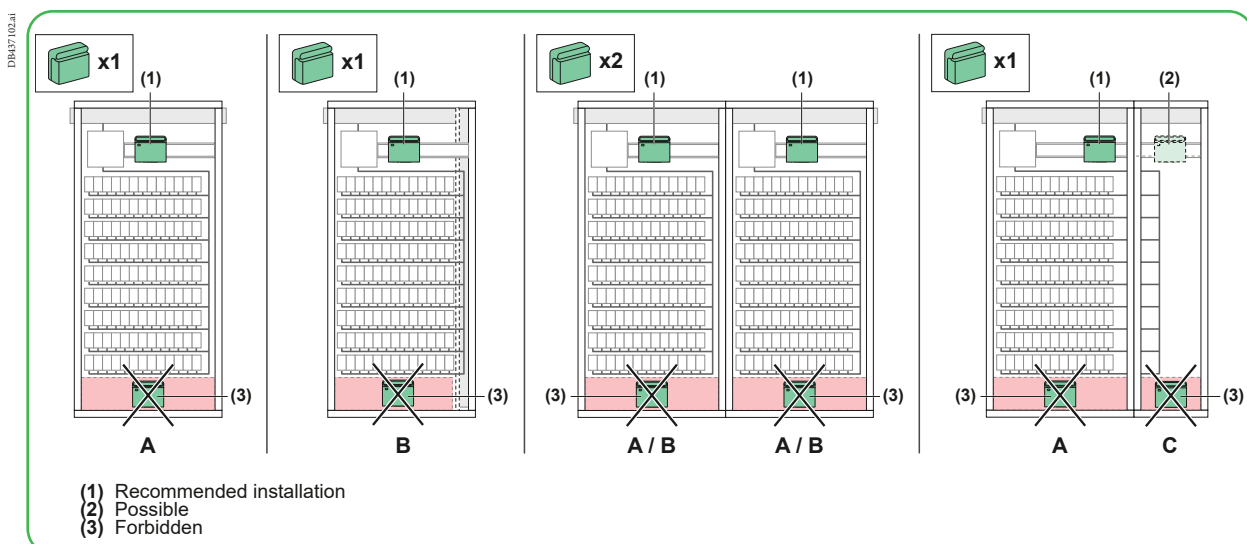
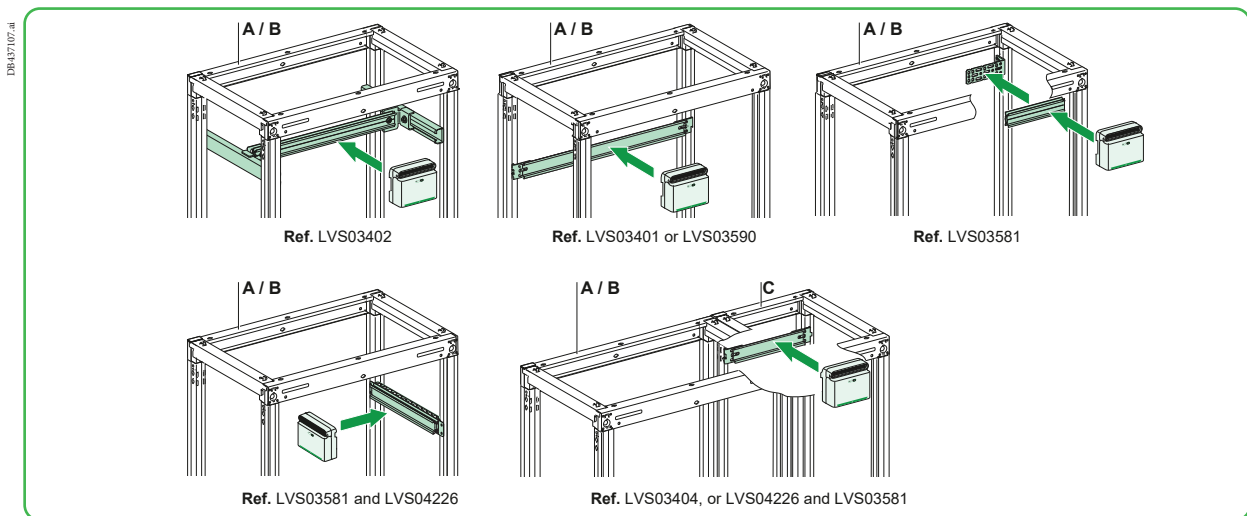
DB437105.ai



MFR5173801-02



HeatTag must be installed on a DIN rail.



# PrismaSeT G enclosures up to 630 A IP30, IP40, IP41, IP43, IP55



250 A

## PrismaSeT G Pack 250

- Schools
- Small shops
- Hotels, etc.



630 A

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

## PrismaSeT G



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

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



B

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

## PrismaSeT P



## Energy management has never been simpler

Smart Panels connect you to energy savings in three steps.

### 1. Measure

Embedded and stand-alone metering & control capabilities

- 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



Tested, Validated, Documented Smart Panels architecture  
 Smart Panels have been certified via Schneider Electric's "TVDA" quality process  
 Tested in performance labs by experts, in the most common configuration  
 Validated full functional compatibility of devices  
 Documented, with user guide, predefined CAD panel designs & wiring diagrams

# 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 organization that performed the original design and associated verification of an assembly in accordance with the standard, and of the assembly manufacturer - the organization taking responsibility for the finished assembly;
- the design and verification rules, constituting a benchmark for product certification.

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

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.

## PrismaSeT tested switchboards

The conformity of the switchboard has been tested and proven.

A PrismaSeT switchboard is:

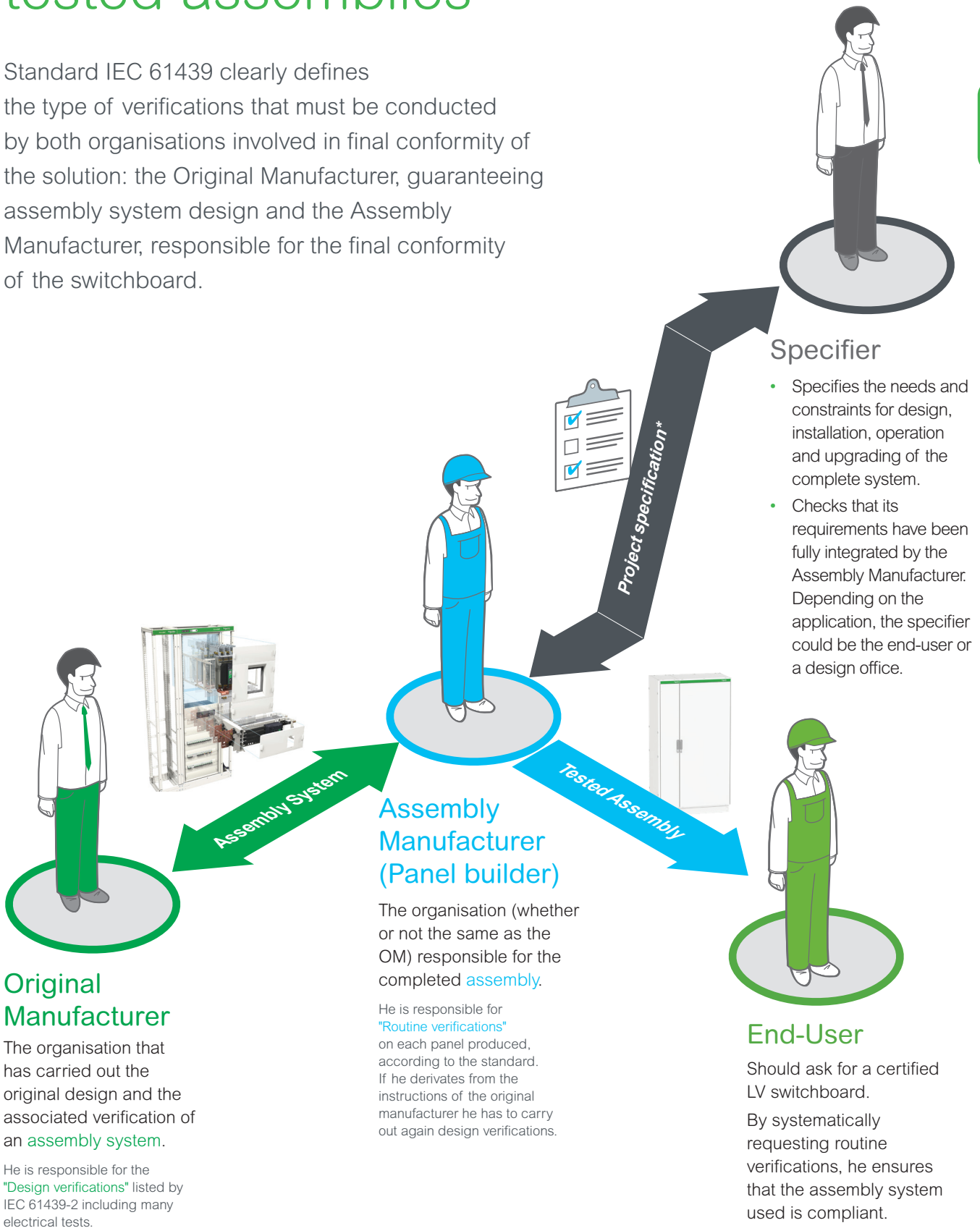
- made up of Schneider Electric low-voltage devices and components that all comply with the applicable standards;
- based on configurations in our Catalog;
- made up of PrismaSeT and Linergy mechanical and electrical components that have been subjected to the verification of original equipment manufacturer;
- 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 PrismaSeT switchboards, including the basic configurations in the low voltage distribution Catalog, 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.



B

# The main 10 functions of standard IEC 61439

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



## Safety

### Voltage stresses withstand capability

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

### Current-carrying capability

To protect against burns and to withstand temperature rise:

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

### Short-circuit withstand capability

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

### Protection against electric shock

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

### Protection against risk of fire or explosion

- Resistance to internal glowing elements

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



## Continuity of service

### Maintenance and modification capability

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

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

### Electro-Magnetic compatibility

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

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



## Compliance with end-user requirements

### Capability to operate the electrical installation

To properly function, according to:

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

### Capability to be installed on site

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

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

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

### IEC 61439-1 paragraph 11.4

#### Protection against electric shocks and integrity of protection circuits

The following should be checked visually:

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

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

### IEC 61439-1 paragraph 11.5

#### Integration of incorporated components

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

### IEC 61439-1 paragraph 11.6

#### Internal electric circuits and connections

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

This allows:

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

### IEC 61439-1 paragraph 11.9

#### Dielectric properties

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

### IEC 61439-1 paragraph 11.10

#### Wiring, operating performance and function

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

# Standard individual check sheet

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

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:

.....

# Develop your business efficiency



## Switchboards that are safe...

With PrismaSeT P 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 and the installation.



Tested low voltage switchboard, IEC 61439-1&2 compliant.



- Available power
- Safety of people and property
- Controlled costs and delivery times
- Upgradeability

# with our functional LV systems

## ... optimised and upgradeable

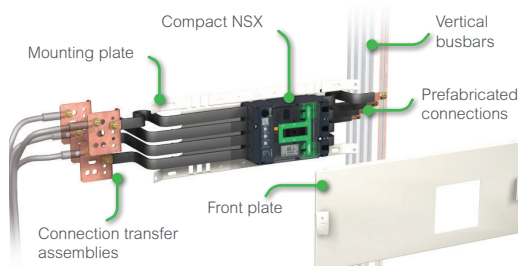
With PrismaSeT P you can build just the right switchboard for your customer, sized precisely to fit costs and needs. With this complete, prefabricated and tested system, it's easy to upgrade your installation and still maintain the original performance levels.

- The cubicles combine easily with switchboards already in service.
- Devices can be replaced or added at any time.



## Straightforward organisation to make your job easier

The switchboard is structured by zones dedicated to switchgear, busbars, cables, etc.



The functional units are naturally stacking in the switchboard.

Each configuration is tested for improved safety.



Temperature rise test in laboratory.

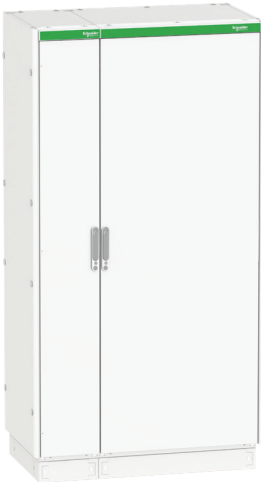
## Readily available close by

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

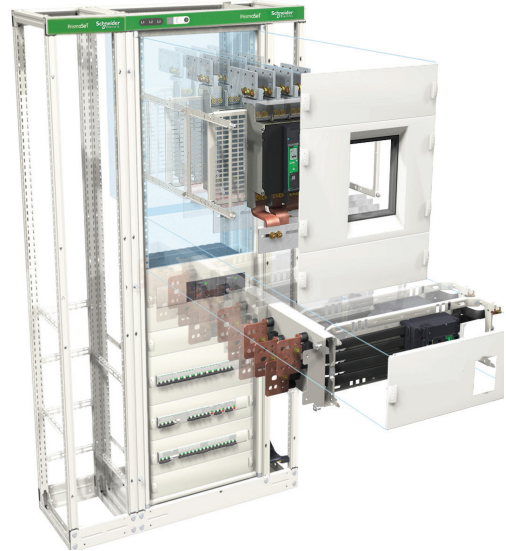
# Electrical switchboards up to 4000 A

The PrismaSeT P functional system can be used for all types of low-voltage distribution switchboards (main, subdistribution and final) up to 4000 A, in commercial and industrial environments.

Configuration 6-v2.png



PD390150\_SE\_R.eps



## Switchboard design is very simple

### 1. A metal structure

The switchboard is made up of one or more frameworks combined side-by-side or back-to-back, on which a complete selection of cover panels and doors can be mounted.

### 2. A distribution system

Horizontal busbars or vertical busbars positioned in a lateral compartment or at the rear of the cubicle are used to distribute electricity throughout the switchboard.

### 3. Complete functional units

- a dedicated mounting plate for device installation
- a front plate to block direct access to live parts
- prefabricated busbar connections
- devices for on-site connections.

Each functional unit contributes to a function in the switchboard.

The functional units are modular and are arranged rationally.

The system includes everything required for functional unit mounting, supply and onsite connection.

The components of the PrismaSeT P and those of the functional units in particular have been designed and tested taking into account device characteristics.

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



## Assets of PrismaSeT P switchboards

### 1. A dependable electrical installation

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

### 2. An upgradeable electrical installation

Thanks to modular design, PrismaSeT P switchboards can be modified easily to integrate new functional units as needed.

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

### 3. Total safety for personnel

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

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

Additional internal protection (partitions, barriers) is available to create form 2, 3 or 4 separation to protect against direct contacts with live parts.

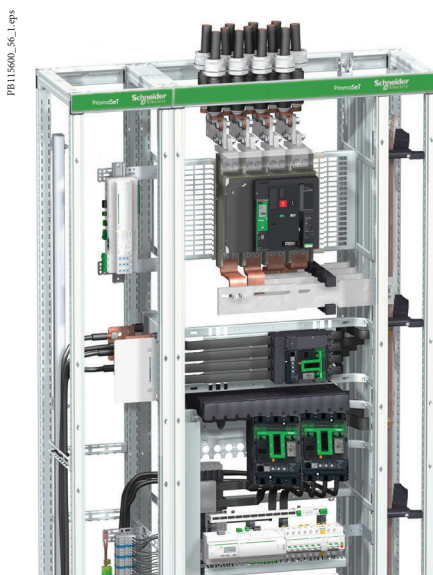
Terminal shields are mandatory for installation of Compact NSX and INS/INV devices in PrismaSeT P enclosures.

### 4. Connected solution

- Fire prevention
- Power availability
- Energy management

# Electrical switchboards up to 4000 A

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



B

## Electrical characteristics

Complying with standards IEC 62208 and EN 62208:

- rated insulation level of main busbars: 1000 V
- $I_n$ : 4000 A
- rated peak withstand current  $I_{pk}$ : 220 kA
- rated short-time withstand current  $I_{cw}$ : 100 kA rms / 1 second
- frequency: 50/60 Hz
- voltage  $U_e = 690$  V under conditions

## Mechanical characteristics

- Steel sheet metal
- Cataphoresis treatment + hot-polymerised polyester epoxy powder, white colour RAL 9003
- Can be dismantled
- Can be combined side-by-side and back-to-back
- Degree of protection:
  - IP30: with IP30 cover panels including a door or a cover frame
  - IP31: with IP30 cover panels including a door + gasket
  - IP55: with IP55 cover panels
- Degree of protection against mechanical impacts:
  - IK07: with cover frame
  - IK08: with IP30 door
  - IK10: with IP55 door
- Framework dimensions:
  - four widths:
    - W = 300: cable compartment
    - W = 400: cable compartment or device compartment
    - W = 650: device compartment or cable compartment
    - W = 800: device compartment with busbar compartment or cable compartment
  - two depths: 400, 600 mm
  - height: 2000 mm.
- Indoor cubicles.



See "How to assemble an electrical switchboard"  
Guide DESW043EN



Electrical switchboards built using the PrismaSeT P functional system and Schneider Electric recommendations fully comply with international standards IEC 61439-1 and 2.

# PrismaSeT 6300 - LV switchboards for harsh environments up to 4000 A

When demanding applications and severe conditions require the best, assure your success with PrismaSeT 6300.



## Technical characteristics

- High grade steel, durable epoxy painting techniques and ingenious design for a remarkable robustness.
- Steel sheet metal, thickness 1.5 mm on panels and 1.8 mm on doors.
- Electrophoresis treatment and hot-polymerised polyester epoxy powder.
- White color RAL 9003.
- Degree of protection: IP55 (IEC 60529).
- Degree of protection against mechanical impacts: IK10 with door (IEC 62262).
- Frame dimensions:
  - 2 widths:
    - 700 mm (for functional units)
    - 300 mm (for vertical busbars and cables ducts)
  - 2 depths:
    - 500 mm (up to 1600 A)
    - 800 mm (up to 4000 A)
  - height: 2000 mm.



## Reinforced solution for low voltage switchboards up to 4000 A

More than PrismaSeT, PrismaSeT 6300 contributes to safety of persons as well as to reliability and continuity of service of the electrical installation. Thanks to its reinforced metal structure, it combines outstanding robustness with versatility and flexibility, by resisting to harsh environments and heavy loads. PrismaSeT 6300 is ready to perform in any condition.

As PrismaSeT, PrismaSeT 6300 is a solution of kit cubicles for low voltage electrical distribution switchboards:

- the components (switchgear, busbars, etc.) are designed for joint operation
- all the most demanding switchboard configurations have been tested and are IEC standard compliant.



## Total safety and reliability

PrismaSeT 6300 is designed to operate up to 4000 A.

It is fully tested to perform in extreme conditions, and fully compliant with standards IEC 61439-1 and 2, IEC 62208.

PrismaSeT 6300 withstands seismic vibrations (Standard EDF CRT91C11200, AS1170, EAK 2000, ENDESA 1986, RPA 99 2003, Gore GR 63, Turkish Seismic Code, GOST 17516.1-90).

Seismic tests are performed by an external laboratory, CESI Labs. All documentation required by local authorities and customers in order to get the approval are available.

Seismic resistance for civil installations: 0.7 g APN (rms) and 3.5 g peak, without any extra accessories.



# Solutions for continuity of service in electrical installations with PrismaSeT



## The right level of continuity of service

All organizations have some sensitivity to the continuity of service of electrical power.

For some power is a vital component to their ongoing success and viability.

The required level of continuity of service must be considered for each application so that the electrical installation can be optimised accordingly.

The stakes of continuity of service are high. Even a brief electrical distribution failure can have serious consequences on many activities.

### Continuity of service solutions for Operation, Maintenance, Evolution

All solutions proposed comply with standards EN 61439-1 and EN 61439-2.

The system solutions proposed include Schneider Electric products exclusively to fully ensure compatibility and operation.

To ensure safety, solutions with switchgear mounted on plug-in bases, withdrawable chassis and disconnectable or withdrawable mounting plates include safety trip levers that open the circuit breaker if it is removed in closed position.

B



## For highest continuity of services

### Functional units with devices on live-disconnectable mounting plates

Disconnectable IS 223:  
(correspondence with standard IEC 61439-2: WFD)

- High continuity of service
- Maximum time to restore power after maintenance: 1 CEhour
- Live upgrading.

### Functional units with devices on live-withdrawable mounting plates

Disconnectable IS 233: (correspondence with standard IEC 61439-2 : WWW)

- High continuity of service
- Maximum time to restore power after maintenance: 1/4 h
- Live upgrading.

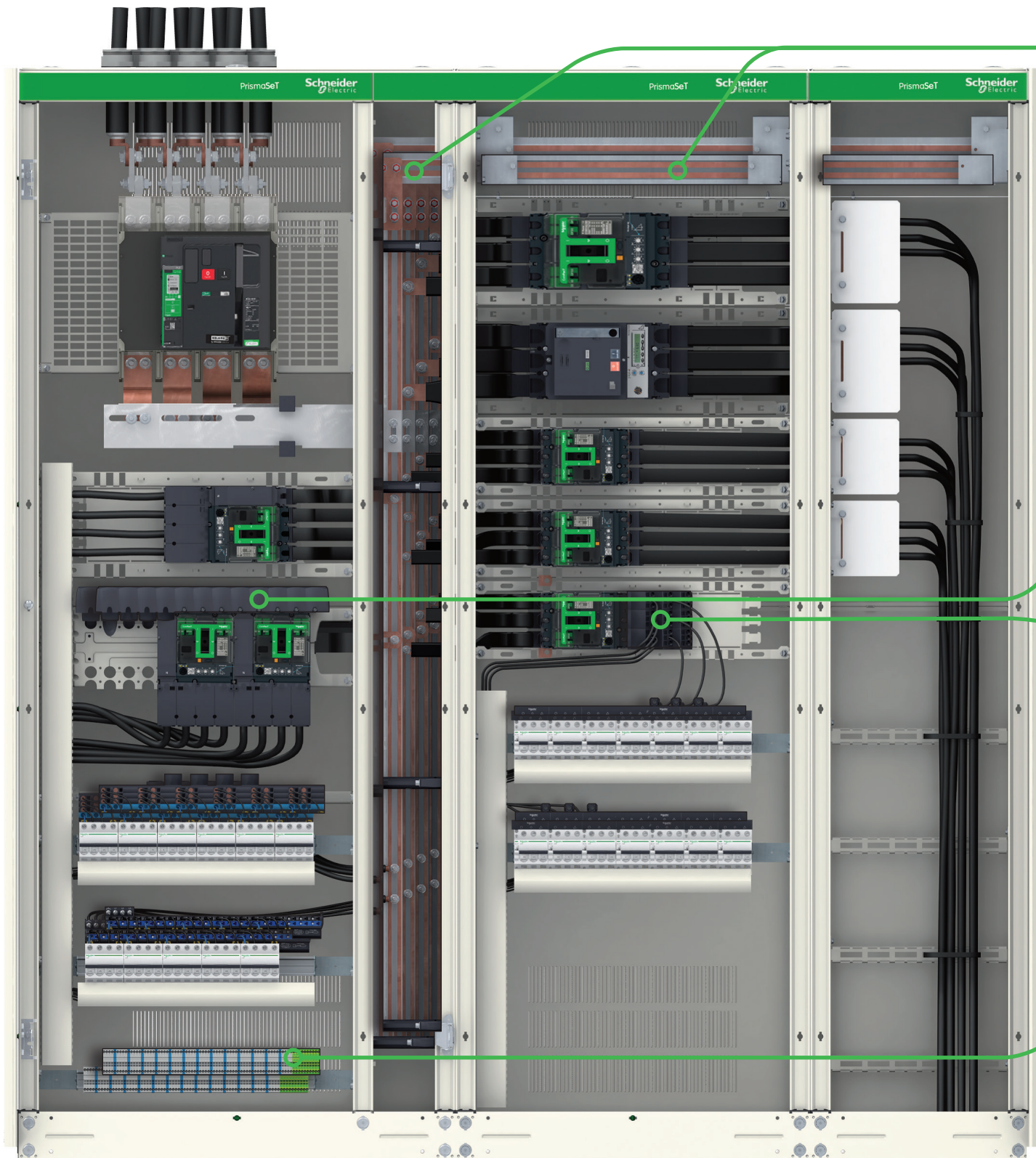


See Linergy HK "Hot plug distribution"

- Quick connections
- Panel easily upgradeable
- Reliable "hot plug" modification or upgrade (LVYED213001EN).



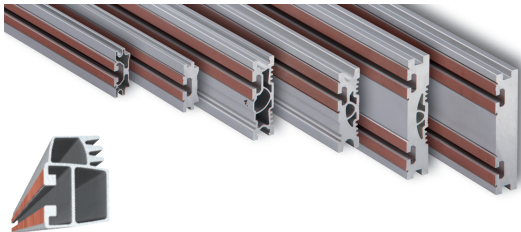
# Linergy offers you smart power network



# solutions for your switchboard.

## Linergy LGY / LGYE / BS

Power busbars

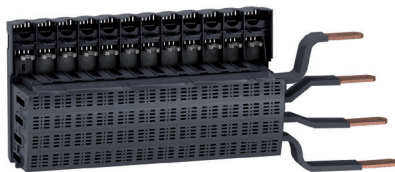


- Solutions available up to 4000 A
- Connection everywhere without drilling (with LGY and LGYE profile)

[page G-2 to G-5](#)

## Linergy FC

Quick distribution blocks

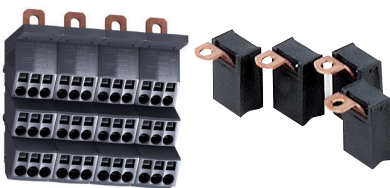


- Compact NSXm (4 x 4P / 5 x 3P) solution
- Compact NSX (3 x 4P / 4 x 3P) solution
- Reliable connection
- Quick connection system dedicated to Compact NSXm up to 160A / Compact NSX up to 250 A

[pages G-16, G-18](#)

## Linergy DP

Distribution blocks

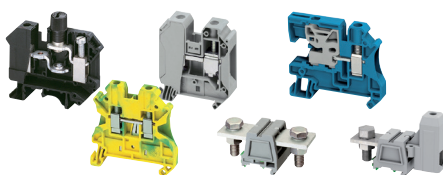


- Simplicity of use
- Quick connection system dedicated to Compact NSXm up to 160A / Compact NSX up to 250 A

[pages G-14, G-15](#)

## Linergy TR

Terminal blocks and bars



- Simplicity of use
- Consistency and cross-functionality guaranteed

[page G-40](#)

# Secure power distribution and monitoring solution for operating theatres

To ensure the safety of patients, the availability and quality of electric power are essential. The electrical installations of operating theatres should enable the continuity of healthcare in all circumstances.



## A solution you can trust...

- All the components of this solution are designed, manufactured, and tested by Schneider Electric to operate together and be implemented by trained and approved partners.
- Schneider Electric provides maintenance plans and operating procedures linked to this solution.
- Schneider Electric ensure the continuity of the components throughout the installation's life.

## ... thanks to secure power distribution...

- The solution Schneider Electric incorporates an isolation transformer and a continuous insulation monitor in compliance with the required standards to ensure the supply of power to medical equipment in the event of a first insulation fault.
- The continuity of the electric power supply is ensured thanks to total coordination of all the Schneider Electric components, including and uninterruptible power supply.
- The Schneider Electric solution is designed, wired and tested to attenuate electromagnetic disturbances in accordance with the IEC 60364-4-41 standard.

## ... to event monitoring and traceability

The Schneider Electric solution incorporates a monitoring system to:

- inform maintenance and medical personnel in real time in the event of an electrical fault in the operating room
- monitor the operating room environment and record all environmental events and data
- provide data to the hospital building management system.



To know more, see the solution guide, ref. DESWED109024.



## Enhancing patient safety

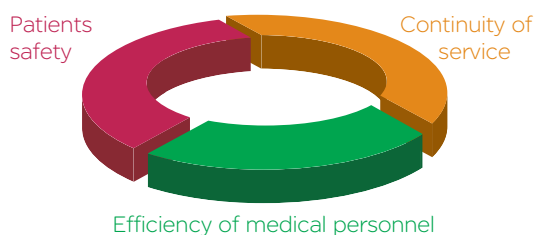
Ensuring the satisfactory operation of operating room is essential for a hospital.

## Ensuring continuity of electrical service

Because nothing must disturb the medical team during operations.

## Improving the efficiency of hospital personnel

A controllable environment and perfectly functioning equipment mean more comfort.





# Green Premium™

Endorsing eco-friendly products in the industry



## Green Premium™ Product

Green Premium is the only label that allows you to effectively develop and promote an environmental policy whilst preserving your business efficiency. This ecolabel guarantees compliance with up-to-date environmental regulations, but it does more than this.

Over 75% of Schneider Electric manufactured products have been awarded the Green Premium ecolabel



Discover what we mean by green ...

**Check your products!**

Schneider Electric's Green Premium ecolabel is committed to offering transparency, by disclosing extensive and reliable information related to the environmental impact of its products:

### RoHS

Schneider Electric products are subject to RoHS requirements at a worldwide level, even for the many products that are not required to comply with the terms of the regulation. Compliance certificates are available for products that fulfil the criteria of this European initiative, which aims to eliminate hazardous substances.

### REACH

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

### PEP: Product Environmental Profile

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

### EoLI: End of Life Instructions

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

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

# Standards and certifications

# Contents

## Standards and tested switchboards

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### Standards

Regional standardization systems	C-2
Standards types	C-3

## Enclosure characteristics

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## Thermal characteristics of switchboards

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### Thermal management of switchboards

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## Specific application

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### PrismaSeT P Seismic

Specific application	C-17
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Installation conditions	C-19

C

# Standards

## Regional standardization systems



## Standards and tested switchboards

### IEC international standards

#### IEC member countries

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

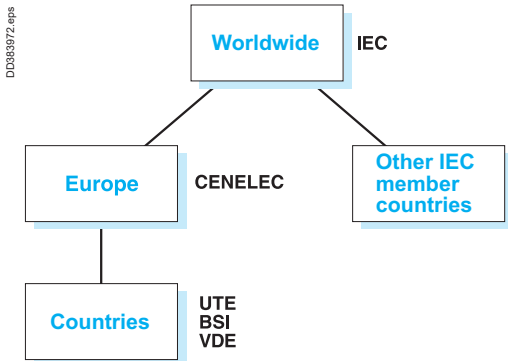
The IEC (International Electrotechnical Commission) is a worldwide organisation for standardisation comprising all national electrotechnical committees (IEC National Committees).

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

To that end, the IEC publishes International Standards.

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

### Local 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

## Standards

## Standards types

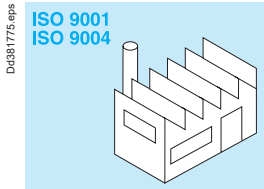


## Standards and tested switchboards

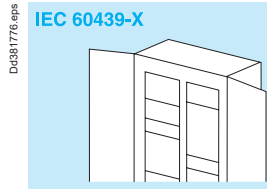
## The different types of standards

There are different types of standards, including:

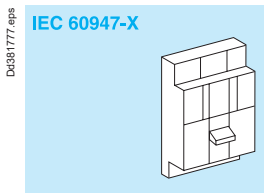
- management standards
- installation standards
- product standards.



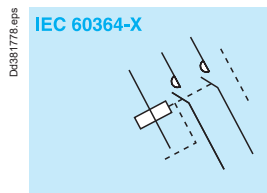
Design and manufacture.



Switchgear and controlgear assemblies.



Switchgear and controlgear.



Installation.

## Management standards

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

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

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

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

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

## Installation standards

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

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

## Product standards

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

■ standards on low-voltage switchgear and controlgear:

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

■ standards on low-voltage switchgear and controlgear assemblies:

- IEC 61439-1: general rules
- IEC 61439-2: power switchgear and controlgear assemblies
- IEC 61439-3: distribution boards
- IEC 61439-4: assemblies for construction sites
- IEC 61439-5: assemblies for power distribution
- IEC 61439-6: busbar trunking systems.

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

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

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



## Standards and tested switchboards

### 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 PrismaSeT P 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 PrismaSeT P 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 PrismaSeT P 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 and tested switchboards

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 a humidity, corrosive vapour, fungus or vermin. The IP code is made up of two characteristic numerals and can include an additional letter when the actual protection for persons against access to the hazardous parts is better than that indicated by the first numeral. The first numeral characterises the protection provided against the ingress of solid foreign objects and the protection of persons. The second numeral characterises the protection provided against the ingress of water with harmful effects.



1 <sup>st</sup> numeral		2 <sup>nd</sup> numeral		
Protection of persons		Protection against ingress of solid objects		
1	Protected against access with back of hand  Ø50 mm	Protection against solid foreign objects larger than 50 mm  Ø50 mm	1	Protected against vertically dripping water (condensation) 
2	Protected against access with a finger  Ø12 mm	Protection against solid foreign objects larger than 12.5 mm  Ø12,5 mm	2	Protected against dripping water up to 15° from vertical  15°
3	Protected against access with a tool  Ø2,5 mm	Protection against solid foreign objects larger than 2.5 mm  Ø2,5 mm	3	Protected against spraying water up to 60° from vertical  60°
4	Protected against access with a wire  Ø1 mm	Protection against solid foreign objects larger than 1 mm  Ø1 mm	4	Protected against splashing water from all directions 
5	Protected against access with a wire  Ø1 mm	Protected against dust (dust protected) 	5	Protected against water jets from all directions 
6	Protected against access with a wire  Ø1 mm	Dust tight 	6	Protected against powerful water jets from all directions 
			7	Protected against the effects of temporary immersion in water 
			8	Protected against the effects of continuous immersion in water 
			9	Protected against close-range high pressure, high temperature spray downs 



Standards and tested switchboards

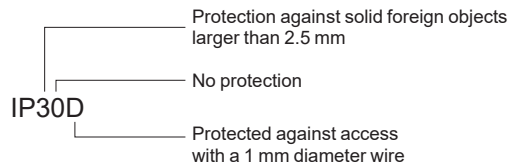
Additional letter

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

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

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

Illustration of the above explanations:



Remarks

- The degree of protection IP must always be read and understood numeral by numeral and not as a whole. For example, an IP31 wall-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 Catalog 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

# Properties of metal enclosures

## Enclosure characteristics

### Anti-corrosion withstand

Schneider Electric enclosures comply with standard IEC 62208, EN 50298 for empty enclosures. The sheet metal used for Schneider Electric enclosures receives an anti-corrosion cathodolysis primer 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 frame

#### Static load on doors, wall-mounted and floor-standing enclosures and cubicles

Cubicle	400 kg
Cubicle door	12 kg

C

### Mechanical properties of powder coated surfaces

#### Test conditions

**Test piece made of 1 mm thick steel sheet, degreased, iron phosphated, final rinsing with 100 kΩ cm DI water, 15 microns of anti-corrosion electrophoresis treatment and 35 microns of powder paint.**

Adhesion (cross-hatch and pull-off)	class 0 required	(ISO 2409)
Impact strength (1)	> 1 kg/50 cm	(ISO 6272)
Mandrel bending test (2)	< 10 mm	(ISO 6860)
Persoz hardness	300 s	(ISO 1522)

(1) No cracking of the paint film after dropping a weight of 1 kg on the test piece from a height of 50 cm.

(2) Film cracks over a length of 10 mm maximum.

### Artificial ageing test on powder coating

#### Test conditions:

#### Two tests carried out on the same 1 mm thick steel sheet test piece.

- cyclical damp-heat test:
  - as per standard IEC 68-2-30
  - six 24-hour cycles at temperatures higher than 40 °C
- continuous resistance to neutral salt mist:
  - the tests were carried out over a period of 400 hours, far more than the 48 hours required by the standard for indoor installations
  - as per standard IEC 68-2-11 and ISO 7253
  - 400 hours without blistering for normal surface on test piece
  - 250 hours for a scratched surface.

#### Evaluation of corrosion as per ISO 4628:

- adhesion: class ≤ 1
  - blistering: degree 1 dim. 1
  - rusting: Ri 1
  - cracking: class 1
  - flaking imp. 1 dim. 1
- propagation of corrosion under scratch with respect to the scratch axis: 3 mm max.

# Properties of metal enclosures

## Enclosure characteristics

### Chemical properties of powder coating

Tests carried out at ambient temperature on phosphated test pieces coated with a 150 to 200 micron film.

Test duration (months)		2	4	6	8	10	12
Acids	Concentration						
	Acetic 20 %						
	Sulphuric 30 %						
	Nitric 30 %						
	Phosphoric 30 %						
	Hydrochloric 30 %						
	Lactic 10 %						
	Citric 10 %						
Bases	Soda 10 %						
	Ammonia 10 %						
Water	Distilled water						
	Seawater						
	Tap water						
	Diluted bleach						
Solvents	Petrol						
	High alcohols						
	Aliphatics						
	Aromatics						
	Ketones, esters						
	Tri-perchloroethylene						

 Film intact.

 Film damaged (blisters, yellowing, loss of shine).

# Thermal management of switchboards

## General

### Thermal characteristics of switchboards

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:

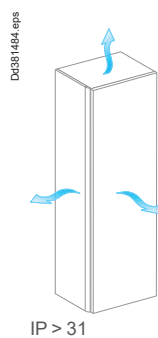
- correctly sizing the switchboard during design
- correcting the temperature using suitable means.

### Management of the internal temperature

#### Cooling

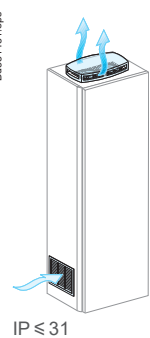
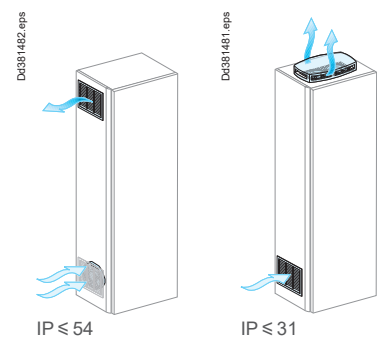
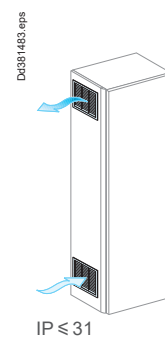
There are a number of way to dissipate heat from the switchboard. The drawings below present the various means.

##### Convection



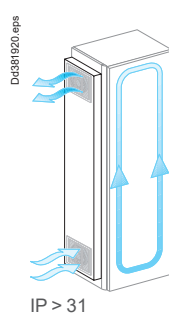
Ensured naturally in PrismaSeT P enclosures.

##### Forced-air ventilation



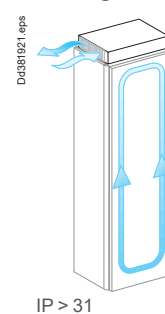
Using fans, it significantly increases the thermal capacity of an enclosure.

##### Forced-air ventilation with air-air exchanger



On special request.

##### Forced convection and cooling



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

#### Heating

The means employed to raise the internal temperature in a switchboard is a resistor-based heater, used to:

- avoid condensation by limiting variations in temperature
- ensure that the switchboard does not freeze.

# Thermal management of switchboards

## General

### Thermal characteristics of switchboards

#### 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.

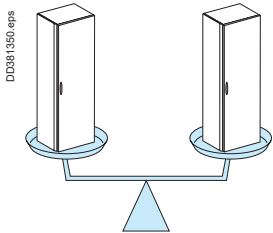
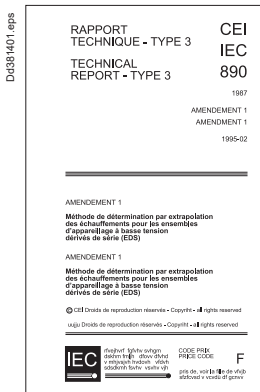
Once the circuit has been correctly sized, it is necessary to check whether the assembly (devices + distribution system + cables) have a level of dissipated power  $P(W) \leq$  the  $P(W)$  that the enclosure can handle.

**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.

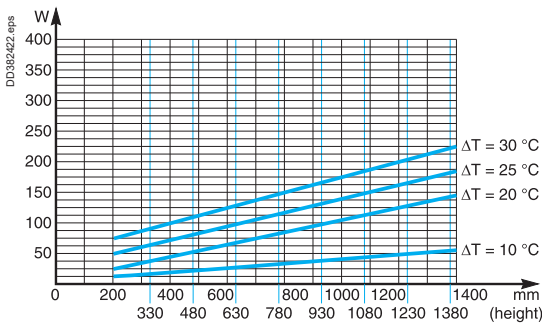
On request, Schneider Electric can carry out a thermal study to check that the installed assembly and the thermal capacity of the enclosure are compatible.



**Comparative method**

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

This is an empirical means to check whether the dissipated power of the desired configuration is close to that of a tested configuration.



**Method using charts taking into account enclosure characteristics**

To speed up calculations, Schneider Electric produces charts based on the company's experience and a number of assumptions on the installation. They can be used sufficiently precisely to determine the variations in temperature and the dissipated-power levels for the different types of wall-mounted enclosures, floor-standing enclosures and cubicles.

For details on the calculation of the dissipated power in the device zone, see page C-12.

# Thermal management of switchboards

## Comparative method

### Thermal characteristics of switchboards

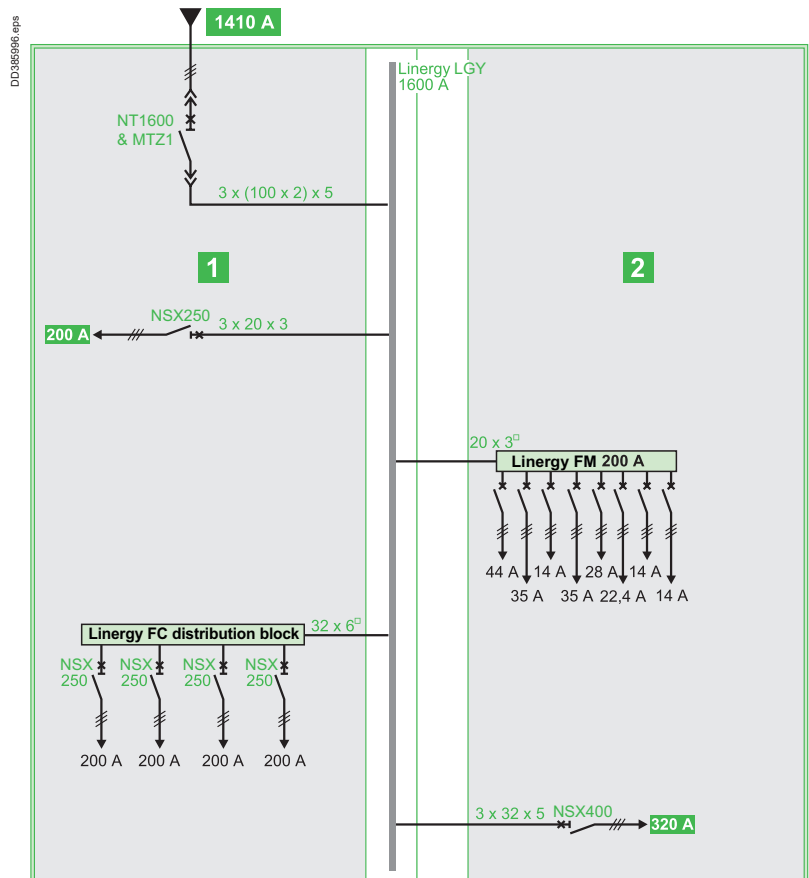
**Two cubicles with busbar compartment, 800 mm wide, 400 mm deep, IP30**

Diversity factor: 0.7 and 0.8

Ambient temperature around the switchboard: 35 °C

Cubicle **1**: P(W) of device zone = 580 W

Cubicle **2**: P(W) of device zone = 180 W



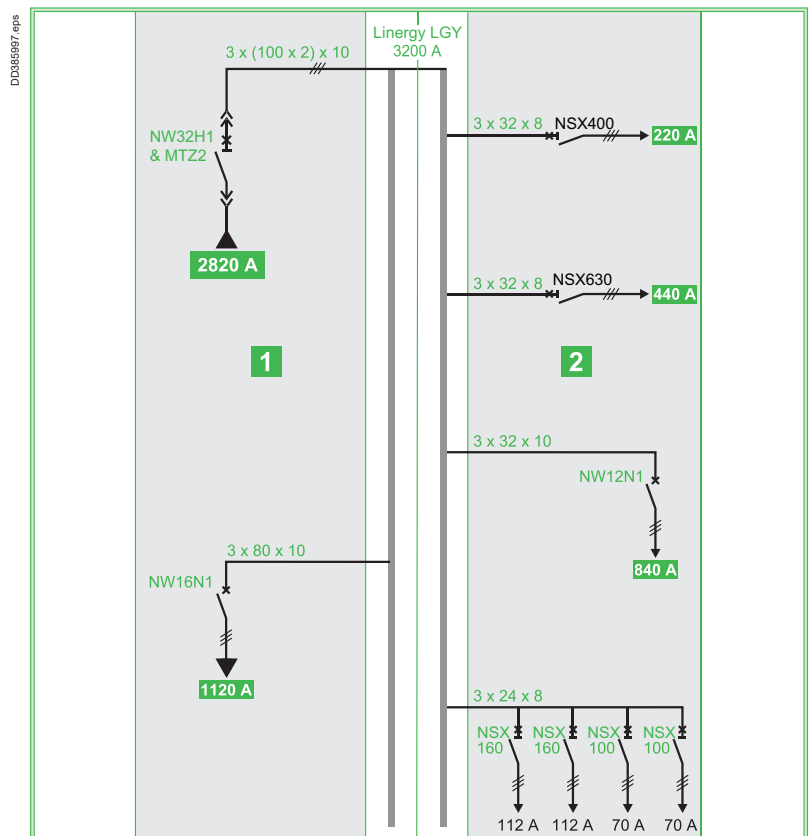
**Two cubicles with busbar compartment, 800 mm wide, 1000 mm deep, two 300 mm wide ducts, IP30**

Diversity factor: 0.7

Ambient temperature around the switchboard: 35 °C

Cubicle **1**: P(W) of device zone = 880 W

Cubicle **2**: P(W) of device zone = 330 W



# Thermal management of switchboards

## Example

### Thermal characteristics of switchboards

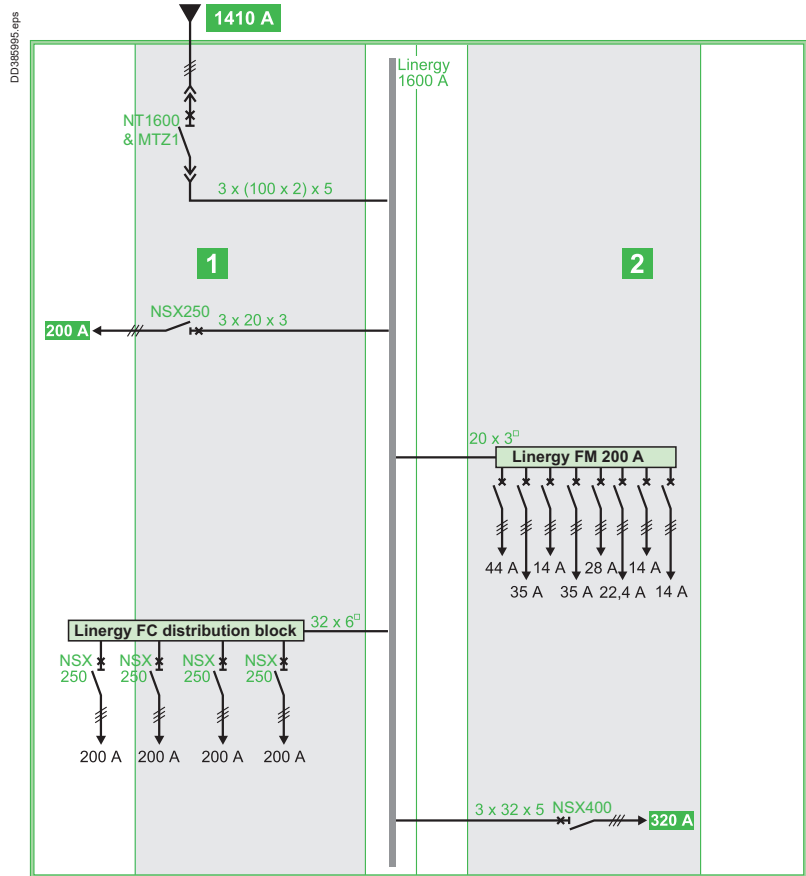
Two cubicles with busbar compartment, 800 mm wide, 1000 mm deep, two 300 mm wide ducts, IP30

Diversity factor: 0.7

Ambient temperature around the switchboard: 35 °C

Cubicle 1: P(W) of device zone = 580 W

Cubicle 2: P(W) of device zone = 180 W



### Application of the diversity factor

In the configuration below, the standardised diversity factor (K div.) for a total of 14 outgoing circuits is 0.6, i.e. 60 % of In for each outgoing circuit. Schneider Electric prefers a more conservative approach and therefore divides the installation into four main circuits:

- Compact NSX250
- 200 A Linery FM: 8 outgoers → K div. = 0.7
- Linery FC: 4 outgoers → K div. = 0.8
- Compact NSX400.

1 Compact NSX250 + 1 Linery FM 200 A + 1 Linery FC + 1 Compact NSX400 → 4 outgoers, i.e. a diversity factor of 0.8.

As a result, the current flowing in each circuit is at least 70 % and up to 80 % of In.

### Calculation of the power dissipated by devices in the incoming cubicle

Dissipated power of the NT1600 & MTZ1 indicated by the manufacturer: 460 W. The power dissipated by the connections is approximately 30 % of the device P(W):  
 $0.3 \times 460 = 138 \text{ W}$ .

Power of circuit breaker + connections = 460 + 138 = 598 W at 1600 A.

For I<sup>2</sup> (the Watts are proportional to the square of the current) at 1410 A (In of the incoming device):

Dissipated power of the Compact NSX250 indicated by the manufacturer: 42 W.

Dissipated power of the connections:  $0.3 \times 42 = 12.6 \text{ W}$ .

Power of circuit breaker + connections = 42 + 12.6 = 54.6 W at 250 A.

For 200 A (the tested value):

$$\frac{54.6}{250^2} \times 200^2 = 35 \text{ W}$$

Dissipated power of the Linery FC and its four Compact NSX250 circuit breakers:

$$4 \times 35 \text{ W (same calculation as above)} = 140 \text{ W}$$

Sum of the dissipated power in the incoming cubicle:

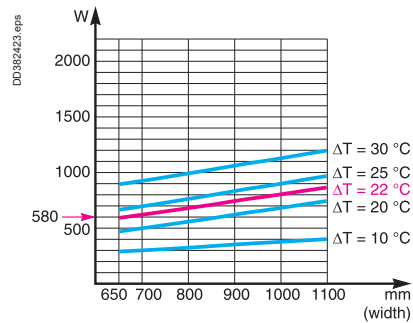
$$P(W) = 405 + 35 + 140 = 580 \text{ W}$$

## Thermal management of switchboards

## Example

## Thermal characteristics of switchboards

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

$$= 35\text{ °C} + 22\text{ °C} = 57\text{ °C}$$

57 °C < 60 °C stipulated by the standard, i.e. the result is acceptable for an IP3 cubicle.

This gives roughly: Internal temperature = 60 °C at mid-height in the enclosure for a low IP value.

Internal temperature = 70 °C at mid-height in the enclosure for a high IP value.

# Thermal management of switchboards

## Charts

### Thermal characteristics of switchboards

Test conditions: the cubicle is on the floor against a wall, the indicated internal heat rise is that measured at mid-height in the enclosure.

For the enclosures not mentioned on the previous pages, use the equation:

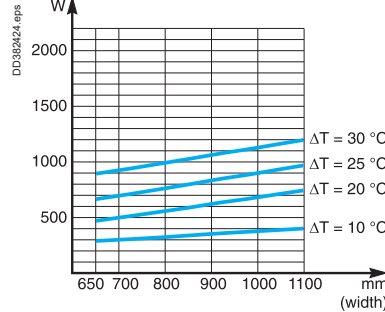
$$\Delta T = \frac{P}{S \times K}$$

- ΔT:** internal temperature - external temperature
- P:** power dissipated by the devices, connections and busbars (in Watts)
- S:** total free surface area of the enclosure (expressed in m<sup>2</sup>)
- K:** thermal-conduction coefficient of the material (W/m<sup>2</sup> °C)

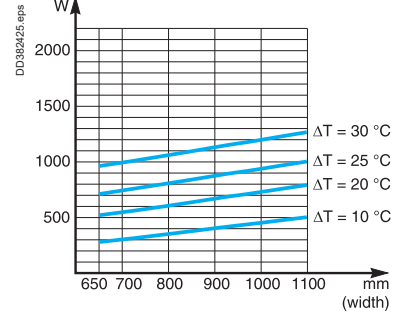
K = 5.5 W/m<sup>2</sup> °C for painted sheet metal.

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

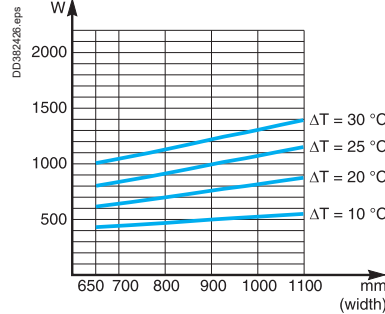
**IP3X cubicle, 400 mm deep**



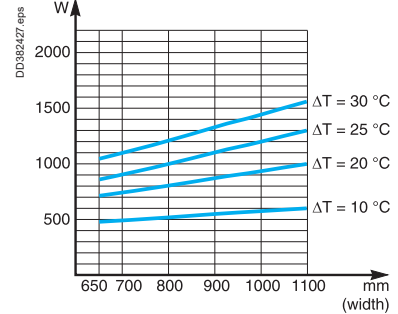
**IP3X cubicle, 600 mm deep**



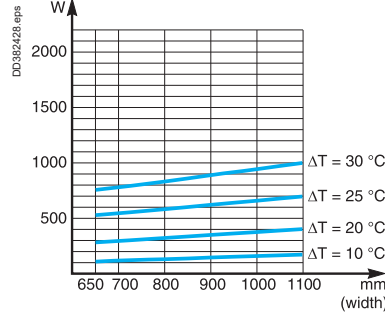
**IP3X cubicle, 800 mm deep**



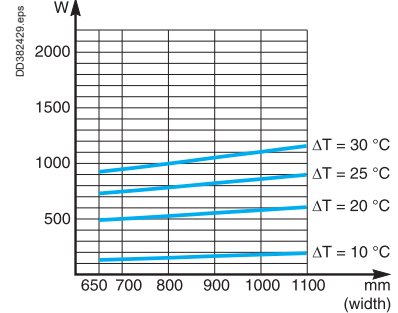
**IP3X cubicle, 1000 mm deep**



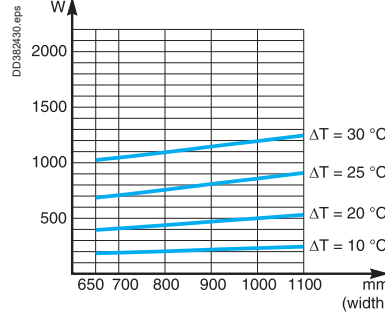
**IP55 cubicle, 400 mm deep**



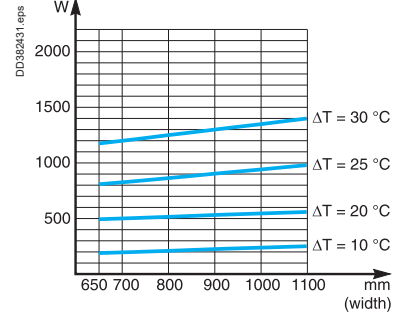
**IP55 cubicle, 600 mm deep**



**IP55 cubicle, 800 mm deep**



**IP55 cubicle, 1000 mm deep**



## Thermal management of switchboards

## Ventilation

## Thermal characteristics of switchboards

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

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

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

$$D = 3.1 \times \left( \frac{P}{\Delta T} - KS \right)$$

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

**Example**

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

The ambient temperature around the cubicle is 50 °C.

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

The exposed surface of the cubicle (non adjacent to a wall or other cubicle) is 4.46 m<sup>2</sup>.

(back = 1.3 m<sup>2</sup>, front = 1.3 m<sup>2</sup>, roof = 0.26 m<sup>2</sup>, side panels = 1.6 m<sup>2</sup>).

What is the necessary throughput of the ventilation system?

The throughput can be calculated as:

$$D = 3.1 \times \left( \frac{1000}{10} - 5.5 \times 4.46 \right)$$

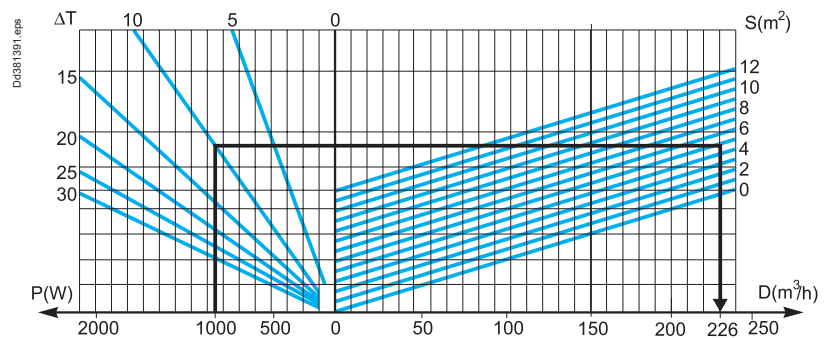
$D = 234 \text{ m}^3/\text{h}$ .

In the range of PrismaSeT P accessories, select a system with a throughput of 300 m<sup>3</sup>/h.

Ref: **LVS08710**

In the duct 150mm & 300mm = no need cross members

In the duct 400mm without devices = no need cross members

**Calculation data**

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

**Pr:** power of the heating resistor (in Watts)

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

**Ti:** average internal temperature (in °C)

**Te:** 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 m<sup>2</sup>)

**K:** thermal-conduction coefficient of the material (W/m<sup>2</sup> °C)

$K = 5.5 \text{ W/m}^2 \text{ °C}$  for painted sheet metal

**D:** ventilation throughput (in m<sup>3</sup>/h)

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

# Thermal management of switchboards

## Heating

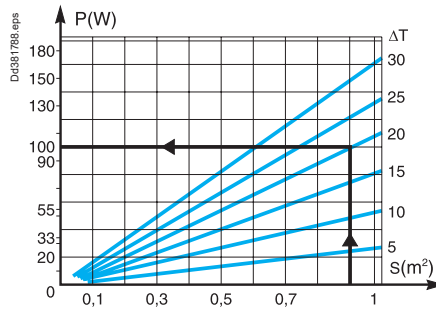
### Thermal characteristics of switchboards

The heating resistor, placed in the bottom of the switchboard, maintains the internal temperature 10 °C higher than the external temperature. When the switchboard is not in operation, the heater compensates the dissipated power normally emitted by the switchboard.

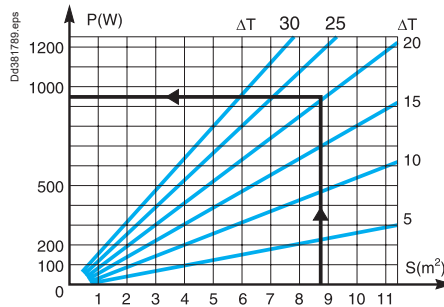
The power of the heating resistor is calculated:

- using the equation:  $P_r = (\Delta T \times S \times K) - P$
- or using the charts below, based on the exposed surface area of the enclosure and the desired difference in temperature.

#### Chart to determine the heating resistor for small wall-mounted enclosures (exposed surfaces ≤ 1 m²)



#### Chart to determine the heating resistor for all types of enclosures and cubicles



#### Calculation data

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

**P<sub>r</sub>:** power of the heating resistor (in Watts)

**T<sub>m</sub>:** maximum internal temperature in the device zone (in °C)

**T<sub>i</sub>:** average internal temperature (in °C)

**T<sub>e</sub>:** average external temperature (in °C)

$$\Delta T_m = T_m - T_e$$

$$\Delta T = T_i - T_e$$

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

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

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

**D:** ventilation throughput (in m³/h).

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

# PrismaSeT P Seismic

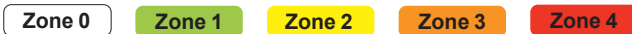
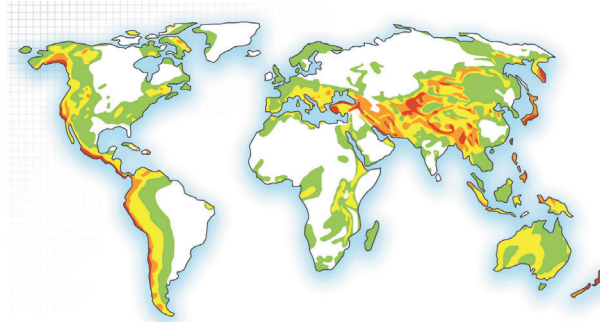
Specific application

Specific application

## 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).



## 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.

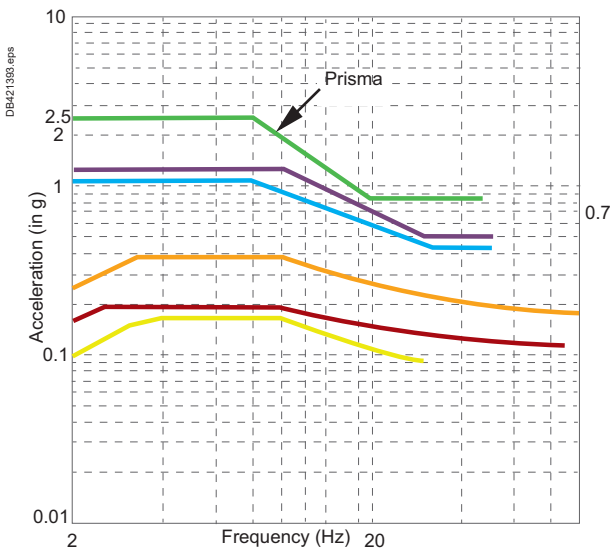
## Classification

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

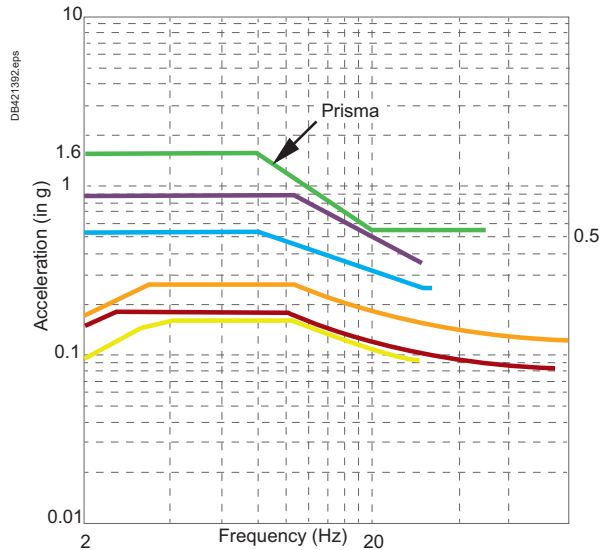
IEC 60068 -3-3 Ground acceleration	Seismic characteristics			
References	General description	Richter scale magnitude	MSK Intensity	UBC Zone
AG2	Intensity from weak to average	< 5.5	< VIII	0 1
AG3	Intensity from average to strong	5.5 to 7.0	VIII to IX	2 3
AG5	Intensity from strong to very strong	> 7.0	> IX	4

PrismaSeT P is compliant up to level AG5 from IEC 60068-3-3 (2.5 g) :

Compare Prisma switchboard performances with seismic standards  
Damping 5% - horizontal



Compare Prisma switchboards performances with seismic standards  
Damping 5% - vertical



Country	Standard	Parameters
PrismaSeT P	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
UBC	1997-AC156	Zone 4 - Ground Level

## PrismaSeT P Seismic

## Seismic kit

Specific application

## Reinforcement

PrismaSeT P seismic cubicles are 2.5 g compliant.

Special parts have been created, specific reinforced side panels and bottom reinforcement brackets.

## Reinforced side panels

Ref: LVS08765

To respect seismic withstand, use side panels in IP55 version (even with an IP30 switchboard).



## Seismic reinforcement brackets

Ref: LVS08710

Foot part to be added in each bottom angle to reinforce the structure.



## Seismic Kit with cross-members

With ducts 150 mm & 300 mm = cross-members not needed

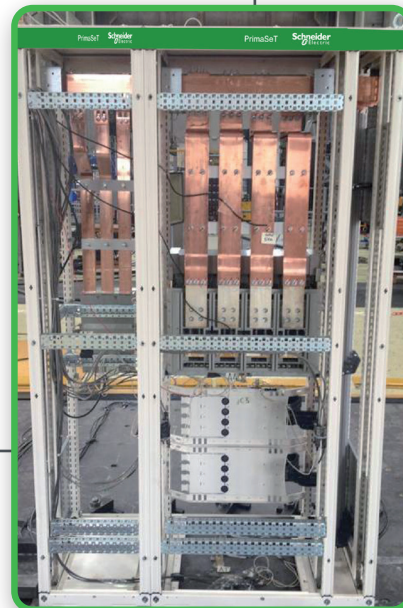
With duct 400 mm without devices = cross-members not needed

## For the cubicles

Ref: LVS03587 x2 or LVS08774 x1

- > 1 cross-member at the top, on the rear upright
- > 1 cross-member in the middle, on the rear upright
- > 2 cross-members at the bottom, on the rear uprights.

**Nota :** Cross-members must be added in a rear compartment in case of depth 1000 mm.



# PrismaSeT P Seismic

## Installation conditions

Specific application

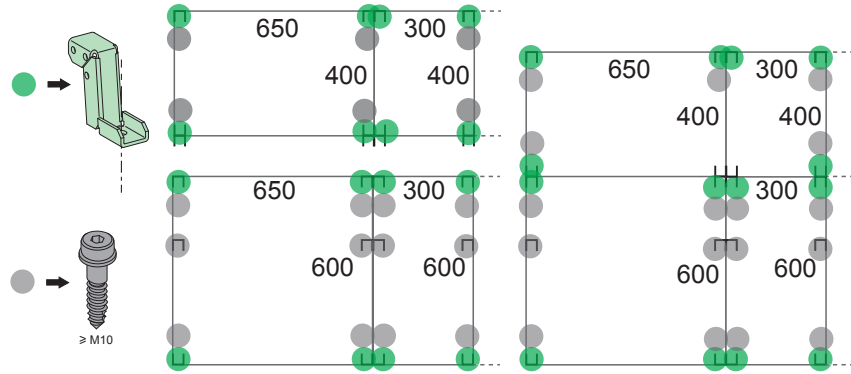
### PrismaSeT P cubicle frames

PrismaSeT P cubicle frames have to be assembled according to the mounting instructions (04696505) and must respect the tightening torque and association screws position. Functional units have to be assembled according to the mounting instructions supplied with each reference.

### Fixing points to ground

Structure fixing points

Customer ground points



Tightening torque = 50 Nm with customer M10 screws

**Nota :** cubicle of the same switchboard must have the same depth  
Refer to QGH13690 leaflet for compliant assembly

### Sizes to respect

Dimensional specifications have to be taken into account for the switchboard sizes and busbar ratings.

#### Switchboard sizes:

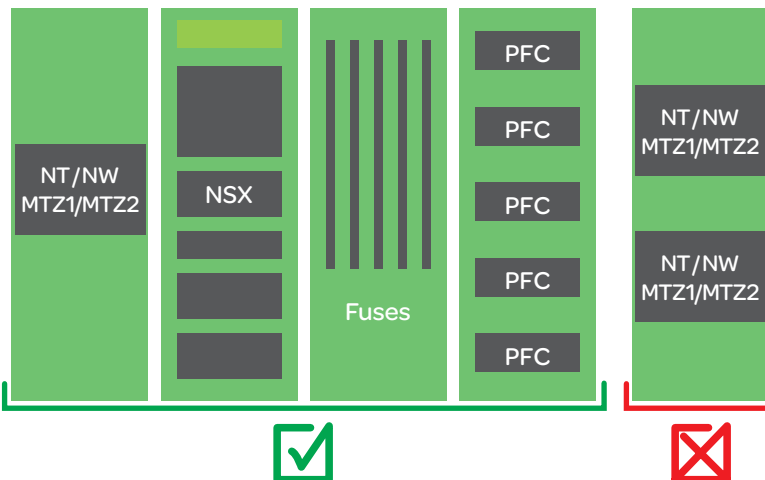
- > Minimum switchboard width (1) = 1200 mm
- > Minimum cubicle depth = 400 mm
- > Height = 2000 mm

**Nota:** Seismic switchboards must not be installed with any plinth.  
(1) Switchboard must be equipped with horizontal busbars

#### Maximum busbar ratings:

	3P	4P
Horizontal Linergy BS	2b 80 x 10	2b 80 x 10
Horizontal Linergy LGYE	LGYE 4000	LGYE 4000

### Devices installation limit



**Nota:** Seismic cubicles not not exceed the unit weight of 350 kg, devices and busbars included.

Yes

- > Cable entry : top/bottom
- > Transparent door
- > IP 30/31
- > IP55

No

- > Connection to busways
- > Plinth 100 mm or 2 x 100 mm

### NOTICE

#### HAZARD OF STRUCTURAL FAILURE

Seismic cubicles must have the same depth. Plinths are not allowed in seismic configurations

**Failure to follow these instructions can result in equipment damage**

# Selection guide

Select a cubicle configuration

---

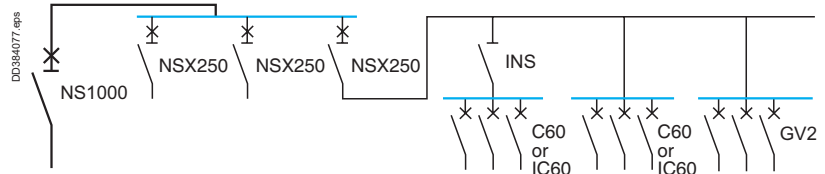
D-2

D

# PrismaSeT P - Selection guide

## Select a cubicle configuration

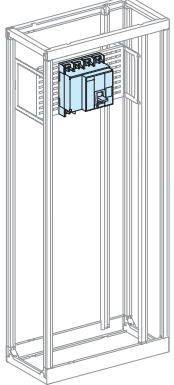
Starting with the electrical diagram:  
IP30 switchboard



E PrismaSeT P Functional units

### Install the incomer

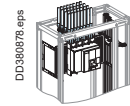
See page E-2



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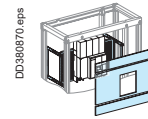
- Order
- connection components
  - mounting plates and front plates
  - busbar connections.

#### 1 Front conn. using cables



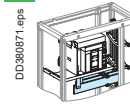
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#### 2 Device installation



DD380870.eps

#### 3 Linergy LGY BB conn.



DD380871.eps

Device	Fixed device
	<b>NS630b/1000</b>   <b>NS1250/1600</b>
Arc chute screen	3P <b>33596</b>
	4P <b>33597</b>
Vertical connection adapters	3P <b>33642</b>
	4P <b>33643</b>
Front connection cover	<b>LVS04851</b>

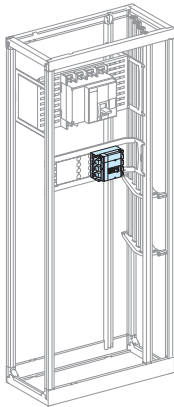
Mounting Device	Front connection with cables	
	Fixed device	
	<b>NS630b/1000</b>	<b>NS1250/1600</b>
Number of devices per row	<b>1</b>	<b>1</b>
No. of vertical modules	<b>12</b>	<b>14</b>
Mounting plates	<b>LVS03482</b>	<b>LVS03482</b>
Front plates	upstream <b>LVS03802</b> [2]	<b>LVS03804</b> [4]
[No. of vertical modules]	with cut-out	<b>LVS03690</b> or <b>LVS03701</b> [7]
	downstream	<b>LVS03803</b> [3]
		<b>LVS03803</b> [3]

Device	Fixed device	
	<b>NS630b/1250</b>	<b>NS1600</b>
Connection type	Front connection delivered with the device	
Busbars connection	For Linergy LGY busbars: prefabricated connection	
	3P <b>LVS04485</b>	<b>LVS04487</b>
	4P <b>LVS04486</b>	<b>LVS04488</b>
Cover for busbars connection	<b>LVS04926</b>	
Linergy LGY, LGYE, BS		

E PrismaSeT P Functional units

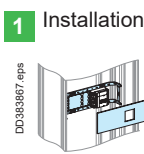
### Install the Compact devices

See page E-20



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- Order
- mounting plates and front plates
  - busbar connections
  - connection accessories.



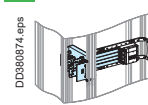
DD380857.eps

#### 2 Linergy LGY BB conn.



DD380873.eps

#### 3 Connection



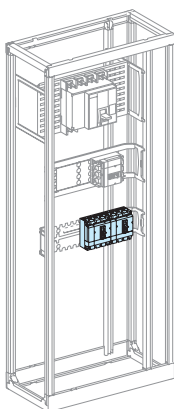
DD380874.eps

Device	Toggle	
	<b>NSX100/250, Vigi NSX100/250</b>	
	3P	4P
Number of device per row	<b>1</b>	<b>1</b>
No. of vertical modules	<b>3</b>	<b>4</b>
Mounting plates	<b>LVS03411</b>	<b>LVS03412</b>
Front plates	with cut-out <b>LVS03604</b> [3]	<b>LVS03606</b> [4]
[No. of vertical modules]		

Device	Linergy LGY Toggle	
	<b>NSX100/250, Vigi NSX100/250</b>	
	3P	4P
Prefabricated connection	<b>LVS04423</b>	<b>LVS04424</b>

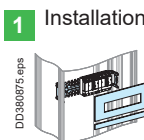
Device	Toggle		
	<b>NSX100/160</b>	<b>Vigi NSX100/160</b>	<b>NSX250</b>
			<b>Vigi NSX250</b>
Number of device per row	<b>3/4</b>	<b>3/4</b>	<b>3/4</b>
No. of vertical modules	<b>6</b>	<b>8</b>	<b>7</b>
Mounting plates	<b>LVS03420</b>	<b>LVS03420</b>	<b>LVS03420</b>
Front plates	with cut-out <b>LVS03243</b> [5]	<b>LVS03241</b> [7]	<b>LVS03243</b> [5]
[No. of vertical modules]	downstream	<b>LVS03801</b> [1]	<b>LVS03802</b> [2]
		<b>LVS03801</b> [1]	<b>LVS03801</b> [1]

E PrismaSeT P Functional units



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- Order
- mounting plates and front plates
  - distribution block
  - connection accessories.



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#### 2 Linergy LGY BB conn.



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#### 3 Connection



DD380877.eps

Device	Toggle			
	<b>NSX100/160</b>	<b>Vigi NSX100/160</b>	<b>NSX250</b>	<b>Vigi NSX250</b>
Number of device per row	<b>3/4</b>	<b>3/4</b>	<b>3/4</b>	<b>3/4</b>
No. of vertical modules	<b>6</b>	<b>8</b>	<b>7</b>	<b>9</b>
Mounting plates	<b>LVS03420</b>	<b>LVS03420</b>	<b>LVS03420</b>	<b>LVS03420</b>
Front plates	with cut-out <b>LVS03243</b> [5]	<b>LVS03241</b> [7]	<b>LVS03243</b> [5]	<b>LVS03241</b> [7]
[No. of vertical modules]	downstream	<b>LVS03801</b> [1]	<b>LVS03801</b> [1]	<b>LVS03802</b> [2]
		<b>LVS03801</b> [1]	<b>LVS03801</b> [1]	<b>LVS03802</b> [2]

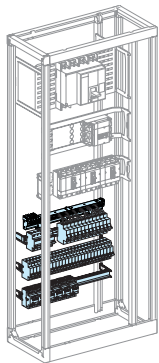
Device	Linergy LGY Toggle			
	<b>NSX100/160, Vigi NSX100/160</b>	<b>NSX250, Vigi NSX250</b>		
	3P	4P	3P	4P
Number of devices	<b>4</b>	<b>3</b>	<b>4</b>	<b>3</b>
Linergy FC distribution blocks (with connection)	<b>LVS04403</b>	<b>LVS04404</b>	<b>LVS04403</b>	<b>LVS04404</b>

Device	Toggle			
	<b>NSX100/160, Vigi NSX100/160</b>	<b>NSX250, Vigi NSX250</b>		
	3P	4P	3P	4P
Front connection long terminal shields	<b>LV429517</b>	<b>LV429518</b>	<b>LV429517</b>	<b>LV429518</b>
Rear connection short terminal shields	<b>LV429515</b>	<b>LV429516</b>	<b>LV429515</b>	<b>LV429516</b>

# PrismaSeT P - Selection guide

## Select a cubicle configuration

### Install the modular devices



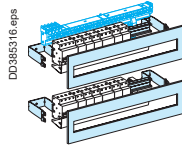
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Order the mounting plates and front plates taking into account:

- supply to the rows
- cable running.

#### 1 Acti 9

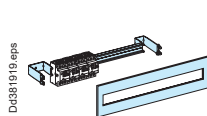
See page E-63



DD385316.eps

#### 2 GV2 circuit breaker

See page E-62



DD381918.eps

Device	All modular devices	Modular devices ≤ 40 A
Rail length (modules of 9 mm)	48	48
No. of vertical modules	4	3
Rail (48 modules of 9 mm)	LVS03401	LVS03401
Modular front plates	LVS03204 [4]	LVS03203 [3]
Blanking plate strip	LVS03220	LVS03220
divisible	LVS03221	LVS03221

Device	Circuit breaker	GV3
No. of vertical modules	GV2RT - GV2ME - GV2LE	5
Useful length of rail (mm)	432	
Modular rail (adjustable)	LVS03401	LVS03402
Front plates with cut-out	LVS03203 [3]	LVS03205 [5]
[No. of vert mod]		

Linery FH comb busbar see page G-28 to G-33  
Cable running see page F-27

### Determine the size of the switchboard

- count the number of modules occupied
- determine the number of cubicles
- order the additional plain front plate.

**32 modules**

**1 cubicle**

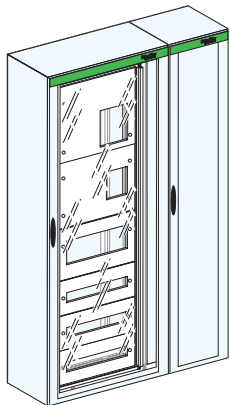
Plain front plate  
See page F-23

The capacity of a cubicle is 36 modules.

Device	Plain front plate W = 500 mm					
	H = 50 mm	H = 100 mm	H = 150 mm	H = 200 mm	H = 250 mm	H = 300 mm
[No. of vert mod]	[1]	[2]	[3]	[4]	[5]	[6]
Cat. no	LVS03801	LVS03802	LVS03803	LVS03804	LVS03805	LVS03806

### Select the enclosures

See page F-1



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#### 1 Frameworks

#### 2 Hinged front plate support frame

#### 3 Doors

#### 4 Rear panels

#### 5 Side panels

#### 6 Roofs

#### 7 Plinth, gland plates, finishing parts, etc.

Device	300	400	650	800	800 (650 + 150)
Base frame					
Cat. no	LVS08403	LVS08404	LVS08406	LVS08408	LVS08407

Device	400	650
Hinged front plate support frame		
Cat. no	LVS08564	LVS08566

Device	W = 300	W = 400	W = 650	W = 800
Plain door	LVS08513	LVS08514	LVS08516	LVS08518
Transparent door	-	LVS08534	LVS08536	LVS08538

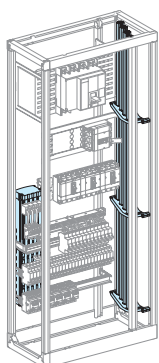
Dimensions	W = 300 mm	W = 400 mm	W = 650 mm	W = 800 mm
Rear panels	LVS08733	LVS08734	LVS08736	LVS08738

Dimensions	D = 400 mm		D = 600 mm	
Side panels	LVS08750		LVS08760	

Dimensions	W = 300 mm	W = 400 mm	W = 650 mm	W = 800 mm
Plain roof	LVS08433	LVS08434	LVS08436	LVS08438
D = 400 mm				
Plain roof	LVS08633	LVS08634	LVS08636	LVS08638
D = 600 mm				

### Plan the distribution system

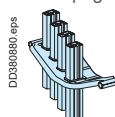
See page G-1



DD385317.eps

#### Linergy LGY busbars

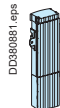
##### 1 See page G-4



DD380890.eps

#### Linergy BW busbars

##### 2



DD380881.eps

Intensity (A)	Linergy LGY profiles for table	Number of busbars supports								
		I <sub>cw</sub> (kA rms/1s)								
	IP ≤ 31	IP > 31	25	30	40	50	60	65	75	85
630	LVS04502	LVS04503	3							
800	LVS04503	LVS04504								
1000	LVS04504									

Designation C	at. No.
Busbar support	LVS04851

Linergy BW busbars	160 A	250 A	400 A	630 A
3P	W = 1000 mm LVS04111	LVS04112	LVS04113	LVS04114
	W = 1400 mm LVS04116	LVS04117	LVS04118	LVS04119
4P	W = 1000 mm LVS04121	LVS04122	LVS04123	LVS04124
	W = 1400 mm LVS04126	LVS04127	LVS04128	LVS04129

# PrismaSeT P

## Functional units

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## Others

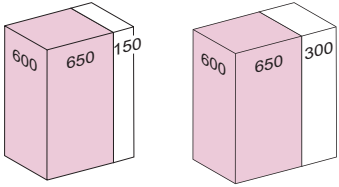
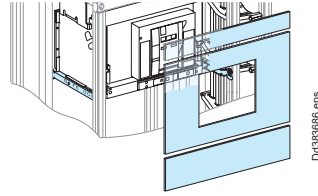
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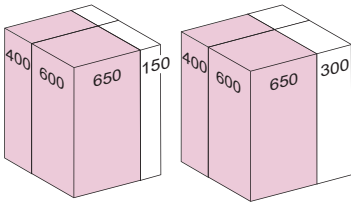
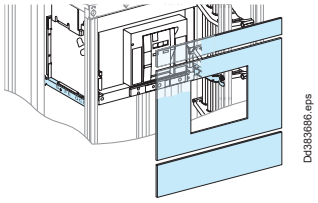
# MasterPact MTZ2 08 to 32


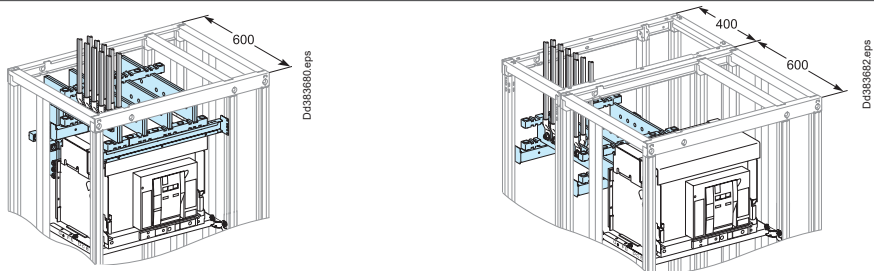
## Cables connection

Fixed, withdrawable

Circuit breakers

Mounting		Front connection			
					
Devices		Fixed device		Withdrawable device	
		MTZ2 08/16	MTZ2 20/32	MTZ2 08/16	MTZ2 20/32
Number of devices per row		1	1	1	1
No. of vertical modules (1)		18	19	19	20
Mounting plates		LVS03500	LVS03500	LVS03500	LVS03500
Front plates [No. of vertical modules]	upstream	LVS03804 [4]	LVS03805 [5]	LVS03804 [4]	LVS03805 [5]
	with cut-out	LVS03711 [9]	LVS03711 [9]	LVS03710 [10]	LVS03710 [10]
	downstream	LVS03805 [5]	LVS03805 [5]	LVS03805 [5]	LVS03805 [5]

Mounting		Rear connection			
					
Devices		Fixed device		Withdrawable device	
		MTZ2 08/16	MTZ2 20/32	MTZ2 08/16	MTZ2 20/32
Number of devices per row		1	1	1	1
No. of vertical modules		14	14	15	15
Mounting plates		LVS03500	LVS03500	LVS03500	LVS03500
Front plates [No. of vertical modules]	with cut-out	LVS03711 [9]	LVS03711 [9]	LVS03710 [10]	LVS03710 [10]
	downstream	LVS03805 [5]	LVS03805 [5]	LVS03805 [5]	LVS03805 [5]

Connection		Upstream on incomer	
			
Devices		Fixed device	Withdrawable device
		MTZ2 08/32	MTZ2 08/32
Type of terminals	Vertical rear connections supplied with the device		
Connection	must be made (2)		
Front connection	bar supports	2 x LVS04694 + LVS04678	
	cables cover	LVS04861	
Rear connection	bar supports	2 x LVS04694	
	cables cover	LVS04863	

(1) For downstream connection with copper.

For downstream prefabricated connection with Linergy LGYE, 1 additional module is required only for MTZ2 3200A. Select downstream plain front plate (LVS03806).


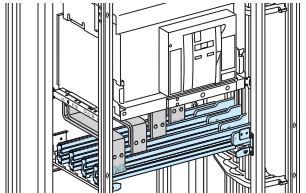
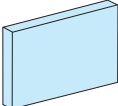

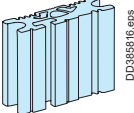
(2) Connection to be made according to the busbar drawings supplied by Schneider Electric.

# MasterPact MTZ2 08 to 32

## Cables connection

Fixed, withdrawable

Circuit breakers

Distribution		Downstream on Linergy LGY, LGYE or BS busbars					
							
<b>Devices</b>		<b>Fixed and withdrawable</b> <b>MTZ2 08/16</b>		<b>Fixed and withdrawable</b> <b>MTZ2 20/25</b>		<b>Fixed and withdrawable</b> <b>MTZ2 32</b>	
		<b>3P</b>	<b>4P</b>	<b>3P</b>	<b>4P</b>	<b>3P</b>	<b>4P</b>
Type of terminals		Front connections supplied with the device.					
For vertical busbar Linergy BS 	Connection	Must be made according to the busbar drawings supplied by Schneider Electric.					
	Joint	-	-	Order one joint per phase: 1 joint for busbars, W = 50/60 mm ( <b>LVS04640</b> ), 1 joint for busbars, W = 80/100 mm ( <b>LVS04641</b> ).			
	Free support	2 x <b>LVS04662</b> For I <sub>cw</sub> ≥ 75 kA rms, add an additional free support <b>LVS04662</b> .					
	Cover	<b>LVS04926 + LVS04927</b>					
For vertical busbar Linergy LGY 	Connection	<b>LVS04493</b>	<b>LVS04494</b>	must be made according to the busbar drawings supplied by Schneider Electric.			
	Joint	<b>LVS04683</b>	<b>LVS04684</b>	-			
	Free support	-	-	2 x <b>LVS04662</b> For I <sub>cw</sub> ≥ 75 kA rms, add an additional free support <b>LVS04662</b> .			
	Cover	<b>LVS04925 + LVS04928</b>		<b>LVS04926 + LVS04927</b>			
For vertical busbar Linergy LGYE (1) 	Connection	-	-	<b>LVS04495</b>	<b>LVS04496</b>	<b>LVS04497 (2)</b>	<b>LVS04498 (2)</b>
	Joint	-	-	3 x <b>LVS04685</b>	4 x <b>LVS04685</b>	3 x <b>LVS04687</b>	4 x <b>LVS04687</b>
	Cover	<b>LVS04925 + LVS04928</b>					

- (1) For LGYE 08/25, use a duct W = 150 mm. For LGYE 32/40, use a duct W = 300 mm.
- (2) One additional module is required, select **LVS03806** plain front plate for downstream.

**Note:** to make measurements:

Install the CTs preferably upstream, on the supply terminal extension bars or install the CTs on the horizontal busbars (busbar connection). In this case, add one module and a plain front plate (**LVS03801**) or install a Micrologic control unit capable of displaying the values.

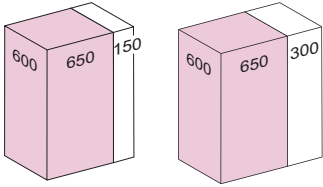
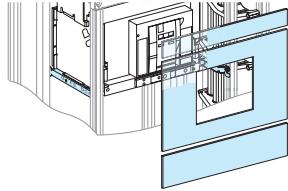
Selection of busbars: Linergy LGY > page G-4, Linergy LGYE > page G-5, Linergy BS > page G-6.

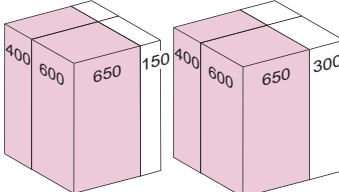
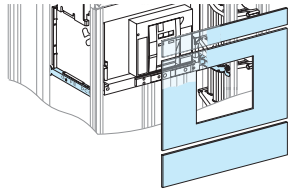
# MasterPact MTZ2 08 to 32


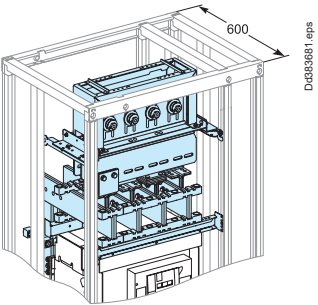
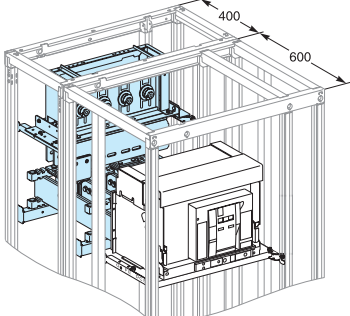
Canalis connection

Fixed, withdrawable

Circuit breakers

Mounting		Front connection			
					
Devices		Fixed device		Withdrawable device	
		MTZ2 08/16	MTZ2 20/32	MTZ2 08/16	MTZ2 20/32
Number of devices per row		1	1	1	1
No. of vertical modules (1)		27	28	27	28
Mounting plates		LVS03500	LVS03500	LVS03500	LVS03500
Front plates [No. of vertical modules]	upstream	LVS03805 [5] 2 x LVS03804 [8]	2 x LVS03805 [10] LVS03804 [4]	3 x LVS03804 [12]	LVS03805 [5] 2 x LVS03804 [8]
	with cut-out	LVS03711 [9]	LVS03711 [9]	LVS03710 [10]	LVS03710 [10]
	downstream	LVS03805 [5]	LVS03805 [5]	LVS03805 [5]	LVS03805 [5]

Mounting		Rear connection			
					
Devices		Fixed device		Withdrawable device	
		MTZ2 08/16	MTZ2 20/32	MTZ2 08/16	MTZ2 20/32
Number of devices per row		1	1	1	1
No. of vertical modules		16	16	17	17
Mounting plates		LVS03500	LVS03500	LVS03500	LVS03500
Front plates [No. of vertical modules]	upstream	LVS03804 [4] + LVS03803 [3]	LVS03804 [4] + LVS03803 [3]	LVS03804 [4] + LVS03803 [3]	LVS03804 [4] + LVS03803 [3]
	with cut-out	LVS03711 [9]	LVS03711 [9]	LVS03710 [10]	LVS03710 [10]

Connection		Upstream on incomer											
													
Devices		Fixed device			Withdrawable device								
		MTZ2 08/16	MTZ2 20/25	MTZ2 32	MTZ2 08/16	MTZ2 20/25	MTZ2 32	MTZ2 08/16	MTZ2 20/25	MTZ2 32	MTZ2 32		
Type of terminals		Vertical rear connections supplied with the device											
Canalis support		LVS03561											
Canalis interface (2)		3P	4P	3P	4P	3P	4P	3P	4P	3P	4P		
		LVS04715	LVS04716	LVS04725	LVS04726	LVS04735	LVS04736	LVS04715	LVS04716	LVS04725	LVS04726	LVS04735	LVS04736
Front connection	Bar supports	2 x LVS04694 + LVS04678											
	Extension bars	must be made (3)											
	Canalis Cover	LVS04871 + LVS04861											
Rear connection	Bar supports	2 x LVS04694											
	Extension bars	must be made (3)											
	Canalis Cover	LVS04871 + LVS04863											

(1) For downstream connection with copper.

(2) For downstream prefabricated connection with Linergy LGYE, 1 additional module is required only for MTZ2 3200A. Select downstream plain front plate (LVS03806).

(3) To tight the screws of the Canalis interface use the special tool 87808.


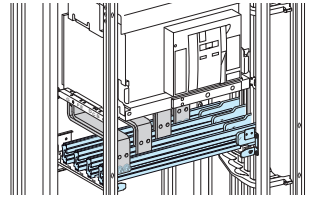
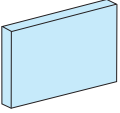

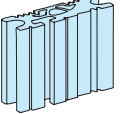
(3) Connection to be made according to the busbar drawings supplied by Schneider Electric.

## MasterPact MTZ2 08 to 32

Canalis connection

Fixed, withdrawable

Circuit breakers

Distribution		Downstream on Linergy LGY, LGYE or BS busbars					
							
<b>Fixed / withdrawable devices</b>		<b>MTZ2 08/16</b>		<b>MTZ2 20/25</b>		<b>MTZ2 32</b>	
		<b>3P</b>	<b>4P</b>	<b>3P</b>	<b>4P</b>	<b>3P</b>	<b>4P</b>
Type of terminals		Front connections supplied with the device.					
	For vertical busbar Linergy BS	Must be made according to the busbar drawings supplied by Schneider Electric.					
	Connection	Must be made according to the busbar drawings supplied by Schneider Electric.					
	Joint	-	-	Order one joint per phase: 1 joint for busbars, W = 50/60 mm ( <b>LVS04640</b> ), 1 joint for busbars, W = 80/100 mm ( <b>LVS04641</b> ).			
	Free support	2 x <b>LVS04662</b> For I <sub>cw</sub> ≥ 75 kA rms, add an additional free support <b>LVS04662</b> .					
	Cover	<b>LVS04926 + LVS04927</b>					
	For vertical busbar Linergy LGY	must be made according to the busbar drawings supplied by Schneider Electric.					
	Connection	<b>LVS04493</b>	<b>LVS04494</b>				
	Joint	<b>LVS04683</b>	<b>LVS04684</b>	-			
	Free support	-	-	2 x <b>LVS04662</b> For I <sub>cw</sub> ≥ 75 kA rms, add an additional free support <b>LVS04662</b> .			
	Cover	<b>LVS04925 + LVS04928</b>		<b>LVS04926 + LVS04927</b>			
	For vertical busbar Linergy LGYE (1)						
	Connection	-	-	<b>LVS04495</b>	<b>LVS04496</b>	<b>LVS04497 (2)</b>	<b>LVS04498 (2)</b>
	Joint	-	-	3 x <b>LVS04685</b>	4 x <b>LVS04685</b>	3 x <b>LVS04687</b>	4 x <b>LVS04687</b>
	Cover	<b>LVS04925 + LVS04928</b>					

(1) For LGYE 08/25, use a duct W = 150 mm. For LGYE 32/40, use a duct W = 300 mm.

(2) One additional module is required, select **LVS03806** plain front plate for downstream.**Note:** to make measurements:Install the CTs preferably upstream, on the supply terminal extension bars or install the CTs on the horizontal busbars (busbar connection). In this case, add one module and a plain front plate (**LVS03801**) or install a Micrologic control unit capable of displaying the values.

Selection of busbars: Linergy LGY &gt; page G-4, Linergy LGYE &gt; page G-5, Linergy BS &gt; page G-6.

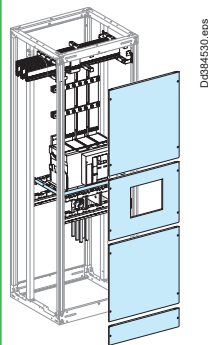
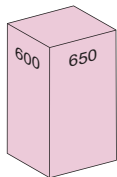
# MasterPact MTZ2 08 to 40

Dedicated cubicle - W = 650 mm

Fixed, withdrawable

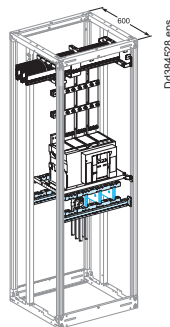
Circuit breakers



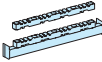
## Mounting Dedicated cubicle



Devices	Fixed device		Withdrawable device	
	MTZ2 08/32	MTZ2 40 (2)	MTZ2 08/32	MTZ2 40 (2)
Number of devices per row	1	(2)	1	(2)
No. of vertical modules	36	(2)	36	(2)
Mounting plates	LVS03500	(2)	LVS03500	(2)
Front plates [No. of vertical modules]	upstream (1)	LVS03808 [12]	LVS03808 [12]	(2)
	with cut-out	LVS03711 [9]	LVS03710 [10]	(2)
	downstream	LVS03808 [12] + LVS03803 [3]	(2)	LVS03808 [12] + LVS03802 [2]

## Connection Upstream with bottom cables



Fixed / withdrawable devices	MTZ2 08/32	MTZ2 40 (2)
Type of terminals 	Vertical rear connectors	(2)
Terminal extension bars for connection 	must be made (3)	(2)
Terminal extension bar supports 	LVS04694 x 2	(2)
Cables cover	LVS04861	(2)

(1) One or two 3-module front plates for 72 x 72 and 96 x 96 mm measurement devices can be installed just above the cut-out front plate:

■ 2 3-module front plates + 1 plain front plate LVS03806 (6 modules)

(2) Contact Schneider Electric for 4000 A dedicated cubicle.

(3) Connection to be made according to the busbar drawings supplied by Schneider Electric.


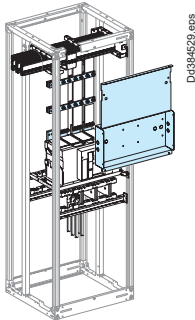
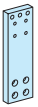
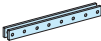

Human-switchboard interface > page E-66.

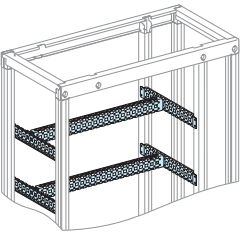
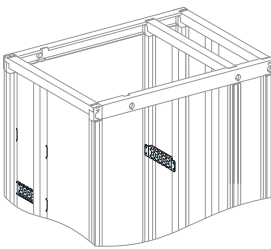
# MasterPact MTZ2 08 to 40

Dedicated cubicle - W = 650 mm

Fixed, withdrawable

Circuit breakers

Distribution	Downstream up links on horizontal busbars						
	Linergy LGYE				Linergy BS		
							
<b>Fixed / withdrawable devices</b>	<b>MTZ2 08/16</b>	<b>MTZ2 20/25</b>	<b>MTZ2 32</b>	<b>MTZ2 40 (1)</b>	<b>MTZ2 08/25</b>	<b>MTZ2 32</b>	<b>MTZ2 40 (1)</b>
Type of terminals 	Front connection				Front connection		
Spacing rods for flat bars 	LVS04690 x 2	LVS04690 x 2	LVS04690 x 2	-	LVS04690 x 2	LVS04690 x 2	-
Connection horizontal 3200 A mounting hardware	Connection must be made (2)				Connection must be made (2)		
	-				LVS04637 (3)	LVS04637 (3)	-
Busbar cover (4) 	LVS04860	LVS04860	LVS04860	-	LVS04860	LVS04860	-

Accessories	
	
	
	<b>Cross-members</b>
Catalog number	<b>LVS03584</b>
Characteristics	Set of 2 For 650 mm wide and 400 mm deep cubicle
	<b>LVS03586</b>
	Set of 2 W = 200 mm, can be added to the 400 mm cross-members for frameworks that are 600 mm deep. They can also be installed separately

- (1) Contact Schneider Electric for 4000 A dedicated cubicle.
- (2) Connection to be made according to the busbar drawings supplied by Schneider Electric.
- (3) Catalog number LVS04637 includes 1 connection only. Order 1 connection per phase.
- (4) The cover is compulsory behind front plates designed for measurement devices.

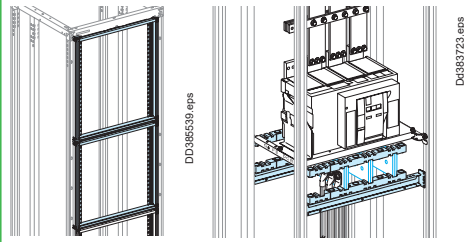
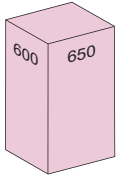
# MasterPact MTZ2 08 to 32

## Partial front plate support frames

### Withdrawable

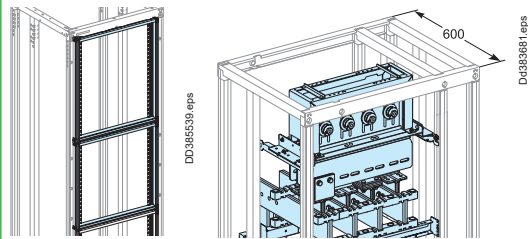
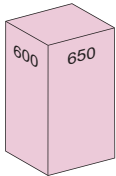
Circuit breakers

#### Mounting Front connection with cables in dedicated cubicle



<b>Devices</b>	<b>Withdrawable device</b>	
	<b>MTZ2 08/32</b>	
No. of vertical modules	<b>36 (3)</b>	
Mounting plates	<b>LVS03500</b>	
Front plates [No. of vertical modules]	upstream	<b>2 x LVS03806 [12]</b>
	with cut-out	<b>LVS03709 [10]</b>
	downstream	<b>2 x LVS03806 [12]</b>
1/3 front plate support frame	<b>LVS08560 (1) + 2 x LVS08562 (2)</b>	
Cover	<b>LVS04861</b>	

#### Mounting Canalis front connection



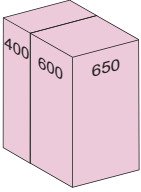
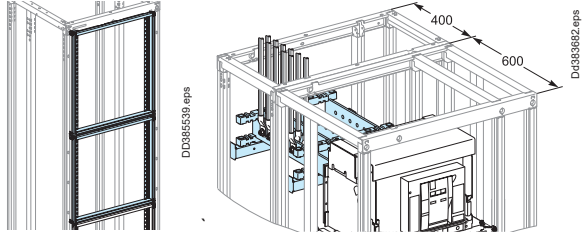
<b>Devices</b>	<b>Withdrawable device</b>	
	<b>MTZ2 08/16</b>	<b>MTZ2 20/32</b>
No. of vertical modules	<b>27 (3)</b>	<b>28 (3)</b>
Mounting plates	<b>LVS03500</b>	<b>LVS03500</b>
Front plates [No. of vertical modules]	upstream	<b>3 x LVS03804 [12]</b>
	with cut-out	<b>LVS03709 [10]</b>
	downstream	<b>LVS03804 [4]</b>
1/3 front plate support frame	<b>LVS08560 (1) + 2 x LVS08562 (2)</b>	<b>LVS08560 (1) + 2 x LVS08562 (2)</b>
Cover	<b>LVS04861</b>	<b>LVS04861</b>

# MasterPact MTZ2 08 to 32

## Partial front plate support frames

### Withdrawable

Circuit breakers

Mounting		Rear connection with cables	
			
<b>Devices</b>	<b>Withdrawable device</b>		
	<b>MTZ2 08/32</b>		
No. of vertical modules	<b>15 (3)</b>		
Mounting plates	<b>LVS03500</b>		
Front plates	upstream	-	
[No. of vertical modules]	with cut-out	<b>LVS03709 [10]</b>	
	downstream	<b>LVS03804 [4]</b>	
1/3 front plate support frame	<b>LVS08560 (1) + 2 x LVS08562 (2)</b>		

- (1) 1/3 front plate support frame 10 modules.
- (2) 1/3 front plate support frame 12 modules.
- (3) Modularity includes the space of one module between each front plate support frame.



# MasterPact MTZ1 06 to 16

## Cables connection

Toggle, motor mechanism - Fixed, withdrawable

### Circuit breakers

Mounting		Front connection with cables			
Devices		Fixed device		Withdrawable device	
		MTZ1 06/10	MTZ1 12/16	MTZ1 06/10	MTZ1 12/16
Number of devices per row		1	1	1	1
No. of vertical modules		12	14	13	15
Mounting plates		LVS03484	LVS03484	LVS03483	LVS03483
Front plates [No. of vertical modules]	upstream	LVS03802 [2]	LVS03804 [4]	LVS03802 [2]	LVS03804 [4]
	with cut-out	LVS03692 [7]	LVS03692 [7]	LVS03691 [8]	LVS03691 [8]
	downstream	LVS03803 [3]	LVS03803 [3]	LVS03803 [3]	LVS03803 [3]

Mounting		Rear connection with cables	
Devices		Fixed device	Withdrawable device
		MTZ1 06/16	MTZ1 06/16
Number of devices per row		1	1
No. of vertical modules		11	11
Mounting plates		LVS03484	LVS03483
Front plates [No. of vertical modules]	upstream	LVS03801 [1]	-
	with cut-out	LVS03692 [7]	LVS03691 [8]
	downstream	LVS03803 [3]	LVS03803 [3]

Connection		Upstream on incomer							
Devices		Fixed device				Withdrawable device			
		MTZ1 06/10		MTZ1 12/16		MTZ1 06/10		MTZ1 12/16	
		3P	4P	3P	4P	3P	4P	3P	4P
Front connection	type of terminals	Front connections supplied with the device							
	vert. connection adapters	33642 (1)	33643 (1)	33642 (1)	33643 (1)	33642 (1)	33643 (1)	33642 (1)	33643 (1)
	cable-lug adapters	Direct		33644 (1)	33645 (1)	Direct		33644 (1)	33645 (1)
	spacing rods	-		LVS04691		-		LVS04691	
	arc-chute cover	47335	47336	47335	47336	-			
cables cover		LVS04852							
Rear connection	type of terminals	Vertical rear connections supplied with the device							
	terminal extension bar support	2 x LVS04693							
	cables cover	LVS04854							
	extension bars	must be made (2)							

Distribution		Downstream on Linergy LGY or BS busbars							
Devices		Fixed device				Withdrawable device			
		MTZ1 06/12		MTZ1 16		MTZ1 06/12		MTZ1 16	
		3P	4P	3P	4P	3P	4P	3P	4P
Type of terminals		Front connections supplied with the device							
Prefabricated connection to busbars	Linergy LGY	LVS04475	LVS04476	LVS04489	LVS04490	LVS04477	LVS04478	LVS04491	LVS04492
	Linergy BS	must be made (2)							
Cover for busbars connection		add free supports: 2 x LVS04662 LVS04926							

(1) Vertical connection adapters and cable-lug adapters and CT, are not compatible with input voltage  $\geq 440V$  due to mandatory barriers installation (LVS33648 or LVS33768)

(2) Connection to be made according to the busbar drawings supplied by Schneider Electric.

**Note:** to make measurements: install the CTs on the horizontal busbars (busbar connection); in this case, an additional module is required; add a plain front plate (LVS03801) or install a Micrologic control unit capable of displaying the values.

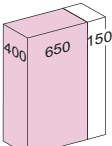
Selection of busbars: Linergy LGY > page G-4, Linergy LGYE > page G-5, Linergy BS > page G-6.

# MasterPact MTZ1 06 to 16

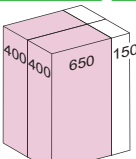
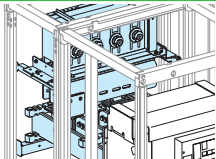
## Canalis connection

Toggle, motor mechanism - Fixed, withdrawable


Circuit breakers


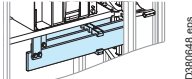
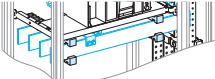
Mounting	Canalis front connection			
				

Devices	Fixed device		Withdrawable device	
	MTZ1 06/12	MTZ1 16	MTZ1 06/12	MTZ1 16
Number of devices per row	1	-	1	-
No. of vertical modules	17	-	18	-
Mounting plates	LVS03484		LVS03483	
Front plates	LVS03804 [4] + LVS03803 [3]		LVS03804 [4] + LVS03803 [3]	
[No. of vertical modules]	upstream	-	upstream	-
	with cut-out	-	LVS03692 [7]	-
	downstream	LVS03803 [3]	LVS03803 [3]	-

Mounting	Canalis rear connection			
				

Devices	Fixed device		Withdrawable device	
	MTZ1 06/16	MTZ1 16	MTZ1 06/16	MTZ1 16
Number of devices per row	1	-	1	-
No. of vertical modules	16	-	16	-
Mounting plates	LVS03484		LVS03483	
Front plates	LVS03806 [6]		LVS03805 [5]	
[No. of vertical modules]	upstream	-	upstream	-
	with cut-out	LVS03692 [7]	LVS03691 [8]	-
	downstream	LVS03803 [3]	LVS03803 [3]	-

Connection	Upstream on incomer							
								
Devices	Fixed device				Withdrawable device			
	MTZ1 06/12	MTZ1 16	MTZ1 06/12	MTZ1 16	MTZ1 06/12	MTZ1 16	MTZ1 06/12	MTZ1 16
	3P	4P	3P	4P	3P	4P	3P	4P
Canalis support	LVS03561				-			
Canalis interface (1)	LVS04703	LVS04704	LVS04703	LVS04704	LVS04703	LVS04704	LVS04703	LVS04704
Front connection	Front connections supplied with the device							
Type of terminals								
Canalis/device connection	LVS04711	LVS04712	-	-	LVS04711	LVS04712	-	-
Arc-chute cover	47335	47336	-	-	-	-	-	-
Canalis cover	LVS04871 + LVS04852				LVS04871 + LVS04852			
Rear connection	Vertical rear connections supplied with the device							
Type of terminals								
Terminal extension bar support	2 x LVS04693				-			
Canalis/device connection	LVS04713	LVS04714	LVS04713	LVS04714	LVS04713	LVS04714	LVS04713	LVS04714
Cable cover	LVS04871 + LVS04854							
Extension bars	must be made (2)							

Distribution	Downstream on Linergy LGY or BS busbars								
									
Devices	Fixed device				Withdrawable device				
	MTZ1 06/12	MTZ1 16	MTZ1 06/12	MTZ1 16	MTZ1 06/12	MTZ1 16	MTZ1 06/12	MTZ1 16	
	3P	4P	3P	4P	3P	4P	3P	4P	
Type of terminals	Front connections supplied with the device								
Prefabricated connection to busbars	Linyer LGY	LVS04475	LVS04476	LVS04489	LVS04490	LVS04477	LVS04478	LVS04491	LVS04492
	Linyer BS	must be made (2)							
		add free supports: 2 x LVS04662							
Cover for busbars connection	LVS04926								

(1) To tight the screws of the Canalis interface use the special tool 87808.  
 (2) Connection to be made according to the busbar drawings supplied by Schneider Electric.  
**Note:** to make measurements: install the CTs on the horizontal busbars (busbar connection); in this case, an additional module is required; add a plain front plate (LVS03801) or install a Micrologic control unit capable of displaying the values.  
 Selection of busbars: Linyer LGY > page G-4, Linyer LGYE > page G-5, Linyer BS > page G-6.

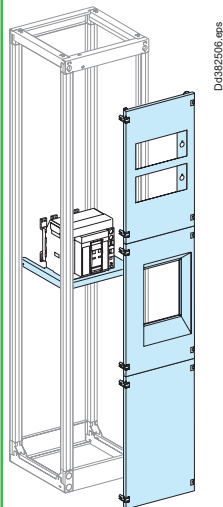
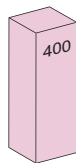
# MasterPact MTZ1 06 to 16

Dedicated cubicle 3P - W = 400 mm

Fixed, withdrawable

Circuit breakers

## Mounting



Devices	Fixed device	Withdrawable device
	<b>MTZ1 06 to MTZ1 16</b>	
Number of devices per cubicle	1	1
No. of vertical modules	<b>37</b>	<b>37</b>
Mounting plates	<b>LVS03489</b>	<b>LVS03488</b>
Front plates	<b>LVS03698 [11]</b>	<b>LVS03699 [11]</b>
[No. of vertical modules]	with cut-out upstream (1) cut-out for 72 x 72 or 96 x 96 mm	<b>LVS03723 [13]</b>
	or plain	<b>LVS03722 [13]</b>
	downstream (1) plain	<b>LVS03722 [13]</b>
		<b>LVS03722 [13]</b>

## Measurement-device installation

Measurement devices are installed on a front plate (**LVS03723**) using plastic mounting plates with cut-outs. The front plate can hold:

- six 72 x 72 mm cases
- or four 96 x 96 mm cases + 2 switches.

Number and type of devices per row	Metal front plate with cut-out	No. of vertical modules	Plastic mounting plates with cut-out	Blanking plate or device support
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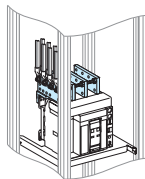
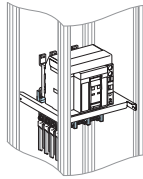
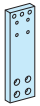


Mounting on interface with plastic mounting plates				
3 x <b>72 x 72</b> Vigirex and other devices 72 x 72 without switch	 D41382870.eps	13	 DD385465.eps	 DD385468.eps To blank-off or install: - from 1 to 4 buttons Ø 16 or 22 mm - 1 device 45 x 45
2 x <b>96 x 96</b> Power Meter and others devices 96 x 96			 DD385467.eps	 DD385468.eps To blank-off or install: - 1 to 4 buttons Ø 16 or 22 mm - 1 device 45 x 45 - 1 device 72 x 72
1 x <b>96 x 96</b> For PM200, 200P, PM5 & PM8 series meters			<b>LVS03903</b>	<b>LVS03901</b>
<b>LVS03723</b>				
Characteristics	<ul style="list-style-type: none"> <li>■ Installation of three devices (72 x 72 mm cases) using plastic mounting plates (<b>LVS03902</b>) and two devices (96 x 96 mm cases) + a switch using plastic mounting plates (<b>LVS03903</b>) on a hinged front plate (<b>LVS03723</b>)</li> <li>■ The plain mounting plates have knock-outs for lamps, pushbuttons, switches or devices. Knock-outs for LVS03900: 4 Ø 16 mm, 5 Ø 22 mm or one for a 45 x 45 mm device. Knock-outs for LVS03901: 4 Ø 16 mm, 5 Ø 22 mm or one for a 45 x 45 or 72 x 72 mm device.</li> </ul>			

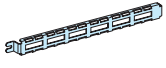
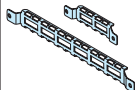
(1) Hinged or reversible (left or right-hand opening) front plates connect directly to the framework, without a front-plate support frame.  
 (2) For PM200, 200P, PM5 & PM8 series meters, use 1 no. blank-off sheet with each meter in a row.


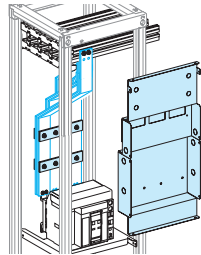
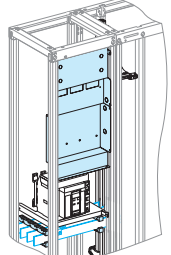
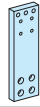
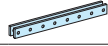

# MasterPact MTZ1 06 to 16

Dedicated cubicle 3P - W = 400 mm  
Fixed, withdrawable

Circuit breakers

Connection	Upstream on incomer	
	 D4382072_1.eps	 D4382069.eps
<b>Devices</b>	<b>Fixed device</b>	<b>Withdrawable device</b>
	<b>MTZ1 06 to MTZ1 16</b>	
Type of terminals 	Front connection	Front connection
Arc-chute cover 	<b>47335</b>	-
Vert. conn. adapters	<b>33642 (1)</b>	<b>33642 (1)</b>
Cable-lug adapters	<b>33644 (1)</b>	<b>33644 (1)</b>
Spacing rods 	<b>LVS04691</b>	<b>LVS04691</b>

Accessories		
	 D46825 13.eps	 D46825 14.eps
	<b>W = 400</b>	<b>D = 400</b> <b>D = 600</b>
4 cable tie supports for framework	<b>LVS08774</b>	<b>LVS08794</b> <b>LVS08794 + LVS08796</b>
<b>(1)</b> Vertical connection adapters and cable-lug adapters are not compatible with input voltage $\geq 500$ V.		

Distribution	Downstream on horizontal busbars		Downstream on vertical busbars
	Linergy LGYE	Linergy BS	Linergy LGY or BS
	 D0365890.eps		 D0365814.eps
<b>Fixed / withdrawable devices</b>	<b>MTZ1 06 to MTZ1 16</b>		<b>MTZ1 06 to MTZ1 16</b>
Type of terminals 	Front connection	Front connection	Front connection
Support 	2 x <b>LVS04692</b> For MTZ1 H1 & H2 3 x <b>LVS04692</b> For MTZ1 H3	2 x <b>LVS04692</b> For MTZ1 H1 & H2 3 x <b>LVS04692</b> For MTZ1 H3	<b>LVS04662</b>
Barrier <b>(1)</b> 	<b>LVS04855</b>	<b>LVS04855</b>	<b>LVS04855</b>
Horizontal-busbar connections	must be made <b>(2)</b>	must be made <b>(2)</b>	-
10 mm thickness bars	-	<b>LVS04636 (3)</b>	-
Vertical-busbar connections	-	-	must be made <b>(2)</b>
Free support	-	-	<b>LVS04662</b>

**(1)** A barrier must be installed behind front plate **LVS03723** when measurement devices are installed.  
**(2)** Connection to be made according to the busbar drawings supplied by Schneider Electric.  
**(3)** Catalog number **LVS04636** includes 1 connection only. Order 1 connection per phase.

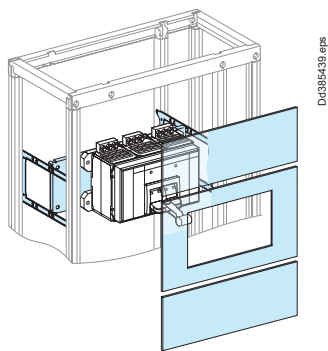
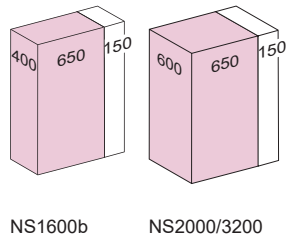
# ComPacT NS1600b to 3200

## Cables connection

Fixed

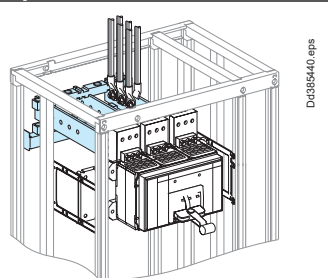
Circuit breakers

### Mounting Front connection



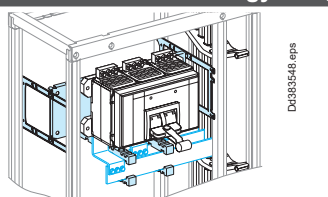
Devices		Fixed device	
		NS1600b	NS2000/3200
Number of devices per row		1	1
No. of vertical modules		14	16
Mounting plates		LVS03501	LVS03501
Front plates [No. of vertical modules]	upstream	LVS03802 [2]	LVS03802 [2]
	with cut-out	LVS03716 [8]	LVS03716 [8]
	downstream	LVS03804 [4]	LVS03806 [6]

### Connection Upstream on incomer



Fixed devices		NS1600b/2500	NS3200
Type of terminals		Front connections supplied with the device	
Vertical-connection adapters	3P	33975	33975
	4P	33976	33976
Terminal extension bar support		LVS04694	
Extension bars		must be made (1)	

### Distribution Downstream on Linergy LGY, LGYE or BS busbars



Fixed devices		NS1600b	NS2000/2500	NS3200
Type of terminals		Front connections supplied with the device		
Busbars connection		must be made (1) (2)		
Free support for busbars connection		2 x LVS04662		
Cover for busbars connection		LVS04926	LVS04926	LVS04926
Additional cover		-	LVS04927	LVS04927

(1) Connection to be made according to the busbar drawings supplied by Schneider Electric. LGYE: +17.5 mm than BS.

(2) For the connection to flat busbars > 1600 A, order one joint per phase:

- 1 joint for busbars, W = 50/60 mm (LVS04640)
- 1 joint for busbars, W = 80/100 mm (LVS04641)

Note: to make measurements:

- install the CTs on the horizontal busbars (busbar connection); in this case, an additional module is required; add a plain front plate (LVS03801)
- or install a Micrologic control unit capable of displaying the values.

Selection of busbars: Linergy LGY > page G-4, Linergy LGYE > page G-5, Linergy BS > page G-6.

# ComPacT NS630b to NS1600

## Cables connection

Toggle, rotary handle, motor mechanism - Fixed, withdrawable

Circuit breakers

Mounting		Front connection with cables			
Devices		Fixed device		Withdrawable device	
		NS630b/1000	NS1250/1600	NS630b/1000	NS1250/1600
Number of devices per row		1	1	1	1
No. of vertical modules		12	14	13	15
Mounting plates		LVS03482	LVS03482	LVS03483	LVS03483
Front plates		upstream LVS03802 (2)	LVS03804 (4)	LVS03802 (2)	LVS03804 (4)
[No. of vertical modules]		with cut-out LVS03690 or LVS03701 (1) (7)		LVS03691 (8)	LVS03691 (8)
		downstream LVS03803 (3)	LVS03803 (3)	LVS03803 (3)	LVS03803 (3)

Mounting		Rear connection with cables	
Devices		Fixed device	Withdrawable device
		NS630b/1600	NS630b/1600
Number of devices per row		1	1
No. of vertical modules		10	11
Mounting plates		LVS03482	LVS03483
Front plates		with cut-out LVS03690 or LVS03701 (1) (7)	LVS03691 (8)
[No. of vertical modules]		downstream LVS03803 (3)	LVS03803 (3)

Connection		Upstream on incomer							
		Fixed device				Withdrawable device			
		NS630b/1000		NS1250/1600		NS630b/1000		NS1250/1600	
		3P	4P	3P	4P	3P	4P	3P	4P
Front connection		Type of terminals Front connections supplied with the device							
Vertical connection adapters		33642 (3)	33643 (3)	33642 (3)	33643 (3)	33642 (3)	33643 (3)	33642 (3)	33643 (3)
Cable-lug adapters		Direct		33644 (3)	33645 (3)	Direct		33644 (3)	33645 (3)
Spacing rods		-		LVS04691 (3)		-		LVS04691 (3)	
Arc-chute cover		33596	33597	33596	33597	-		-	
Cables cover		LVS04851				LVS04852			
Rear connection		Type of terminals Vertical rear connections supplied with the device							
Terminal extension bar support		2 x LVS04693							
Cables cover		LVS04853				LVS04854			
Extension bars		must be made (2)							

Connection		Downstream distribution via Linergy LGY or BS busbars							
		Fixed device				Withdrawable device			
		NS630b/1250		NS1600		NS630b/1250		NS1600	
		3P	4P	3P	4P	3P	4P	3P	4P
Type of terminals		Front connections supplied with the device							
Busbars connection		For Linergy LGY busbars: prefabricated connection							
		LVS04485	LVS04486	LVS04487	LVS04488	LVS04477	LVS04478	LVS04491	LVS04492
		For Linergy BS busbars: must be made (2).							
Free support for busbars connection		For Linergy BS busbars: 2 x LVS04662							
Cover for busbars connection		LVS04926							

(1) For devices with toggle or rotary handle Catalog number LVS03690, with a motor mechanism Catalog number LVS03701.  
 (2) Connection to be made according to the busbar drawings supplied by Schneider Electric.  
 (3) Vertical connection adaptaters and cable-lug adapters and CT, are not compatible with input voltage ≥ 500V due to mandatory barriers installation (33648 or 33768).  
**Note:** to make measurements:  
 ■ install a Micrologic control unit capable of displaying the values.  
 ■ or install the CTs on the horizontal busbars; in this case, an additional module is required; add a plain front plate downstream (LVS03801).  
 Selection of busbars: Linergy LGY > page G-4, Linergy LGYE > page G-5, Linergy BS > page G-6.

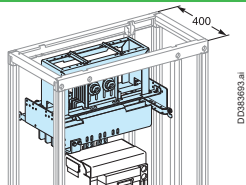
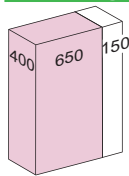
# ComPacT NS630b to 1600

## Canalis connection

Toggle, rotary handle, motor mechanism - Fixed, withdrawable

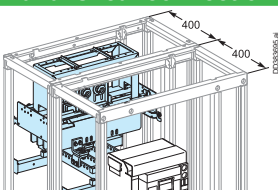
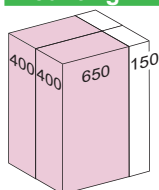
### Circuit breakers

#### Mounting Canalis front connection



Devices	Fixed device		Withdrawable device	
	NS630b/1250	NS1600	NS630b/1250	NS1600
Number of devices per row	1	-	1	-
No. of vertical modules	17	-	18	-
Mounting plates	LVS03482	-	LVS03483	-
Front plates	LVS03804 [4] + LVS03803 [3]	-	LVS03804 [4] + LVS03803 [3]	-
[No. of vertical modules]	upstream with cut-out downstream	LVS03690 or LVS03701 (1) [7] LVS03803 [3]	LVS03691 [8] LVS03803 [3]	- -

#### Mounting Canalis rear connection

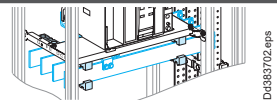
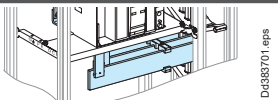


Devices	Fixed device		Withdrawable device	
	NS630b/1600		NS630b/1600	
Number of devices per row	1		1	
No. of vertical modules	16		16	
Mounting plates	LVS03482		LVS03483	
Front plates	LVS03806 [6]		LVS03805 [5]	
[No. of vertical modules]	upstream with cut-out downstream	LVS03690 or LVS03701 (1) [7] LVS03803 [3]	LVS03691 [8] LVS03803 [3]	- -

#### Connection Upstream on incomer

Devices	Fixed device		Withdrawable device	
	NS630b/1600		NS630b/1600	
Canalis support	LVS03561	-	-	-
Canalis interface (2)	LVS04703	LVS04704	LVS04703	LVS04704
Front connection	Front connections supplied with the device			
Type of terminals	LVS04711		LVS04712	
Canalis/device	LVS04711		LVS04712	
Arc-chute cover	33596	33597	-	-
Canalis cover	LVS04871 + LVS04851		LVS04871 + LVS04852	
Rear connection	Vertical rear connections supplied with the device			
Type of terminals	2 x LVS04693			
Terminal extension bar support	must be made (3)			
Extension bars	-			
Canalis/device connection	-	-	LVS04713	LVS04714
Canalis cover	LVS04871 + LVS04854		LVS04871 + LVS04854	

#### Connection Downstream distribution via Linergy LGY or BS busbars



Devices	Fixed device				Withdrawable device			
	NS630b/1250	NS1600		NS630b/1250	NS1600			
Type of terminals	3P	4P	3P	4P	3P	4P	3P	4P
Busbars connection	Front connections supplied with the device							
For Linergy LGY busbars: prefabricated connection	LVS04485	LVS04486	LVS04487	LVS04488	LVS04477	LVS04478	LVS04491	LVS04492
For Linergy BS busbars: must be made (3)	Can be reversed for upstream supply							
Free support for busbars connection	For Linergy BS busbars: 2 x LVS04662							
Cover for busbars connection	LVS04926							

(1) For devices with toggle or rotary handle Catalog number LVS03690, with a motor mechanism Catalog number LVS03701.

(2) To tight the screws of the Canalis interface use the special tool 87808.

(3) Connection to be made according to the busbar drawings supplied by Schneider Electric.

Note: to make measurements:

■ install a Micrologic control unit capable of displaying the values.

■ or install the CTs on the horizontal busbars; in this case, an additional module is required; add a plain front plate downstream (LVS03801).

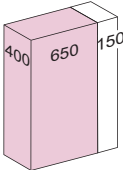
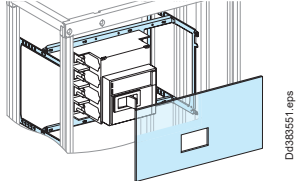
Selection of busbars: Linergy LGY > page G-4, Linergy LGYE > page G-5, Linergy BS > page G-6.

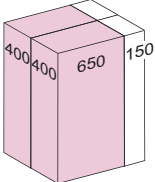
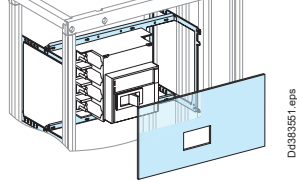
# ComPacT NS630b to 1000


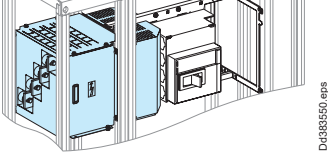
Horizontal mounting


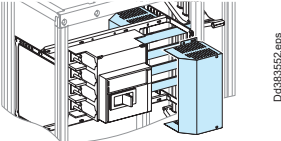
Toggle, rotary handle - Fixed

Circuit breakers

Mounting	Front connection
	
<b>Devices</b>	<b>Fixed device</b> <b>NS630b/1000</b>
Number of devices per row	1
No. of vertical modules	<b>7 (1)</b>
Mounting plates	<b>LVS03480</b>
Front plates with cut-outs	<b>LVS03687</b>

Mounting	Rear connection
	
<b>Devices</b>	<b>Fixed device</b> <b>NS630b/1000</b>
Number of devices per row	1
No. of vertical modules	<b>7 (1)</b>
Mounting plates	<b>LVS03480</b>
Front plates with cut-outs	<b>LVS03687</b>

Connection	Upstream on incomer
	
<b>Fixed devices</b>	<b>NS630b/1000</b> <b>3P</b>   <b>4P</b>
Type of terminals	front connection   Front connections supplied with the device rear connection   Vertical rear connections supplied with the device
Connection transfert assembly for front connection	<b>LVS04483</b>   <b>LVS04484</b> If cubicle w300 mm then 3x300 mm <sup>2</sup> , if cubicle w400 mm then 4x300 mm <sup>2</sup> , same concept for 185 mm <sup>2</sup> . Three 300 mm <sup>2</sup> or six 185 mm <sup>2</sup> cables can be connected per phase with lugs that are not of the two-metal type.
Cover rear connection	-

Connection	Downstream via Linergy LGY, LGYE or BS busbars
	
<b>Fixed devices</b>	<b>NS630b/1000</b> <b>3P</b>   <b>4P</b>
Type of terminals	Front connections supplied with the device
Busbars connection	For Linergy LGY busbars: prefabricated connection <b>LVS04473</b>   <b>LVS04474</b> must be made. For Linergy LGYE (> page G-13) and Linergy BS busbars
Cover for busbars connection	<b>LVS04842</b>
Arc-chute cover	<b>33596</b>   <b>33597</b>

(1) Mounting of **LVS03480** + connection transfert assembly **LVS04483** or **LVS04484** needs 8 vertical modules (use of one complementary front plate 1 module **LVS03801**) at the bottom of the functional unit.

Selection of busbars: Linergy LGY > page G-4, Linergy LGYE > page G-5, Linergy BS > page G-6.

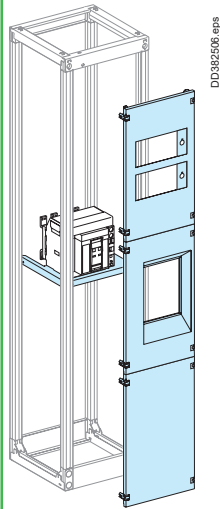
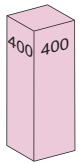
# ComPacT NS630b to 1600

Dedicated cubicle - W = 400 mm

Fixed, withdrawable

Circuit breakers

## Mounting Toggle, rotary handle and motor mechanism



Devices	Fixed device	Withdrawable device
	<b>NS630b/1600 3/4P</b>	<b>NS630b/1600 3P</b>
Number of devices per cubicle	1	1
No. of vertical modules	<b>37</b>	<b>37</b>
Mounting plates	<b>LVS03487</b>	<b>LVS03488</b>
Front plates	with cut-out <b>LVS03697 [11]</b>	<b>LVS03699 [11]</b>
[No. of vertical modules]	upstream (1) with cut-out for 72 x 72 or 96 x 96 mm meters <b>LVS03723 [13]</b>	<b>LVS03723 [13]</b>
	or plain <b>LVS03722 [13]</b>	<b>LVS03722 [13]</b>
	downstream (1) plain <b>LVS03722 [13]</b>	<b>LVS03722 [13]</b>

### Measurement-device installation

Measurement devices are installed on a front plate (**LVS03723**) using plastic mounting plates with cut-outs. The front plate can hold:

- six 72 x 72 mm cases
- or four 96 x 96 mm cases + 2 switches.

Number and type of devices per row	Metal front plate with cut-out	No. of vertical modules	Plastic mounting plates with cut-out	Blanking plate or device support
------------------------------------	--------------------------------	-------------------------	--------------------------------------	----------------------------------

#### Mounting on an interface with plastic mounting plates

3 x <b>72 x 72</b> Vigirex and other devices 72 x 72 without switch		13			To blank-off or install: - from 1 to 4 buttons Ø 16 or 22 mm - 1 device 45 x 45
2 x <b>96 x 96</b> Power Meter and other devices 96 x 96 with switch					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
Characteristics	<b>LVS03723</b>		<b>LVS03903</b>	<b>LVS03901</b>	

- Installation of three devices (72 x 72 mm cases) using plastic mounting plates (**LVS03902**) and two devices (96 x 96 mm cases) + a switch using plastic mounting plates (**LVS03903**) on a hinged front plate (**LVS03723**)
- The plain mounting plates have knock-outs for lamps, pushbuttons, switches or devices.  
Knock-outs for **LVS03900**: 4 Ø 16 mm, 5 Ø 22 mm or one for a 45 x 45 mm device.  
Knock-outs for **LVS03901**: 4 Ø 16 mm, 5 Ø 22 mm or one for a 45 x 45 or 72 x 72 mm device.


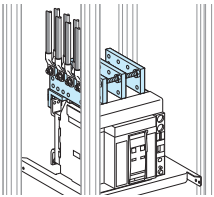
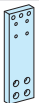


(1) Hinged or reversible (left or right-hand opening) front plates connect directly to the framework, without a front-plate support frame.

# ComPacT NS630b to 1600

Dedicated cubicle - W = 400 mm


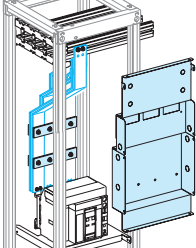
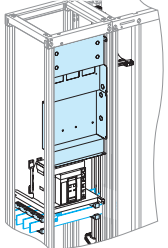
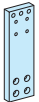
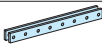

Fixed, withdrawable

Circuit breakers

Connection		Upstream on incomer	
			
<b>Devices</b>		<b>Fixed device</b>	
		<b>NS630b/1600</b>	
		<b>3P</b>	<b>4P</b>
Type of terminals 		Front connection	
<b>Arc-chute cover</b> 		<b>33596</b>	<b>33597</b>
<b>Vert. conn. adapters</b>		<b>33642 (1)</b>	<b>33643 (1)</b>
<b>Cable-lug adapters</b>		<b>33644 (1)</b>	<b>33645 (1)</b>
<b>Spacing rods</b> 		<b>LVS04691</b>	
		<b>Withdrawable device</b>	
		<b>3P</b>	
		Front connection	

Accessories			
			
		<b>W = 400</b>	<b>D = 400</b> <b>D = 600</b>
<b>4 cable tie supports for framework</b>		<b>LVS08774</b>	<b>LVS08794</b> <b>LVS08794 + LVS08796</b>

(1) Vertical connection adapters and cable-lug adapters are not compatible with input voltage ≥ 500 V.

Distribution	Connection to horizontal busbars				Connection to vertical busbars		
	Linergy LGYE		Linergy BS		Linergy LGY or BS		
							
<b>Devices</b>		<b>Fixed</b>	<b>Withdrawable</b>	<b>Fixed</b>	<b>Withdrawable</b>	<b>Fixed</b>	<b>Withdrawable</b>
		<b>NS630b/1600</b>	<b>NS630b/1600</b>	<b>NS630b/1600</b>	<b>NS630b/1600</b>	<b>NS630b/1600</b>	<b>NS630b/1600 3P</b>
		<b>3P/4P</b>	<b>3P</b>	<b>3P/4P</b>	<b>3P</b>	<b>3P/4P</b>	<b>3P</b>
Type of terminals 		Front connection	Front connection	Front connection	Front connection	Front connection	Front connection
<b>Support</b> 		<b>2 x LVS04692</b>	<b>2 x LVS04692</b>	<b>2 x LVS04692</b>	<b>2 x LVS04692</b>	-	-
<b>Barrier (1)</b> 		<b>LVS04855</b>	<b>LVS04855</b>	<b>LVS04855</b>	<b>LVS04855</b>	<b>LVS04855</b>	<b>LVS04855</b>
<b>Horizontal-busbar connections</b>		must be made (2)		-	-	-	-
50/60/80		-	-	<b>LVS04636 (3)</b>	<b>LVS04636</b>	-	-
<b>Vertical-busbar connections</b>		-	-	-	-	must be made (2)	
<b>Free support</b>		-	-	-	-	<b>LVS04662</b>	

(1) A barrier must be installed behind front plate **LVS03723** when measurement devices are installed.

(2) Connection to be made according to the busbar drawings supplied by Schneider Electric.

(3) Catalog number **LVS04636** includes 1 connection only. Order 1 connection per phase.

Connection device/horizontal busbar to make by customer.

Busbar selection Linergy BS to make connection: > page G-3 and page G-6.

Busbar selection Linergy LGYE or LGY: > page G-2 and page G-4.

# ComPacT, ComPacT Vigi (ELCB) and VigiComPacT NSX 100 to 630

Horizontal mounting

Toggle - Fixed



Designed for PowerTag NSX  
Circuit breakers

Mounting		Horizontal fixed							
<b>Devices</b>		<b>Toggle</b>							
		<b>NSX (1) / NSX Vigi (ELCB) (1) / Vigi NSX 100/160/250</b>		<b>NSX (1) / NSX Vigi (ELCB) (1) 400/630</b>		<b>Vigi NSX 400/630</b>			
		<b>3P</b>	<b>4P</b>	<b>3P</b>	<b>4P</b>	<b>3P</b>	<b>4P</b>		
Number of devices per row		1	1	1	1	1	1		
PowerTag NSX compatibility		↯	↯	↯	↯	-	-		
No. of vertical modules		3	4	4	5	4	5		
Mounting plates		LVS03411	LVS03412	LVS03451	LVS03452	LVS03451	LVS03452		
Front plates	with cut-out	LVS03604 (2)	LVS03606 (2)	LVS03643	LVS03644	LVS03643	LVS03644		
Connection		Upstream from lateral busbars							
<b>Fixed devices</b>		<b>NSX / NSX Vigi (ELCB) / Vigi NSX 100/160/250</b>		<b>NSX / NSX Vigi (ELCB) / Vigi NSX 400/630</b>					
<b>Linery LGY</b>		3P		4P		3P		4P	
Prefabricated connection		LVS04423 (4)		LVS04424 (4)		LVS04453		LVS04454	
<b>Linery BS, LGYE</b>									
Connection		must be made (3)							
Long terminal shields		LV429517		LV429518		LV432593		LV432594	
Connection		Downstream distribution							
<b>Fixed devices</b>		<b>NSX / NSX Vigi (ELCB) 100/250</b>		<b>Vigi NSX100/250</b>		<b>NSX / NSX Vigi (ELCB) 400/630</b>		<b>Vigi NSX400/630</b>	
		<b>3P</b>	<b>4P</b>	<b>3P</b>	<b>4P</b>	<b>3P</b>	<b>4P</b>	<b>3P</b>	<b>4P</b>
Front connection	long terminal shields	LV429517	LV429518	LV429517	LV429518	LV432593	LV432594	LV432593	LV432594
Connection transfer assembly	connection	LVS04425	LVS04426	LVS04429 (5)	LVS04430 (5)	LVS04455	LVS04456	LVS04459 (5)	LVS04460 (5)
	connection with PowerTag NSX	LVS04425	LVS04426	-	-	LVS04459 (5)	LVS04460 (5)	-	-
Rear connection	long terminal shields	-	-	LV429517	LV429518	-	-	LV432593	LV432594
	short terminal shields	LV429515 (4)	LV429516 (4)	LV429515 (4)	LV429516 (4)	LV432591 (4)	LV432592 (4)	LV432591 (4)	LV432592 (4)
	short rear connectors	LV429235		LV429235		LV432475		LV432475	
	long rear connectors	LV429236		LV429236		LV432476		LV432476	

(1) Metering and signaling features (ammeter...) can be added. Mounted on a ComPacT NSX, it has the same size than a ComPacT Vigi NSX. Refer to the corresponding column.

(2) Compatible with FDM121.

(3) Connections must be made with insulated flexible bars > page G-20.

(4) Compatible with Linergy LGYE vertical busbar.

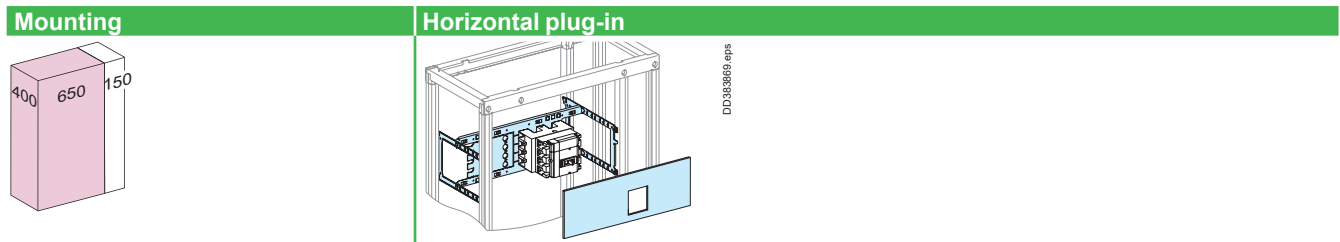
(5) Complete the connection with insulated flexible bars (not supplied).

# ComPacT, ComPacT Vigi (ELCB) and VigiComPacT NSX 100 to 630

Horizontal mounting

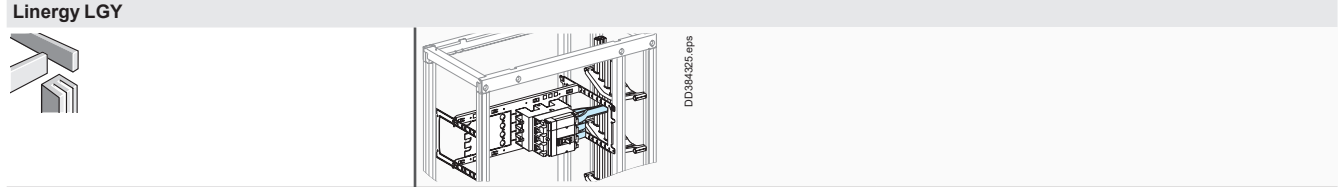
Toggle - Plug-in

Circuit breakers

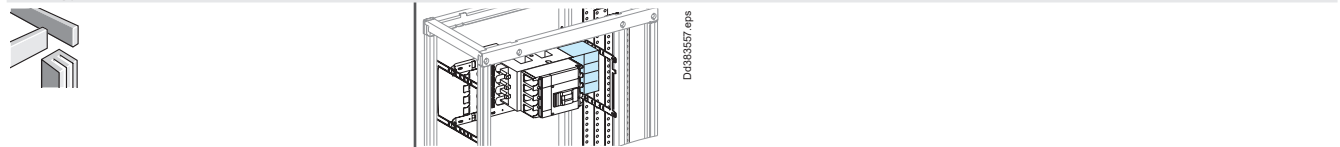


Mounting	Horizontal plug-in			
<b>Devices</b>	Toggle		NSX (1) / NSX Vigi (ELCB) (1) / Vigi NSX 400/630	
	NSX (1) / NSX Vigi (ELCB) (1) / Vigi NSX 100/160/250		NSX (1) / NSX Vigi (ELCB) (1) / Vigi NSX 400/630	
	3P	4P	3P	4P
Number of devices per row	1	1	1	1
No. of vertical modules	3	4	4	5
Mounting plates	LVS03413	LVS03414	LVS03453	LVS03454
Front plates	with cut-out	LVS03604 (2)	LVS03606 (2)	LVS03643
		LVS03606 (2)	LVS03643	LVS03644

Connection	Upstream from lateral busbars			
<b>Plug-in devices</b>	NSX / NSX Vigi (ELCB) / Vigi NSX 100/160/250		NSX / NSX Vigi (ELCB) / Vigi NSX 400/630	
	3P	4P	3P	4P

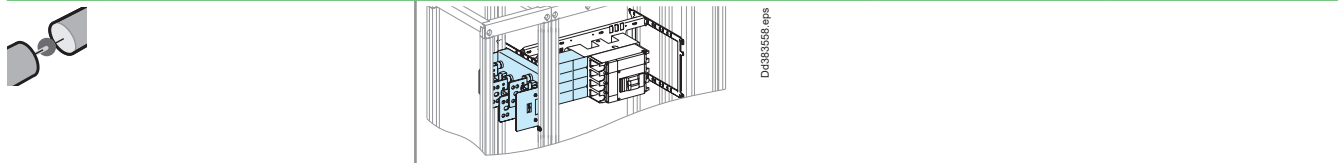


<b>Linerigy LGY</b>				
Prefabricated connection	LVS04431 (3)	LVS04432 (3)	LVS04461	LVS04462
Short terminal shields on device	LV429515	LV429516	LV432591	LV432592



<b>Linerigy BS, LGYE</b>				
Connection	must be made with insulated flexible bars > page G-20.			
Connection adapter for plug-in base	LV429306	LV429307	LV432584	LV432585
Long terminal shields on plug-in base	LV429517	LV429518	LV432593	LV432594
Short terminal shields on device	LV429515	LV429516	LV432591	LV432592

Connection	Downstream distribution			
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<b>Plug-in devices</b>	NSX / NSX Vigi (ELCB) / Vigi NSX 100/160/250		NSX / NSX Vigi (ELCB) / Vigi NSX 400/630	
	3P	4P	3P	4P
Front connection	connection adapter for plug-in base	LV429306	LV429307	LV432584
	short terminal shields on device	LV429515	LV429516	LV432591
	long terminal shields on plug-in base	LV429517	LV429518	LV432593
Connection transfer assembly	connection	LVS04429 (4)	LVS04430 (4)	LVS04459 (4)
	connection adapter for plug-in base	LV429306	LV429307	LV432584
	short terminal shields	LV429515	LV429516	LV432591
	long terminal shields	LV429517	LV429518	LV432593
Rear connection	short terminal shields	2 x LV429515	2 x LV429516	2 x LV432591
	short rear connectors	LV429235	LV429235	LV432475
	long rear connectors	LV429236	LV429236	LV432476
	connection adapter for plug-in base	LV429306	LV429307	LV432584

(1) Metering and signaling features (ammeter...) can be added. Mounted on a ComPacT NSX, it has the same size than a ComPacT Vigi NSX. Refer to the corresponding column.

(2) Compatible with FDM121.

(3) Compatible with Linergy LGYE vertical busbar.

(4) Complete the connection with insulated flexible bars (not supplied).

# ComPacT, ComPacT Vigi (ELCB) and VigiComPacT NSX 100 to 630

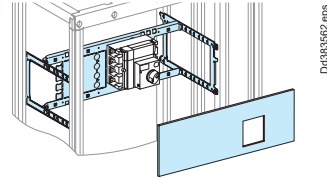
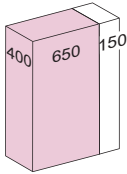
Horizontal mounting

Rotary handle, motor mechanism - Fixed



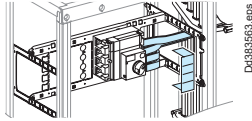
Designed for PowerTag NSX  
Circuit breakers

## Mounting Horizontal Fixed



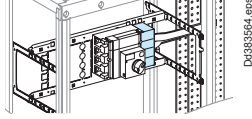
Devices	Rotary handle, motor mechanism									
	NSX (1) / NSX Vigi (ELCB) (1) 100/160/250		Vigi NSX 100/160/250		NSX (1) / NSX Vigi (ELCB) (1) 400/630				Vigi NSX 400/630	
	3P	4P	3P	4P	rotary handle		motor mechanism		rotary handle	
Number of devices per row	1	1	1	1	1	1	1	1	1	1
PowerTag NSX compatibility	⊘	⊘	⊘	⊘	⊘	⊘	⊘	⊘	-	-
No. of vertical modules	3	4	3	4	4	5	4	5	4	5
Mounting plates	LVS03413	LVS03414	LVS03413	LVS03414	LVS03453	LVS03454	LVS03453	LVS03454	LVS03453	LVS03454
Fixing kit for control support	-	-	-	-	-	-	LVS03460	LVS03460	-	-
Front plates with cut-out	LVS03604 (2)	LVS03606 (2)	LVS03604 (2)	LVS03606 (2)	LVS03643	LVS03644	LVS03643	LVS03644	LVS03643	LVS03644
Collar	-	-	LV429285	LV429285	-	-	LV429285	LV429285	LV429285	LV429285

Connection	Upstream from lateral busbars			
Fixed devices	NSX / NSX Vigi (ELCB) / Vigi NSX 100/160/250		NSX / NSX Vigi (ELCB) / Vigi NSX 400/630	
Linery LGY	3P	4P	3P	4P



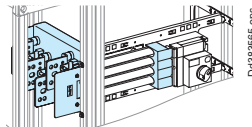
Connection	LVS04427 (3)	LVS04428 (3)	must be made with insulated flexible bars > page G-20 (4).	
Long terminal shields	-	-	LV432593	LV432594

### Linery BS, LGYE



Connection	must be made with insulated flexible bars > page G-20.			
Long terminal shields	LV429517	LV429518	LV432593	LV432594

## Connection Downstream distribution



Fixed devices	NSX / NSX Vigi (ELCB) / Vigi NSX			
	100/160/250		400/630	
	3P	4P	3P	4P
Front connection long terminal shields	LV429517	LV429518	LV432593	LV432594
Connection transfer assembly	connection with or without PowerTag NSX	LVS04429 (5)	LVS04430 (5)	LVS04459 (5)
	long terminal shields	LV429517	LV429518	LV432593
Rear connection	short terminal shields	LV429515	LV429516	LV432591
	short rear connectors	LV429235	-	LV432475
	long rear connectors	LV429236	-	LV432476

(1) Metering and signaling features (ammeter...) can be added. Mounted on a ComPacT NSX, it has the same size than a ComPacT Vigi NSX. Refer to the corresponding column.

(2) Compatible with FDM121.

(3) Compatible with Linery LGYE vertical busbar.

(4) To be made according to the busbar drawings supplied by Schneider Electric.

(5) Complete the connection with insulated flexible bars (not supplied).

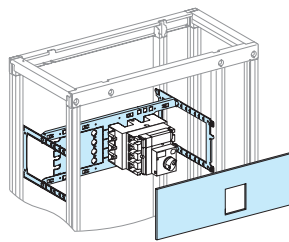
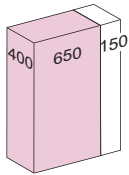
# ComPacT, ComPacT Vigi (ELCB) and VigiComPacT NSX 100 to 630

Horizontal mounting

Rotary handle, motor mechanism - Plug-in

Circuit breakers

## Mounting Horizontal plug-in

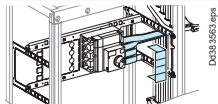


Devices	Rotary handle, motor mechanism							
	NSX (1) / NSX Vigi (ELCB) (1) 100/160/250		Vigi NSX 100/160/250		NSX (1) / NSX Vigi (ELCB) (1) 400/630		Vigi NSX 400/630 rotary handle NSX400/630 motor mechanism	
	3P	4P	3P	4P	3P	4P	3P	4P
Number of devices per row	1	1	1	1	1	1	1	1
No. of vertical modules	3	4	3	4	4	5	4	5
Mounting plates	LVS03413	LVS03414	LVS03413	LVS03414	LVS03453 (2)	LVS03454 (2)	LVS03453 (2)	LVS03454 (2)
Front plates with cut-out	LVS03604 (3)	LVS03606 (3)	LVS03604 (3)	LVS03606 (3)	LVS03643	LVS03644	LVS03643	LVS03644
Collar	-	-	LV429285	LV429285	-	-	LV429285	LV429285

## Connection Upstream from lateral busbars

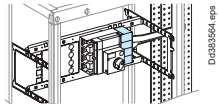
Plug-in devices	NSX / NSX Vigi (ELCB) / Vigi NSX 100/160/250		NSX / NSX Vigi (ELCB) / Vigi NSX 400/630	
	3P	4P	3P	4P

### Linery LGY



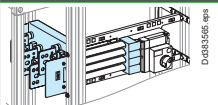
Connection	LVS04427 (4)	LVS04428 (4)	must be made with insulated flexible bars > page G-20 (5)	
Short terminal shields	LV429515	LV429516	LV432591	LV432592
Long terminal shields	-	-	LV432593	LV432594
Connection adapter for plug-in base	LV429306	LV429307	LV432584	LV432585

### Linery BS, LGYE



Connection	must be made with insulated flexible bars > page G-20.			
Short terminal shields	LV429515	LV429516	LV432591	LV432592
Long terminal shields	LV429517	LV429518	LV432593	LV432594
Connection adapter for plug-in base	LV429306	LV429307	LV432584	LV432585

## Connection Downstream distribution



Plug-in devices	NSX / NSX Vigi (ELCB) / Vigi NSX 100/160/250		NSX / NSX Vigi (ELCB) / Vigi NSX 400/630		
	3P	4P	3P	4P	
Front connection	long terminal shields	LV429517	LV429518	LV432593	LV432594
	short terminal shields	LV429515	LV429516	LV432591	LV432592
	connection adapter for plug-in base	LV429306	LV429307	LV432584	LV432585
Connection transfer assembly	connection	LVS04429 (6)	LVS04430 (6)	LVS04459 (6)	LVS04460 (6)
	long terminal shields	LV429517	LV429518	LV432593	LV432594
	short terminal shields	LV429515	LV429516	LV432591	LV432592
Rear connection	short terminal shields	2 x LV429515	2 x LV429516	2 x LV432591	2 x LV432592
	short rear connectors	LV429235	-	LV432475	-
	long rear connectors	LV429236	-	LV432476	-
	connection adapter for plug-in base	LV429306	LV429307	LV432584	LV432585
	connection adapter for plug-in base	-	-	-	-

(1) Metering and signaling features (ammeter...) can be added. Mounted on a ComPacT NSX, it has the same size than a ComPacT Vigi NSX. Refer to the corresponding column.

(2) Catalog number LVS03460 is recommended when installing an NSX with a motor mechanism.

(3) Compatible with FDM121.

(4) Compatible with Linery LGYE vertical busbar.

(5) To be made according to the busbar drawings supplied by Schneider Electric.

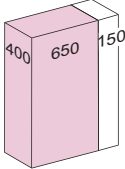
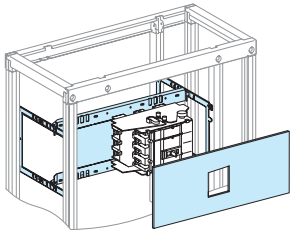

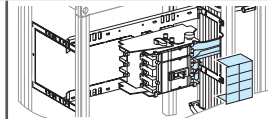


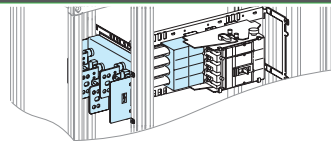
(6) Complete the connection with insulated flexible bars (not supplied).

# ComPacT, ComPacT Vigi (ELCB) and VigiComPacT NSX 100 to 630

Horizontal mounting

All controls - Withdrawable

Circuit breakers

Mounting		Horizontal withdrawable			
					
Devices		All controls NSX / NSX Vigi (ELCB) 100/160/250 (1)	Vigi NSX 100/160/250	NSX / NSX Vigi (ELCB) 400/630 (1)	Vigi NSX 400/630
Number of devices per row		1	1	1	1
No. of vertical modules (1)		5	5	6	6
Mounting plates		LVS03415	LVS03415	LVS03462 (2)	LVS03462 (2)
Front plates with cut-out		LVS03618	LVS03618	LVS03657	LVS03657
Collar		LV429284	LV429285	LV432534	LV429285
Locking kit (3)		LV429286	LV429286	LV429286 (4)	LV429286 (4)
Connection		Upstream from lateral busbars			
Withdrawable devices		NSX / NSX Vigi (ELCB) / Vigi NSX 100/160/250		NSX / NSX Vigi (ELCB) / Vigi NSX 400/630	
Linery LGY		3P	4P	3P	4P
					
Prefabricated connection for toggle		LVS04431	LVS04432	LVS04461	LVS04462
Prefabricated connection for rotary handle & motor mechanism		LVS04427 (5)	LVS04428 (5)	must be made with insulated flexible bars > page G-20 (6).	
Connection adapter for plug-in base		-	-	LV432584 (7)	LV432585 (7)
Short terminal shields		LV429515	LV429516	LV432591	LV432592
Long terminal shields		-	-	LV432593 (7)	LV432594 (7)
Linery BS, LGYE					
Connection		must be made with insulated flexible bars > page G-20.			
Connection adapter for plug-in base		LV429306	LV429307	LV432584 (7)	LV432585 (7)
Short terminal shields		LV429515	LV429516	LV432591	LV432592
Long terminal shields		LV429517	LV429518	LV432593 (7)	LV432594 (7)
Connection		Downstream distribution			
					
Withdrawable devices		NSX / NSX Vigi (ELCB) / Vigi NSX 100/160/250		NSX / NSX Vigi (ELCB) / Vigi NSX 400/630	
		3P	4P	3P	4P
Front connection		connection adapter for plug-in base LV429306	LV429307	LV432584	LV432585
		long terminal shields LV429517	LV429518	LV432593	LV432594
		short terminal shields LV429515	LV429516	LV432591	LV432592
Connection transfer assembly		LVS04429 (8)	LVS04430 (8)	LVS04459 (8)	LVS04460 (8)
		connection adapter for plug-in base LV429306	LV429307	LV432584	LV432585
		long terminal shields LV429517	LV429518	LV432593	LV432594
		short terminal shields LV429515	LV429516	LV432591	LV432592
Rear connection		short terminal shields 2 x LV429515	2 x LV429516	2 x LV432591	2 x LV432592
		short rear connectors LV429235	LV429235	LV432475	LV432475
		long rear connectors LV429236	LV429236	LV432476	LV432476
		connection adapter for plug-in base LV429306	LV429307	LV432584	LV432585

(1) Metering and signaling features (ammeter...) can be added. Mounted on a ComPacT NSX, it has the same size than a ComPacT Vigi NSX. Refer to the corresponding column.

(1) Catalog number LVS03460 is recommended when installing an NSX with a motor mechanism.

(3) If mounting several above one another chassis + form 3b + chassis locking kit LV429286, the number of vertical modules must be increased by 2 ; it is necessary to add a 2 modules front plate LVS03802.

(4) Not compatible with NSX630.

(5) Compatible with Linergy LGYE vertical busbar.

(6) To be made according to the busbar drawings supplied by Schneider Electric.

(7) Only for Rotary handle and motor mechanism.

(8) Complete the connection with insulated flexible bars (not supplied).

# ComPacT, ComPacT Vigi (ELCB) and VigiComPacT NSX 400/630

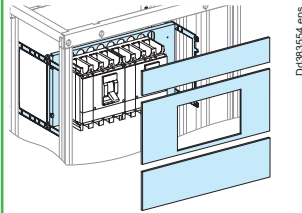
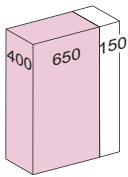
Vertical mounting

Toggle - Fixed



Designed for PowerTag NSX  
Circuit breakers

## Mounting Vertical fixed



Doc838354.eps

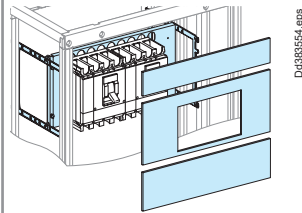
Devices	Toggle							
	NSX / NSX Vigi (ELCB) 400 (1)		Vigi NSX 400		NSX / NSX Vigi (ELCB) 630 (1)		Vigi NSX 630	
Number of devices per row	1	2	1	2	1	2	1	2
PowerTag NSX compatibility	↯		↯		↯		↯	
No. of vertical modules	11 or 13		13 or 15		13 or 15		15 or 17	
Mounting plates	LVS03461		LVS03461		LVS03461		LVS03461	
Front plates [No. of vertical modules]	upstream	LVS03801 [1]	LVS03802 [2]	-	LVS03802 [2]	LVS03802 [2]	LVS03803 [3]	LVS03801 [1] LVS03803 [3]
	with cut-out	LVS03275 [9]	LVS03663 [7]	LVS03297 [11]	LVS03666 [9]	LVS03275 [9]	LVS03663 [7]	LVS03297 [11] LVS03666 [9]
	downstream	LVS03801 [1]	LVS03802 [2]	LVS03802 [2]	LVS03802 [2]	LVS03802 [2]	LVS03803 [3]	LVS03803 [3] LVS03803 [3]
	downstream with PowerTag NSX	LVS03803 [3]	LVS03804 [4]	LVS03804 [4]	LVS03804 [4]	LVS03804 [4]	LVS03805 [5]	LVS03805 [5] LVS03805 [5]

## Connection Upstream from lateral busbars - Linergy LGY, BS, LGYE



Fixed devices	NSX / NSX Vigi (ELCB) / Vigi NSX 400		NSX / NSX Vigi (ELCB) / Vigi NSX 630	
	3P	4P	3P	4P
Front connection	must be made with insulated flexible bars > page G-20. (2)			
long terminal shields	LV432593	LV432594	LV432593	LV432594
Rear connection	short terminal shields		LV432591 LV432592	
short rear connectors	LV432475		LV432475	
long rear connectors	LV432476		LV432476	

## Connection Downstream distribution



Doc838354.eps

Fixed devices	NSX / NSX Vigi (ELCB) / Vigi NSX 400		NSX / NSX Vigi (ELCB) / Vigi NSX 630	
	3P	4P	3P	4P
Front connection	long terminal shields		LV432593 LV432594	
Rear connection (3)	short terminal shields		LV432591 LV432592	
short rear connectors	LV432475		LV432475	
long rear connectors	LV432476		LV432476	

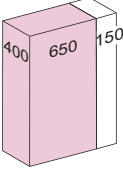
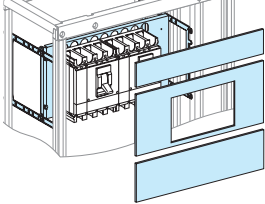


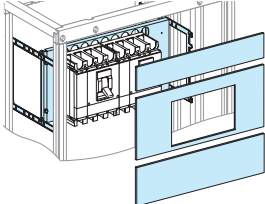
(1) Metering and signaling features (ammeter...) can be added. Mounted on a ComPacT NSX, it has the same size than a ComPacT Vigi NSX. Refer to the corresponding column.  
 (2) Connection to be made according to the busbar drawings supplied by Schneider Electric.  
 (3) Size reduced to one module downstream.

# ComPacT, ComPacT Vigi (ELCB) and VigiComPacT NSX 400/630

Vertical mounting

Toggle - Plug-in

Circuit breakers

Mounting		Vertical plug-in							
									
<b>Devices</b>		<b>Toggle</b>							
		<b>NSX / NSX Vigi (ELCB) 400 (1)</b>		<b>Vigi NSX 400</b>		<b>NSX / NSX Vigi (ELCB) 630 (1)</b>		<b>Vigi NSX 630</b>	
Number of devices per row		1	2	1	2	1	2	1	2
Mounting plates		LVS03461		LVS03461		LVS03461		LVS03461	
Front plates [No. of vertical modules]	upstream	LVS03801 [1]	LVS03802 [2]	-	LVS03802 [2]	LVS03802 [2]	LVS03803 [3]	LVS03801 [1]	LVS03803 [3]
	with cut-out	LVS03275 [9]	LVS03663 [7]	LVS03297 [11]	LVS03666 [9]	LVS03275 [9]	LVS03663 [7]	LVS03297 [11]	LVS03666 [9]
	downstream	LVS03801 [1]	LVS03802 [2]	LVS03802 [2]	LVS03802 [2]	LVS03802 [2]	LVS03803 [3]	LVS03803 [3]	LVS03803 [3]
<b>Connection</b>		<b>Upstream from lateral busbars - Linergy LGY, BS, LGE</b>							
									
<b>Plug-in devices</b>		<b>NSX / NSX Vigi (ELCB) / Vigi NSX 400</b>				<b>NSX / NSX Vigi (ELCB) / Vigi NSX 630</b>			
		<b>3P</b>		<b>4P</b>		<b>3P</b>		<b>4P</b>	
Front connection		must be made with insulated flexible bars > page G-20.(2)							
long terminal shields		LV432593		LV432594		LV432593		LV432594	
short terminal shields		LV432591		LV432592		LV432591		LV432592	
connection adapter for plug-in base		LV432584		LV432585		LV432584		LV432585	
Rear connection									
short terminal shields		2 x LV432591		2 x LV432592		2 x LV432591		2 x LV432592	
short rear connectors		LV432475				LV432475			
long rear connectors		LV432476				LV432476			
connection adapter for plug-in base		LV432584		LV432585		LV432584		LV432585	
<b>Connection</b>		<b>Downstream distribution</b>							
									
<b>Plug-in devices</b>		<b>NSX / NSX Vigi (ELCB) / Vigi NSX 400</b>				<b>NSX / NSX Vigi (ELCB) / Vigi NSX 630</b>			
		<b>3P</b>		<b>4P</b>		<b>3P</b>		<b>4P</b>	
Front connection									
connection adapter for plug-in base		LV432584		LV432585		LV432584		LV432585	
short terminal shields on device		LV432591		LV432592		LV432591		LV432592	
long terminal shields on plug-in base		LV432593		LV432594		LV432593		LV432594	
Rear connection (3)									
short terminal shields		2 x LV432591		2 x LV432592		2 x LV432591		2 x LV432592	
short rear connectors		LV432475				LV432475			
long rear connectors		LV432476				LV432476			
connection adapter for plug-in base		LV432584		LV432585		LV432584		LV432585	

(1) Metering and signaling features (ammeter...) can be added. Mounted on a ComPacT NSX, it has the same size than a ComPacT Vigi NSX. Refer to the corresponding column.

(2) Connection to be made according to the busbar drawings supplied by Schneider Electric.

(3) Size reduced to one module downstream.

# ComPacT, ComPacT Vigi (ELCB) and VigiComPacT NSX 400/630

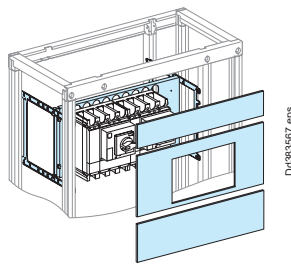
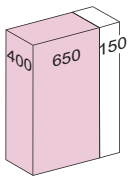
Vertical mounting

Rotary handle, motor mechanism - Fixed



Designed for PowerTag NSX  
Circuit breakers

## Mounting Vertical fixed



Devices		Rotary handle, motor mechanism							
		NSX / NSX Vigi (ELCB) 400 (1)		Vigi NSX 400 Rotary handle		NSX / NSX Vigi (ELCB) 630 (1)		Vigi NSX 630 Rotary handle	
Number of devices per row		1	2	1	2	1	2	1	2
PowerTag NSX compatibility		⊘		⊘		⊘		⊘	
No. of vertical modules		11 or 13		13 or 15		13 or 15		15 or 17	
Mounting plates		LVS03461 (2)		LVS03461		LVS03461 (2)		LVS03461	
Front plates [No. of vertical modules]	upstream	LVS03801 [1]	LVS03802 [2]	-	LVS03802 [2]	LVS03802 [2]	LVS03803 [3]	LVS03801 [1]	LVS03803 [3]
	with cut-out	LVS03275 [9]	LVS03663 [7]	LVS03297 [11]	LVS03666 [9]	LVS03275 [9]	LVS03663 [7]	LVS03297 [11]	LVS03666 [9]
	downstream	LVS03801 [1]	LVS03802 [2]	LVS03802 [2]	LVS03802 [2]	LVS03802 [2]	LVS03803 [3]	LVS03803 [3]	LVS03803 [3]
	downstream with PowerTag NSX	LVS03803 [3]	LVS03804 [4]	LVS03804 [4]	LVS03804 [4]	LVS03804 [4]	LVS03805 [5]	LVS03805 [5]	LVS03805 [5]
Collar		-		LV429285		-		LV429285	
IP40 escutcheons		-		LV429316 (3)		-		LV429316 (3)	

## Connection Upstream from lateral busbars - Linergy LGY, BS, LGYE



Fixed devices		NSX / NSX Vigi (ELCB) / Vigi NSX 400/630	
		3P	4P
Front connection		must be made with insulated flexible bars > page G-20 (4)	
	long terminal shields	LV432593	LV432594
Rear connection	short terminal shields	LV432591 (5)	LV432592 (5)
	short rear connectors	LV432475	
	long rear connectors	LV432476	

## Connection Downstream distribution



Fixed devices		NSX / NSX Vigi (ELCB) / Vigi NSX 400/630	
		3P	4P
Front connection	long terminal shields	LV432593	LV432594
	short terminal shields	LV432591	LV432592
Rear connection (4)	short rear connectors	LV432475	
	long rear connectors	LV432476	

(1) Metering and signaling features (ammeter...) can be added. Mounted on a ComPacT NSX, it has the same size than a ComPacT Vigi NSX. Refer to the corresponding column.

(2) Catalog number LVS03460 is recommended when installing an NSX with a motor mechanism.

(3) For ammeter, take LV429285 + LV429318 Catalog numbers.

(4) Connection to be made according to the busbar drawings supplied by Schneider Electric.

(5) Size reduced to one module downstream.

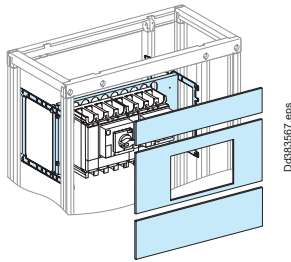
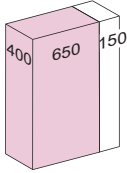
# ComPacT, ComPacT Vigi (ELCB) and VigiComPacT NSX 400/630

Vertical mounting

Rotary handle, motor mechanism - Plug-in

Circuit breakers

## Mounting Vertical plug-in



Devices	Rotary handle, motor mechanism								
	NSX / NSX Vigi (ELCB) 400 (1)		Vigi NSX400 Rotary handle		NSX / NSX Vigi (ELCB) 630 (1)		Vigi NSX630 Rotary handle		
Number of devices per row	1	2	1	2	1	2	1	2	
No. of vertical modules	11		13		13		15		
Mounting plates	LVS03461 (2)		LVS03461		LVS03461 (2)		LVS03461		
Front plates [No. of vertical modules]	upstream	LVS03801 [1]	LVS03802 [2]	-	LVS03802 [2]	LVS03802 [2]	LVS03803 [3]	LVS03801 [1]	LVS03803 [3]
	with cut-out	LVS03275 [9]	LVS03663 [7]	LVS03297 [11]	LVS03666 [9]	LVS03275 [9]	LVS03663 [7]	LVS03297 [11]	LVS03666 [9]
	downstream	LVS03801 [1]	LVS03802 [2]	LVS03802 [2]	LVS03802 [2]	LVS03802 [2]	LVS03803 [3]	LVS03803 [3]	LVS03803 [3]
Collar	-		LV429285		-		LV429285		
IP40 front-panel escutcheons	-		LV429316 (3)		-		LV429316 (3)		

## Connection Upstream from lateral busbars - Linergy LGY, BS, LGYE



Plug-in devices		NSX / NSX Vigi (ELCB) / Vigi NSX 400/630	
		3P	4P
Front connection	connection	must be made with insulated flexible bars > page G-20 (4)	
	long terminal shields	LV432593	LV432594
	short terminal shields	LV432591	LV432592
	connection adapter for plug-in base	LV432584	LV432585
Rear connection	short terminal shields	2 x LV432591 (5)	2 x LV432592 (5)
	short rear connectors	LV432475	
	long rear connectors	LV432476	
	connection adapter for plug-in base	LV432584	LV432585

## Connection Downstream distribution



Plug-in devices		NSX / NSX Vigi (ELCB) / Vigi NSX 400/630	
		3P	4P
Front connection	long terminal shields	LV432593	LV432594
	short terminal shields	LV432591	LV432592
	connection adapter for plug-in base	LV432584	LV432585
Rear connection (5)	short terminal shields	2 x LV432591	2 x LV432592
	short rear connectors	LV432475	
	long rear connectors	LV432476	
	connection adapter for plug-in base	LV432584	LV432585

(1) Metering and signaling features (ammeter...) can be added. Mounted on a ComPacT NSX, it has the same size than a ComPacT Vigi NSX. Refer to the corresponding column.

(2) Catalog number LVS03460 is recommended when installing an NSX with a motor mechanism.

(3) For ammeter, take LV429285 + LV429318 Catalog numbers.

(4) Connection to be made according to the busbar drawings supplied by Schneider Electric.

(5) Size reduced to one module downstream.

# ComPacT, ComPacT Vigi (ELCB) and VigiComPacT NSX 100 to 630

Vertical mounting

All controls - Withdrawable

Circuit breakers

Mounting		Vertical withdrawable							
Devices		All controls							
		NSX / NSX Vigi (ELCB) (1)							
		100/160	250	400	400 toggle	400 rotary handle + motor mechan.	630	630 toggle	630 rotary handle + motor mechan.
Number of devices per row		2	2	2	1	1	2	1	1
No. of vertical modules		8	9	11	11	11	13	13	13
Mounting plates		LVS03421	LVS03421	LVS03461 (2)	LVS03461	LVS03461 (2)	LVS03461 (2)	LVS03461	LVS03461 (2)
Front plates [No. of vertical modules]	upstream	LVS03802 [2]	LVS03802 [2]	LVS03802 [2]	LVS03801 [1]	LVS03801 [1]	LVS03803 [3]	LVS03802 [2]	LVS03802 [2]
	with cut-out	LVS03243 [5]	LVS03243 [5]	LVS03663 [7]	LVS03275 [9]	LVS03275 [9]	LVS03663 [7]	LVS03275 [9]	LVS03275 [9]
	downstream	LVS03801 [1]	LVS03802 [2]	LVS03802 [2]	LVS03801 [1]	LVS03801 [1]	LVS03803 [3]	LVS03802 [2]	LVS03802 [2]
Collar		LV429284 (3)	LV429284 (3)	LV432534 (3)	LV432534	-	LV432534 (3)	LV432534	-

Mounting		Vertical withdrawable							
Devices		All controls							
		Vigi NSX		Vigi NSX 400		Vigi NSX 400		Vigi NSX 630	
		100/160	250	toggle	rotary handle + motor mechanism	toggle	rotary handle + motor mechanism	toggle	rotary handle + motor mechanism
Number of devices per row		2	2	1	2	1	2	1	2
No. of vertical modules		10	11	13	13	15	15	15	15
Mounting plates		LVS03421	LVS03421	LVS03461	LVS03461	LVS03461	LVS03461	LVS03461	LVS03461
Front plates [No. of vertical modules]	upstream	LVS03802 [2]	LVS03802 [2]	-	LVS03802 [2]	-	LVS03802 [2]	LVS03801 [1]	LVS03803 [3]
	with cut-out	LVS03244 [7]	LVS03244 [7]	LVS03297 [11]	LVS03666 [9]	LVS03297 [11]	LVS03666 [9]	LVS03297 [11]	LVS03666 [9]
	downstream	LVS03801 [1]	LVS03802 [2]	LVS03802 [2]	LVS03802 [2]	LVS03802 [2]	LVS03802 [2]	LVS03803 [3]	LVS03803 [3]
Collar		LV429285 + LV429284 (3)	LV429285 + LV429284 (3)	LV429285 + LV432534 (3)	LV429285	LV429285	LV429285 + LV432534	LV429285	LV429285

Connection		Upstream from lateral busbars - Linergy LGY, BS, LGYE			
Withdrawable devices		NSX / NSX Vigi (ELCB) / Vigi NSX 100/160/250		NSX / NSX Vigi (ELCB) / Vigi NSX 400/630	
		3P	4P	3P	4P
Front conn.	connection	must be made with insulated flexible bars > page G-20.			
	long terminal shields	LV429517	LV429518	LV432593	LV432594
	short terminal shields	LV429515	LV429516	LV432591	LV432592
	connection adapter for plug-in base	LV429306	LV429307	LV432584	LV432585
Rear conn.	short terminal shields	2 x LV429515	2 x LV429516	2 x LV432591	2 x LV432592
	short rear connectors	LV429235	LV429235	LV432475	LV432475
	long rear connectors	LV429236	LV429236	LV432476	LV432476
	connection adapter for plug-in base	LV429306	LV429307	LV432584	LV432585

Connection		Downstream distribution			
Withdrawable devices		NSX / NSX Vigi (ELCB) / Vigi NSX 100/160/250		NSX / NSX Vigi (ELCB) / Vigi NSX 400/630	
		3P	4P	3P	4P
Front conn.	connection adapter for plug-in base	LV429306	LV429307	LV432584	LV432585
	short on device	LV429515	LV429516	LV432591	LV432592
	terminal on plug-in base	LV429517	LV429518	LV432593	LV432594
Rear conn.	short terminal shields	2 x LV429515	2 x LV429516	2 x LV432591	2 x LV432592
	short rear connectors	LV429235	LV429235	LV432475	LV432475
	long rear connectors	LV429236	LV429236	LV432476	LV432476
	connection adapter for plug-in base	LV429306	LV429307	LV432584	LV432585

(1) Metering and signaling features (ammeter...) can be added. Mounted on a ComPacT NSX, it has the same size than a ComPacT Vigi NSX. Refer to the corresponding column.

(2) Catalog number LVS03460 is recommended when installing an NSX with a motor mechanism.

(3) For devices with toggle only.

Version : 14 - 15/12/2023  
160E5300

# ComPacT, ComPacT Vigi (ELCB) and VigiComPacT NSX 100 to 630

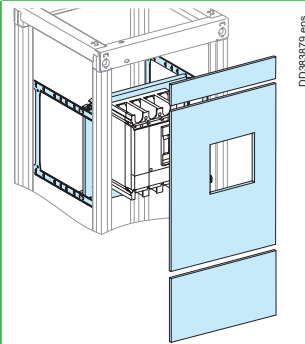
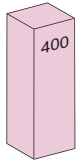
Vertical mounting - W = 400 mm

All controls - Fixed, plug-in



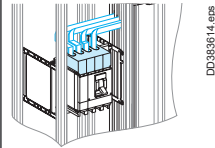
Designed for PowerTag NSX  
Circuit breakers

## Mounting Device vertical, front connection



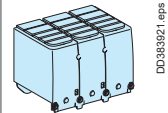
Devices	Fixed		Fixed	Fixed / Plug-in (1)		Fixed / Plug-in (1)
	NSX / NSX Vigi (ELCB) 100/250 (2)		Vigi NSX 100/250	NSX / NSX Vigi (ELCB) 400/630 (2)		Vigi NSX 400/630
	Toggle	Rotary handle Motor mechanism	Toggle	Toggle, Rotary handle Motor mechanism		Toggle
Number of devices per row	1	1	1	1	1	1
PowerTag NSX compatibility	~)	~)	~)	~) (1)	~) (1)	~) (1)
No. of vertical modules	9 or 10	9 or 10	11 or 12	12 or 14	14 or 16	14 or 16
Mounting plates	LVS03050	LVS03051	LVS03050	LVS03487		LVS03487
Adapter PrismaSeT G	LVS03596	LVS03596	LVS03596	-		-
Front plates with cut-out [No. of vertical modules]	LVS03253 [9]	LVS03253 [9]	LVS03293 [11]	LVS03283 [12]		LVS03299 [10]
downstream	-	-	-	-		LVS03814 [4]
downstream with PowerTag NSX	LVS03811 [1]	LVS03811 [1]	LVS03811 [1]	LVS03812 [2]		LVS03816 [6]
Collar	-	-	-	LV432534		LV432534

## Connection Upstream from lateral busbars - Linergy LGY, BS, LGYE



Devices	Fixed device				Plug-in device			
	NSX / NSX Vigi (ELCB) / Vigi NSX 100/160/250		400/630		NSX / NSX Vigi (ELCB) / Vigi NSX 100/160/250		400/630	
	3P	4P	3P	4P	3P	4P	3P	4P
Connection	must be made with insulated flexible bars > page G-20 and according to the drawings supplied by Schneider Electric.							
Front connection	connection adapter for plug-in base		-	-	LV429306	LV429307	LV432584	LV432585
	short terminal shields		-	-	LV429515	LV429516	LV432591	LV432592
	LV429517	LV429518	LV432593	LV432594	LV429517	LV429518	LV432593	LV432594

## Connection Downstream distribution



Devices	Fixed device				Plug-in device			
	NSX / NSX Vigi (ELCB) / Vigi NSX 100/160/250		400/630		NSX / NSX Vigi (ELCB) / Vigi NSX 100/160/250		400/630	
	3P	4P	3P	4P	3P	4P	3P	4P
Front connection	short terminal shields		-	-	LV429515	LV429516	LV432591	LV432592
	LV429517	LV429518	LV432593	LV432594	LV429517	LV429518	LV432593	LV432594
	long terminal shields		-	-	LV429306	LV429307	LV432584	LV432585
Rear connection	short terminal shields		LV429515	LV429516	LV432591	LV432592	2 x LV429515	2 x LV429516
	LV429235	LV429235	LV432475	LV432475	LV429235	LV429235	LV432475	LV432475
	LV429236	LV429236	LV432476	LV432476	LV429236	LV429236	LV432476	LV432476
	short rear connectors		-	-	LV429306	LV429307	LV432584	LV432585
	long rear connectors		-	-	-	-	-	-
	connection adapter for plug-in base		-	-	-	-	-	-

(1) PowerTag NSX is not compatible with plug-in mounting

(2) Metering and signaling features (ammeter...) can be added. Mounted on a ComPacT NSX, it has the same size than a ComPacT Vigi NSX. Refer to the corresponding column.

# ComPacT, ComPacT Vigi (ELCB) and VigiComPacT NSX 100/160/250

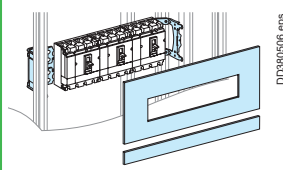
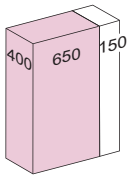
Vertical mounting

Toggle - Fixed



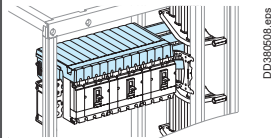
Designed for PowerTag NSX  
Circuit breakers

## Mounting Vertical fixed



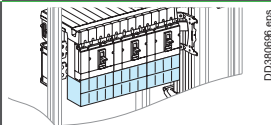
Devices	Toggle			
	NSX/ NSX Vigi (ELCB) 100/160 (1)	Vigi NSX 100/160	NSX/ NSX Vigi (ELCB) 250 (1)	Vigi NSX 250
Number of devices per row	3 x 4P or 4 x 3P	3 x 4P or 4 x 3P	3 x 4P or 4 x 3P	3 x 4P or 4 x 3P
PowerTag NSX compatibility	⌚	⌚	⌚	⌚
No. of vertical modules	6 or 7	8	7 or 8	9
Mounting plates	LVS03420	LVS03420	LVS03420	LVS03420
Front plates with cut-out	LVS03243 [5]	LVS03241 [7]	LVS03243 [5]	LVS03241 [7]
[No. of vertical modules]	downstream	LVS03801 [1]	LVS03802 [2]	LVS03802 [2]
	downstream with PowerTag NSX	LVS03802 [2]	LVS03802 [2]	LVS03803 [3]

## Connection Upstream from lateral busbars



Fixed devices	NSX / NSX Vigi (ELCB) / Vigi NSX100/160/250		
	3P	4P	
<b>Linery FC connection to busbars</b>			
Linery LGY	Linery FC distribution blocks (with connection)	LVS04403	LVS04404
Linery BS, LGYE	Linery FC distribution blocks (without connection) (2)	LVS04407	LVS04408
<b>Other connections to busbars</b>			
Front connection with cable (3)	long terminal shields	LV429517	LV429518
Rear connection with cable	short terminal shields	LV429515	LV429516
	short rear connectors	LV429235	
	long rear connectors	LV429236	
<b>Accessories</b>			
Linery FC tooth-caps	LVS04809		
Divisible blanking plate	LVS03249		
Divisible blanking plate + electronic trip unit	LVS03222		

## Connection Downstream distribution



Fixed devices	NSX / NSX Vigi (ELCB) / Vigi NSX 100/160/250		
	3P	4P	
Front connection	long terminal shields	LV429517	LV429518
Rear connection (4)	short terminal shields	LV429515	LV429516
	short rear connectors	LV429235	
	long rear connectors	LV429236	

(1) Metering and signaling features (ammeter...) can be added. Mounted on a ComPacT NSX, it has the same size than a ComPacT Vigi NSX. Refer to the corresponding column.

(2) Flexible bars on Linery LGYE to be made according drawings supplied by Schneider Electric.

(3) For the ComPacT NSX100/250, the number of modules indicated is for supply via a Linery FC distribution block.

For supply via cables, two additional modules are required; add an upstream plain front plate (LVS03802).

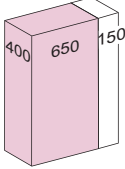
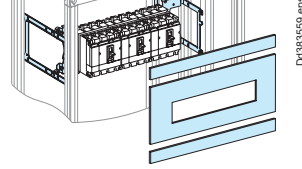
(4) Size reduced to one module downstream.



# ComPacT, ComPacT Vigi (ELCB) and VigiComPacT NSX 100/160/250



Vertical mounting

Toggle - Plug-in

Circuit breakers

Mounting		Vertical plug-in							
									
Devices		Toggle							
		NSX / NSX Vigi (ELCB) 100/160 (1)		Vigi NSX 100/160		NSX / NSX Vigi (ELCB) 250 (1)		Vigi NSX 250	
Number of devices per row		3 x 4P or 4 x 3P		3 x 4P or 4 x 3P		3 x 4P or 4 x 3P		3 x 4P or 4 x 3P	
No. of vertical modules		9	7	11	9	10	8	12	10
Mounting plates		LVS03421 (2)	LVS03423 (3)	LVS03421 (2)	LVS03423 (3)	LVS03421 (2)	LVS03423 (3)	LVS03421 (2)	LVS03423 (3)
Front plates [No. of vertical modules]	upstream	LVS03801 [1] + LVS03802 [2]	LVS03801 [1]	LVS03801 [1] + LVS03802 [2]	LVS03801 [1]	LVS03801 [1] + LVS03802 [2]	LVS03801 [1]	LVS03801 [1] + LVS03802 [2]	LVS03801 [1]
	with cut-out	LVS03243 [5]	LVS03243 [5]	LVS03241 [7]	LVS03241 [7]	LVS03243 [5]	LVS03243 [5]	LVS03241 [7]	LVS03241 [7]
	downstream	LVS03801 [1]	LVS03801 [1]	LVS03801 [1]	LVS03801 [1]	LVS03802 [2]	LVS03802 [2]	LVS03802 [2]	LVS03802 [2]

Connection		Upstream from lateral busbars	
			
Plug-in devices		NSX / NSX Vigi (ELCB) / Vigi NSX 100/160/250	
		3P	4P
Linergy FC connection to busbars			
Linergy LGY	Linergy FC distribution blocks (with connection)	LVS04405 (4)	LVS04406 (4)
	Connection adapter for plug-in base	LV429306	LV429307
Linergy BS, LGYE	Linergy FC distribution blocks (without connection) (5)	LVS04407	LVS04408
	Connection adapter for plug-in base	LV429306	LV429307
Connection to lateral busbars with insulated flexible bars			
Front connection	connection	must be made with insulated flexible bars > page G-20.	
	long terminal shields	LV429517	LV429518
	short terminal shields	LV429515	LV429516
Rear connection	connection adapter for plug-in base	LV429306	LV429307
	short terminal shields	2 x LV429515	2 x LV429516
	short rear connectors	LV429235	
	long rear connectors	LV429236	
	connection adapter for plug-in base	LV429306	LV429307
Accessories			
Linergy FC tooth-caps		LVS04809	
Divisible blanking plate		LVS03249	
Divisible blanking plate + electronic trip unit		LVS03222	

Connection		Downstream distribution	
			
Plug-in devices		NSX100/160, Vigi NSX100/160/250	
		3P	4P
Front connection	connection adapter for plug-in base	LV429306	LV429307
	short terminal shields on device	LV429515	LV429516
	long terminal shields on plug-in base	LV429517	LV429518
Rear connection (6)	short terminal shields	2 x LV429515	2 x LV429516
	short rear connectors	LV429235	
	long rear connectors	LV429236	
	connection adapter for plug-in base	LV429306	LV429307

(1) Metering and signaling features (ammeter...) can be added. Mounted on a ComPacT NSX, it has the same size than a ComPacT Vigi NSX. Refer to the corresponding column.

(2) Not compatible with Linergy FC distribution block.

(3) Compatible with Linergy FC distribution block.

(4) Catalog number LVS04924 is recommended when installing those references.

(5) Flexible bars on Linergy LGYE to be made according drawings supplied by Schneider Electric.

(6) Size reduced to one module downstream.

# ComPacT, ComPacT Vigi (ELCB) and VigiComPacT NSX 100/160/250

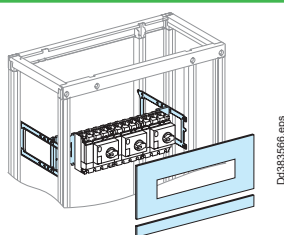
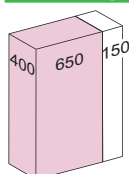


Vertical mounting

Rotary handle, motor mechanism - Fixed

Designed for PowerTag NSX  
Circuit breakers

## Mounting Vertical fixed



Devices	Rotary handle, motor mechanism			
	NSX / NSX Vigi (ELCB) 100/160 (1) LVS	Vigi NSX 100/160	NSX / NSX Vigi (ELCB) 250 (1)	Vigi NSX 250
Number of devices per row	3 x 4P or 4 x 3P	3 x 4P or 4 x 3P	3 x 4P or 4 x 3P	3 x 4P or 4 x 3P
PowerTag NSX compatibility	☺	☺	☺	☺
No. of vertical modules (2)	6 or 7	8 or 9	7 or 8	9 or 10
Mounting plates	LVS03422	LVS03422	LVS03422	LVS03422
Front plates with cut-out	LVS03243 [5]	LVS03244 [7]	LVS03243 [5]	LVS03244 [7]
plates downstream	LVS03801 [1]	LVS03801 [1]	LVS03802 [2]	LVS03802 [2]
[No. of vert. mod.] downstream with PowerTag NSX	LVS03802 [2]	LVS03802 [2]	LVS03803 [3]	LVS03803 [3]
Collar	-	LV429285	-	LV429285
IP40 front-panel escutcheons	-	LV429316 (3)	-	LV429316 (3)

## Connection Upstream from lateral busbars



Fixed devices	NSX / NSX Vigi (ELCB) / Vigi NSX100/160/250	
	3P	4P
<b>Linery FC connection to busbars</b>		
Linery LGY Linery FC distribution blocks (with connection)	LVS04405 (4)	LVS04406 (4)
Linery BS, LGYE Linery FC distribution blocks (without connection) (5)	LVS04407	LVS04408
<b>Accessories</b>		
Linery FC tooth-caps	LVS04809	
Divisible blanking plate	LVS03249	
Blanking plate fract. + electronic trip unit	LVS03222	

## Connection Downstream distribution



Fixed devices	NSX / NSX Vigi (ELCB) / Vigi NSX100/160/250	
	3P	4P
Front connection long terminal shields	LV429517	LV429518
Rear connection (6) short terminal shields	LV429515	LV429516
short rear connectors	LV429235	
long rear connectors	LV429236	

(1) Metering and signaling features (ammeter...) can be added. Mounted on a ComPacT NSX, it has the same size than a ComPacT Vigi NSX. Refer to the corresponding column.

(2) For the ComPacT NSX100/250, the number of modules indicated is for supply via a Linery FC distribution block. For supply via cables, two additional modules are required; add an upstream plain front plate (LVS03802).

(3) For ammeter, take LV429285 + LV429318 Catalog numbers.

(4) Catalog number LVS04924 is recommended when installing those references.

(5) Flexible bars on Linery LGYE to be made according drawings supplied by Schneider Electric.

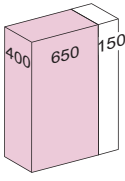
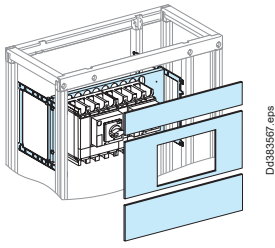


(6) Size reduced to one module downstream.

# ComPacT, ComPacT Vigi (ELCB) and VigiComPacT NSX 100/160/250

Vertical mounting

Rotary handle, motor mechanism - Plug-in

Circuit breakers

Mounting		Vertical plug-in			
					
Devices		Rotary handle, motor mechanism - plug-in			
		NSX / NSX Vigi (ELCB) (1) 100/160	Vigi NSX 100/160	NSX / NSX Vigi (ELCB) (1) 250	Vigi NSX 250
Number of devices per row		3 x 4P or 4 x 3P	3 x 4P or 4 x 3P	3 x 4P or 4 x 3P	3 x 4P or 4 x 3P
No. of vertical modules (2)		7	9	8	10
Mounting plates		LVS03421	LVS03421	LVS03421	LVS03421
Front plates [No. of vertical modules]	upstream	LVS03801 [1]	LVS03801 [1]	LVS03801 [1]	LVS03801 [1]
	with cut-out	LVS03243 [5]	LVS03244 [7]	LVS03243 [5]	LVS03244 [7]
	downstream	LVS03801 [1]	LVS03801 [1]	LVS03802 [2]	LVS03802 [2]
Collar		-	LV429285	-	LV429285
IP40 escutcheons		-	LV429316 (3)	-	LV429316 (3)
Connection		Upstream from lateral busbars			
					
Plug-in devices		NSX / NSX Vigi (ELCB) / Vigi NSX100/160/250 3P		4P	
Linergy FC connection to busbars					
Linergy LGY	Linergy FC distribution blocks (with connection)	LVS04405 (4)	LVS04406 (4)		
	Connection adapter for plug-in base	LV429306	LV429307		
Linergy BS, LGYE	Linergy FC distribution blocks (without connection) (5)	LVS04407	LVS04408		
	Connection adapter for plug-in base	LV429306	LV429307		
Accessories					
Linergy FC tooth-caps		LVS04809			
Divisible blanking plate		LVS03249			
Blanking plate fract. + electronic trip unit		LVS03222			
Connection		Downstream distribution			
					
Plug-in devices		NSX / NSX Vigi (ELCB) / Vigi NSX100/160/250 3P		4P	
Front connection	long terminal shields	LV429517	LV429518		
	short terminal shields	LV429515	LV429516		
	connection adapter for plug-in base	LV429306	LV429307		
Rear connection (6)	short terminal shields	2 x LV429515	2 x LV429516		
	short rear connectors	LV429235			
	long rear connectors	LV429236			
	connection adapter for plug-in base	LV429306	LV429307		

(1) Metering and signaling features (ammeter...) can be added. Mounted on a ComPacT NSX, it has the same size than a ComPacT Vigi NSX. Refer to the corresponding column.

(2) For the ComPacT NSX100/250, the number of modules indicated is for supply via a Linergy FC distribution block.

For supply via cables, two additional modules are required; add an upstream plain front plate (LVS03802).

(3) For ammeter, take LV429285 + LV429318 Catalog numbers.

(4) Catalog number LVS04924 is recommended when installing those references.

(5) Flexible bars on Linergy LGYE to be made according drawings supplied by Schneider Electric.

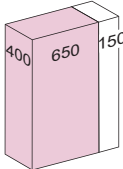
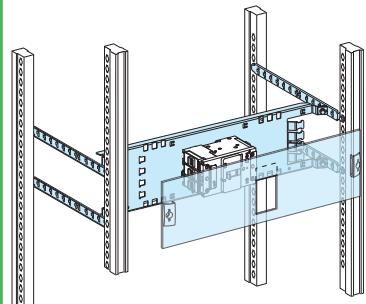
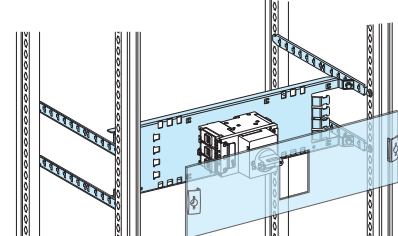

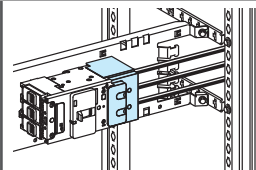
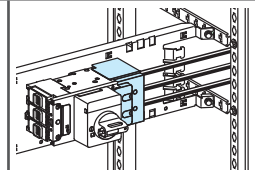

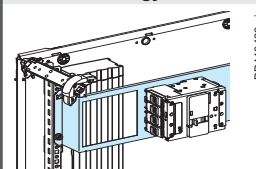
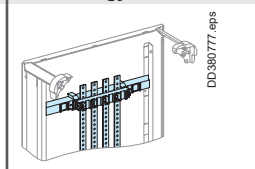

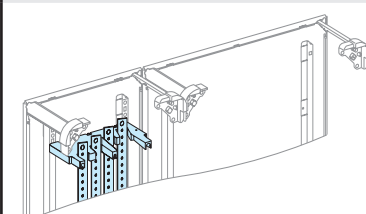
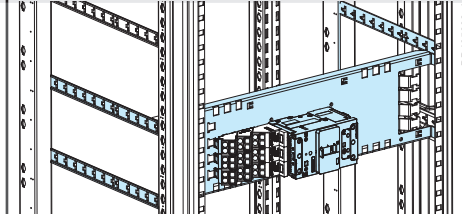
(6) Size reduced to one module downstream.

# ComPacT and ComPacT Vigi (ELCB) NSXm up to 160

Horizontal mounting

Toggle, rotary handle - Fixed

Circuit breakers

Mounting	Horizontal fixed		
	 <p style="text-align: right; font-size: small;">DD386146.ai</p>		
	 <p style="text-align: right; font-size: small;">DD386147.ai</p>		
Devices	Toggle		Direct rotary handle
	NSXm		NSXm Vigi (ELCB)
Number of devices per row	1 x 3P or 4P		1 x 3P or 4P
No. of vertical modules	3		3
Mounting plates	LVS03409		LVS03409
Front plates with cut-out <small>[No. of vertical modules]</small>	LVS03330 [3]		LVS03330 [3]
Connection	Upstream from lateral Linergy LGY, BS, LGYE busbars		
	 <p style="text-align: right; font-size: small;">DD386150.ai</p>		 <p style="text-align: right; font-size: small;">DD386151.ai</p>
	Devices	Toggle	
	NSXm, NSXm Vigi (ELCB)		NSXm
	3P		4P
Connection	Connections must be made		
Long terminal shields	LV426912	LV426913	LV426912      LV426913
Connection	Downstream distribution		
	Insulated Linergy BW busbars		Rear Linergy BS busbars
	 <p style="text-align: right; font-size: small;">DD119429.ai</p>		 <p style="text-align: right; font-size: small;">DD380777.eps</p>
Busbars	Linergy BW > <a href="#">page G-14</a>		LVS04191 + copper bars > <a href="#">page G-25</a>
Prefabricated connection	LVS04021, LVS04145, LVS04146, LVS04148		LVS04030
Connection	Downstream distribution		
	Linergy BS multi-stage busbars		Linergy DP distribution block
	 <p style="text-align: right; font-size: small;">DD380761.eps</p>		 <p style="text-align: right; font-size: small;">DD435602.ai</p>
Busbars / Distribution block	LVS04192 + copper bars > <a href="#">pages G-10, G-11</a>		LVS04038, LVS04039 > <a href="#">page G-15</a>
Prefabricated connection	Connection must be made		



# ComPacT and ComPacT Vigi (ELCB) NSXm up to 160

Vertical mounting

Toggle, rotary handle - Fixed

Circuit breakers

Mounting		Vertical fixed			
Devices		Toggle NSXm	NSXm Vigi (ELCB)	Direct rotary handle NSXm	
Number of devices per row		5 x 3P or 4 x 4P	4 x 3P or 4P	5 x 3P or 4 x 4P	
No. of vertical modules (1)		5	5	5	
Mounting plates		LVS03410	LVS03406	LVS03410	
Front plates [No. of vertical modules]	With cut-out	LVS03205 [5]	LVS03205 [5]	LVS03226 [5] - 3P LVS03227 [5] - 4P	
	Upstream	LVS03802 [2]	LVS03802 [2]	LVS03802 [2]	
	Downstream	LVS03801 [1]	LVS03801 [1]	LVS03801 [1]	
Connection		Upstream from lateral Linergy LGY, BS, LGYE busbars			
Devices		NSXm, Toggle/Direct rotary handle - with Everlink lug		NSXm Vigi (ELCB), Toggle/Direct rotary handle - with Everlink lug	
Number of poles		3P	4P	3P	4P
Number of devices per row		5 x 3P	4 x 4P	4 x 3P	4 x 4P
Linergy FC connection to busbars					
(With connection)	Linergy LGY	LVS04410	LVS04411	LVS04416	LVS04411
	Linergy BS, LGYE	LVS04412	LVS04413	LVS04417	LVS04413
(Without connection)	Linergy BS, LGYE, LGY	LVS04419	LVS04420	LVS04418	LVS04420
Mounting plates		LVS03416	LVS03416	LVS03416	LVS03416
Front plates [No. of vertical modules]	With cut-out	LVS03205 [5]	LVS03205 [5]	LVS03205 [5]	LVS03205 [5]
	Downstream	LVS03802 [2]	LVS03802 [2]	LVS03802 [2]	LVS03802 [2]
Tooth-caps [No. of tooth-caps]		LVS04810 [12]	LVS04810 [12]	LVS04810 [12]	LVS04810 [12]
Accessories					
Connection		Connections must be made		Connections must be made	
Long terminal shields		LV426912	LV426913	LV426912	LV426913
Blanking plate	Strip	LVS03220	LVS03220	LVS03220	LVS03220
	Divisible	LVS03221	LVS03221	LVS03221	LVS03221
Connection	Downstream distribution				
	Insulated Linergy BW busbars	Rear Linergy BS busbars	Linergy BS Multi-stage busbars in duct		
Busbars	Linergy BW	LVS04191 + copper bars > page G-9	LVS04192 + copper bars > pages G-10, G-11		
Connection	LVS04030, LVS04145, LVS04146, LVS04147, LVS04148	LVS04145, LVS04146 (centred device)	Must be made		


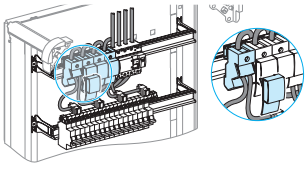
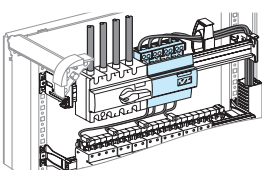
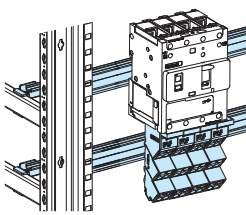
(1) For ComPacT NSXm up to 160, the number of modules indicated is for supply via a Linergy FC distribution block. For supply via cables, two additional modules are required; add an upstream plain front plate (LVS03802).

# ComPacT and ComPacT Vigi (ELCB) NSXm up to 160

Vertical mounting

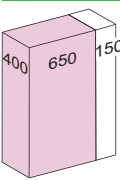
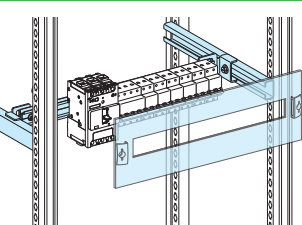
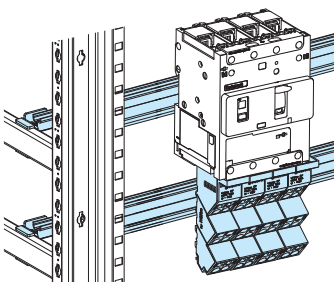
Toggle, rotary handle - Fixed

Circuit breakers

Connection	Downstream distribution			
	Distribution block Linergy DX1P, 160 A	Distribution block Linergy DX 4P, 125 A/160 A	Distribution block Linergy DP 3P/4P	
				
Distribution block	LVS04031 > page G-22	LVS04045 > page G-22	LVS04046 > page G-22	LVS04038, LVS04039 > page G-15
Connection	LVS04149	LVS04047	included	
Rail				LVS03402 (W650)

# ComPacT and ComPacT Vigi (ELCB) NSXm up to 160

Modular devices 160 A

Mounting		Modular rail	
			
<b>Devices</b>		<b>Toggle</b>	
		<b>NSXm</b>	
Number of devices per row		5 x 3P or 4 x 4P	
No. of vertical modules		5 (1)	
Rail [48 module of 9mm]		LVS03402 (adjustable) (3)	
Modular front plates		LVS03205	
Blanking plate		LVS03220	
		LVS03221	
		LVS03221	
<b>Connection</b>			
Rail		LVS03402 (W650)	

(1) With Linergy DP, the number of vertical modules will be 7.

(2) With Linergy DP, the number of vertical modules will be 8.

(3) Can be completed by a rail (cat no. LVS04226) + raiser (cat no. LVS04225) to install modular devices.

**Note:** Width of NSXm 160 circuit breaker:

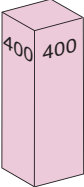
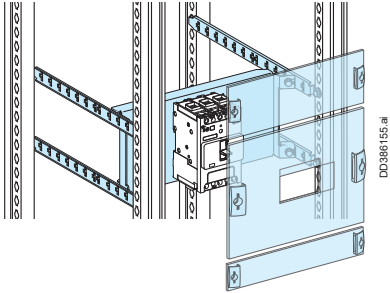
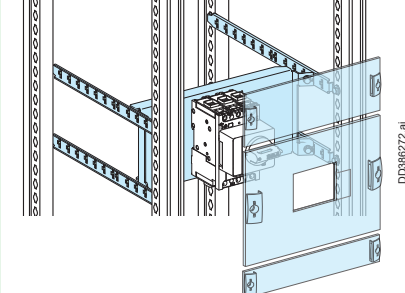
- NSXm 160 - 3P - 9 modules
- NSXm 160 - 4P - 12 modules
- NSXm VIGI 160 - 3P or 4P - 12 modules

# ComPacT and ComPacT Vigi (ELCB) NSXm up to 160

Vertical mounting - W = 400 mm

Toggle, rotary handle - Fixed

Circuit breakers

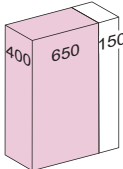
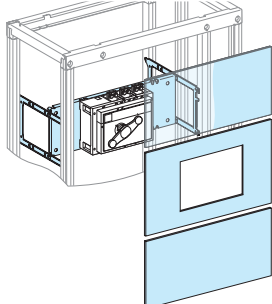
Mounting		Vertical Fixed		
				
		<b>Toggle</b>		<b>Direct rotary handle</b>
<b>Devices</b>		<b>NSXm</b>		<b>NSXm</b>
		<b>NSXm Vigi (ELCB)</b>		
Number of devices per row		1 x 3P or 4P	1 x 3P or 4P	1 x 3P or 4P
No. of vertical modules		8	8	8
Mounting plates		LVS03405	LVS03405	LVS03405
Front plates		LVS03225 [5]	LVS03225 [5]	LVS03225 [5]
[No. of vertical modules]		LVS03812 [2]	LVS03812 [2]	LVS03812 [2]
		LVS03811 [1]	LVS03811 [1]	LVS03811 [1]


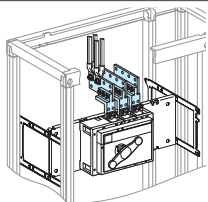
ComPacT INS-INV630b to 1600


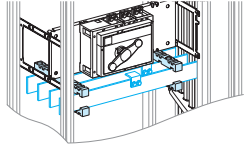
ComPacT INS-INV2000-2500

Vertical fixed mounting

Switch-disconnectors

Mounting		Vertical fixed			
					
Devices		Fixed device		INS-INV2000/2500	
		INS-INV630b/1600		3P	4P
Number of devices per row		1		1	1
No. of vertical modules		14		16	16
Mounting plates		LVS03501		LVS03501	
Front plates		upstream		LVS03804 [4]	LVS03803 [3]
[No. of vertical modules]		with cut-out		LVS03713 [6]	LVS03714 [6]
		downstream		LVS03804 [4]	LVS03803 [3]
Characteristics		Depending on the type of front connection, an INS-INV2000-2500 can be mounted in a 400 mm or 600 mm deep enclosure. For rear connection, a 600 mm deep enclosure is required.			

Connection		Upstream on incomer			
					
Fixed device		INS-INV630b/1600		INS-INV2000/2500	
		3P		3P	4P
Vertical connection adapters		31301 (1)		33975 (1)	33976 (1)
Cable-lug adapters		33644 (1)		-	-
Connection		-		must be made	
Terminal extension bar support		-		LVS04694	LVS04694

Connection		Downstream distribution via Linergy LGY, LGYE, or BS busbars			
					
Fixed device		INS-INV630b/1600		INS-INV2000/2500	
		3P		3P	4P
Connection LGY		LVS04481		-	-
Connection BS, LGYE		must be made (3)		must be made (3)	
Cover for busbars connection		LVS04926 (2)		LVS04926 (2)	
Free support		-		2 x LVS04662	

(1) Vertical connection adapters and cable-lug adapters are not compatible with input voltage  $\geq 500$  V.

(2) Partitioning of devices must be made.

(3) Connection to be made according to the busbar drawings supplied by Schneider Electric.

Selection of busbars: Linergy LGY > page G-4, Linergy LGYE > page G-5, Linergy BS > page G-6.

ComPacT INS-INV250 to 630  
Horizontal / Vertical fixed mounting



Designed for PowerTag NSX  
Switch-disconnectors

Mounting		Horizontal fixed		Vertical fixed		
<b>Devices</b>		<b>Fixed device</b>				
		<b>INS-INV250</b>	<b>INS-INV320/630</b>	<b>INS-INV250</b>	<b>INS-INV320/400</b>	<b>INS-INV500/630</b>
Number of devices per row		1	1	1	2/3	1
PowerTag NSX compatibility		⊘	⊘	⊘	⊘	⊘
No. of vertical modules		4	5	7 or 8 (1)	10 or 12	11 or 13
Mounting plates		LVS03412	LVS03452	LVS03420	LVS03461	LVS03461
Front plates upstream		-	-	LVS03801 [1]	-	LVS03801 [1]
[No. of vertical modules] with cut-out		LVS03617 [4]	LVS03658 [5]	LVS03248 [5]	LVS03620 [5]	LVS03274 [10]
downstream		-	-	LVS03801 [1]	-	-
downstream with PowerTag NSX		-	-	LVS03802 [2]	LVS03802 [2]	LVS03802 [2]
<b>Connection</b>		<b>Upstream via lateral busbars</b>				
<b>Fixed device</b>		<b>INS-INV250</b>	<b>INS-INV320/630</b>	<b>INS-INV250</b>	<b>INS-INV320/630</b>	
		3P   4P				
<b>Linery LGY</b>						
Prefabricated connection		LVS04427 (2)	LVS04428 (2)	must be made (3)	-	must be made (3)
Distribution block Linergy FC		-	-	LVS04404	-	-
Long terminal shields		-	LV432594	-	-	LV432594
<b>Linery BS, LGYE</b>						
Connection		must be made (3)		-	-	-
Linery FC distribution blocks (without connection)		-	-	LVS04408	-	must be made
Long terminal shields		LV429518	LV432594	-	-	LV432594
<b>Accessories</b>						
Linery FC tooth-caps		-	-	LVS04809	-	-
<b>Connection</b>		<b>Downstream distribution</b>				
<b>Fixed device</b>		<b>INS-INV250</b>	<b>INS-INV320/630</b>	<b>INS-INV250</b>	<b>INS-INV320/630</b>	
Front connection	long terminal shields	LV429518	LV432594	LV429518	LV432594	
Rear connection (4)	short terminal shields	LV432516	LV432592	LV432516	LV432592	
	short rear connectors	LV429235	LV432475	LV429235	LV432475	
	long rear connectors	LV429236	LV432476	LV429236	LV432476	

(1) For the ComPacT INS-INV250, the number of modules indicated is for supply via a Linergy FC distribution block.

For supply via cables, two additional modules are required; add an upstream plain front plate (LVS03802).

(2) Compatible with Linergy LGYE vertical busbar.

(3) To be made according to the busbar drawings supplied by Schneider Electric.

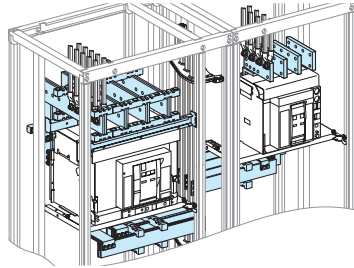
(4) For rear connection, size reduced one module; a plain downstream front plate (LVS03801) is not needed.

# Source-changeover

Possible combinations ComPacT NSX100/630, NS630b/1600, MasterPact MTZ1 06/16, MTZ2 08/32

## Source-changeover

### Manual source-changeover

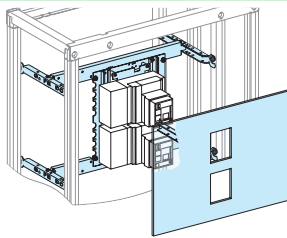


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Type of device	Type of interlocking							
	Complete assembly	Toggle	Keylock	Rotary handle	On base plate	Cable-type with 2 devices side-by-side (2)	Cable-type with 3 devices side-by-side (2)	Cable-type with 2 devices one above another
INS250 (rating 100 to 250)								
INV100 to INV250 (1)								
INS320 to INS630								
INV320 to INV630 (1)								
NSX100 to NSX250								
NSX400 to NSX630								
NS630b to NS1600								
NT06 to 16								
NW08 to 32								

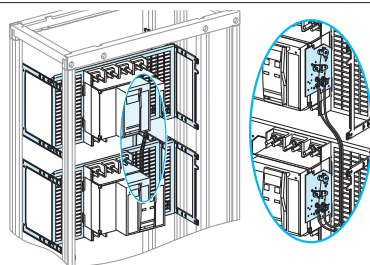
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### Remote-operated source-changeover systems - Mechanical interlocking system



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Devices "S1"	Combination of ComPacT NSX "S1" and "S2" devices				
	NSX100	NSX160	NSX250	NSX400	NSX630
NSX100 Rating 12.5...100 A					
NSX160 Rating 12.5...160 A					
NSX250 Rating 12.5...250 A					
NSX400 Rating 160...400 A					
NSX630 Rating 250...630 A					



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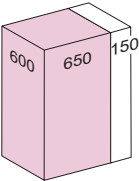
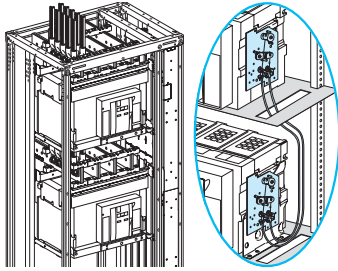


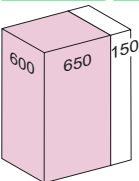
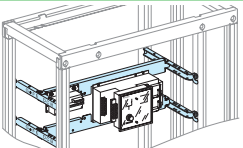
Devices "S1"	Combination of "S1" and "S2" devices, Interlocking via cables		
	NS630b to NS1600	NT06 to 16	NW08 to 40
NS630b to NS1600			
NT06 to 16			
NW08 to 40			

(1) Visible break function.  
 (2) In 2 or 3 cubicles.

Possible combinations.

Manual or remote-operated or automatic source-changeover  
 MasterPact MTZ2 08/32, front connection S1 device identical to S2 device

Source-changeover

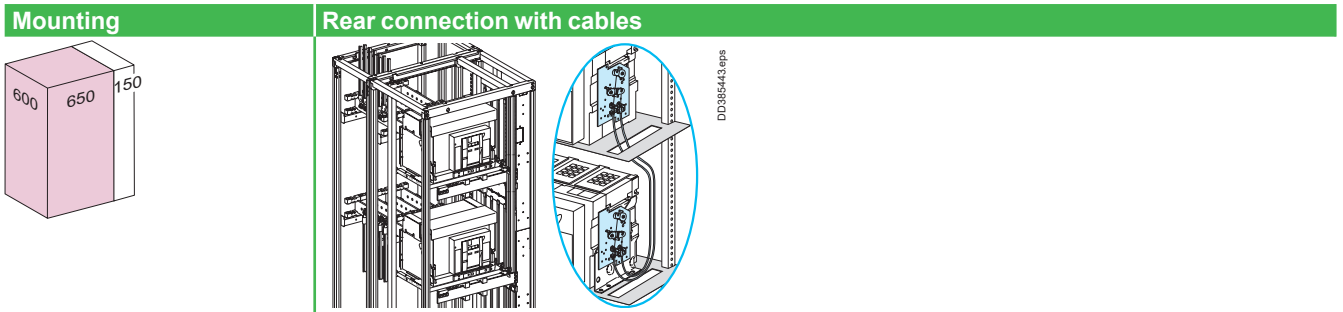
Mounting		Front connection with cables			
					
<b>Devices</b>		<b>Fixed device</b>		<b>Withdrawable device</b>	
Number of devices per row		2		2	
Number of vertical modules		31		34	
Mounting plates		LVS03500		LVS03500	
		<b>S1 device</b>			
		NW08/16		NW20/32	
Front plates [No. of vertical modules]	upstream	LVS03804 [4]		LVS03805 [5]	
	with cut-out	LVS03711 [9]		LVS03710 [10]	
	downstream	LVS03805 [5]		LVS03806 [6]	
		<b>S2 device</b>			
		NW08/16		NW20/32	
Front plates [No. of vertical modules]	upstream	-		-	
	with cut-out	LVS03711 [9]		LVS03710 [10]	
	downstream	LVS03804 [4]		LVS03805 [5]	
Connection					
					
<b>Devices</b>		<b>Fixed device</b>		<b>Withdrawable device</b>	
		<b>S1 device</b>			
		NW08/16		NW20/32	
Upstream connection		Vertical rear connections supplied with the device			
Connection		must be made (1)			
		<b>S2 device</b>			
		NW08/16		NW20/32	
Downstream connection		Vertical rear connections supplied with the device			
Connection		must be made (1)			
Distribution		Linergy LGY, LGYE or BS busbars			
		Selection of busbars: Linergy LGY > page G-4, Linergy LGYE > page G-5, Linergy BS > page G-6.			
		<b>S1 device</b>			
Upstream connection		Front connections supplied with the device			
Connection		must be made (1)			
		<b>S2 device</b>			
Downstream connection		Front connections supplied with the device			
Connection		must be made (1)			
Mounting		Controller outside the device zone			
					
<b>Devices</b>		<b>UA or BA controller</b>			
Number of devices per row		1			
Number of vertical modules		4			
Mounting plates		LVS03417			
Front plates with cut-out		LVS03671 [4]			
[No. of vertical mod.]					
Characteristics		When a UA, BA or UA150 automatic controller is added together with an ACP mounting plate, the sources can be controlled automatically according to a number of programmed operating modes.			

(1) Connection to be made according to the busbar drawings supplied by Schneider Electric.

# Manual or remote-operated or automatic source-changeover

MasterPact MTZ2 08/32, rear connection S1 device identical to S2 device

## Source-changeover



Devices		Fixed device		Withdrawable device	
Number of devices per row		2	2	2	2
Number of vertical modules		23	24	25	26
Mounting plates		LVS03500	LVS03500	LVS03500	LVS03500
<b>S1 device</b>					
Front plates [No. of vertical modules]		NW08/16	NW20/32	NW08/16	NW20/32
upstream		-	-	-	-
with cut-out		LVS03711 [9]	LVS03711 [9]	LVS03710 [10]	LVS03710 [10]
downstream		LVS03805 [5]	LVS03806 [6]	LVS03805 [5]	LVS03806 [6]
<b>S2 device</b>					
Front plates [No. of vertical modules]		NW08/16	NW20/32	NW08/16	NW20/32
upstream		-	-	-	-
with cut-out		LVS03711 [9]	LVS03711 [9]	LVS03710 [10]	LVS03710 [10]
downstream		-	-	-	-

Connection		Fixed device		Withdrawable device	
<b>S1 device</b>		NW08/16   NW20/32		NW08/16   NW20/32	
Upstream connection		Vertical rear connections supplied with the device			
Connection		must be made (1)			
<b>S2 device</b>					
Downstream connection		NW08/16   NW20/32		NW06/10   NW20/32	
Connection		Vertical rear connections supplied with the device			
Connection		must be made (1)			

Distribution		Linergy LGY, LGYE or BS busbars			
		Selection of busbars: Linergy LGY > page G-4, Linergy LGYE > page G-5, Linergy BS > page G-6.			
<b>S1 device</b>					
Upstream connection		Front connections supplied with the device			
Connection		must be made (1)			
<b>S2 device</b>					
Downstream connection		Front connections supplied with the device			
Connection		must be made (1)			

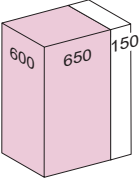
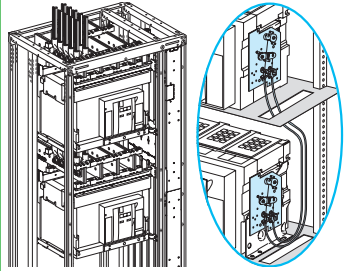


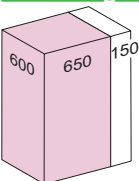
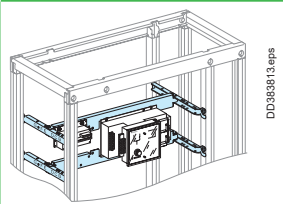
Mounting		Controller outside the device zone	
<b>Devices</b>		<b>UA or BA controller</b>	
Number of devices per row		1	
Number of vertical modules		4	
Mounting plates		LVS03417	
Front plates [No. of vertical mod.] with cut-out		LVS03671 [4]	
Characteristics		When a UA, BA or UA150 automatic controller is added together with an ACP mounting plate, the sources can be controlled automatically according to a number of programmed operating modes.	

(1) Connection to be made according to the busbar drawings supplied by Schneider Electric.

# Manual or remote-operated or automatic source-changeover

## MasterPact MTZ2 08/32, front connection S1 device different to S2 device

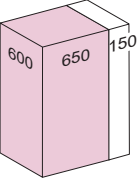
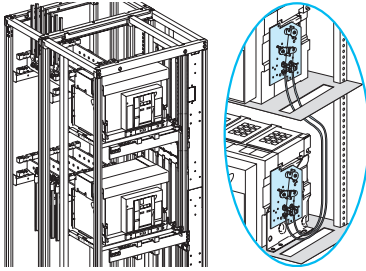
### Source-changeover

Mounting		Front connection with cables			
					
<b>Devices</b>		<b>Fixed device</b>		<b>Withdrawable device</b>	
Number of devices per row		2	2	2	2
Number of vertical modules		33	33	35	35
Mounting plates		LVS03500	LVS03500	LVS03500	LVS03500
		<b>S1 device</b>			
		<b>NW08/16</b>	<b>NW20/32</b>	<b>NW08/16</b>	<b>NW20/32</b>
Front plates [No. of vertical modules]	upstream	LVS03804 [4]	LVS03805 [5]	LVS03804 [4]	LVS03805 [5]
	with cut-out	LVS03711 [9]	LVS03711 [9]	LVS03710 [10]	LVS03710 [10]
	downstream	LVS03806 [6]	LVS03806 [6]	LVS03806 [6]	LVS03806 [6]
		<b>S2 device</b>			
		<b>NW20/32</b>	<b>NW08/16</b>	<b>NW20/32</b>	<b>NW08/16</b>
Front plates [No. of vertical modules]	upstream	-	-	-	-
	with cut-out	LVS03711 [9]	LVS03711 [9]	LVS03710 [10]	LVS03710 [10]
	downstream	LVS03805 [5]	LVS03804 [4]	LVS03805 [5]	LVS03804 [4]
Connection					
					
<b>Devices</b>		<b>Fixed device</b>		<b>Withdrawable device</b>	
		<b>S1 device</b>		<b>S2 device</b>	
		<b>NW08/16</b>	<b>NW20/32</b>	<b>NW08/16</b>	<b>NW20/32</b>
Upstream connection		Vertical rear connections supplied with the device must be made (1)			
Downstream connection		Vertical rear connections supplied with the device must be made (1)			
Distribution		Linergy LGY, LGYE or BS busbars			
		Selection of busbars: Linergy LGY > page G-4, Linergy LGYE > page G-5, Linergy BS > page G-6.			
		<b>S1 device</b>			
Upstream connection		Front connections supplied with the device must be made (1)			
		<b>S2 device</b>			
Downstream connection		Front connections supplied with the device must be made (1)			
Mounting		Controller outside the device zone			
					
<b>Devices</b>		<b>UA or BA controller</b>			
Number of devices per row		1			
Number of vertical modules		4			
Mounting plates		LVS03417			
Front plates with cut-out [No. of vertical mod.]		LVS03671 [4]			
Characteristics		When a UA, BA or UA150 automatic controller is added together with an ACP mounting plate, the sources can be controlled automatically according to a number of programmed operating modes.			


(1) Connection to be made according to the busbar drawings supplied by Schneider Electric.


Manual or remote-operated or automatic source-changeover  
MasterPact MTZ2 08/32, rear connection S1 device different to S2 device

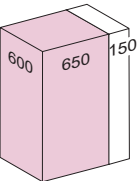
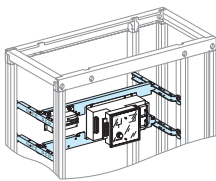
Source-changeover

Mounting		Rear connection with cables			
					

Devices		Fixed device		Withdrawable device	
Number of devices per row		2	2	2	2
Number of vertical modules		24	24	26	26
Mounting plates		LVS03500	LVS03500	LVS03500	LVS03500
<b>S1 device</b>					
		MTZ2 08/16	MTZ2 20/32	MTZ2 08/16	MTZ2 20/32
Front plates [No. of vertical modules]	upstream	-	-	-	-
	with cut-out	LVS03711 [9]	LVS03711 [9]	LVS03710 [10]	LVS03710 [10]
	downstream	LVS03806 [6]	LVS03806 [6]	LVS03806 [6]	LVS03806 [6]
<b>S2 device</b>					
		MTZ2 08/16	MTZ2 20/32	MTZ2 08/16	MTZ2 20/32
Front plates [No. of vertical modules]	upstream	-	-	-	-
	with cut-out	LVS03711 [9]	LVS03711 [9]	LVS03710 [10]	LVS03710 [10]
	downstream	-	-	-	-

Connection					
					
Devices		Fixed device		Withdrawable device	
<b>S1 device</b>					
		MTZ2 08/16	MTZ2 20/32	MTZ2 08/16	MTZ2 20/32
Upstream connection	Vertical rear connections supplied with the device				
Connection	must be made (1)				
<b>S2 device</b>					
		MTZ2 08/16	MTZ2 20/32	MTZ2 06/10	MTZ2 20/32
Downstream connection	Vertical rear connections supplied with the device				
Connection	must be made (1)				

Distribution		Linergy LGY, LGYE or BS busbars			
		Selection of busbars: Linergy LGY > page G-4, Linergy LGYE > page G-5, Linergy BS > page G-6.			
<b>S1 device</b>					
Upstream connection	Front connections supplied with the device				
Connection	must be made (1)				
<b>S2 device</b>					
Downstream connection	Front connections supplied with the device				
Connection	must be made (1)				

Mounting		Controller outside the device zone			
					
Devices		<b>UA or BA controller</b>			
Number of devices per row		1			
Number of vertical modules		4			
Mounting plates		LVS03417			
Front plates [No. of vertical mod.]		LVS03671 [4]			
Characteristics		When a UA, BA or UA150 automatic controller is added together with an ACP mounting plate, the sources can be controlled automatically according to a number of programmed operating modes.			

(1) Connection to be made according to the busbar drawings supplied by Schneider Electric.

# Manual or remote-operated or automatic source-changeover

MasterPact MTZ1 06/16, front connection S1 device identical to S2 device

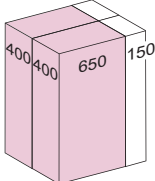
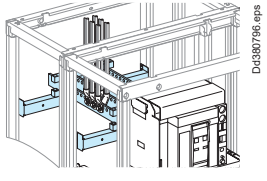


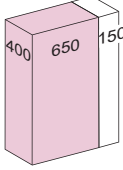
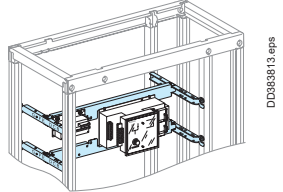
## Source-changeover

Mounting		Front connection with cables							
<b>Devices</b>		<b>Fixed device</b>				<b>Withdrawable device</b>			
Number of devices per row		2		2		2		2	
Number of vertical modules		24		28		26		30	
Mounting plates		LVS03484		LVS03484		LVS03483		LVS03483	
		<b>S1 device</b>							
		<b>MTZ1 06/10</b>		<b>MTZ1 12/16</b>		<b>MTZ1 06/10</b>		<b>MTZ1 12/16</b>	
Front plates [No. of vertical modules]	upstream	LVS03802 [2]		LVS03804 [4]		LVS03802 [2]		LVS03804 [4]	
	with cut-out	LVS03692 [7]		LVS03692 [7]		LVS03691 [8]		LVS03691 [8]	
	downstream	LVS03803 [3]		LVS03803 [3]		LVS03803 [3]		LVS03803 [3]	
		<b>S2 device</b>							
		<b>MTZ1 06/10</b>		<b>MTZ1 12/16</b>		<b>MTZ1 06/10</b>		<b>MTZ1 12/16</b>	
Front plates [No. of vertical modules]	upstream	LVS03803 [3]		LVS03803 [3]		LVS03803 [3]		LVS03803 [3]	
	with cut-out	LVS03692 [7]		LVS03692 [7]		LVS03691 [8]		LVS03691 [8]	
	downstream	LVS03802 [2]		LVS03804 [4]		LVS03802 [2]		LVS03804 [4]	
Connection									
<b>Devices</b>		<b>Fixed device</b>				<b>Withdrawable device</b>			
		<b>MTZ1 06/10</b>		<b>MTZ1 12/16</b>		<b>MTZ1 06/10</b>		<b>MTZ1 12/16</b>	
		3P   4P		3P   4P		3P   4P		3P   4P	
<b>S1 device</b>		Upstream connection   Front connections supplied with the device							
Vertical connection adapters		33642   33643		33642   33643		33642   33643		33642   33643	
<b>S2 device</b>		Downstream connection   Front connections supplied with the device							
Vertical connection adapters		33642   33643		33642   33643		33642   33643		33642   33643	
Distribution		Linergy LGY, LGYE or BS busbars							
		Selection of busbars: Linergy LGY > page G-4, Linergy LGYE > page G-5, Linergy BS > page G-6.							
<b>S1 device</b>		Upstream connection   Front connections supplied with the device							
Connection		must be made							
<b>S2 device</b>		Downstream connection   Front connections supplied with the device							
Connection		must be made							
Mounting		Outside the device zone							
<b>Devices</b>		<b>UA or BA controller</b>							
Number of devices per row		1							
Number of vertical modules		4							
Mounting plates		LVS03417							
Front plates [No. of vertical mod.]	with cut-out	LVS03671 [4]							
Characteristics		When a UA, BA or UA150 automatic controller is added together with an ACP mounting plate, the sources can be controlled automatically according to a number of programmed operating modes.							

# Manual or remote-operated or automatic source-changeover

## MasterPact MTZ1 06/16, rear connection S1 device identical to S2 device

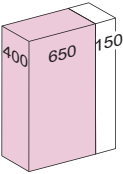
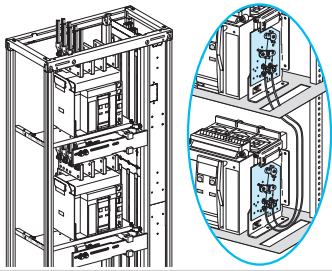


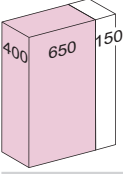
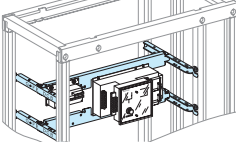
## Source-changeover

Mounting		Rear connection with cables	
			
<b>Devices</b>		<b>Fixed device</b>	<b>Withdrawable device</b>
Number of devices per row		2	2
Number of vertical modules		22	22
Mounting plates		LVS03484	LVS03483
		<b>S1 device</b>	
		<b>MTZ1 06/16</b>	<b>MTZ1 06/16</b>
Front plates [No. of vertical modules]	upstream	LVS03801 [1]	-
	with cut-out	LVS03692 [7]	LVS03691 [8]
	downstream	LVS03803 [3]	LVS03803 [3]
		<b>S2 device</b>	
		<b>MTZ1 06/16</b>	<b>MTZ1 06/16</b>
Front plates [No. of vertical modules]	upstream	LVS03803 [3]	LVS03803 [3]
	with cut-out	LVS03692 [7]	LVS03691 [8]
	downstream	LVS03801 [1]	-
Connection			
			
<b>Devices</b>		<b>Fixed device</b>	<b>Withdrawable device</b>
		<b>MTZ1 06/16</b>	<b>MTZ1 06/16</b>
		<b>S1 device</b>	
Upstream connection		Vertical rear connections supplied with the device	
Connection		must be made	
		<b>S2 device</b>	
Downstream connection		Vertical rear connections supplied with the device	
Connection		must be made	
Distribution		Linergy LGY, LGYE or BS busbars	
		Selection of busbars: Linergy LGY > page G-4, Linergy LGYE > page G-5, Linergy BS > page G-6.	
		<b>S1 device</b>	
Upstream connection		Front connections supplied with the device	
Connection		must be made	
		<b>S2 device</b>	
Downstream connection		Front connections supplied with the device	
Connection		must be made	
Mounting		Controller outside the device zone	
			
<b>Devices</b>		<b>UA or BA controller</b>	
Number of devices per row		1	
Number of vertical modules		4	
Mounting plates		LVS03417	
Front plates [No. of vertical mod.]		LVS03671 [4]	
Characteristics		When a UA, BA or UA150 automatic controller is added together with an ACP mounting plate, the sources can be controlled automatically according to a number of programmed operating modes.	

# Manual or remote-operated or automatic source-changeover

## MasterPact MTZ1 06/16, front connection S1 device different to S2 device

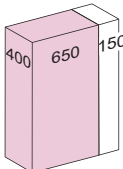
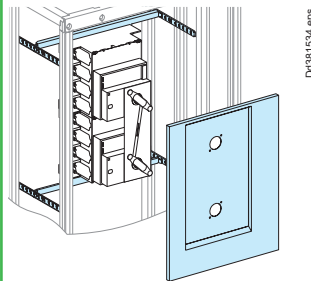

### Source-changeover

Mounting		Front connection with cables							
									
Devices		Fixed device				Withdrawable device			
Number of devices per row		2		2		2		2	
Number of vertical modules		26		26		28		28	
Mounting plates		LVS03484		LVS03484		LVS03483		LVS03483	
		S1 device							
		MTZ1 12/16		MTZ1 06/10		MTZ1 12/16		MTZ1 06/10	
Front plates [No. of vertical modules]	upstream	LVS03804 [4]		LVS03802 [2]		LVS03804 [4]		LVS03802 [2]	
	with cut-out	LVS03692 [7]		LVS03692 [7]		LVS03691 [8]		LVS03691 [8]	
		S2 device							
		MTZ1 06/10		MTZ1 12/16		MTZ1 06/10		MTZ1 12/16	
Front plates [No. of vertical modules]	upstream	LVS03803 [3]		LVS03803 [3]		LVS03803 [3]		LVS03803 [3]	
	with cut-out	LVS03692 [7]		LVS03692 [7]		LVS03691 [8]		LVS03691 [8]	
	downstream	LVS03802 [2]		LVS03804 [4]		LVS03802 [2]		LVS03804 [4]	
Connection									
									
Devices		Fixed device				Withdrawable device			
		MTZ1 06/10		MTZ1 12/16		MTZ1 06/10		MTZ1 12/16	
		3P	4P	3P	4P	3P	4P	3P	4P
S1 device									
Upstream connection		Front connections supplied with the device							
Vertical connection adapters		33642	33643	33642	33643	33642	33643	33642	33643
S2 device									
Downstream connection		Front connections supplied with the device							
Vertical connection adapters		33642	33643	33642	33643	33642	33643	33642	33643
Distribution		Linergy LGY, LGYE or BS busbars							
		Selection of busbars: Linergy LGY > page G-4, Linergy LGYE > page G-5, Linergy BS > page G-6.							
S1 device									
Upstream connection		Front connections supplied with the device							
Connection		must be made							
S2 device									
Downstream connection		Front connections supplied with the device							
Connection		must be made							
Mounting		Controller outside the device zone							
									
Devices		UA or BA controller							
Number of devices per row		1							
Number of vertical modules		4							
Mounting plates		LVS03417							
Front plates [No. of vertical mod.]		with cut-out LVS03671 [4]							
Characteristics		When a UA, BA or UA150 automatic controller is added together with an ACP mounting plate, the sources can be controlled automatically according to a number of programmed operating modes.							

# Manual or remote-operated or automatic source-changeover

ComPacT NS630b to 1000

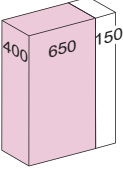
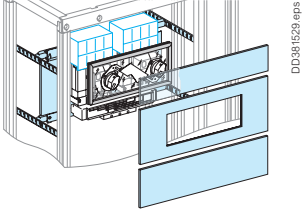
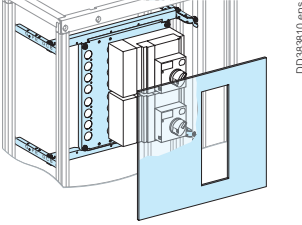

## Source-changeover

Mounting		Horizontal	
			
<b>Devices</b>		<b>NS630b/1000</b>	
		<b>3P</b>	<b>4P</b>
Number of devices per row		2	
Number of vertical modules		13	
Mounting plates		LVS03491	
Front plates		upstream -	
[No. of vertical modules]		with cut-out LVS03695 [13]	
		downstream -	
Mechanical interlock		33890	33890
Characteristics		<b>Interlocking of direct rotary handles.</b> The devices are equipped with a direct rotary handle.	
Connection		Downstream distribution	
			
<b>Type of connected devices</b>		<b>ComPacT NS630b/1000</b>	
		<b>3P</b>	<b>4P</b>
Front connection long terminal shields		33628 x 2	33629 x 2



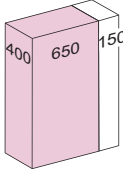
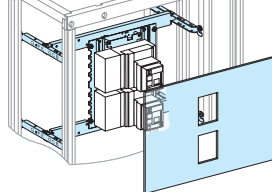
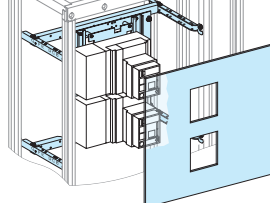
Manual source-changeover  
ComPacT NSX100/630


Source-changeover

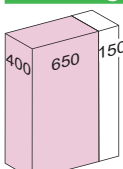
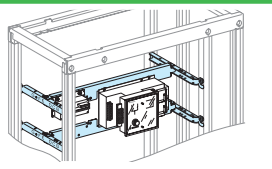
Mounting		Vertical		Horizontal	
					
Devices		NSX100/250		NSX400/630	
		3P	4P	3P	4P
Number of devices per row		2		2	
Number of vertical modules		10		10	
Mounting plates		LVS03428		LVS03458	
Front plates		LVS03802 [2]		-	
[No. of vertical modules]		with cut-out		LVS03659 [10]	
		downstream		-	
Mechanical interlock		LV429369	LV429369	LV432621	LV432621
Characteristics		<b>Interlocking of rotary handles</b> The devices are equipped with a rotary handle. They are mounted on a dedicated mounting plate.			
Connection		Downstream distribution			
		ComPacT NSX100/250		ComPacT NSX400/630	
		3P	4P	3P	4P
Front conn. long terminal shields for spreader		LV429517	LV429518	LV432593	LV432594
		-	-	LV432595	LV432596
Coupling accessory		LV429358	LV429359	LV432619	LV432620
Rear conn. short terminal shields		LV429515	LV429516	LV432591	LV432592

# Remote-operated source-changeover ComPacT NSX100/630

## Source-changeover

Mounting		Horizontal	
			
			
Devices		NSX100/250	NSX400/630
Number of devices per row		2	2
Number of vertical modules		8	10
Mounting plates		LVS03417 (1)	LVS03457 (2)
Front plates [No. of vertical mod.]	with cut-out	LVS03616 [8]	LVS03656 [10]
Characteristics	The devices are equipped with motor mechanisms.		

Connection		Downstream distribution			
					
Type of connected devices		ComPacT NSX100/250		ComPacT NSX400/630	
		3P	4P	3P	4P
Front connection	long terminal shields for spreader	LV429517	LV429518	LV432593	LV432594
Coupling accessory		LV429358	LV429359	LV432595	LV432596
Rear connection	short terminal shields	LV429515	LV429516	LV432591	LV432592

Mounting		Controller	
			
Devices		UA or BA controller	
Number of devices per row		1	
Number of vertical modules		4	
Mounting plates		LVS03417	
Front plates [No. of vertical mod.]	with cut-out	LVS03671 [4]	
Characteristics	When a UA, BA or UA150 automatic controller is added together with an ACP mounting plate, the sources can be controlled automatically according to a number of programmed operating modes.		

(1) Order mounting plate + IVE electrical interlocking unit for NSX100/250 (cat. no. **29350** for AC or **29351** for DC version).

(2) Order mounting plate + IVE electrical interlocking unit for NSX400/630 (cat. no. **32610** for AC or **32611** for DC version).

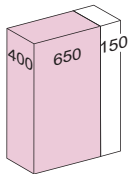
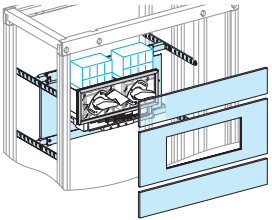
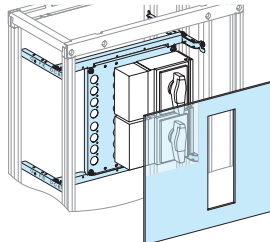
Incoming and busbar connections to be made.


# Manual source-changeover

ComPacT INS-INV250 to 630

Front direct rotary handle

Source-changeover

Mounting		Front vertical rotary handle	Front horizontal rotary handle
			
Devices		Mechanical interlocking	
		INS-INV250	INS-INV320/630
Number of devices per row		2	2
Number of vertical modules		9	10
Mounting plates		LVS03428	LVS03458
Front plates [No. of vertical modules]	upstream	LVS03802 [2]	-
	with cut-out	LVS03235 [5]	LVS03659 [10]
	downstream	LVS03802 [2]	-
Mechanical interlock		31073	31074

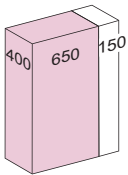
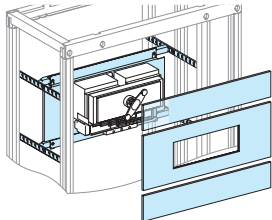
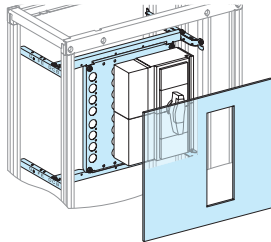
Distribution					
					
Type of connected devices		ComPacT INS-INV250		ComPacT INS-INV320/630	
		3P	4P	3P	4P
Front conn.	long terminal shields	2 x LV429518	2 x LV429518	-	-
	long terminal shields 45 mm	-	-	2 x LV432594	2 x LV432594
Coupling accessory		LV429359	LV429359	LV432620	LV432620


# Manual source-changeover

## ComPacT INS-INV250 to 630

### Complete assembly device

### Source-changeover

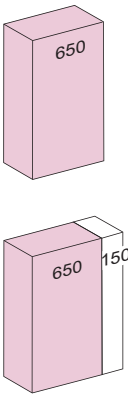
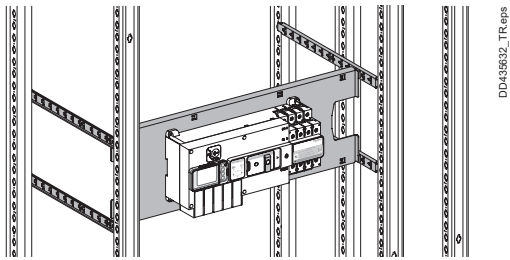
Mounting		Vertical complete assembly	Horizontal complete assembly
			
<b>Devices</b>		<b>Complete source-changeover assembly</b>	
		<b>INS-INV250</b>	<b>INS-INV320/630</b>
Number of devices per row		1	1
Number of vertical modules		<b>9</b>	<b>10</b>
Mounting plates		<b>LVS03428</b>	<b>LVS03458</b>
Front plates [No. of vertical modules]	upstream	<b>LVS03802 [2]</b>	-
	with cut-out	<b>LVS03247 [5]</b>	<b>LVS03661 [10]</b>
	downstream	<b>LVS03802 [2]</b>	-

Distribution					
					
<b>Type of connected devices</b>		<b>ComPacT INS-INV250</b>		<b>ComPacT INS-INV320/630</b>	
		<b>3P</b>	<b>4P</b>	<b>3P</b>	<b>4P</b>
Front conn.	long terminal shields	2 x <b>LV429518</b>	2 x <b>LV429518</b>	-	-
	long terminal shields 45 mm	-	-	2 x <b>LV432594</b>	2 x <b>LV432594</b>
Coupling accessory		<b>LV429359</b>	<b>LV429359</b>	<b>LV432620</b>	<b>LV432620</b>
Complete source-changeover assembly	100 A	<b>31140</b>	<b>31141</b>		
	160 A	<b>31144</b>	<b>31145</b>		
	200 A	<b>31142</b>	<b>31143</b>		
	250 A	<b>31146</b>	<b>31147</b>		
	320 A			<b>31148</b>	<b>31149</b>
	400 A			<b>31150</b>	<b>31151</b>
	500 A			<b>31152</b>	<b>31153</b>
630 A			<b>31154</b>	<b>31155</b>	

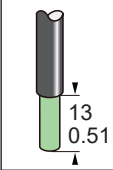
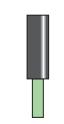

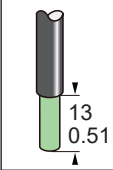
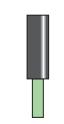

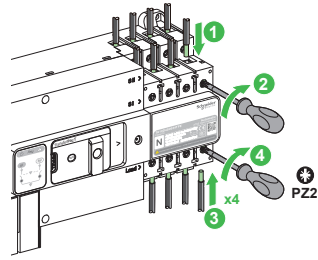
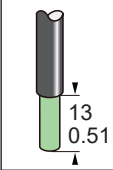
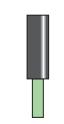

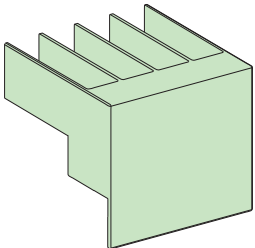


# TransferPacT Frame 100A Automatic source changeover system W650/800

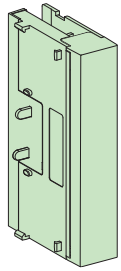
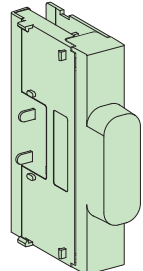
## Changeover system

Mounting	Vertical Fixed
	
<b>Devices</b>	<b>TransferPacT Automatic / Active Automatic 32A-100A 2P/3P/4P</b>
No. of devices per row	<b>1</b>
No. of vertical modules	<b>6M</b>
Mounting plate	<b>LVS03424</b>
Front plate with cut-out	<b>LVS03206</b>

### Upstream / Downstream Connections

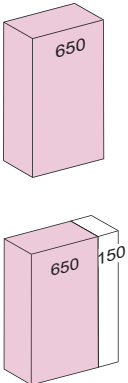
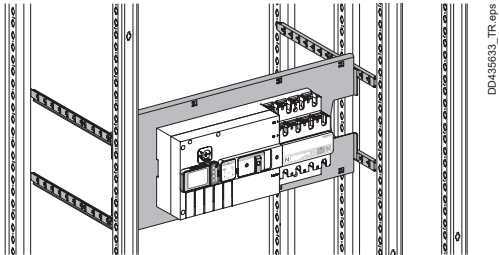
Cable	<table border="1"> <thead> <tr> <th>mm in.</th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td></td> <td>13 0.51</td> <td>1.5-35 mm<sup>2</sup> 16-2 AWG</td> <td>1-35 mm<sup>2</sup> 18-2 AWG</td> </tr> </tbody> </table>	mm in.					13 0.51	1.5-35 mm <sup>2</sup> 16-2 AWG	1-35 mm <sup>2</sup> 18-2 AWG	
mm in.										
	13 0.51	1.5-35 mm <sup>2</sup> 16-2 AWG	1-35 mm <sup>2</sup> 18-2 AWG							
Long terminal shields										
	<b>TPSISO30</b>									

### Auxiliary

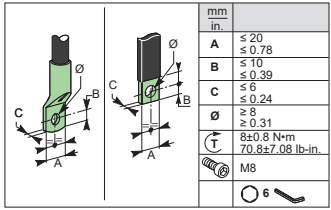
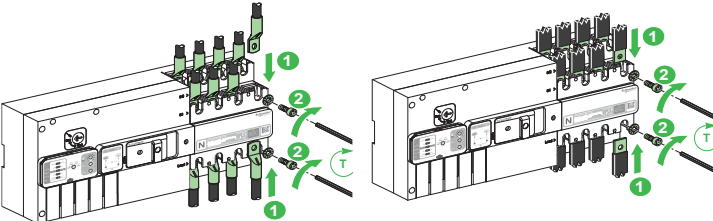
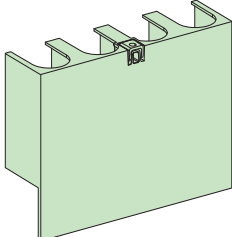
Coupling auxiliary module		
	<b>TPSAUX32</b>	<b>TPSAUX33</b>

# TransferPacT Frame 160A Automatic source changeover system W650/800

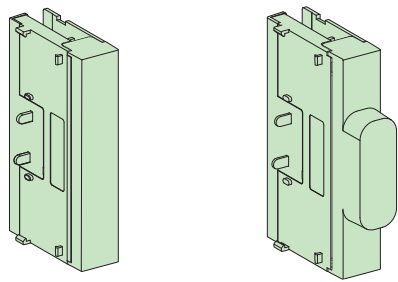
Changeover system

Mounting	Vertical Fixed
	
<b>Devices</b>	<b>TransferPacT Automatic / Active Automatic 80A-160A 3P/4P</b>
No. of devices per row	<b>1</b>
No. of vertical modules	<b>8M</b>
Mounting plate	<b>LVS03425</b>
Front plate with cut-out	<b>LVS03207</b>

## Upstream / Downstream Connections

Cable/Busbars	 <table border="1" style="font-size: small;"> <thead> <tr> <th></th> <th>mm</th> <th>in.</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>≤ 20</td> <td>≤ 0.78</td> </tr> <tr> <td>B</td> <td>≤ 10</td> <td>≤ 0.39</td> </tr> <tr> <td>C</td> <td>≤ 6</td> <td>≤ 0.24</td> </tr> <tr> <td>Ø</td> <td>≥ 8</td> <td>≥ 0.31</td> </tr> <tr> <td>T</td> <td colspan="2">8±0.8 N·m 70.8±7.08 lb-in.</td> </tr> <tr> <td></td> <td colspan="2">M8</td> </tr> <tr> <td></td> <td colspan="2">6</td> </tr> </tbody> </table> 		mm	in.	A	≤ 20	≤ 0.78	B	≤ 10	≤ 0.39	C	≤ 6	≤ 0.24	Ø	≥ 8	≥ 0.31	T	8±0.8 N·m 70.8±7.08 lb-in.			M8			6	
	mm	in.																							
A	≤ 20	≤ 0.78																							
B	≤ 10	≤ 0.39																							
C	≤ 6	≤ 0.24																							
Ø	≥ 8	≥ 0.31																							
T	8±0.8 N·m 70.8±7.08 lb-in.																								
	M8																								
	6																								
Long terminal shields	 <p style="text-align: center;"><b>TPSISO31</b></p>																								

## Auxiliary

Coupling auxiliary module	 <p style="display: flex; justify-content: space-around;"><b>TPSAUX32</b>      <b>TPSAUX33</b></p>
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# TransferPacT Frame 250A Automatic source changeover system W650/800

Changeover system

Mounting		Vertical Fixed	
<b>Devices</b>	TransferPacT Active Automatic 100A-250A 3P/4P TransferPacT Automatic 200A-250A 3P/4P TransferPacT Remote 160A-250A 3P/4P		
No. of devices per row	1		
No. of vertical modules	13M		
Mounting plate	LVS03429		
Front plate [No. of vertical modules]	upstream	-	
	with cut-out	LVS03210 [11]	
	downstream	LVS03802 [2]	

Upstream / Downstream Connections									
		CU			AL				
Cable									
		LV429252 LV429256	x3 x4	x2 x3	120 mm <sup>2</sup>	LV429504 LV429505	x3 x4	x2 x3	150 mm <sup>2</sup>
		LV429253 LV429257	x3 x4	x2 x3	150 mm <sup>2</sup>	LV429506 LV429507	x3 x4	x2 x3	185 mm <sup>2</sup>
		LV429254 LV429258	x3 x4	x2 x3	185 mm <sup>2</sup>				
Busbar									
Linergy		LGY				LGYE			
Connection	Front connection flexible busbar - Must be made (1)								

Accessories					
Bare Cable Connector	Long Terminal Shield	Available Options			Insulating Screen
		Cable Size	TransferPacT	NSX Solution	
		1.5 to 35 mm <sup>2</sup>	3P: TPSCON47 4P: TPSCON48	LV429248 LV429249	
		120 to 240 mm <sup>2</sup>	3P: TPSCON49 4P: TPSCON50	LV429244 LV429245	
		50 to 120 mm <sup>2</sup>	3P: TPSCON51 4P: TPSCON52	LV429218 LV429219	
			+ LV429518		
					TPSISO66

Auxiliary		
Coupling Auxiliary Module		Power Tag
TPSAUX43	TPSAUX44	LV434021

(1) Connection to be made according to the busbar drawings supplied by Schneider Electric.

# TransferPacT Frame 630A Automatic source changeover system W650/800

Changeover system

Mounting		Vertical Fixed
<b>Devices</b>		TransferPacT Active Automatic 320A-630A 3P/4P TransferPacT Automatic 320-630A 3P/4P TransferPacT Remote 320-630A 3P/4P
No. of devices per row		1
No. of vertical modules		13M
Mounting plate		LVS03429
Fixed Frame		LVS03371 (1)
Front plate [No. of vertical modules]	upstream	-
	with cut-out	LVS03211 [11]
	downstream	LVS03802 [2]

Upstream / Downstream Connections		CU						AL (2)					
Cable		TransferPacT Solution	NSX Solution	Interface Barrier				TransferPacT Solution	NSX Solution	Interface Barrier			
		TPSCON57	LV432500	+ TPSISO65	x3	x2	240 mm <sup>2</sup>	TPSCON61	LV432504	+ TPSISO65	x3	x2	240 mm <sup>2</sup>
		TPSCON58	LV432501		x4	x3		TPSCON62	LV432505		x4	x3	
		TPSCON59	LV432502	x3	x2	300 mm <sup>2</sup>	TPSCON63	LV432506	x3	x2	300 mm <sup>2</sup>		
TPSCON60	LV432503	x4	x3		TPSCON64	LV432507	x4	x3					
Busbar													
Linergy		LGY						LGYE					
Connection	Front connection flexible busbar - Must be made (2)												

Accessories							
Bare Cable Connector	Long Terminal Shield	Available Options				Insulating Screen	
		Cable Size	TransferPacT	NSX Solution	Long Terminal Shield	 TPSISO67	
		35 to 300 mm <sup>2</sup>	3P: TPSCON53	LV432479	+ TPSISO42		
		35 to 300 mm <sup>2</sup>	4P: TPSCON54	LV432480			

Auxiliary	
Coupling Auxiliary Module	
TPSAUX43	TPSAUX44

(1) Must use fixed frame LVS03371.

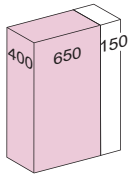
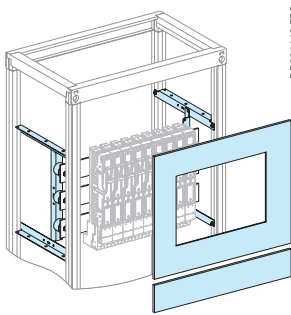
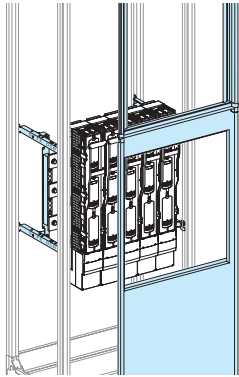
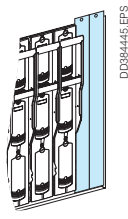
(2) Connection to be made according to the busbar drawings supplied by Schneider Electric.


# Fupact ISFL

Vertical / 3P

Determining the busbars

Fusegear

Mounting	Through cut-out front plate	Through a 2/3 cut-out front plate			Accessories
					
<b>Devices</b>	<b>ISFL160</b>	<b>ISFL160</b>	<b>ISFL250/400/630</b>	<b>ISFL 1250</b>	
Number of devices per row	9	10	5	2	-
Number of vertical modules	11	24	24	24	-
Mounting plates	LVS03545 + (1)	LVS03546 + (1)	LVS03546 (1) + (2)	LVS03546 + (2)	-
Length adapter	-	+ 5 x LV480870 (2)	-	-	-
Conversion kit for direct conn.	-	+ 5 x LV480854 (2)	-	-	-
Front plates with cut-out [No. of vertical mod.]	LVS03736 [11]	-	-	-	-
FAV 2/3	-	LVS03735 [24 + 12]	LVS03735 [24 + 12]	LVS03735 [24 + 12]	-
Side frame door cut-out	LV480868 LV480869	LV480868 LV480869	LV480868 LV480869	LV480868 LV480869	-
Blanking plate	LVS03740	LVS03740	LVS03741 (3)	2 x LVS03741	-
Busbars cover	-	-	-	-	LVS04860
Characteristics	<ul style="list-style-type: none"> <li>The fuses are installed on the horizontal bars which are in turn supported by a mounting plate</li> <li>The front plates are secured to the hinged front plate support frame.</li> <li>The front may be covered either by a cover frame or a plain or transparent door.</li> <li>Current transformers can be installed behind ISFL fuse-switch-disconnectors.</li> </ul>	<ul style="list-style-type: none"> <li>The fuses are installed on the horizontal bars which are in turn supported by a mounting plate</li> <li>The front of the cubicle is made up of two parts:                             <ul style="list-style-type: none"> <li>2/3 cut-out front plate allowing introduction of the fuses</li> <li>1/3 front plate support frame (12 modules) cat. number LVS08562 on which the functional units are mounted</li> </ul> </li> <li>The front may be covered either by a cover frame or a plain or transparent door.</li> <li>Current transformers can be installed behind ISFL fuse-switch-disconnectors.</li> </ul>			

Connection	Direct
	
<b>Devices</b>	<b>ISFL160/630</b>
Connection	By cables or directly on the busbars with clamp fixing or pressure fixing

Distribution	
	
<b>Devices</b>	<b>ISFL160/630</b>
Downstream connection	With cable

(1) The bars are made by the customer: for choice of bars > pages G-2 to G-13.

(2) Adaptation accessories LV480870 + LV480855 used to:

- install two ISFL160 devices on a mounting plate LVS03546
- mix ISFL devices.

(3) Use 2 blanking plates per device.

**Note:**

- for ISFL160, by fixing screws only.
- for determining the busbar > page I-58.

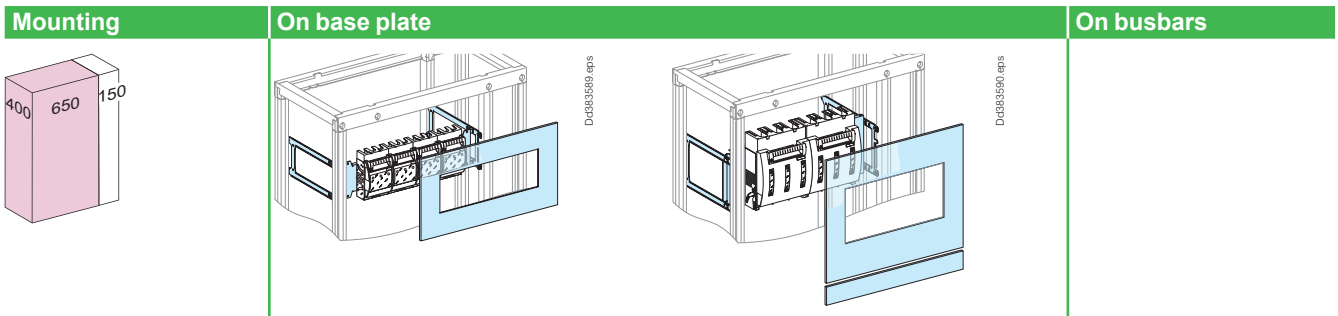
# Fupact ISFT

Vertical / 3P

Installation on mounting plate or busbars

Determining the busbars

Fusegear/Switch-disconnector



Mounting	On base plate						On busbars	
<b>Devices</b>	<b>ISFT100</b>	<b>ISFT100N</b>	<b>ISFT160</b>	<b>ISFT250</b>	<b>ISFT400</b>	<b>ISFT630</b>	<b>ISFT100N</b>	<b>ISFT160</b>
Number of devices per row	5	8	4	2	2	1	6	4
Number of vertical modules	<b>6</b>	<b>8</b>	<b>6</b>	<b>9</b>	<b>9</b>	<b>10</b>	<b>8</b>	<b>6</b>
Mounting plates	<b>LVS03554</b>	<b>LVS03553</b>	<b>LVS03556</b>	<b>LVS03557</b>	<b>LVS03557</b>	<b>LVS03557</b>	<b>LVS03555</b>	<b>LVS03555</b>
Front plates with cut-out downstream [No. of vertical mod.]	<b>LVS03320 [6]</b>	<b>LVS03325 [8]</b>	<b>LVS03321 [6]</b>	<b>LVS03322 [9]</b>	<b>LVS03323 [9]</b>	<b>LVS03324 [8]</b>	<b>LVS03325 [8]</b>	<b>LVS03321 [6]</b>
	-	-	-	-	-	<b>LVS03802 [2]</b>	-	-

Connection	Direct							
<b>Devices</b>	<b>ISFT100</b>	<b>ISFT100N</b>	<b>ISFT160</b>	<b>ISFT250</b>	<b>ISFT400</b>	<b>ISFT630</b>	<b>ISFT100N</b>	<b>ISFT160</b>
Connection	must be made Downstream, with cable or flexible bars							
Long terminal shields	-	<b>LV480756</b>	<b>LV480819</b>	<b>LV480824</b>	<b>LV480827</b>	<b>LV480831</b>	-	<b>LV480819</b>

Distribution			
Linergy FH for 2 devices	<b>49861</b>	<b>LV480811</b>	
for 3 devices	<b>49862</b>	<b>LV480812</b>	
for 4 devices	<b>49863</b>	<b>LV480813</b>	
Set of 3 connectors (25 to 95 mm²)	<b>49865</b>	<b>LV480818</b>	
Set of 3 distribution connectors 3 x 10 mm²	<b>49860</b>	<b>LV480814</b>	

**Note:** for determining the busbar > page I-58.



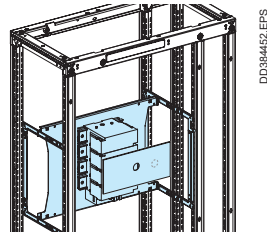
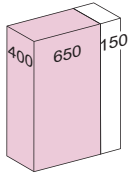
# Fupact GS

Horizontal / Vertical

Extended rotary handle

Fusegear/Switch-disconnector

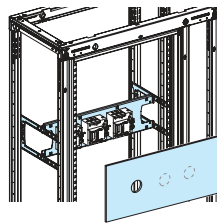
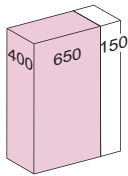
## Mounting Horizontal



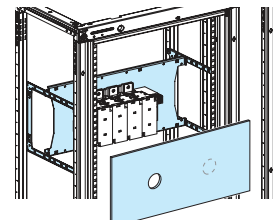
DD384452.EPS

Devices		GS32	GS63	GS100 (1)	GS160 (1)	GS250	GS400
		3P or 4P					
Number of devices per row		1					
Number of vertical modules		3		5		7	
Mounting plates		LVS03559		LVS03560		LVS03564	
Front plates		LVS03308		LVS03309		LVS03346	
with cut-out downstream		-		-		-	
Nb of vertical modules		-		LVS03801 [1M]		LVS03347	
Upstream connection							
Terminal	3P	-		GS1AP33		GS1AP43	
Cover	4P	-		GS1AP34		GS1AP44	

## Mounting Vertical



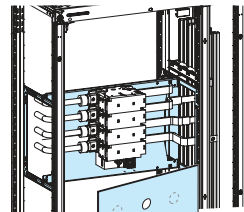
DD381858.EPS



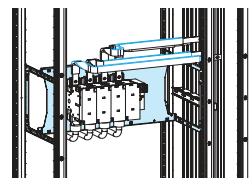
DD381859.EPS

Devices		GS32	GS63	GS100 (1)	GS160 (1)	GS250	GS400
		3P or 4P					
Number of devices per row		3				1	
Number of vertical modules		3		5		6	
Mounting plates		LVS03559		LVS03563		LVS03565	
Front plates		LVS03308		LVS03309		LVS03349	
with cut-out downstream		-		-		-	
Nb of vertical modules		-		-		-	
Upstream connection							
Terminal	3P	-		GS1AP33		GS1AP43	
Cover	4P	-		GS1AP34		GS1AP44	

## Distribution Lateral busbars



DD384454.EPS



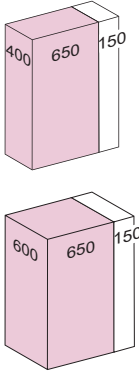
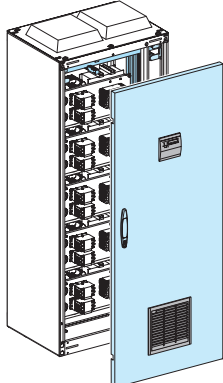
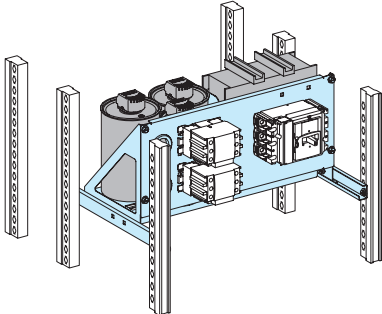
DD381860.EPS

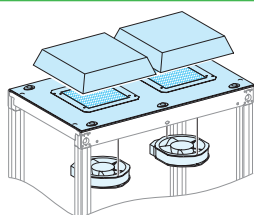
Linergy LGYE, Linergy LGY or Linergy BS busbars (2)

Busbars connection Must be made

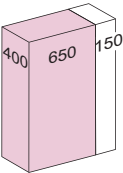
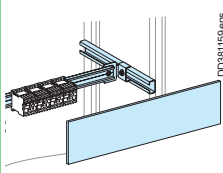
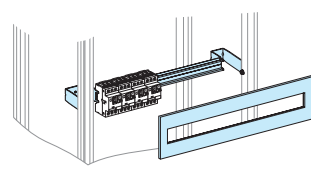
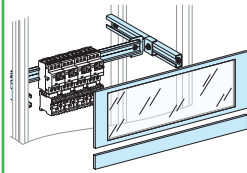
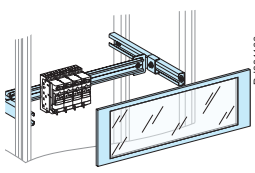
(1) For DIN fuses only.

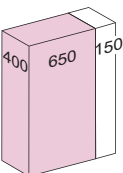
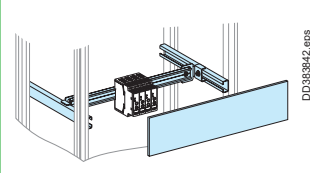
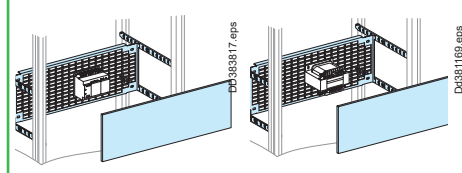
(2) Selection of flexible bars for the connection Fupact GS ≤ 400 A: > [page I-58](#)

Mounting	Door with cut-outs	Mounting plate
		
Catalog number	<b>LVS03970</b>	<b>LVS03979</b>
Characteristics	Special standard cover panels are used. However, a special IP30 door is used (W650 mm with hinges on left only) that has cut-outs, one for the VarplusLogic power factor controller and another in the bottom for a filter.	The mounting plates are designed for installation of capacitors, contactors and devices protecting against internal faults. The power factor correction modules are installed horizontally in the cubicle. Gasket gland plate NSYTPV is necessary for mounting plate wiring.

Mounting	Ventilation accessories					
						
Cover panels	Roof with cut-out D = 400 mm D = 600 mm	Fan + top hood	Top hood without fan	Outlet grill	Fan with filter	Spare filter
Catalog number	<b>LVS08478</b> <b>LVS08678</b>	<b>NSYCVF575M230MB</b>	<b>NSYCAC228RMB</b>	<b>NSYCAG291LPF</b>	<b>NSYCVF850M230PF</b>	<b>NSYCAF228R</b>
Characteristics	A roof with a cut-out ensures natural ventilation of the equipment. It can also be equipped with two fans.	<b>Fan characteristics</b> <ul style="list-style-type: none"> <li>Power: 85 W</li> <li>Input voltage: 230 V</li> <li>Throughput via outlet grill:                             <ul style="list-style-type: none"> <li>with 1 outlet grill: 350 m<sup>3</sup>/hr</li> <li>Free with filter: 575 m<sup>3</sup>/hr</li> </ul> </li> <li>Noise level: 64 dB.</li> </ul> <b>Top hood characteristics</b> <ul style="list-style-type: none"> <li>Material: steel</li> <li>Finishing parts: painted with epoxy-polyester resin, textured RAL 9003, white</li> <li>IP54</li> <li>Fixing to the top by means of caged nuts and special screws</li> </ul>	<ul style="list-style-type: none"> <li>Material: steel</li> <li>Finishing parts: painted with epoxy-polyester resin, textured RAL 7035 grey</li> <li>IP54</li> <li>Fixing to the top by means of caged nuts and special screws</li> </ul>	<ul style="list-style-type: none"> <li>Material: Injected thermoplastic (ASA PC).</li> <li>self-extinguishing according to UL 94 V-0</li> <li>RAL 9003, white</li> <li>IP54</li> </ul>	<ul style="list-style-type: none"> <li>Power: 150/195 W</li> <li>Input voltage: 207 V... 244 V (230 V)</li> <li>Throughput via outlet grill:                             <ul style="list-style-type: none"> <li>with 1 outlet grill (m<sup>3</sup>/h):                                     <ul style="list-style-type: none"> <li>718 (50 Hz)</li> <li>568 (60 Hz)</li> </ul> </li> <li>Free with filter:                                     <ul style="list-style-type: none"> <li>838 (50 Hz)</li> <li>803 (60 Hz)</li> </ul> </li> <li>Noise level: 76/75 dB</li> </ul> </li></ul>	For outlet grill or filter IP54, cut-out 228 x 228 mm

Configuration	200 kvar	500 kvar
<b>Door</b>		
Catalog number	<b>LVS03970 + LVS01110</b>	<b>LVS03970 + LVS01110</b>
Designation	W650 door IP30 with cut-out + W150 wicket door	W650 door IP30 with cut-out + W150 wicket door
<b>For front</b>		
Catalog number	<b>NSYCVF850M230PF</b>	<b>NSYCAG291LPF</b>
Designation	Fan with filter	Outlet grill
<b>For rear</b>		
Catalog number	<b>LVS08748</b>	<b>LVS08749 + NSYCAG291LPF</b>
Designation	W800 Rear panel IP55	W800 Rear panel IP55 cut-out + outlet grill
<b>Roof</b>		
Catalog number	<b>LVS08478</b> or <b>LVS08678</b>	<b>LVS08478</b> or <b>LVS08678</b>
Designation	Roof with cut-out	Roof with cut-out
<b>On roof</b>		
Catalog number	<b>NSYCAC228RMB</b> x 2	<b>NSYCVF575M230MB</b> x 2
Designation	2 top hood without fan IP54	2 fans + top hood IP54
<b>Mounting plate</b>		
Catalog number	<b>LVS03979</b>	<b>LVS03979</b>
Designation	Mounting plate	Mounting plate

Mounting		On a modular rail				
						
<b>Devices</b>		<b>Contactor</b> Series D and K ≤ 40 A contactors	<b>Circuit breaker</b> GV2RT-GV2ME-GV2LE		<b>Circuit breaker + contactor</b> GV2 + Series D and K ≤ 40 A contactors	<b>TeSys</b> TeSys modèle U
Number of vertical modules		3	3	5	5	5   4 (1)
Useful length of rail (mm)		432	432		432	432
Modular rail (adjustable)		LVS03402	LVS03401 (2)	LVS03402	LVS03402	LVS03402
Front plates [No. of vertical mod.]	plain	LVS03803 [3]				LVS03804 [4]
	transparent	-			LVS03342 [4]	ou LVS03342 [4]
	with cut-out	-	LVS03203 [3]	LVS03203 [3]	LVS03205 [5]	LVS03205 [5]   -
	downstream	-			LVS03801 [1]	-
Characteristics		Width of devices without lateral auxiliaries: 45 mm.				

Mounting		On a modular rail				On a base plate	
							
<b>Devices</b>		<b>Soft starters ATS01</b>				<b>LV/LV transformer</b>	
		ATS01N103/106FT	ATS01N109/112FT ATS01N206 to 212	ATS01N222 to 232	ATS01N230LY ATS01N244LY ATS01N244Q	ATS01N272LY ATS01N285LY ATS01N272Q ATS01N285Q	ABL6-TS/TD up to 2500 VA ABL6-RT up to 960 W ABL6-RF up to 480 W
Number of vertical modules		4	5	6	5	6	4
Useful length of rail (mm)		432	432	432	432	-	-
Modular rail (adjustable)		LVS03402	LVS03402	LVS03402	LVS03402	-	-
Slotted mounting plates		-	-	-	-	LVS03572	LVS03571
Front plate plain [No. of vertical mod.]		LVS03804 [4]	LVS03805 [5]	LVS03806 [6]	LVS03805 [5]	LVS03806 [6]	LVS03804 [4]
Characteristics		Width of devices (mm)					-
		22.5	45	45	180	180	

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

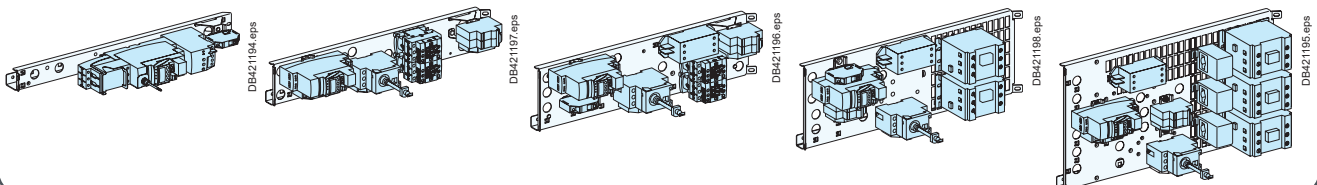
(2) Non-adjustable.



Dedicated mounting plate for Motor Control functional units.  
5 commercial references from 1 to 6 modules mounting plates are installed in 650 mm wide cubicle.

- Easy installation
- Switchboard upgradeability
- Mounting plate optimal stacking density
- Functional units reliability.

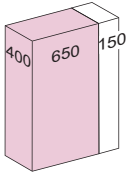
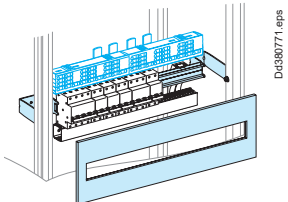
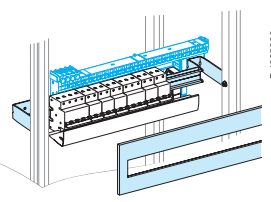
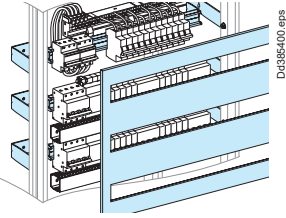
See PrismaSeT MCC Catalog DESW049EN.

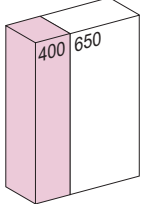
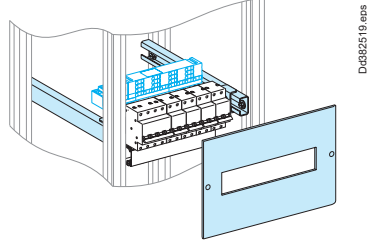



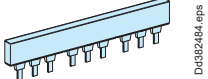
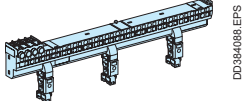
# Modular devices

Acti 9 ≤ 63 A

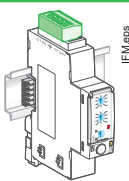
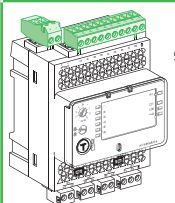
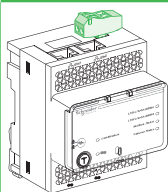
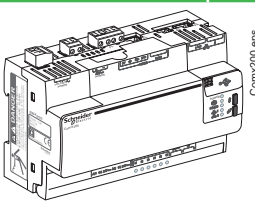
## Circuit breakers

Mounting	Horizontal distances between centres: 200 mm	Horizontal distances between centres: 150 mm	
			
<b>Devices</b>	<b>All modular devices</b>	<b>Modular devices ≤ 40 A</b>	
Rail length (modules of 9 mm)	48	48	48
No. of vertical modules	4 (1)	3	8
Rail (48 modules of 9 mm)	LVS03401	LVS03401	3 x LVS03401
Modular front plates	LVS03204	LVS03203	LVS03223
Blanking strip	LVS03220	LVS03220	LVS03220
plate divisible	LVS03221	LVS03221	LVS03221

Mounting	Horizontal distances between centres: 200 mm	Horizontal distances between centres: 150 mm	
			
<b>Devices</b>	<b>All modular devices</b>	<b>Modular devices ≤ 40 A</b>	
Rail length (modules of 9 mm)	20	20	
No. of vertical modules	4	3	
Rail (20 modules of 9 mm)	LVS03404 (adjustable)	LVS03404 (adjustable)	
Modular front plates	LVS03214 [4]	LVS03213 [3]	
Blanking plate strip	LVS03220	LVS03220	
divisible	LVS03221	LVS03221	

Connection	Lineryy FH comb busbar	Distribution block Lineryy FM 63 to 200 A row
		
<b>Type of connected devices</b>	<b>According devices</b>	<b>All type</b>
Comb busbars / distribution blocks	> page G-28	> page G-25

Lineryy TR Terminal blocks: > page G-40.

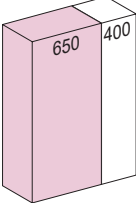
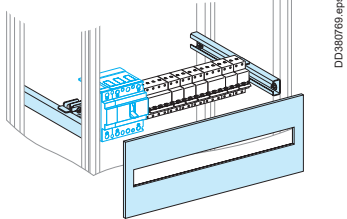
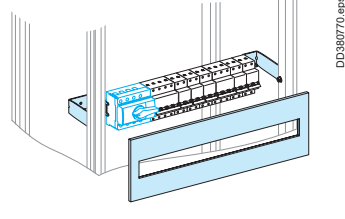
	EnerlinX devices				
	IFM	I/O module	IFE	ComX200	ComX510
					
No. of vertical modules	4				
Rail	LVS03401 / LVS03404				
Modular front plates	LVS03204 / LVS03214				
Characteristics	Installation by clip on a modular rail.				

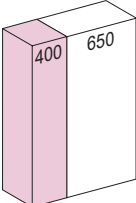
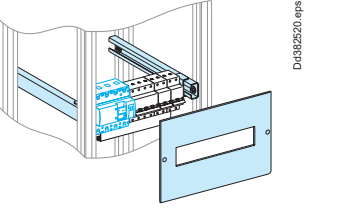
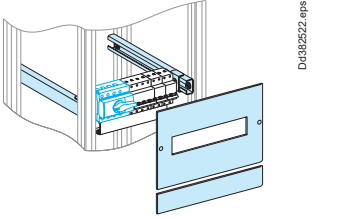
(1) For a modular row with a 160 A (half row) and 200 A Lineryy FM distribution block positioned directly below a non-modular mounting-plate (ComPacT, etc.), or at the top of a switchboard, add one additional module (i.e. 4+1) and a plain upstream front plate (LVS03801).


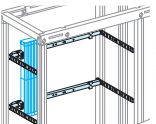
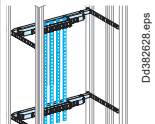
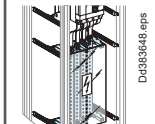
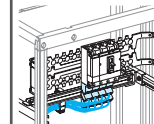
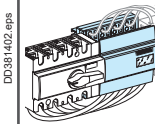
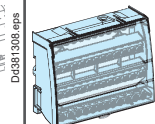
Modular devices

80/160 A switchboard incomer

Circuit breakers

Mounting	Circuit breakers		Switch-disconnectors	
				
<b>Devices</b>	NG160, NG160NA Vigi NG160	NG125, NG125NA, Vigi NG125, C120, Vigi C120, iC120, Vigi iC120	ComPacT INS40/160	ComPacT INS-INV100/160 with long terminal shields
No. of vertical modules	5	5	4	5
Rail (48 modules of 9 mm)	LVS03402 (adjustable) (1) + LVS04227	LVS03401	LVS03401	LVS03401
Modular front plates	LVS03205	LVS03205	LVS03204	LVS03205
Blanking plate strip	LVS03220		LVS03220	
divisible	LVS03221		LVS03221	

Mounting	Circuit breakers		Switch-disconnectors	
				
<b>Devices</b>	NG160, NG160NA, NG125, NSA125/160		INS-INV40/160	INS-INV100/160 with long terminal shields
No. of vertical modules	5		4	5
Rail (20 modules of 9 mm)	LVS03404 (adjustable) (2)		LVS03404 (adjustable)	LVS03404 (adjustable)
Front plates modular	LVS03214 [4]		LVS03214 [4]	LVS03214 [4]
[No. of vertical modules] downstream	LVS03811 [1]		-	LVS03811 [1]
Blanking plate strip	LVS03220		LVS03220	LVS03220
divisible	LVS03221		LVS03221	LVS03221

Connection	Insulated Linergy BW busbars	Rear Linergy BS busbars	Linergy BS multi-stage busbars	Linergy DP 1P, 160 A distribution block	Linergy DX 4P, 160 A distribution block	Linergy DS multi-stage distribution
						
<b>Type of connected devices</b>	All type	All type	All type	All type	All type	All type
Distribution block / busbars		> page G-9	> page G-11	> page G-14	> page G-22	> page G-26
Connection		must be made	must be made	> page G-14	> page G-22	must be made

(1) Can be completed by a rail + raiser (cat. no. LVS04227) to instal modular devices on.  
**Note:** width of NG160 circuit breakers: NG160 3P: 10 modules / NG160 4P: 14 modules  
 Vigi NG160 3P: 24 modules / Vigi NG160 4P: 27 modules  
 width of NG125 circuit breakers: NG125 3P: 9 modules / NG125 4P: 12 modules  
 Vigi NG125 3P ≤ 63 A: fixed sensitivity 18 modules  
 adjustable sensitivity 20 modules  
 > 63 A: fixed sensitivity 20 modules  
 adjustable sensitivity 20 modules  
 Vigi NG125 4P ≤ 63 A: fixed sensitivity 21 modules  
 adjustable sensitivity 23 modules  
 > 63 A: fixed sensitivity 23 modules  
 adjustable sensitivity 23 modules  
 C120 or iC120 3P: 9 modules / C120 or iC120 4P: 12 modules  
 Vigi C120 or iC120 3P: 19 modules / Vigi C120 or iC120 4P: 22 modules  
 width of devices: INS-INV40/80: width 10 modules  
 INS-INV100/160: width 15 modules.

(2) Can be completed by a rail + raiser (LVS04227) to instal modular devices on.  
**Note:** to mix an NSA125/160 circuit breaker with Multi 9 or Acti 9 modular devices, order (with the device) the symmetrical rail + raiser set (28041).  
 Width of devices: NSA125/160 3P: 10 modules / NSA125/160 4P: 14 modules.

# Metering

Single-phase and 3-phase kilowatt-hour meters

Class 1 & 2

Others

Mounting		With 1 mounting plate		
Devices		Meter and connection block		
		Meter 3 Ph + N	Connection block	Meter + connection block
Number of devices per row		2	2	1 + 1
Number of vertical modules		6	6	6
Mounting plates		LVS03508	LVS03508	LVS03508
Front plates	transparent	LVS03343 [6]	LVS03343 [6]	LVS03343 [6]
[No. of vertical mod.]	or plain	LVS03806 [6]	LVS03806 [6]	LVS03806 [6]

Mounting		With 2 mounting plates	
Devices		Meter and connection block	
		Meter 3 Ph + N	Meter + connection block
Number of devices per row		4	2 + 2
Number of vertical modules		12	12
Mounting plates		2 x LVS03508	2 x LVS03508
Front plates	transparent	2 x LVS03343 [6]	2 x LVS03343 [6]
[No. of vertical mod.]	or plain	2 x LVS03806 [6]	2 x LVS03806 [6]

Mounting		Behind front plate	
Devices		Meter and connection block	
		Single-phase (Ph + N)	3-phase (3 Ph + N)
Number of devices per row		3	2
Number of vertical modules		6	9
Mounting plates		-	LVS03152
Front plates	transparent	LVS03343 [6]	LVS03344 [9]
[No. of vertical mod.]	or plain	LVS03806 [6]	-
Insulating plate		-	-
Adapter		LVS03595	LVS03595
Accessories		M5 spacers for mounting plate > page F-24	

Note: meters can be installed at different levels on the functional uprights of frameworks.

# Metering and human-switchboard interface

## PowerLogic™ Meters

Others

### ★ Presentation

#### PowerLogic™ Meters

Schneider Electric provides these tools via the world's most advanced energy intelligence technology: PowerLogic. The PowerLogic range of meters help manage all energy assets, every second of the day.

#### PowerLogic PM5000 series



The ideal fit for cost management applications, the PowerLogic™ PM5000 power meter provides:

- > Sub-billing/tenant metering
- > Equipment sub-billing
- > Energy cost allocation
- > Track real-time power conditions
- > Monitor control functions
- > Provide basic power quality values
- > Monitor equipment and network status.

#### Acti9 iEM2000 & iEM3000 series



The Acti9 iEM2000 & iEM3000 energy meter series offers a cost-attractive, competitive range of DIN rail-mounted energy meters ideal for:

- > Bill checking to verify that you are only charged for the energy you use
- > Sub billing individual tenants for their energy consumption, including WAGES
- > Aggregation of energy consumption, including WAGES, and allocating costs per area, per usage, per shift, or per time within the same facility
- > Basic metering of electrical parameters to better understand the behavior of your electrical distribution system.

Combined with communication systems, like Smart Link, the Acti9 iEM2000 & iEM3000 series makes it easy to integrate electrical distribution measurements into facility management systems. It's the right energy meter at the right price for the right job.

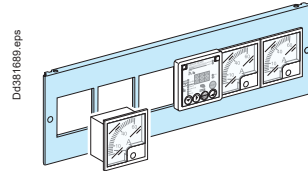
#### Possible installation

Cat. number	LVS 03904	LVS 03928	LVS 03910	LVS 03911	LVS 03913	LVS 03912	LVS 03914
Front plate frame support (LVS08566)	■	■	■	■	■	■	■
L300/L400 with cut-out (LVS08593, LVS08594)	■	■	■	■	■	-	-

**Note:** device mounting on door: earthing braid (cat. no. LVS08910) or earthing wire (cat. no. 08911) mandatory.

### ○ Installation in a switchboard

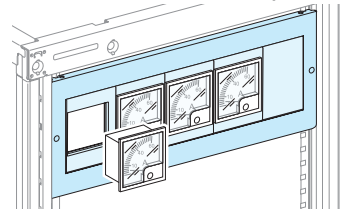
On a metal front plate with cut-outs, H = 150 mm (3 modules)



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

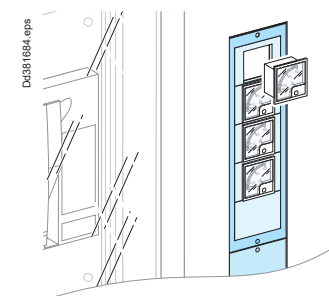
#### ①

> In the device zone of enclosures and cubicles, like a front plate



#### ②

- > On a door with cut-outs in a 300 or 400 mm wide cubicle
- > On a inclined visor




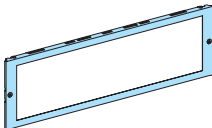



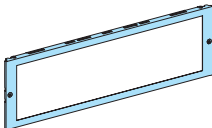




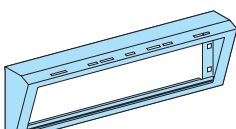



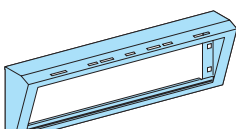




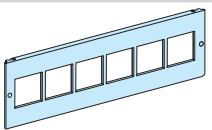


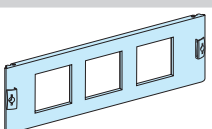


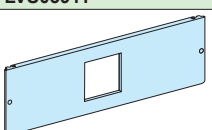





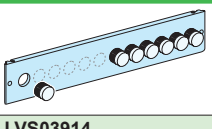


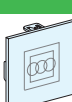
The degree of protection for installed devices is IP30.

#### Notes:

- To maintain the IP55 degree of protection, the measurement devices must be installed behind a transparent door. If they are installed on a plain door, use the corresponding mounting plates.
- With a power voltage > SELV (12 V), devices on front plates must be mounted with a front plate hinge kit (cat no. LVS08585). The earthing braid must be connected to the front plate frame support (cat no. LVS08566, LVS08564, LVS08560, LVS08562 or else).
- With a power voltage > SELV (12 V) and a supply protection > 16 A, in addition to the preceding rule, the front plate frame support (cat no. LVS08566, LVS08564, LVS08560, LVS08562 or else) must be connected to the cubicle frame, using an earthing braid (cat no. LVS08910 or LVS08911). (standard NF / EN 61439-1 2011 edition).

# Metering and human-switchboard interface

Others

Number and type of devices per row	Metal front plate with cut-out	No. of vertical mod.	Plastic mounting plates with cut-out	Blanking plate or devices support
<b>W650 Mounting on an interface with plastic mounting plates</b>				
5 x  Vigirex and others devices 72 x 72	 DD385458.eps	3	 DD385465.eps	 DD385466.eps To blank-off or install: - 1 to 4 Ø 16 or 22 mm buttons - 1 device, 45 x 45
4 x  Power Meter and others devices 96 x 96	 DD385458.eps		<b>LVS03902</b>	<b>LVS03900</b>
2 x  For PM200, 200P, PM5 & PM8 series meters		<b>LVS03904</b>	 DD385467.eps	 DD385468.eps To blank-off or install: - 1 to 4 Ø 16 or 22 mm buttons - 1 device, 45 x 45 - one 72 x 72 device
	<b>LVS03903</b>	<b>LVS03901</b>		
<b>W650 Mounting on an inclined visor by 30° with plastic mounting plates</b>				
5 x  Vigirex and others devices 72 x 72	 DD385459.eps	3	 DD385465.eps	 DD385466.eps To blank-off or install: - 1 to 4 Ø 16 or 22 mm buttons - 1 device, 45 x 45
4 x  Power Meter and others devices 96 x 96	 DD385459.eps		<b>LVS03902</b>	<b>LVS03900</b>
2 x  For PM200, 200P, PM5 & PM8 series meters		<b>LVS03928 (1)</b>	 DD385467.eps	 DD385468.eps To blank-off or install: - 1 to 4 Ø 16 or 22 mm buttons - 1 device, 45 x 45 - one 72 x 72 device
	<b>LVS03903</b>	<b>LVS03901</b>		
<b>W650 Direct mounting on a metal front plate with cut-outs</b>				
<b>72 x 72 device</b>				
6 x  Vigirex and others devices 72 x 72	 DD385460.eps	3	Direct mounting	 DD385469.eps To blank-off or install: - 1 or 2 Ø 22 mm buttons - 1 device, 45 x 45
	<b>LVS03910</b>	-	-	<b>LVS03907</b>
<b>96 x 96 device</b>				
3x  Power Meter and others devices 96 x 96	 DD118465.eps	3	Direct mounting	 DD385470.eps To blank-off or install: - 1 or 2 Ø 22 mm buttons - 1 device, 45 x 45 - one 72 x 72 device
	<b>LVS03911</b>	-	-	<b>LVS03908</b>
1 x  Power Meter and others devices 96 x 96	 DD385462.eps	3	Direct mounting	 DD385470.eps To blank-off or install: - 1 or 2 Ø 22 mm buttons - 1 device, 45 x 45 - one 72 x 72 device
	<b>LVS03913</b>	-	-	<b>LVS03908</b>
<b>144 x 144 device + 72 x 72 devices</b>				
1 x  144 x 144 device + devices 72 x 72		4	Direct mounting	 DD385469.eps To blank-off or install: - 1 or 2 Ø 22 mm buttons - 1 device, 45 x 45
4 x  devices 72 x 72			-	-
<b>W650 Pushbuttons and lamps Ø 22 mm</b>				
12 x  Ø 22 mm	 DD385464.eps	2	Direct mounting	
	<b>LVS03914</b>	-	-	-
<b>W400 Front plate</b>				
1 x  Power Meter and others devices 96 x 96	 DD385960.eps	3	Direct mounting	 DD385470.eps To blank-off or install: - 1 or 2 Ø 22 mm buttons - 1 device, 45 x 45 - one 72 x 72 device
	<b>LVS03923</b>	-	-	<b>LVS03908</b>

(1) The visor (cat. no. **LVS03928**) can be installed on a plain door with cut-out.  
 (2) For PM200, 200P, PM5 & PM8 series meters, use 2 no. blank off sheets between each meter.

# Metering and human-switchboard interface

## PowerLogic™ Meters

### Vigilohm, Vigirex

### Others

Mounting		Powerlogic system				
Devices		<b>FDM121, PM5000 &amp; PM8000 series (2)</b>		<b>PM3000 series, IEM2000 &amp; iEM3000 series</b>	<b>FDM128 (1)</b>	<b>PM5RD, PM89RD96, PM5563RD (3)</b>
		1 device	3 devices			
Number of vertical mod.		3	3	3 or 4	4	4
DIN rail		-	-	LVS03402	-	LVS03402
Front plates [No. of vert. modules]	transparent	-	-	LVS03342 [4]	-	-
	plain	-	-	-	LVS03804 [4]	LVS03804 [4]
	with cut-out	LVS03913 [3]	LVS03911 [3]	LVS03203 [3]	-	-
Front plate		with cut-out for devices 96 x 96			hole ø 22 mm to be stamped	hole ø 30 mm to be stamped

Mounting		Powerlogic system		
Devices		<b>FDM121, PM5000 series, PM8000 series (2)</b>	<b>FDM128 (1)</b>	<b>PM5RD, PM89RD96, PM5563RD (3)</b>
Number of vertical mod.		3	4	4
DIN rail		-	-	LVS03404
Front plates [No. of vert. modules]	with cut-out	LVS03923 [3]	-	-
	plain	-	LVS03814 [4]	LVS03814 [4]
Front plate		with cut-out for devices 96 x 96	hole ø 22 mm to be stamped	hole ø 30 mm to be stamped

Mounting		Vigilohm		
Devices		<b>IM400</b> with 3 XD301 or with 1 or 2 IFL12	<b>IM10, IM10H, IM20, IM20H</b> <b>HV-IM20, HV-IM400, IM9, IM9-OL</b>	<b>IM10 / IM10H</b> <b>IM20 / IM20H</b>
Number of vertical mod.		6	3	3
Modular rail		-	LVS03401	-
Mounting plates		LVS03930	-	-
Front plates with cut-outs		LVS03932	LVS03203	LVS03911
Characteristics		Installation in the device compartment		

Mounting		Vigirex	Acti 9	
Devices		<b>RH10/RH21/RH99/RH197M relays</b>	<b>Lamps, pushbuttons</b>	<b>Ammeter, voltmeter</b>
Number of vertical mod.		3	2	3
Modular rail		LVS03401	LVS03401	LVS03401
Front plates with cut-outs		LVS03203	LVS03202	LVS03203
Blanking strip		LVS03220	LVS03220	LVS03220
plate	divisible	LVS03221	LVS03221	LVS03221
Characteristics		Installation in the device compartment		

(1) For 72 x 72 mm cases > page E-66.

(2) Only for flush-mounted versions of PM5000 series and PM8000 series.

(3) Only for remote-display versions of PM5000 series and PM8000 series.



# Cubicles

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## Enclosures

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F

# Cover panels

## Enclosures

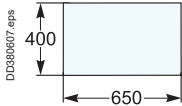
### 400 mm deep switchboard

For switchboards with front connections.

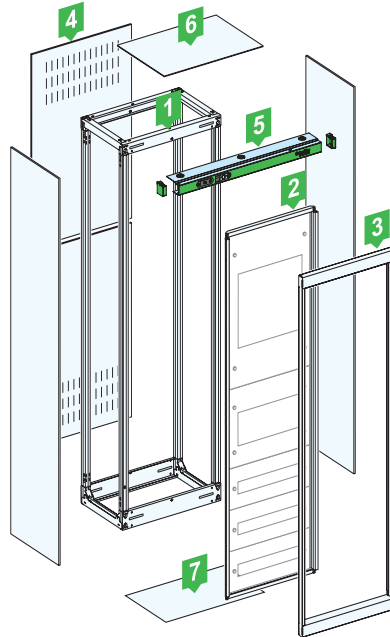
- front panels
- Any of the following can be installed in front of the hinged front plate frame support:
  - a transparent door (IP30 or IP55)
  - a plain door (IP30 or IP55)
  - a fixed cover frame (IP30)
- rear panel = screw-on panel
- side panels = set of two panels
- plain roof
- gland plates (plain or in two parts).

#### Parts list for switchboard 1

- 1 LVS08406: framework, W = 650, D = 400, H = 2000
- 2 LVS08566: front plate frame support, W = 650
- 3 LVS08576: cover frame, W = 650
- 4 LVS08736: rear panel, W = 650 (two half panels)
- 5 LVS08750: set of two side panels, D = 400
- 6 LVS08436: plain roof, W = 650, D = 400
- 7 LVS08486: plain gland plate, W = 650, D = 400



DD385890 eps



Switchboard 1 - IP30 cubicle with cover frame, W = 650.

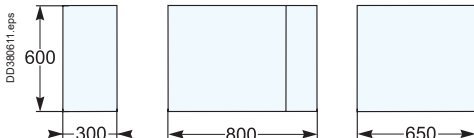
### 600 mm deep switchboard

For switchboards with front connections.

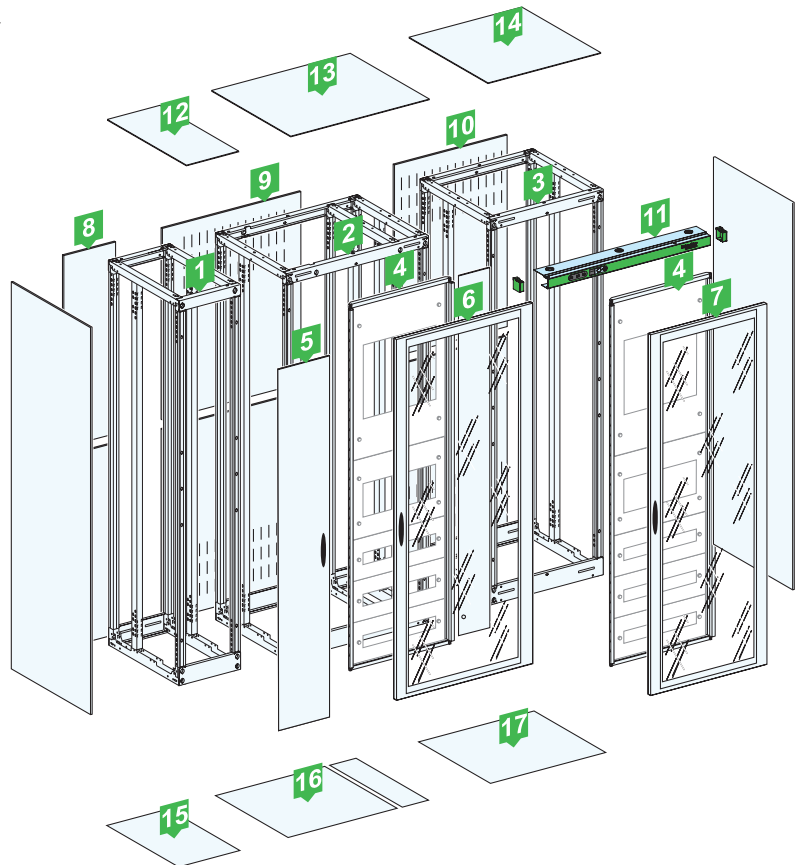
- front panels
- Any of the following can be installed in front of the hinged front plate frame support:
  - a transparent door (IP30 or IP55)
  - a plain door (IP30 or IP55)
  - a fixed cover frame (IP30)
- rear panel = screw-on panel
- side panels = set of two panels
- plain roof
- gland plates (plain or in two parts).

#### Parts list for switchboard 2

- 1 LVS08603: framework, W = 300, D = 600, H = 2000
- 2 LVS08607: framework, W = 800, D = 600, H = 2000
- 3 LVS08606: framework, W = 650, D = 600, H = 2000
- 4 LVS08566: front plate frame support, W = 650
- 5 LVS08513: plain door, W = 300
- 6 LVS08538: transparent door, W = 800 (supplied with barrier for busbar compartment, W = 150)
- 7 LVS08536: transparent door, W = 650
- 8 LVS08733: rear panel, W = 300 (two half panels)
- 9 LVS08738: rear panel, W = 800 (two half panels)
- 10 LVS08736: rear panel, W = 650 (two half panels)
- 11 LVS08760: set of two side panels, D = 600
- 12 LVS08633: plain roof, W = 300, D = 600
- 13 LVS08638: plain roof, W = 800, D = 600
- 14 LVS08636: plain roof, W = 650, D = 600
- 15 LVS08683: plain gland plate, W = 300, D = 600
- 16 LVS08687: plain gland plate, W = 800, D = 600
- 17 LVS08686: plain gland plate, W = 650, D = 600.



DD385891 eps



Switchboard 2 - combination of IP30 cubicles with transparent doors.

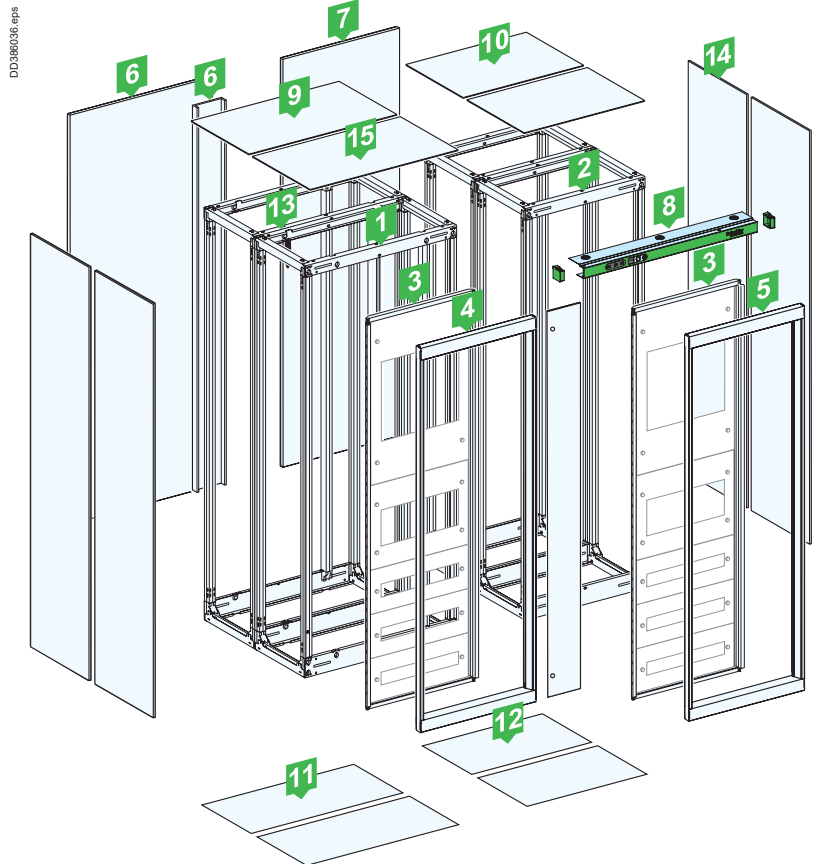
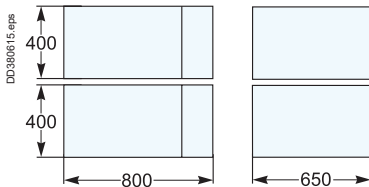
### 800 mm deep switchboard

Made up of two cubicles back-to-back.  
Rear connections are possible.

- front panels
- Any of the following can be installed in front of the hinged front plate frame support:
  - a transparent door (IP30 or IP55)
  - a plain door (IP30 or IP55)
  - a fixed cover frame (IP30)
- rear panel = screw-on panel
- side panels = set of two panels
- plain roof
- gland plates (plain or in two parts).

#### Parts list for switchboard 3

- 1 LVS08407 x 2 :** 2 frameworks, W = 800, D = 400, H = 2000
- 2 LVS08406 x 2 :** 2 frameworks, W = 650, D = 400, H = 2000
- 3 LVS08566:** front plate frame support, W = 650
- 4 LVS08578:** fixed cover frame, W = 800  
(supplied with a wicket door, W = 150)
- 5 LVS08576:** cover frame, W = 650
- 6 LVS08518:** plain door, W = 800  
(supplied with barrier for busbar compartment, W = 150)
- 7 LVS08516:** plain door, W = 650
- 8 LVS08750 x 2 :** 2 sets of two side panels D = 400
- 9 LVS08438 x 2 :** 2 plain roofs, W = 800, D = 400
- 10 LVS08436 x 2 :** 2 plain roofs, W = 650, D = 400
- 11 LVS08487 x 2 :** 2 plain gland plate, W = 800, D = 400
- 12 LVS08486 x 2 :** 2 plain gland plate, W = 650, D = 400
- 13 LVS08719 x 2 :** double depth combination kit



Combination of IP30 cubicles with cover frames.



# Cover panels

## Enclosures

### 1000 mm deep switchboard

Made up of two cubicles back-to-back.  
Rear connections are possible.

■ front panels

Any of the following can be installed in front of the hinged front plate frame support:

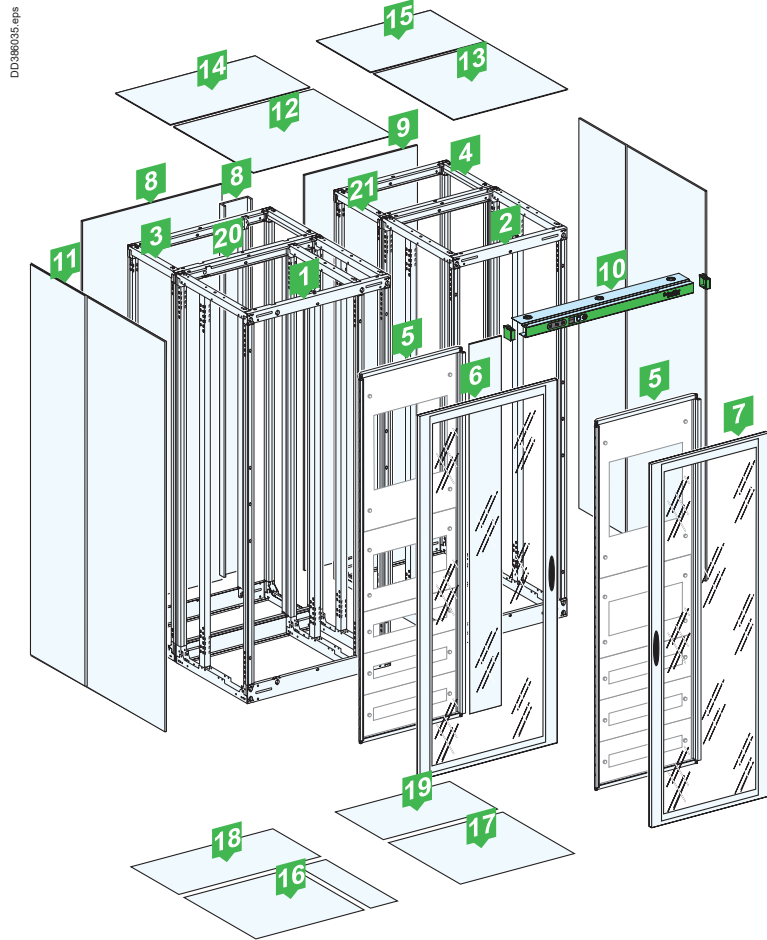
- a transparent door (IP30 or IP55)
- a plain door (IP30 or IP55)
- a fixed cover frame (IP30)
- rear panel = screw-on panel
- side panels = set of two panels
- plain roof
- gland plates (plain or in two parts).

#### Parts list for switchboard 4

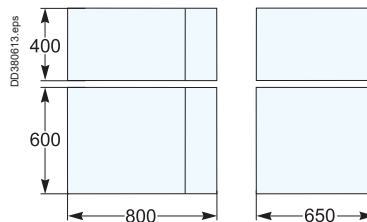
- 1 LVS08607:** framework, W = 800, D = 600, H = 2000
- 2 LVS08606:** framework, W = 650, D = 600, H = 2000
- 3 LVS08407:** framework, W = 800, D = 400, H = 2000
- 4 LVS08406:** framework, W = 650, D = 400, H = 2000
- 5 LVS08566:** front plate frame support, W = 650
- 6 LVS08538:** transparent door, W=800 (supplied with barrier for busbar compartment, W=150)
- 7 LVS08536:** transparent door, W = 650
- 8 LVS08518:** plain door, W = 800 (supplied with barrier for busbar compartment, W= 150)
- 9 LVS08516:** plain door, W = 650
- 10 LVS08760:** set of two side panels, D = 600
- 11 LVS08750:** set of two side panels, D = 400
- 12 LVS08638:** plain roof, W = 800, D = 600
- 13 LVS08636:** plain roof, W = 650, D = 600
- 14 LVS08438:** plain roof, W = 800, D = 400
- 15 LVS08436:** plain roof, W = 650, D = 400
- 16 LVS08687:** plain gland plate, W = 800, D = 600
- 17 LVS08686:** plain gland plate, W = 650, D = 600
- 18 LVS08487:** plain gland plate, W = 800, D = 400
- 19 LVS08486:** plain gland plate, W = 650, D = 400
- 20 LVS08719 x 2:** double depth combination kit

#### Parts list for switchboard IP55

- 1 LVS08607:** framework, W = 800, D = 600, H = 2000
- 2 LVS08606:** framework, W = 650, D = 600, H = 2000
- 3 LVS08407:** framework, W = 800, D = 400, H = 2000
- 4 LVS08406:** framework, W = 650, D = 400, H = 2000
- 5 LVS08566:** front plate frame support, W = 650
- 6 LVS08548:** transparent door, W = 800 (supplied with barrier for busbar compartment, W = 150)
- 7 LVS08546:** transparent door, W = 650
- 8 LVS08528:** plain door, W = 800 (supplied with barrier for busbar compartment, W = 150)
- 9 LVS08526:** plain door, W = 650
- 10 LVS08765:** set of two side panels, D = 600
- 11 LVS08755:** set of two side panels, D = 400
- 12 LVS08658:** plain roof, W = 800, D = 600
- 13 LVS08656:** plain roof, W = 650, D = 600
- 14 LVS08458:** plain roof, W = 800, D = 400
- 15 LVS08456:** plain roof, W = 650, D = 400
- 16 LVS08687:** plain gland plate, W = 800, D = 600
- 17 LVS08686:** plain gland plate, W = 650, D = 600
- 18 LVS08487:** plain gland plate, W = 800, D = 400
- 19 LVS08486:** plain gland plate, W = 650, D = 400
- 20 LVS08719 x 2:** double depth combination kit
- 21 LVS08717 x 2:** IP55 sealing kit for side-by-side combinations

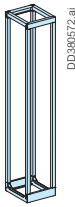
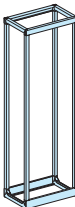
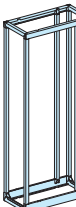
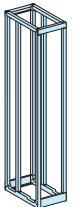
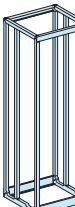
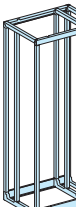




Combination of cubicles with transparent doors.



Cubicles Frameworks

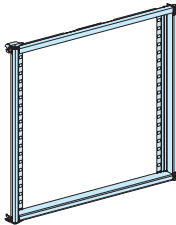
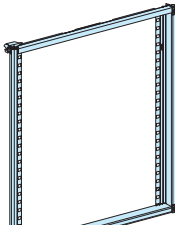
Enclosures

Mounting	Frameworks										
											
Width (mm)	300	400	650	800	800 (650 + 150)	300	400	650	800	800 (650 + 150)	
	Depth 400 mm					Depth 600 mm					
Cat. no.	LVS08403	LVS08404	LVS08406	LVS08408	LVS08407	LVS08603	LVS08604	LVS08606	LVS08608	LVS08607	
Composition	2 frames					equipped with intermediate uprights for the mounting plates					3 frames
	-					+ 2 additional uprights					
	<ul style="list-style-type: none"> <li>4 cross-pieces.</li> <li>Mounting hardware.</li> <li>Framework combinations</li> </ul>										
Characteristics	<ul style="list-style-type: none"> <li>Cubicles can be combined side-by-side and back-to-back.</li> <li>Can be equipped with IP30 or IP55 cover panels.</li> </ul> <p><b>Note:</b> for the 800 mm width, the busbar compartment can be on the left or right</p>										

Mounting	Hinged front plate frame support	
		
Width (mm)	400	650
Cat. no.	LVS08564	LVS08566 (1)
Characteristics	<ul style="list-style-type: none"> <li>Reversible for left or right-hand opening.</li> <li>Secured at two points.</li> </ul> <p><b>Note:</b> can be mounted on 650 mm and 800 mm (650 + 150) wide cubicles.</p> <p>(1) For drawout MasterPacT MTZ2, hinged front plate frame support must open towards left-hand side.</p>	

Partial hinged cover-frame supports

> page E-8.

Mounting	Partial hinged cover-frame supports	
		
Width (mm)	650	
	10 modules	12 modules
Cat. no.	LVS08560	LVS08562
Characteristics	<ul style="list-style-type: none"> <li>For drawout MasterPacT MTZ2, hinged front plate frame support must open towards left-hand side.</li> </ul>	<ul style="list-style-type: none"> <li>Use for Fupact ISFL configurations.</li> <li>For drawout MasterPacT MTZ2, when hinged front plate frame support is left-hand opening.</li> </ul>

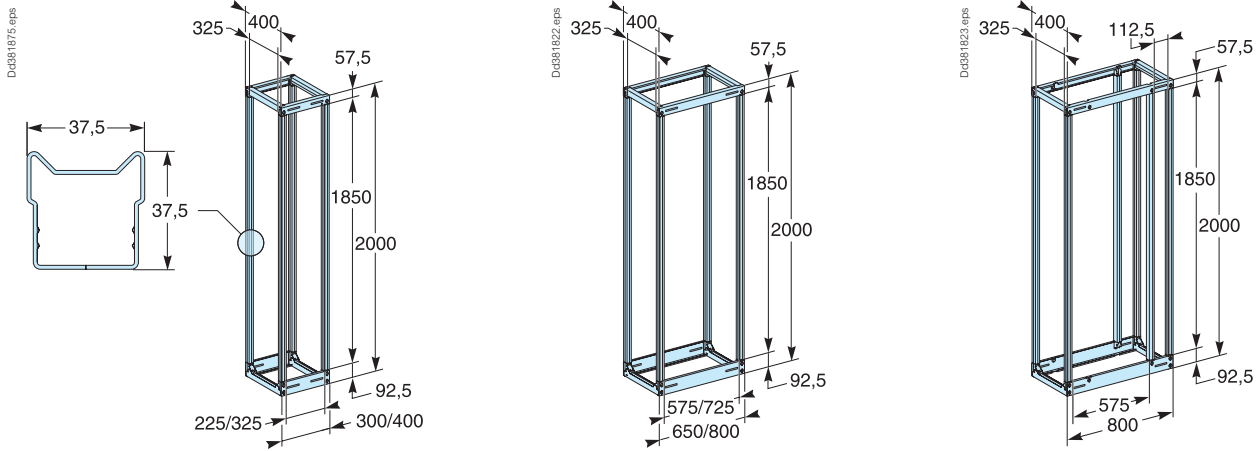
Cubicles  
Frameworks

Enclosures

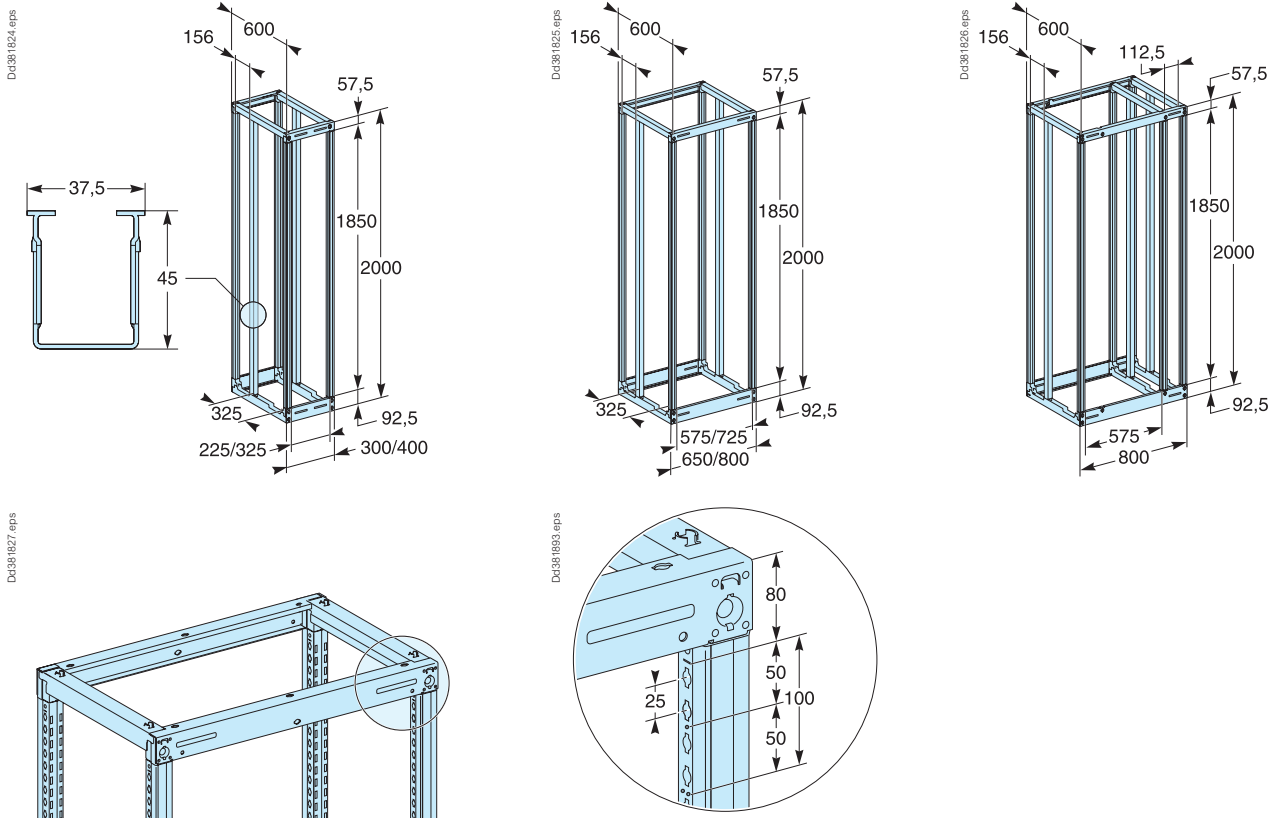
Framework combinations		
Type	Side-by-side IP55 sealing kit	Back-to-back Double depth combination kit
Cat. no.	LVS08717	LVS08719
Characteristics	The 650 and 800 mm wide frameworks are supplied with a combination kit comprising six M6 bolts. To maintain the IP55 degree of protection, an optional gasket must be installed between the combined cubicles.	The kit is made up of: <ul style="list-style-type: none"> <li>■ a set of hardware for the mechanical connections between the cross-pieces</li> <li>■ six assembly plates to connect the uprights</li> <li>■ the IP55 sealing kit.</li> </ul>

Accessories		
Type	Commodities Fixing screws and nuts	
Cat. no.	LVS08921	LVS08718
Characteristics	Set of 20 screws + wing nuts for framework	Set of 10 screws + combination accessories

Frameworks, D = 400 mm



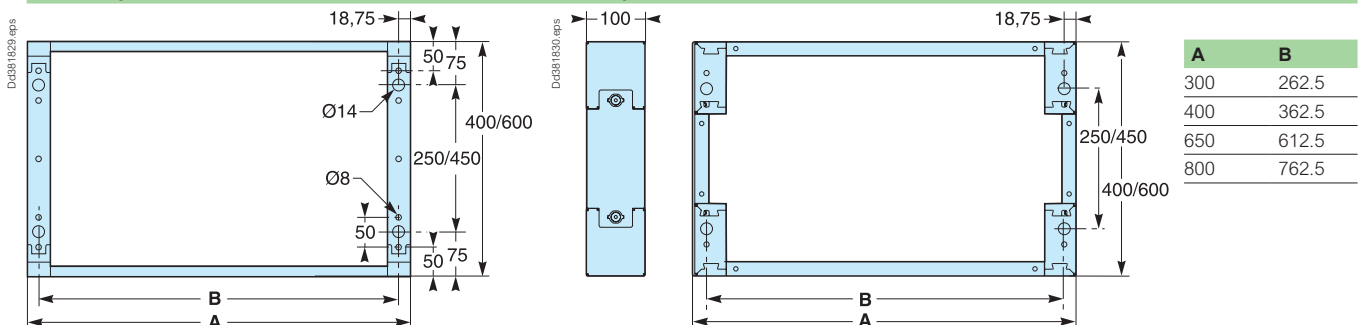
Frameworks, D = 600 mm



Fixing to floor

Without plinth

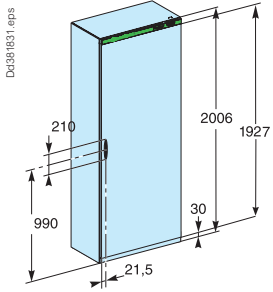
With plinth



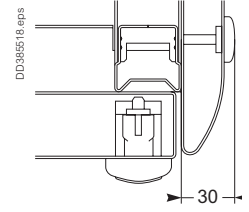
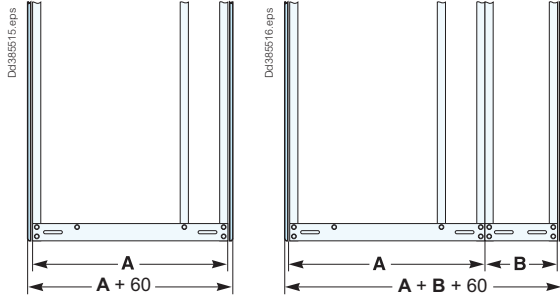
Dimensions

Cubicle with cover panels

Height

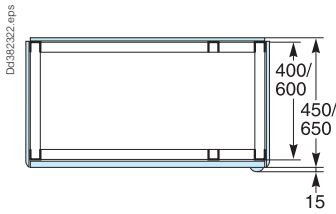


Width

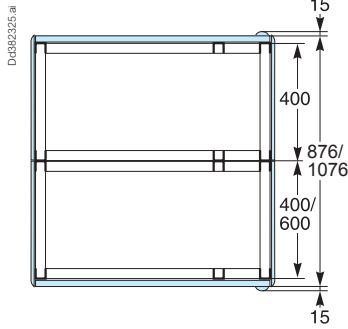
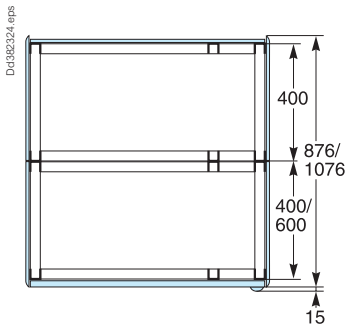
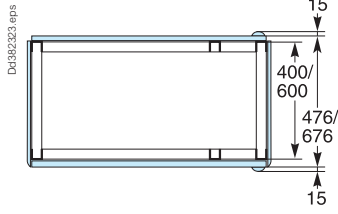


Depth

Door in front and panel in rear

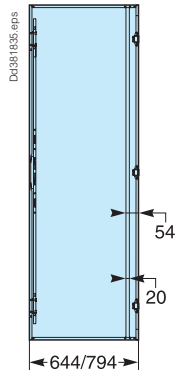
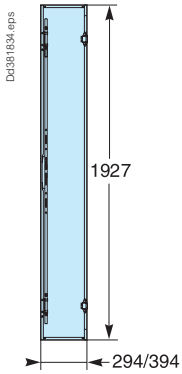


Doors front and rear

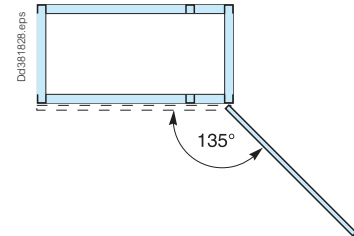
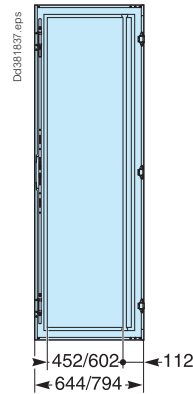
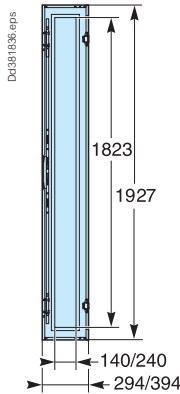


Door

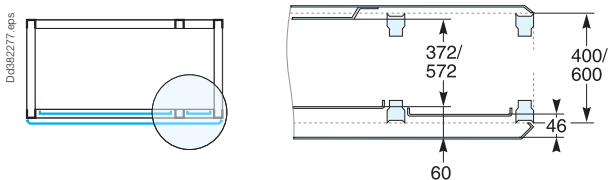
IP30 door



IP55 door

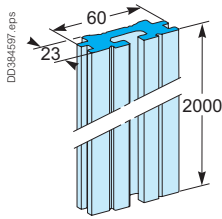


Available space behind door

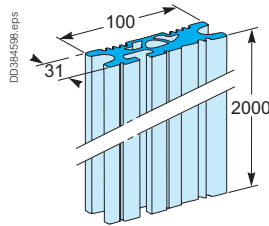


Linery LGYE busbars

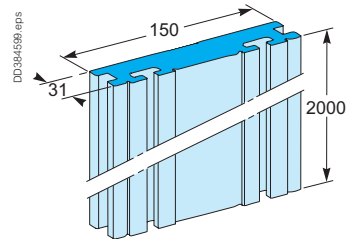
630 A - 1600 A



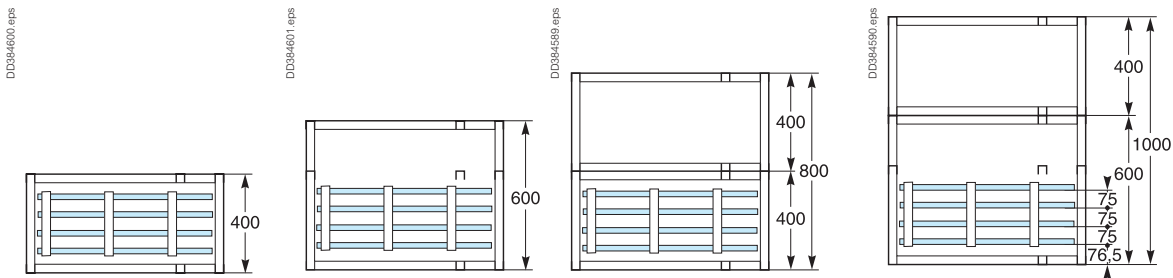
2000 A - 2500 A



3200 A - 4000 A

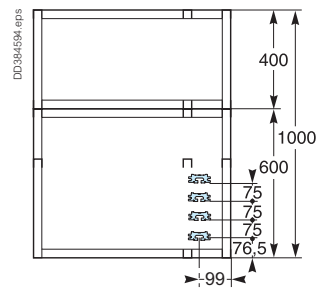
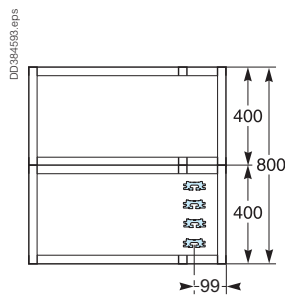
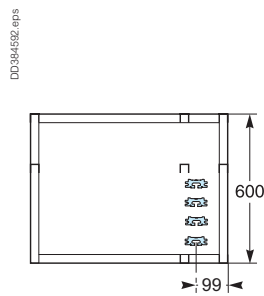
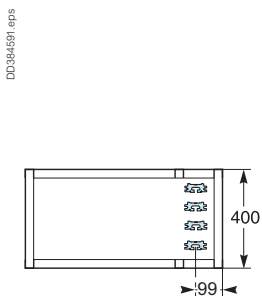


Layout of horizontal Linery LGYE busbars

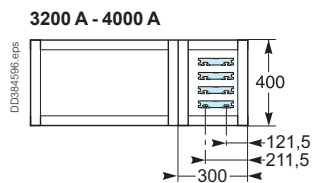
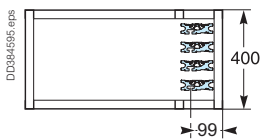


Layout of vertical Linery LGYE busbars

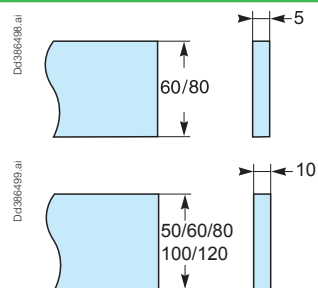
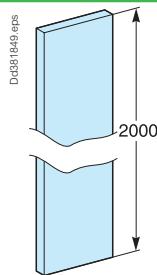
630 A - 1600 A



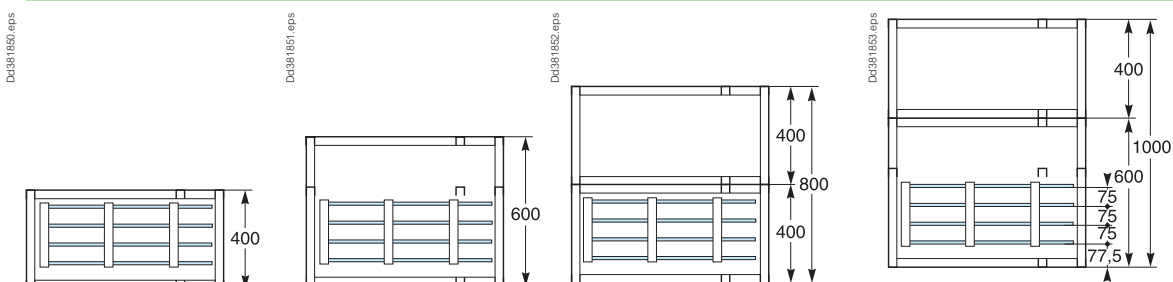
2000 A - 2500 A



Horizontal Linery BS busbars



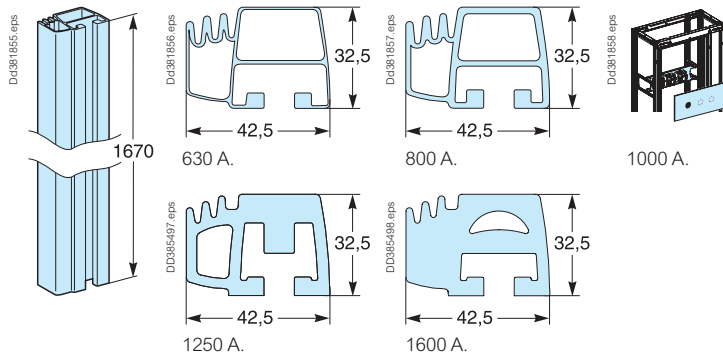
Layout of horizontal Linery BS busbars



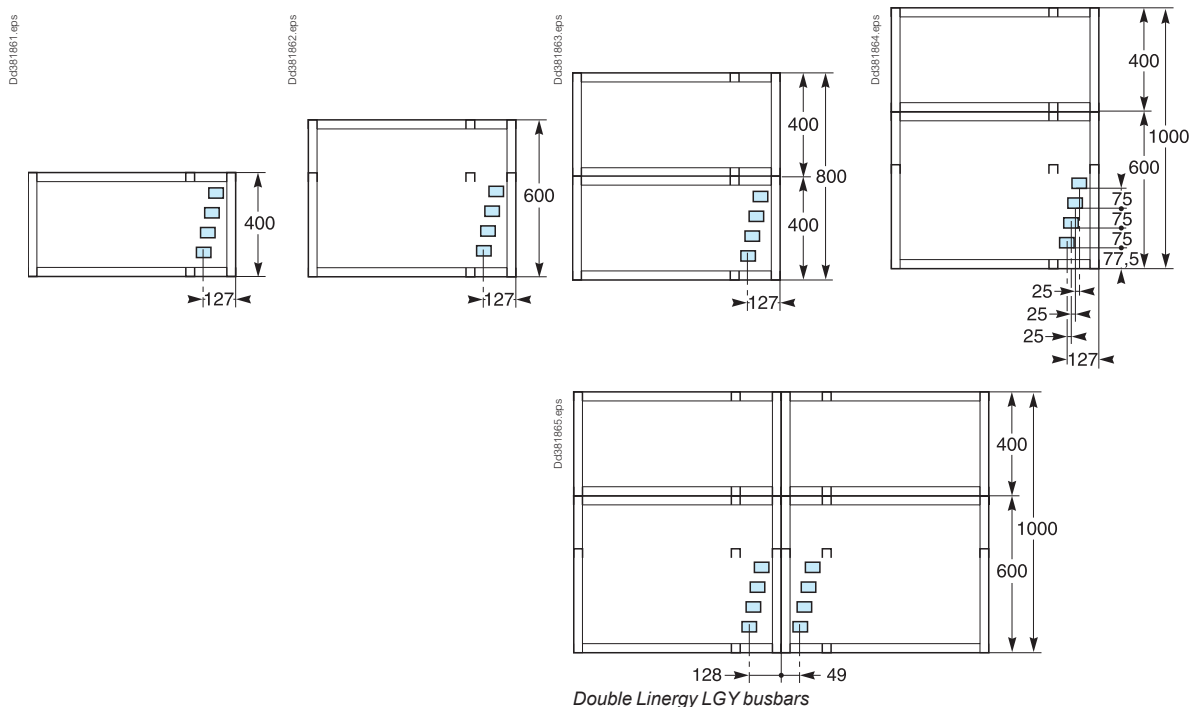
# Cubicles

## Dimensions

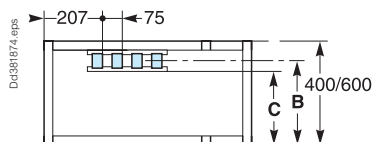
### Vertical Linergy LGY busbars



### Layout of Linergy LGY busbars



### Layout of rear Linergy BS busbars



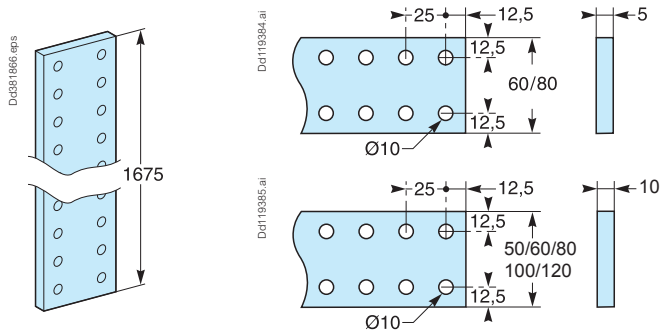
D = 400 mm **B** 284

**C** 242

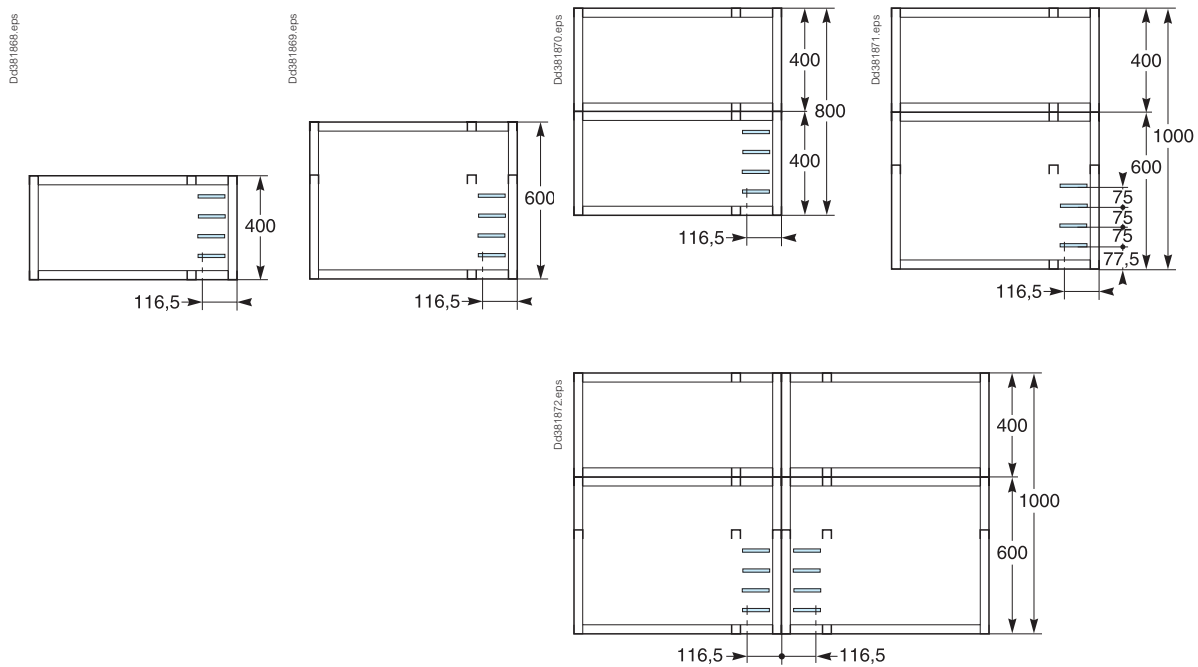
D = 600 mm **B** 484

**C** 442

Vertical Linergy BS busbars

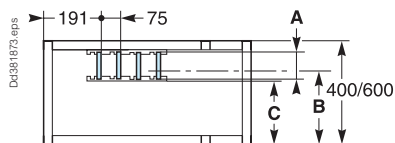


Layout of lateral Linergy BS busbars



Double Linergy BS busbars.

Layout of rear Linergy BS busbars



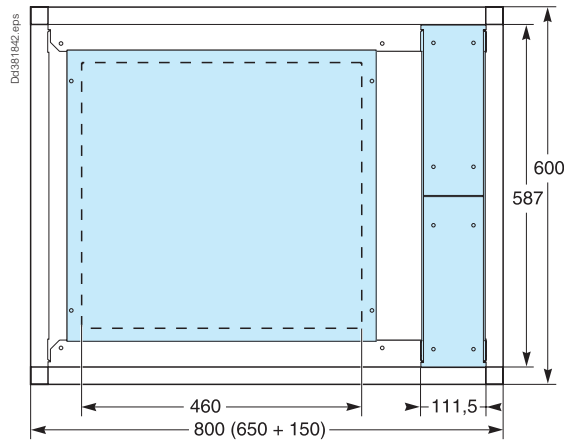
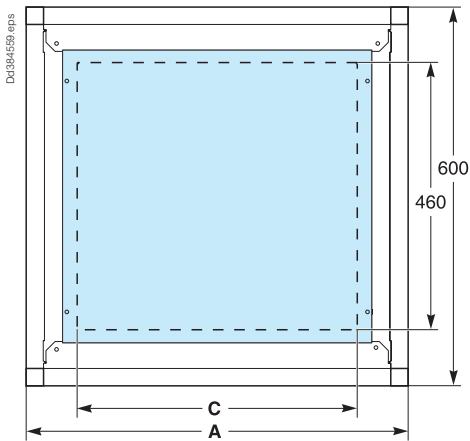
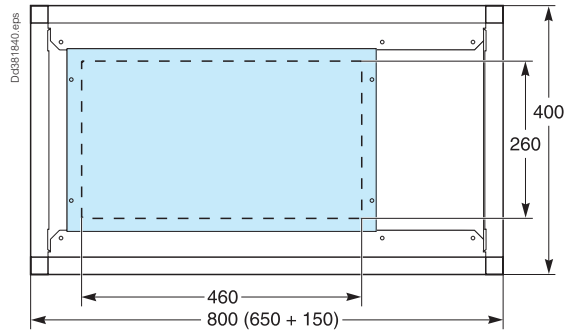
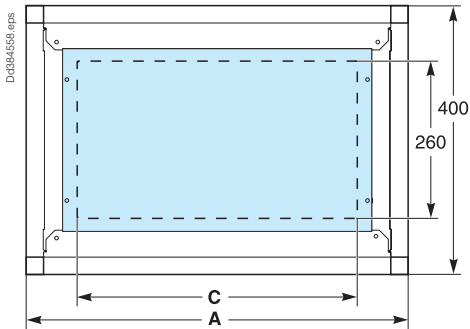
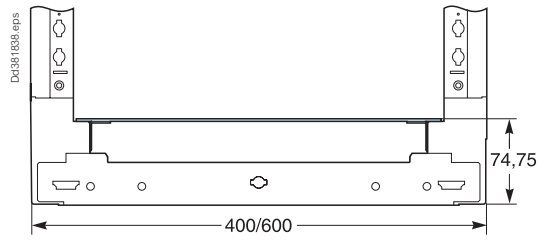
	A	50	60	80
D = 400 mm	B	284	274	254
	C	250	240	220
D = 600 mm	B	484	474	454
	C	450	440	420



Dimensions

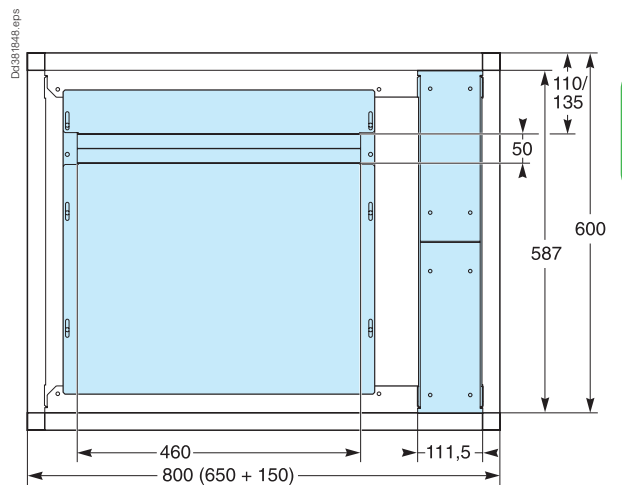
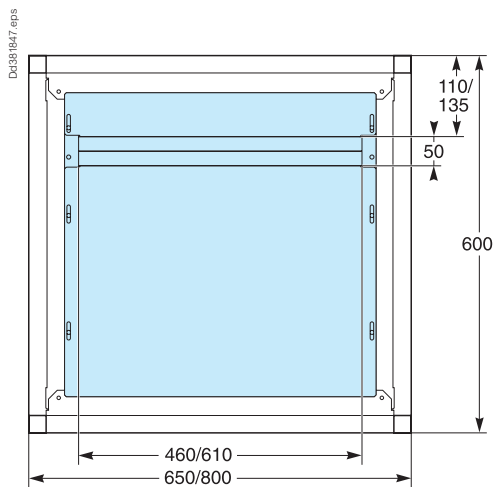
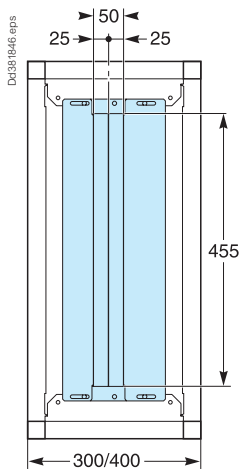
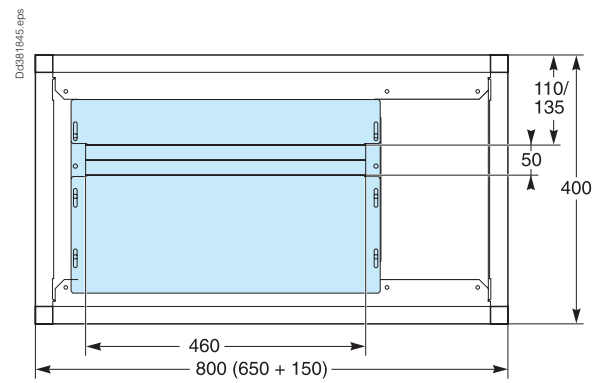
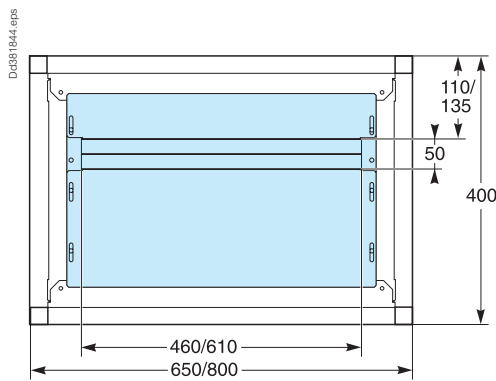
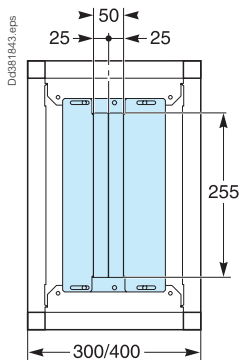
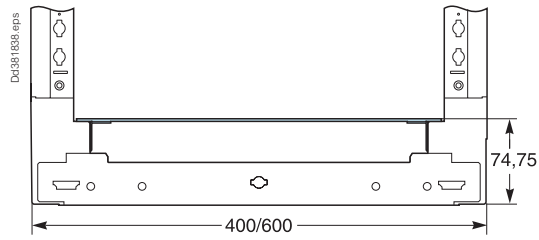
Plain gland plates

A	C
300	110
400	210
650	460
800	610



Dimensions

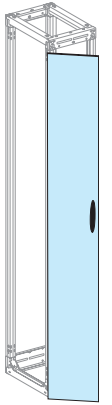
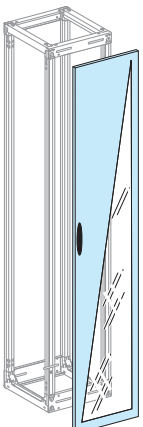
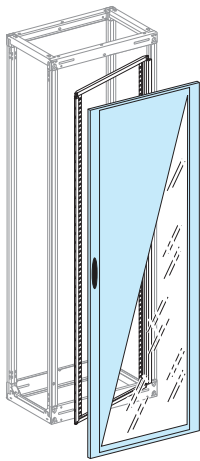
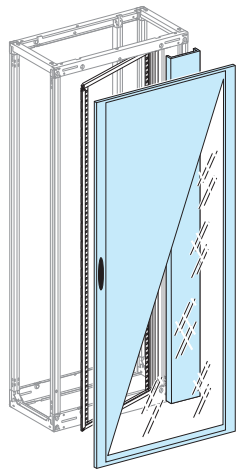
Two-part gland plates

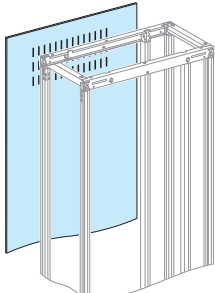

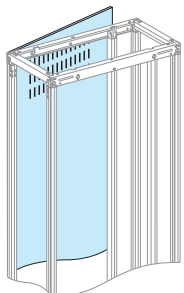



# Cubicles

## IP30/31 cover panels

### Enclosures

Mounting	Front doors			
				
<b>Dimensions (mm)</b>	<b>W = 300</b>	<b>W = 400</b>	<b>W = 650</b>	<b>W = 800</b>
Plain door	LVS08513	LVS08514	LVS08516	LVS08518
Transparent door	-	LVS08534	LVS08536	LVS08538
Door with cut-out	LVS08593	LVS08594	-	-
Reinforced plain door	-	-	LVS01224	LVS01225
Characteristics	<ul style="list-style-type: none"> <li>■ Reversible for left or right-hand opening IP31.</li> <li>■ Equipped with a handle and keylock (key 405).</li> <li>■ Plain door is IK10 with 3 hinges.</li> <li>■ Reinforced plain door is IK10 with 3 hinges.</li> <li>■ Transparent door is IK10 with 3 hinges.</li> </ul> <p>For other possibilities &gt; <a href="#">page F-29</a>.</p> <p><b>Note:</b> the door with cut-out can be equipped with front plates for 72 x 72 or 96 x 96 instruments &gt; <a href="#">page E-65</a>. The 800 mm door is supplied with a 150 mm barrier for the side compartment, plus a finishing accessory to improve the appearance of the upright.</p>			
Cover frame	-	LVS08574	LVS08576	LVS08578 (1)

Mounting	Rear panels			
				
<b>Dimensions (mm)</b>	<b>W = 300</b>	<b>W = 400</b>	<b>W = 650</b>	<b>W = 800</b>
Rear panel	LVS08733	LVS08734	LVS08736	LVS08738
Characteristics	<ul style="list-style-type: none"> <li>■ Made up of two half panels with vents.</li> <li>■ Supplied with quarter-turn fasteners.</li> </ul>			

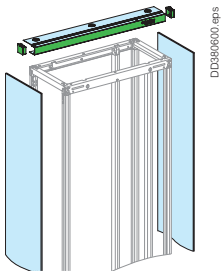
(1) For 800 mm wide frameworks, the 650 mm frame is supplied with a plain wicket door, 150 mm wide.

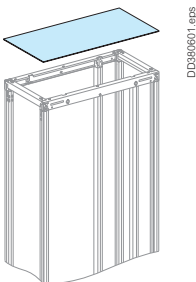
# Cubicles

IP30/31 cover panels

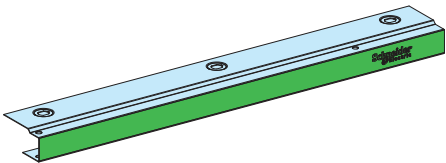
Right angle kit

## Enclosures

Mounting	Side panels	
		
Dimensions (mm)	D = 400	D = 600
Side panels	LVS08750	LVS08760
Characteristics	Supplied with quarter-turn fasteners.	

Mounting	Roof			
				
Dimensions (mm)	W = 300	W = 400	W = 650	W = 800
Plain roof D = 400 mm	LVS08433	LVS08434	LVS08436	LVS08438
Plain roof D = 600 mm	LVS08633	LVS08634	LVS08636	LVS08638
Characteristics	<ul style="list-style-type: none"> <li>■ Supplied with quarter-turn fasteners for mounting on the framework</li> <li>■ With markings for cut-outs, if necessary.</li> </ul>			
IP31 sealing kit	LVS08711			
Characteristics	The kit is made up of a self-adhesive gasket that attaches to the roof and a deflector. It ensures the IP31 degree of protection for a 650 or 800 mm wide cubicle, or for two cubicles (800 + 400) when they are equipped with plain or transparent front doors.			

**Green Cover to fix on top of each frame**

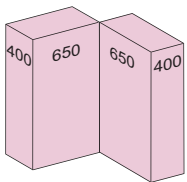
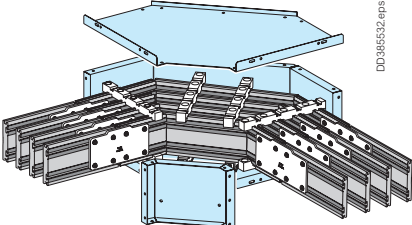
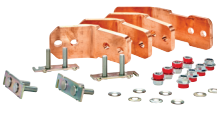
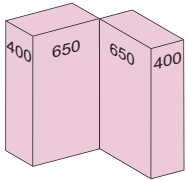
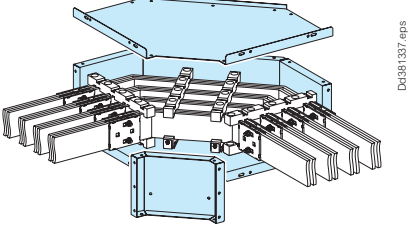
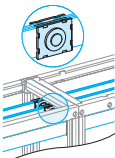
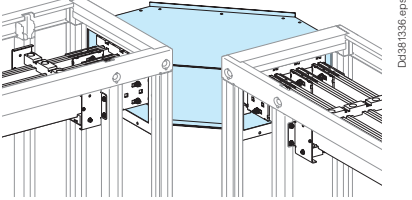
				
Dimensions (mm)	W = 300	W = 400	W = 650	W = 800
	LVS08640	LVS08641	LVS08642	LVS08643
Characteristics	To cover the top of each section which does not have Voltage Presence Indicator.			

F

# Cubicles

IP30/31 cover panels

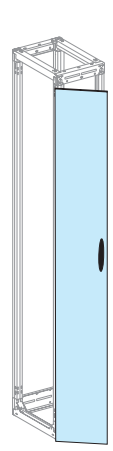
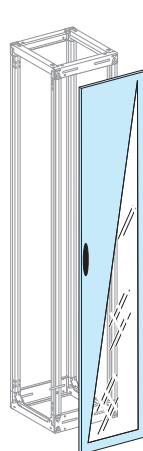
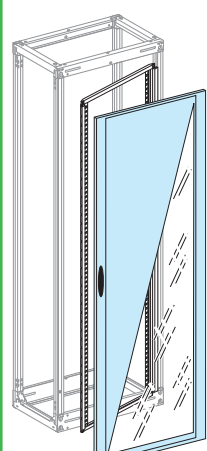
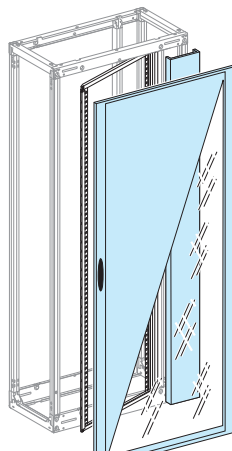
Right angle kit

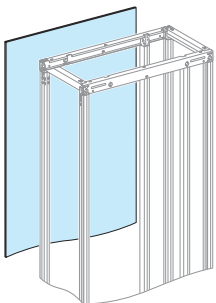

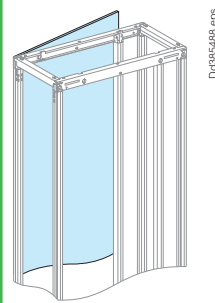

kit IP30 for Linergy LGYE	Right-angle	Fish plates kit						
								
cat. number	<b>LVS08712</b>	<table border="1"> <tr> <td><b>630-1600 A</b></td> <td><b>2000-2500 A</b></td> <td><b>3200-4000 A</b></td> </tr> <tr> <td>2 x <b>LVS04610</b></td> <td>2 x <b>LVS04611</b></td> <td>2 x <b>LVS04613</b></td> </tr> </table>	<b>630-1600 A</b>	<b>2000-2500 A</b>	<b>3200-4000 A</b>	2 x <b>LVS04610</b>	2 x <b>LVS04611</b>	2 x <b>LVS04613</b>
<b>630-1600 A</b>	<b>2000-2500 A</b>	<b>3200-4000 A</b>						
2 x <b>LVS04610</b>	2 x <b>LVS04611</b>	2 x <b>LVS04613</b>						
Characteristics	<ul style="list-style-type: none"> <li>■ Metal duct with busbar supports</li> <li>■ Used to create and protect the connection of horizontal busbars between two cubicles installed at right angles.</li> <li>■ This kit needs a Linergy LGYE busbar of 1080 mm length.</li> </ul>	<ul style="list-style-type: none"> <li>■ Order the additional joint kit, comprising the 4 copper connections and mounting hardware:</li> </ul>						
kit IP30 for Linergy BS	Right-angle	Fish plates kit						
								
cat. number	<b>LVS08713</b>	<table border="1"> <tr> <td><b>bars H 50/60</b></td> <td><b>bars H 80/100</b></td> </tr> <tr> <td>2 x <b>LVS04640</b></td> <td>2 x <b>LVS04641</b></td> </tr> </table>	<b>bars H 50/60</b>	<b>bars H 80/100</b>	2 x <b>LVS04640</b>	2 x <b>LVS04641</b>		
<b>bars H 50/60</b>	<b>bars H 80/100</b>							
2 x <b>LVS04640</b>	2 x <b>LVS04641</b>							
Characteristics	<ul style="list-style-type: none"> <li>■ Metal duct</li> <li>■ Used to create and protect the connection of horizontal busbars between two cubicles installed at right angles.</li> </ul>	<p>Order:</p> <ul style="list-style-type: none"> <li>■ fixed support 2 x <b>LVS04664</b> (if 100 x 10 bar, add 2 x <b>LVS04671</b>)</li> <li>■ free support 2 x <b>LVS04662</b> (if 100 x 10 bar, add 2 x <b>LVS04671</b>)</li> </ul>						
								

# Cubicles

## IP55 cover panels

### Enclosures

Mounting	Front doors			
				
<b>Dimensions (mm)</b>	<b>W = 300</b>	<b>W = 400</b>	<b>W = 650</b>	<b>W = 800</b>
Plain door	<b>LVS08523</b>	<b>LVS08524</b>	<b>LVS08526</b>	<b>LVS08528</b>
Transparent door		<b>LVS08544</b>	<b>LVS08546</b>	<b>LVS08548</b>
Characteristics	<ul style="list-style-type: none"> <li>■ Equipped with a factory-mounted polyurethane (PUR) gasket, IP55.</li> <li>■ Reversible for left or right-hand opening</li> <li>■ Equipped with a handle and keylock (key 405).</li> </ul> For other possibilities > <a href="#">page F-29</a> . For IP55 rated configurations, front or rear mounted doors, it is necessary to follow the temperature derating tables, to ensure a convenient installation of devices. <b>Note:</b> the 800 mm door is supplied with a 150 mm barrier for the side compartment, plus a finishing accessory to improve the appearance of the upright.			

Mounting	Rear panels			
				
<b>Dimensions (mm)</b>	<b>W = 300</b>	<b>W = 400</b>	<b>W = 650</b>	<b>W = 800</b>
Rear panel	<b>LVS08743</b>	<b>LVS08744</b>	<b>LVS08746</b>	<b>LVS08748</b>
Characteristics	<ul style="list-style-type: none"> <li>■ Equipped with a factory-mounted polyurethane (PUR) gasket</li> <li>■ Supplied with mounting hardware.</li> <li>■ One-piece, reinforced panel designed to ensure the degree of protection.</li> </ul>			



# Cubicles

## IP55 cover panels

### Enclosures

Mounting	Side panels	
<b>Dimensions (mm)</b>	<b>D = 400</b>	<b>D = 600</b>
Side panels	<b>LVS08755</b>	<b>LVS08765</b>
Characteristics	<ul style="list-style-type: none"> <li>■ Equipped with a factory-mounted polyurethane (PUR) gasket</li> <li>■ Supplied with mounting hardware.</li> </ul>	
Side panels for "L" combinations	<b>LVS08756</b>	-
Characteristics	Left or right combinations of two cubicles with different depths (400 + 400 or 400 + 600). These panels simply replace the standard side panels.	

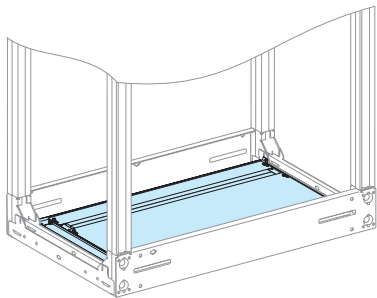
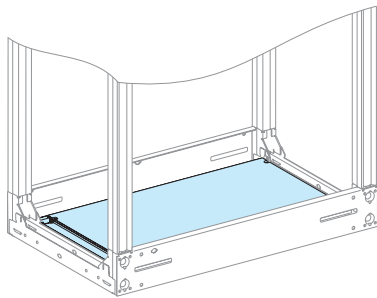
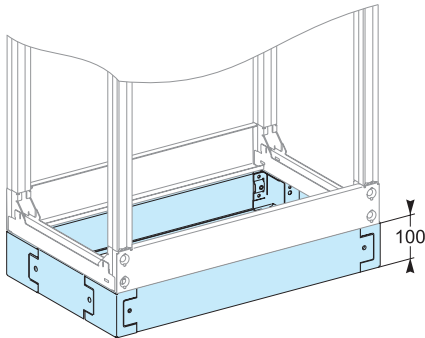
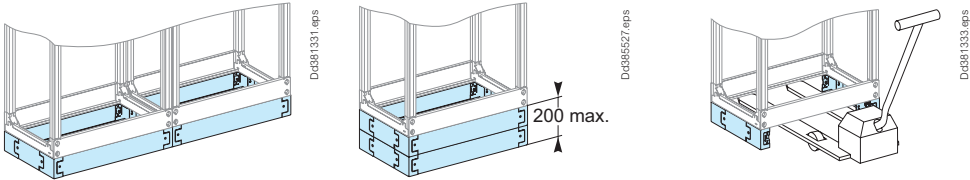
Mounting	Roof			
<b>Dimensions (mm)</b>	<b>W = 300</b>	<b>W = 400</b>	<b>W = 650</b>	<b>W = 800</b>
Plain roof D = 400 mm	<b>LVS08453</b>	<b>LVS08454</b>	<b>LVS08456</b>	<b>LVS08458</b>
Plain roof D = 600 mm	<b>LVS08653</b>	<b>LVS08654</b>	<b>LVS08656</b>	<b>LVS08658</b>
Characteristics	<ul style="list-style-type: none"> <li>■ Equipped with a factory-mounted polyurethane (PUR) gasket</li> <li>■ Supplied with mounting hardware.</li> <li>■ With markings for clear identification of cable-running zones, if necessary.</li> </ul>			

Green Cover to fix on top of each frame				
<b>Dimensions (mm)</b>	<b>W = 300</b>	<b>W = 400</b>	<b>W = 650</b>	<b>W = 800</b>
	<b>LVS08640</b>	<b>LVS08641</b>	<b>LVS08642</b>	<b>LVS08643</b>
Characteristics	To cover the top of each section which does not have Voltage Presence Indicator.			

# Cubicles

## Plinth

### Enclosures

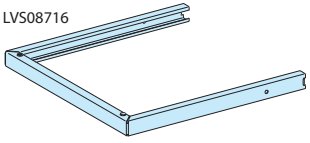
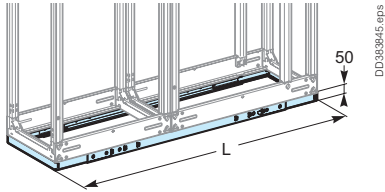
Mounting	Two-part gland plates		IP55, gland plates			
						
<b>Degree of protection</b>	IP30/IP31		IP55			
<b>Dimensions (in mm)</b>	<b>D400</b>	<b>D600</b>	<b>D400</b>	<b>D600</b>		
W = 300 mm	LVS08493	LVS08693	LVS08483	LVS08683		
W = 400 mm	LVS08494	LVS08694	LVS08484	LVS08684		
W = 650 mm	LVS08496	LVS08696	LVS08486	LVS08686		
W = 800 mm (650 + 150)	LVS08497	LVS08697	LVS08487	LVS08687		
W = 800 mm	LVS08498	LVS08698	LVS08488	LVS08688		
Mounting	Plinth H = 100 mm					
						
<b>Dimensions (mm)</b>	<b>W = 300</b>	<b>W = 400</b>	<b>W = 650</b>	<b>W = 800</b>	<b>D = 400</b>	<b>D = 600</b>
Four corner posts + two cross-pieces (front and rear)	LVS08723	LVS08724	LVS08726	LVS08728	-	-
Two side plates	-	-	-	-	LVS08720	LVS08721
Characteristics	The plinth is made up of two Catalog numbers: <ul style="list-style-type: none"> <li>■ one Catalog number comprising four corner posts + two cross-pieces (front and rear), that can be used in side-by-side combinations or stacked to form a plinth 200 mm high (maximum)</li> <li>■ one Catalog number comprising two side plates (400 or 600 mm).</li> </ul> Each Catalog number is supplied with the necessary hardware.					
Examples	 <p>Side-by-side combination of two cubicles with a plinth. Two stacked plinths. The front and rear cross-pieces can be easily removed for a pallet-mover.</p>					

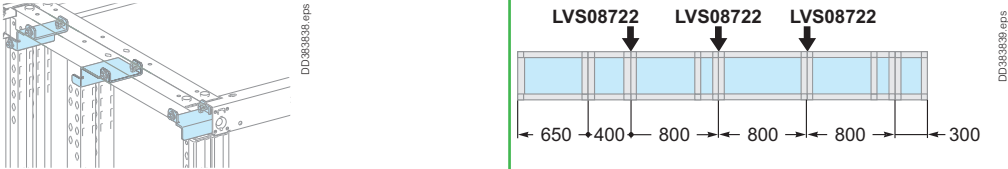


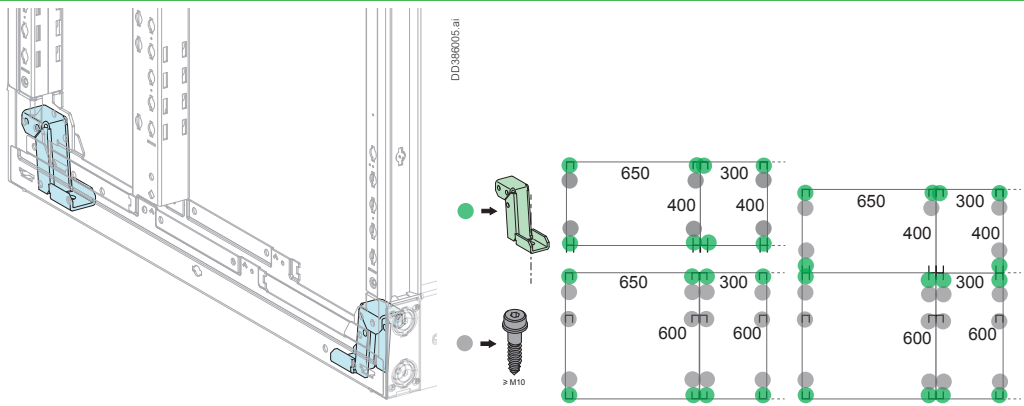
# Cubicles

## Cubicle handling and Lifting reinforcement kit

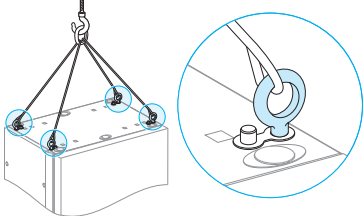
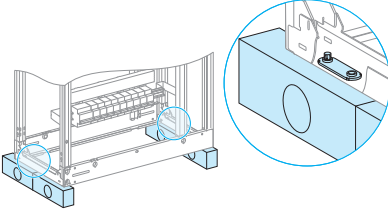
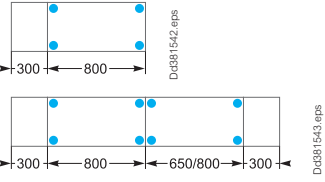
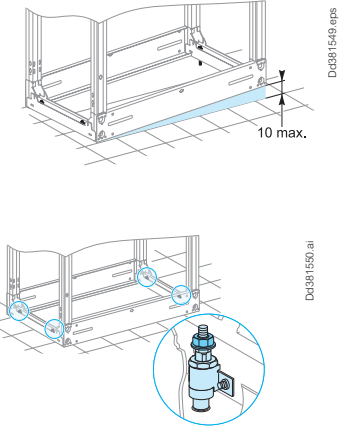
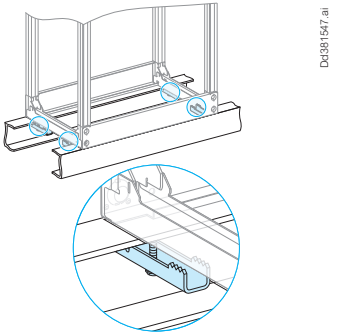
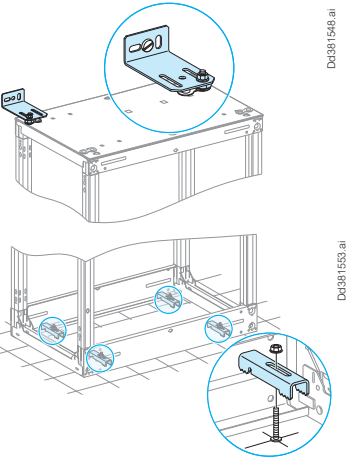
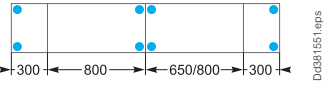
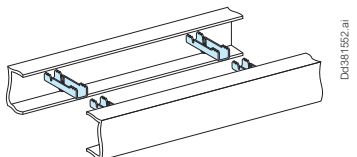
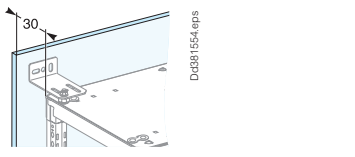
### Enclosures

Mounting		Cubicle handling and rolling base				
						
<b>Dimensions (mm)</b>		<b>D = 400</b>	<b>D = 600</b>	<b>L1200 to L1900</b>	<b>L2000 to L2550</b>	<b>L2650 to L3050</b>
2 cubicle handling base end-pieces		<b>LVS08714</b>	<b>LVS08716</b>	-	-	-
Cubicle handling		-	-	-	<b>LVS08706</b>	-
Characteristics	<p>This type of base is designed to avoid any risk of cubicle deformation during transport and handling. Five different Catalog numbers offer 27 width possibilities (1200 to 3050 mm) for 400 and 600 mm deep cubicles.</p> <ul style="list-style-type: none"> <li>■ Two Catalog numbers each include 2 end-pieces for handling bases for 400 and 600 mm deep cubicles respectively and the corresponding mounting hardware.</li> <li>■ Three Catalog numbers each include 2 lengths for the sides of handling bases for 1200 to 3050 mm wide cubicles respectively and the corresponding mounting hardware.</li> </ul> <p>Handling bases can be used for both side-by-side and back-to-back cubicle combinations. In this case, the mounting hardware for one of the sets is used.</p>					

Mounting		Lifting reinforcement kit	
			
<b>Dimensions (mm)</b>		<b>D = 400, D = 600</b>	
Lifting reinforcement kit		<b>LVS08722</b>	
Characteristics	<p>Kit LVS08722 is recommended for lifting combined cubicles and can be used together with handling base end-pieces LVS08714 or LVS08716 for severe transport or handling conditions. Catalog number LVS08722 includes 3 reinforcement brackets for 400 or 600 mm deep cubicles and the corresponding mounting hardware.</p>		

Mounting		Seismic Kit	
			
Reinforcement bracket		<b>LVS08710</b>	
Characteristics	<p>Catalog number ref LVS08710 includes 1 reinforcement bracket and 4 M6 screws.</p> <ul style="list-style-type: none"> <li>■ Plinths are not allowed with seismic kits.</li> </ul>		

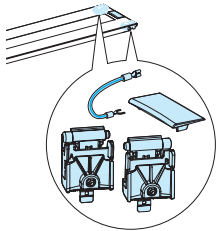
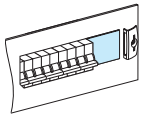
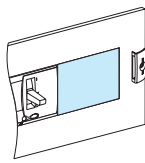
Type of cubicle	W300		W400		W650		W650 + W150	
	D = 400	D = 600	D = 400	D = 600	D = 400	D = 600	D = 400	D = 600
Framework	<b>LVS08403</b>	<b>LVS08603</b>	<b>LVS08404</b>	<b>LVS08604</b>	<b>LVS08406</b>	<b>LVS08606</b>	<b>LVS08407</b>	<b>LVS08607</b>
Reinforcement bracket	<b>LVS08710</b> x 4				<b>LVS08710</b> x 4		<b>LVS08710</b> x 6	
Longitudinal cross men	<b>LVS08773</b>		<b>LVS08774</b>		<b>LVS03587</b> x 2			
Lateral cross member	<b>LVS03584</b> x 2	<b>LVS03584</b> x 2 + <b>LVS03586</b> x 2	<b>LVS03584</b> x 2	<b>LVS03584</b> x 2 + <b>LVS03586</b> x 2	<b>LVS03584</b> x 2		<b>LVS03584</b> x 2 + <b>LVS03586</b> x 2	
M10 screw (not supplied)	4	6	4	6	4		6	
Side panels IP55 mandatory for IP30 and IP55 configurations	<b>LVS08755</b>	<b>LVS08765</b>	<b>LVS08755</b>	<b>LVS08765</b>	<b>LVS08755</b>	<b>LVS08765</b>	<b>LVS08755</b>	<b>LVS08765</b>

Mounting	Lifting rings	Framework stabiliser kit	
	 <p style="text-align: right; font-size: small;">Dc3811541.ai</p>	 <p style="text-align: right; font-size: small;">Dc381546.ai</p>	
Cat. no.	<b>LVS08700</b>	<b>LVS08701</b>	
Characteristics	<ul style="list-style-type: none"> <li>■ Set of four lifting rings screwed to the framework.</li> <li>■ Use a set of lifting rings for each framework (W = 650 and 800 mm) containing devices.</li> <li>■ When two cubicles with devices have been combined, use a lifting beam.</li> <li>■ can be installed and removed without removing the roof</li> <li>■ even if they are left attached, the switchboard conserves its original degree of protection.</li> </ul>  <p style="font-size: x-small;">Dc3811542.eps Dc3811543.eps</p> <p>Positions of the lifting rings for two combined cubicles containing devices. In this case, a lifting beam must be used.</p>	<ul style="list-style-type: none"> <li>■ Made up of four blocks under the framework</li> <li>■ Suitable for all types of cubicles, whatever the width and depth</li> <li>■ Increases the stability of the cubicle during mounting of devices</li> <li>■ Makes possible cubicle handling using a pallet mover or a forklift</li> <li>■ Protects the front, side and rear cover panels during handling</li> <li>■ Can be reused.</li> </ul>	
Mounting	Levelling kit	False floor fixing kit	Floor/wall fixing kit
	 <p style="text-align: right; font-size: small;">Dc3811549.eps Dc3811550.ai</p>	 <p style="text-align: right; font-size: small;">Dc3811547.ai</p>	 <p style="text-align: right; font-size: small;">Dc3811548.ai Dc3811553.ai</p>
Cat. no.	<b>LVS08702</b>	<b>LVS08703</b>	<b>LVS08704</b>
Characteristics	<ul style="list-style-type: none"> <li>■ Set of 4 fixtures</li> <li>■ can be installed at any time, even when the cubicle is already in position</li> <li>■ maximum adjustment range = 10 mm</li> <li>■ secures the cubicle to the floor.</li> </ul>  <p style="font-size: x-small;">Dc3811551.eps</p> <p>Recommended positions of the fixtures for combined cubicles.</p>	<ul style="list-style-type: none"> <li>■ Made up of four independent clamps</li> <li>■ clamp on: <ul style="list-style-type: none"> <li>□ "U" sections: H = 175 mm, W = 70 mm</li> <li>□ "I" sections: H = 120 mm, W = 64 mm</li> </ul> </li> <li>■ clamp travel = 11 mm.</li> </ul>  <p style="text-align: right; font-size: x-small;">Dc3811552.ai</p>	<ul style="list-style-type: none"> <li>■ Made up of two brackets and four clamps</li> <li>■ can be used to offset the switchboard fixing points for easier access</li> <li>■ the wall brackets ensure sufficient wall clearance (at least 30 mm) for natural convection.</li> </ul>  <p style="text-align: right; font-size: x-small;">Dc3811554.eps</p>



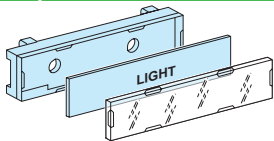
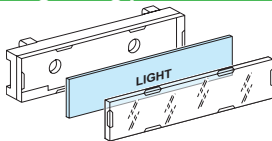
Front plate accessories, blanking plates

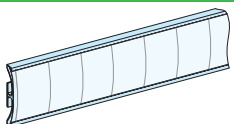
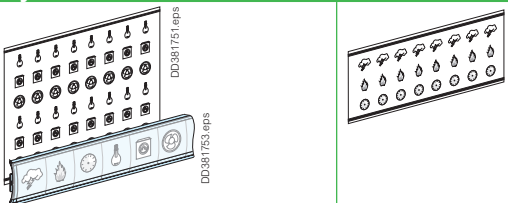
Enclosures

Used for	Front plate hinge kit	Blanking plates			
					
Cat. no.	<b>LVS08585 (1)</b>	<b>For modular devices</b>		<b>For ComPact NSX100/250</b>	
Characteristics	<ul style="list-style-type: none"> <li>Set of 2 hinges</li> <li>1 earthing braid</li> </ul>	<b>LVS03220</b>	<b>LVS03221</b>	<b>LVS03249</b>	<b>LVS03222</b>
		<ul style="list-style-type: none"> <li>Strip</li> <li>H = 46 mm, L = 1 m</li> </ul>	<ul style="list-style-type: none"> <li>Divisible</li> <li>Set of 4</li> <li>H = 46 mm, L = 90 mm</li> <li>White RAL 9003</li> </ul>	<ul style="list-style-type: none"> <li>Divisible</li> <li>H = 85 mm, L = 147 mm</li> <li>Blanc RAL 9003</li> </ul>	<ul style="list-style-type: none"> <li>Divisible + electronic trip unit</li> </ul>





(1) With a power voltage > SELV (12 V), devices on front plates must be mounted with a front plate hinge kit (cat no. LVS08585). The earthing braid must be connected to the front plate frame support (cat no. LVS08566, LVS08564, LVS08560, LVS08562 or else).  
With a power voltage > SELV (12 V) and a supply protection > 16 A, in addition to the preceding rule, the front plate frame support (cat no. LVS08566, LVS08564, LVS08560, LVS08562 or else) must be connected to the cubicle frame, using an earthing braid (cat no. LVS08910 or LVS08911). (standard NF / EN 61439-1 2011 edition).

Identification labels

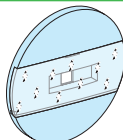
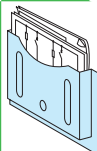
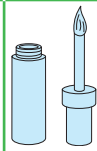
Used for	Clip-on labels			Engraving plates		
						
Cat. no.	<b>LVS08913</b>	<b>LVS08915</b>	<b>LVS08917</b>	<b>LVS08914</b>	<b>LVS08916</b>	<b>LVS08918</b>
Dimensions (mm)	18 x 35	18 x 72	25 x 85	18 x 35	18 x 72	25 x 85
Characteristics	<ul style="list-style-type: none"> <li>Set of 12.</li> <li>The clip-on support is supplied with a paper label and a transparent cover.</li> <li>It clips onto the front plate horizontally or vertically and can be screwed to any support (plain door, plain front plate, etc.).</li> </ul>			<ul style="list-style-type: none"> <li>Set of 12.</li> <li>Simply replace the paper labels.</li> </ul>		

Used for	Adhesive labels				Symbol sheets	
						
Cat. no.	<b>LVS08905</b>	<b>LVS08906</b>	<b>LVS08903</b>	<b>LVS08904</b>	<b>13735</b>	
Dimensions (mm)	24 x 180	36 x 180	24 x 432	36 x 432	<b>13736</b>	
Characteristics	<ul style="list-style-type: none"> <li>Set of 12.</li> <li>The adhesive label holders are supplied with a paper label and a transparent cover</li> </ul>				<ul style="list-style-type: none"> <li>Set of ten symbol sheets.</li> <li>Standard symbols:                             <ul style="list-style-type: none"> <li>loads: sockets, lights, heating units, etc.</li> <li>rooms: bedroom, bathroom, etc.</li> </ul> </li> </ul>	
					<ul style="list-style-type: none"> <li>Set of ten symbol sheets</li> <li>Special symbols:                             <ul style="list-style-type: none"> <li>loads: lightning arrester, gate, swimming pool, etc.</li> <li>rooms: technical room, computer room, etc</li> </ul> </li> </ul>	

Adhesive labels for mimic diagrams

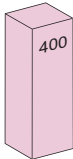
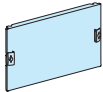
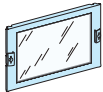
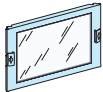
Used for	Lines	Outgoing arrows	Incoming arrows	Transformers
	 x 10	 x 10	 x 10	 x 10
Cat. no.	<b>LVS01005</b>	<b>LVS01006</b>	<b>LVS01007</b>	<b>LVS01008</b>
Characteristics	900 mm long and 7 mm thick Set of 10			

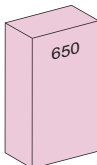
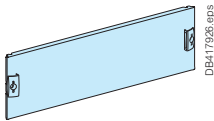
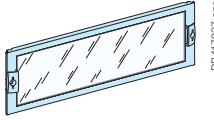
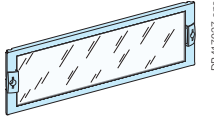
Accessories

Used for	Switchboard identification plate	Drawing holder	Touch-up accessories
			
Cat. no.	<b>LVS08900</b>	<b>LVS08963</b>	<b>LVS08961</b>
Characteristics	Color: RAL 9003	Color: RAL 9003	Color: RAL 9003

# Reserve space

Others

Reserve space								
	 DB417928 eps							
	Plain front plate W = 250 mm							
	H = 50 mm	H = 100 mm	H = 150 mm	H = 200 mm	H = 250 mm	H = 300 mm	H = 450 mm	H = 600 mm
[No. of vertical mod.]	[1]	[2]	[3]	[4]	[5]	[6]	[9]	[13]
Catalog number	LVS03811	LVS03812	LVS03813	LVS03814	LVS03815	LVS03816	LVS03817	LVS03722
	 DB417929 eps							
	Transparent front plate W = 250 mm							
[No. of vertical mod.]	-	-	-	[4]	-	[6]	[9]	-
Catalog number	-	-	-	LVS03352	-	LVS03353	LVS03354	-

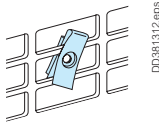
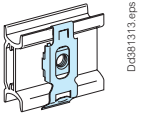
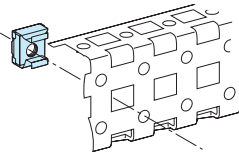
Reserve space								
	 DB417928 eps							
	Plain front plate W = 500 mm							
	H = 50 mm	H = 100 mm	H = 150 mm	H = 200 mm	H = 250 mm	H = 300 mm	H = 450 mm	H = 600 mm
[No. of vertical mod.]	[1]	[2]	[3]	[4]	[5]	[6]	[9]	[12]
Catalog number	LVS03801	LVS03802	LVS03803	LVS03804	LVS03805	LVS03806	-	LVS03808
	 DB417927 eps							
	Transparent front plate W = 500 mm							
[No. of vertical mod.]	-	-	-	[4]	-	[6]	[9]	[12]
Catalog number	-	-	-	LVS03342	-	LVS03343	LVS03344	LVS03345

F

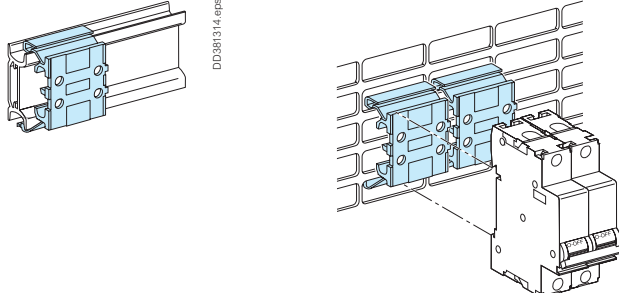
# Fixing accessories

Others

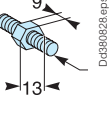
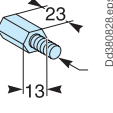
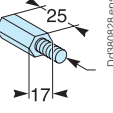
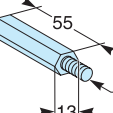
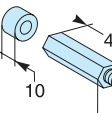
## Clip-nuts

Mounting	For slotted mounting plates	For modular rails	For lateral and longitudinal cross-members
	 DD381312.eps	 Dd381313.eps	 Dd381612.eps
M4	<b>LVS03180</b>	<b>LVS03164</b>	-
M5	<b>LVS03181</b>	<b>LVS03165</b>	-
M6	<b>LVS03182</b>	<b>LVS03166</b>	<b>LVS03194</b>
Characteristics	Set of 20 Mounting of various devices	Set of 20 Mounting of various devices	Set of 20 Mounting in cubicles

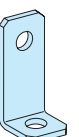
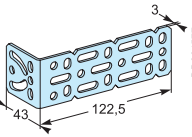
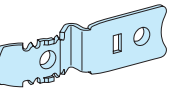
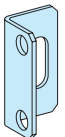

## Pratic raiser

Raiser	
	 DD381314.eps DD381516.eps
Catalog number	<b>LVS04224</b>
Characteristics	Set of 5 Height 10 mm, wide 27 mm Color: RAL 9003, insulating material

## Hexagonal spacers

Hexagonal spacers					
	 Dd380828.eps	 Dd380828.eps	 Dd380828.eps	 Dd380828.eps	 Dd380828.eps
M5	<b>LVS03185</b>	<b>LVS03186</b>	-	<b>LVS03187</b>	-
M6	<b>LVS03195</b>	<b>LVS03196</b>	<b>LVS03198</b>	<b>LVS03197</b>	-
M8	-	-	-	-	<b>LVS03199</b>
Characteristics	Height: 9 mm Set of 4	Height: 23 mm Set of 4	Height: 25 mm Set of 4	Height: 55 mm Set of 4	Height: 40 + 10 mm Set of 4

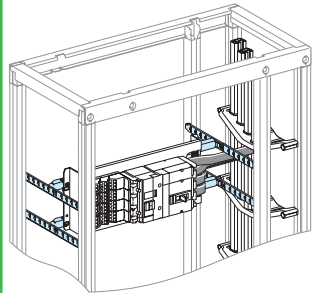
## Universal angle brackets

Universal angle brackets					
	 DD383857.eps	 DD381577.eps	 DD382820.eps	 DD383078.eps	 DD385531.eps
Catalog number	<b>LVS03580</b>	<b>LVS03581</b>	<b>LVS03582</b>	<b>LVS03583</b>	<b>LVS04667</b>
Characteristics	Set of 4 + vis	Set of 2	6 universal inserts	Set of 6	Set of 2

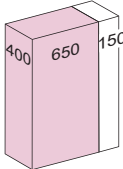
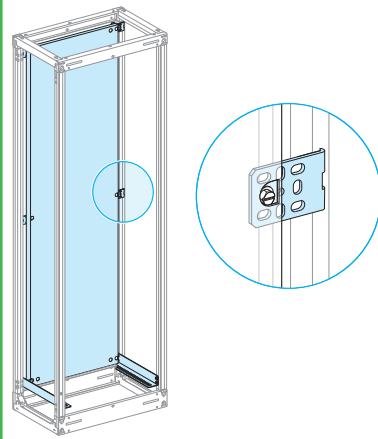
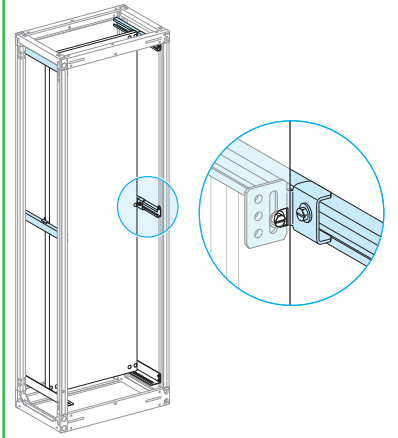
Universal adapter  
PrismaSeT G adapter  
Mounting on a plain backplate

Others

PrismaSeT G adapter

	W = 500	W = 250
		
Catalog number	<b>LVS03595</b>	<b>LVS03596</b>
Characteristics	For installation in a device compartment W = 650 mm	For installation in a device compartment W = 400 mm
	Kit with four lateral and two longitudinal cross-members that can be depth adjusted. Installation of components, notably the functional mounting plates, the Linergy BW insulated busbars and the 400 A rear Linergy BS busbars.	

Mounting on a plain backplate

Mounting	Plain backplate	Slide rails + angle brackets	
			
Catalog number	<b>LVS03570</b>	<b>LVS03569</b>	<b>LVS03593</b>
Characteristics	36 modules 510 mm wide for installation in a device compartment W = 650 mm or W = 800 mm (650 + 150)	36 modules 660 mm wide for installation for a cubicle W = 800 mm	Set of 2 for the installation and depth adjustment

**Note:** the adapter **LVS03595** can be used for all mounting plates, except **LVS03030**.

The Linergy BW busbars can be positioned to the left, middle or right of the modular row.

Depth adjustable, the busbars can be supplied by a ComPacT INS-INV switch-disconnector or a fixed/withdrawable ComPacT NSX circuit breaker, whatever the type of operating system (toggle, rotary handle, motor mechanism).

For Linergy BW busbars, order two adapters (**LVS03595** x 2).



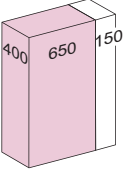
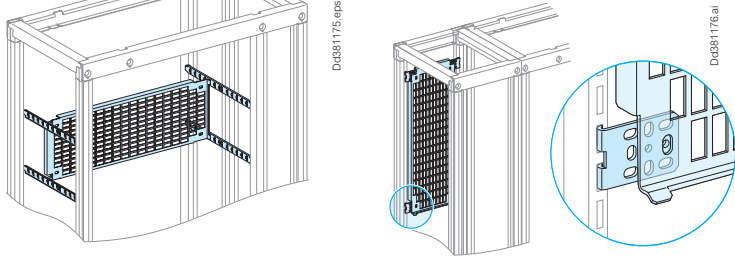
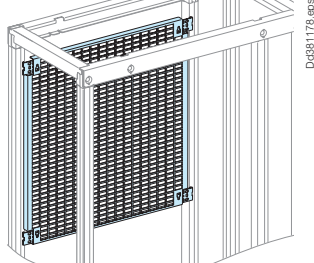
Others devices

Mounting on a slotted plate

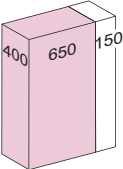
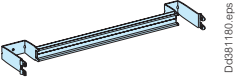
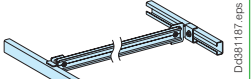
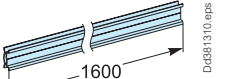
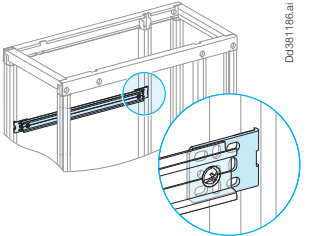
Mounting on a modular rail

Others

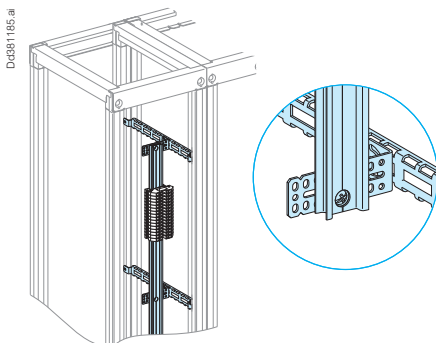
Mounting on a slotted plate

Mounting	Slotted mounting plates + lateral cross-members		Slotted mounting plate without lateral cross-members
			
Catalog number	<b>LVS03571</b>	<b>LVS03572</b>	<b>LVS03574</b>
Number of vertical modules	4	6	12
Height (mm)	200	300	600
2 universal angle brackets	-	2 x <b>LVS03581</b>	-
Characteristics	<p><b>Installation</b></p> <ul style="list-style-type: none"> <li>■ either in the device zone on the four lateral cross-members (depth adjustment is possible)</li> <li>■ or vertically at the rear of a cable compartment, W = 300 mm (LVS03571) or W = 400 mm (LVS03572).</li> </ul>		<p>Galvanised, slotted metal mounting plate</p> <p>Supplied with four angle brackets, they connect directly to the rear of a framework, W = 650 mm or 800 mm (650 + 150 mm)</p> <p>The mounting plate can also be installed using two sets of two slide rails (LVS03593 x 2) for depth adjustment.</p>

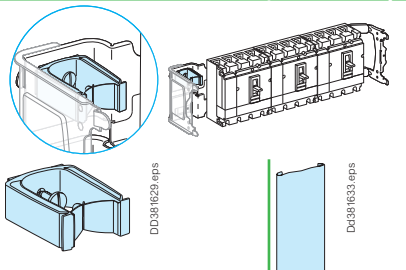

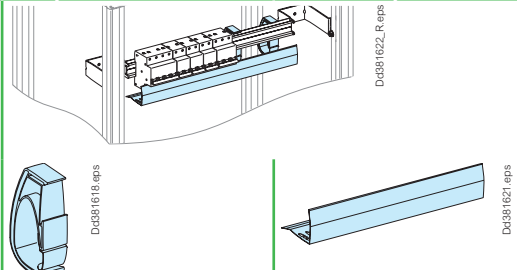
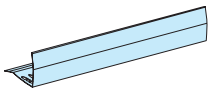
Mounting on a modular rail

Mounting	Modular rails			Modular rail W = 650 mm
				
Catalog number	<b>LVS03401</b>	<b>LVS03402</b>	<b>LVS04226 (1)</b>	<b>LVS03590</b>
Characteristics	Useful length: 432 mm	Useful length: 432 mm Modular rail (adjustable)	Set of 2 rails, useful length: 1600 mm with 4 holes, Ø 6.4 mm, 450 mm between centres	W = 650 mm Supplied with two angle brackets for mounting on the framework

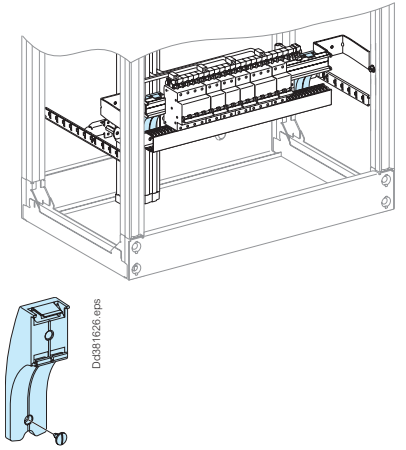
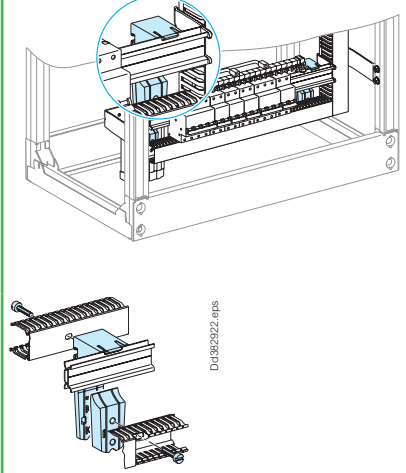
(1) Example of a Linergy busbars installed in a busbar compartment, on a modular rail cat. no. LVS04226 + LVS03581 + LVS08794: > page G-38.



Straps and covers

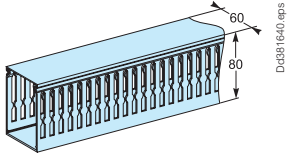
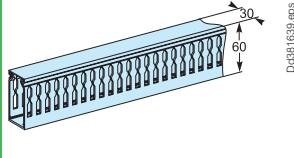
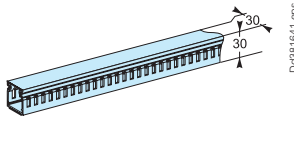
Type	Vertical cable straps	Covers for vertical cable straps	Horizontal cable straps	Covers for horizontal cable straps
				
Catalog number	<b>LVS04262</b>	<b>LVS04263</b>	<b>LVS04239</b>	<b>LVS04243</b>
Characteristics	Set of 12	Set of 2 x 1 m	Set of 12 Horizontal cable straps have the same capacity as 60 x 30 mm trunking.	Set of 4 covers of 430 mm

Trunking supports

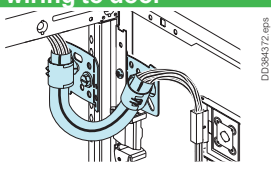
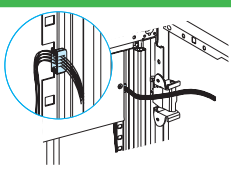
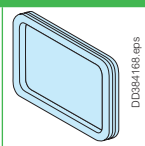

Type	Horizontal trunking supports	Adaptable support for horizontal trunking
		
Catalog number	<b>LVS04255</b>	<b>LVS04256</b>
Characteristics	Set of 12	Set of 10 Aligns the cover of a horizontal trunking section (H = 60 or 80 mm) with that of a vertical trunking section (H = 80 mm) <b>Note:</b> not designed for use with Pack enclosures.



Trunkings

Type	Vertical trunkings 80 x 60 mm	Horizontal trunkings 60 x 30 mm	Cable trunkings for doors 30 x 30 mm
			
Catalog number	<b>LVS04267</b>	<b>LVS04257</b>	<b>LVS04233</b>
Characteristics	Set of 18 L = 2000 mm	Set of 4 L = 450 mm Supplied with supports	Set of 30 adhesive trunkings 30 x 30 mm L = 2000

Cable trunkings for doors, grommets

Type	Flexible trunkings for wiring to door	Grommets		
				
Catalog number	<b>LVS04235</b>	<b>LVS04234</b>	<b>LVS01215</b>	<b>87648</b>
Characteristics	W = 500 mm, inner Ø = 19 mm	Set of 10. For wiring through front.	5 square grommets 70 x 40.	50 grommets Ø22 mm.

# Connection accessories

## Cable-tie supports, lateral and longitudinal cross-members

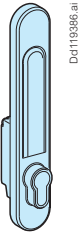
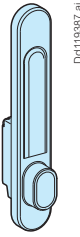

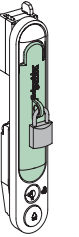
Others

Mounting	Longitudinal cable-tie supports				Lateral cable-tie supports	
Catalog number	<b>LVS08773</b>	<b>LVS08774</b>	<b>LVS08776</b>	<b>LVS08778</b>	<b>LVS08794</b>	<b>LVS08796</b>
Characteristics	W = 300 mm	W = 400 mm	W = 650 mm	W = 800 mm	D = 400 mm	D = 200 mm
	Set of 4, supplied with the necessary hardware for connection to the framework. Cable-tie supports are used to correctly position the cables in the connection compartment.				For frameworks that are 400 mm deep, assign a 400 mm deep support to a 200 mm deep support.	

Mounting	C-shaped cable-tie supports
Catalog number	<b>LVS08783</b>
Characteristics	<p>C-shaped 1600 mm long support, supplied with hardware for mounting on universal angle brackets and modular rails, that can be cut to length as needed.</p> <p>Can be secured to:</p> <ul style="list-style-type: none"> <li>■ universal angle bracket <b>LVS03581</b> (for the longitudinal support)</li> <li>■ universal angle bracket <b>LVS03582</b> (for the lateral support)</li> <li>■ modular rail <b>LVS03593</b> (for depth adjustment).</li> </ul>

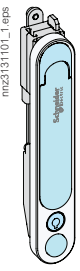






Mounting	Lateral cross-members	Longitudinal cross-members	
Catalog number	<b>LVS03584</b>	<b>LVS03586</b>	<b>LVS03587</b>
Characteristics	<p>Set of 2</p> <p>W = 400 mm: for frameworks that are 400 mm deep</p>	<p>Set of 2</p> <p>W = 200 mm: can be added to the 400 mm crossmembers for frameworks that are 600 mm deep. They can also be installed separately.</p>	<p>Set of 2</p> <p>W = 650 mm</p> <p>They are connected directly to the framework (W = 650 mm). They can also be mounted on the lateral cross-members.</p>
	Metallics, they offer numerous positioning holes for easier installation.		

Handles and padlocking

	EURO handle	ASSA/ABLOY handle	RAL 7016 rotary handle	Padlocking
	 Dd118386.ai	 Dd118387.ai	 mnc313101_1.eps	 mnc313101-p_2.eps
Cat. no.	<b>LVS07932</b>	<b>LVS07933</b>	<b>LVS07931</b>	<b>LVS07938</b>
Characteristics	Supplied without barrel	Supplied without barrel	Supplied with barrel lock (key no. 405) RAL 7016	For new rotary handle

Barrel locks, inserts


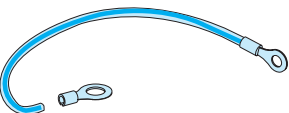
The barrel locks and inserts below can mount on all the door handles of PrismaSeT P range after removing the standard barrel lock (key n°405).

Barrels & inserts for rotary handle		Characteristics	Catalog numbers
 mnc313101_1.eps	 mnc313101_3.eps	1 key no. 405	<b>LVS07940</b>
	 mnc325301_4.eps	2 keys no. 455	<b>LVS07941</b>
		2 keys no. 1242E	<b>LVS07942</b>
		2 keys no. 3113A	<b>LVS07943</b>
		2 keys no. 2433A	<b>LVS07944</b>
		2 keys no. 2432E	<b>LVS07956</b>
	 mnc253701_5.eps	DIN double bar insert	<b>LVS07945</b>
 mnc253801_6.eps	Screwdriver slot insert	<b>LVS07946</b>	
 mnc3254101_7.eps	Male triangle insert 8 mm	<b>LVS07949</b>	
 mnc253901_8.eps	Male square insert	6 mm	<b>LVS07951</b>
		8 mm	<b>LVS07953</b>



Earthing braid

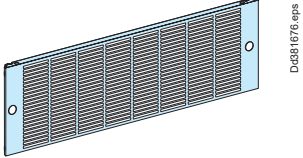
Earthing braid is used to earth a door or wicket door with devices.







	Earthing braid, 6 mm <sup>2</sup>	Earthing wire, 6 mm <sup>2</sup>
	 DD384-368.eps	 DD384-368.eps
Catalog numbers	<b>LVS08910</b>	<b>LVS08911</b>
Characteristics	Equipped with a 4 mm diameter lug at one end and a 6 mm diameter lug on the other. W = 200 mm.	Equipped with a 5 mm diameter lug at one end and a 6 mm diameter lug on the other. W = 200 mm

## Ventilation accessories

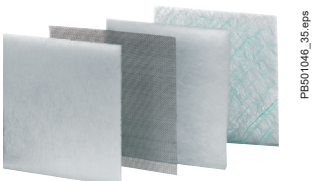
## Panel installation

Others

Front plate	Ventilated front plate	
		
Cat. no.	<b>LVS03891</b>	<b>LVS03895</b>
Height	1 vertical module, H = 50 mm	3 vertical modules, H = 150 mm
Characteristics	Degree of protection: IP30. Located at the top and bottom of the switchboard, ventilated front plates facilitate natural convection in the switchboard.	
Surface area of the openings	80 cm <sup>2</sup>	250 cm <sup>2</sup>

Forced-air ventilation	38 m <sup>3</sup> /hr	85 m <sup>3</sup> /hr	165 m <sup>3</sup> /hr	300 m <sup>3</sup> /hr	560 m <sup>3</sup> /hr	850 m <sup>3</sup> /hr
						
Cat. no.	<b>NSYCVF38M230PF</b>	<b>NSYCVF85M230PF</b>	<b>NSYCVF165M230PF</b>	<b>NSYCVF300M230PF</b>	<b>NSYCVF560M230PF</b>	<b>NSYCVF850M230PF</b>
Unimpeded throughput via filter (m <sup>3</sup> /hr)	50 Hz: 38 60 Hz: 39	85 98	165 193	300 350	562 586	838 803
Throughput via outlet grill (m <sup>3</sup> /hr)	50 Hz: 25 60 Hz: 26	63 72	153 (1) 171 (1)	260 307	473 477	718 568
Power drawn (W) (max. intensity (A))	4,5/4,8 (0,16/0,17)	17/15 (0,121/0,097)	16,3/14,3 (0,12/0,94)	36/37 (0,171/0,16)	68/85 (0,52/0,370)	150/195 (0,65/0,85)
Noise level (dB (A))	40/41	46/49	50/51	55/56	59/59	76/75
External dimensions (cutting)	137 x 117 x 49 (92 x 92)	170 x 150 x 62 (125 x 125)	268 x 248 x 104 (223 x 223)	268 x 248 x 116 (223 x 223)	336 x 316 x 161 (291 x 291)	336 x 316 x 162 (291 x 291)
Weight (kg)	0,220	0,780	1,140	1,3	3,2	4,1
Operating temperature	-10...+70 °C	-20...+60 °C	-20...+60 °C	-10...+70 °C	-15...+60 °C	-15...+60 °C

Outlet grill						
Cat. no.	<b>NSYCAG92LPF</b>	<b>NSYCAG125LPF</b>	<b>NSYCAG223LPF</b>	<b>NSYCAG223LPF</b>	<b>NSYCAG291LPF</b>	<b>NSYCAG291LPF</b>

Filters for outlet grill						
						
G2 M1 standard filters	<b>NSYCAF92</b>	<b>NSYCAF125</b>	<b>NSYCAF223</b>	<b>NSYCAF223</b>	<b>NSYCAF291</b>	<b>NSYCAF291</b>
G3 M1 fine filters	-	<b>NSYCAF125T</b>	<b>NSYCAF223T</b>	<b>NSYCAF223T</b>	<b>NSYCAF291T</b>	<b>NSYCAF291T</b>
Characteristics	Set of 5 (for replacement) Synthetic filters					

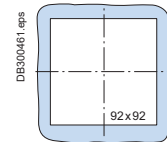
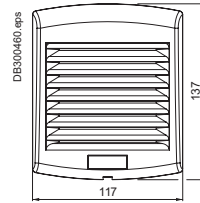
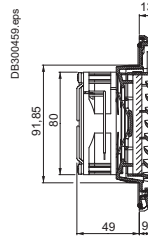
EMC cover						
Cat. no.	-	<b>NSYCAP125LE</b>	<b>NSYCAP223LE</b>	<b>NSYCAP223LE</b>	<b>NSYCAP291LE</b>	<b>NSYCAP291LE</b>

(1) For 2 outlet grills 161 (50 Hz) / 175 (60 Hz).

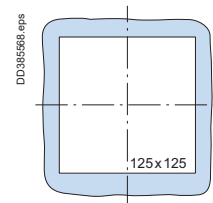
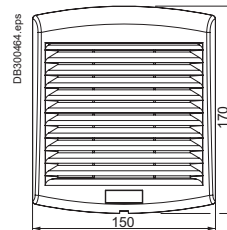
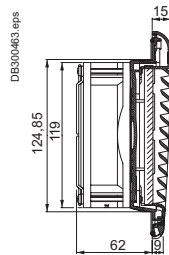
**Nota** : For other usage voltage like 50V or 110V, see Universal Enclosures catalog, cat. no. UE12MK01EN.

Dimensions

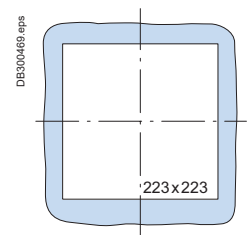
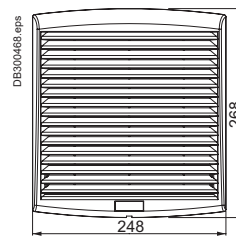
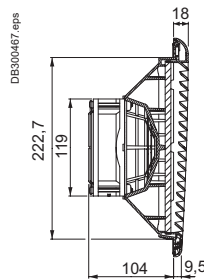
**NSYCVF38M230PF**



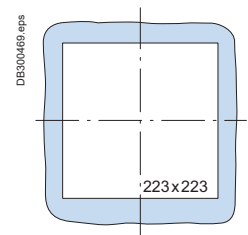
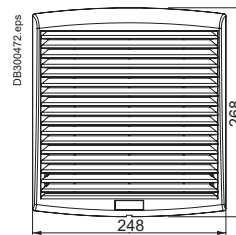
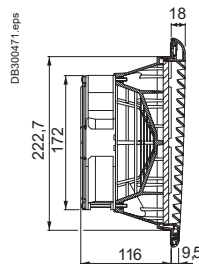
**NSYCVF85M230PF**



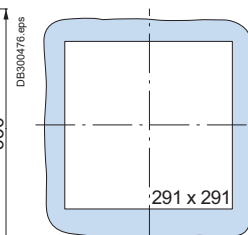
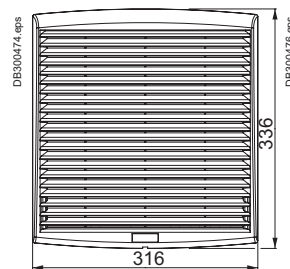
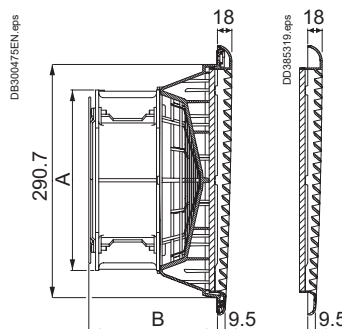
**NSYCVF165M230PF**



**NSYCVF300M230PF**



**NSYCVF560M230PF - NSYCVF850M230PF**



A	B	Cat. no.
225	160.5	NSYCVF560M230PF
280	192	NSYCVF850M230PF



Ventilation accessories

Roof installation

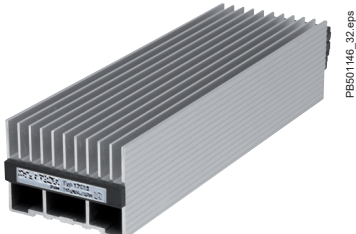

Others

Roof ventilation	Width 650, IP31		Width 800, IP54	
	NSYCVF575M230MB or NSYCAC228RMB		2 x NSYCVF575M230MB or 2 x NSYCAC228RMB	
Roof with a cut-out	D = 400 mm	D = 600 mm	D = 400 mm	D = 600 mm
Catalog numbers	LVS08476	LVS08676	LVS08478	LVS08678
Characteristics	IP31	IP31	IP54	IP54
<b>Forced ventilation top hood with fan</b>				
Catalog numbers	NSYCVF575M230MB			
Characteristics	<b>Fan characteristics</b> <ul style="list-style-type: none"> <li>■ Power: 85 W</li> <li>■ Input voltage: 230 V</li> <li>■ Throughput via outlet grill :                             <ul style="list-style-type: none"> <li>□ with 1 outlet grill: 350 m<sup>3</sup>/hr</li> <li>□ Free with filter: 575 m<sup>3</sup>/hr</li> </ul> </li> <li>□ Finishing parts: painted with epoxy-polyester resin, textured RAL 9003 white</li> <li>■ Noise level: 64 dB.</li> </ul>			
<b>Natural ventilation top hood without fan</b>				
Catalog numbers	NSYCAC228RMB			
Characteristics	<ul style="list-style-type: none"> <li>■ Material: steel</li> <li>■ Finishing parts: painted with epoxy-polyester resin, textured RAL 9003 white</li> <li>■ IP54</li> <li>■ Fixing to the top by means of caged nuts and special screws</li> </ul>			
Air-flow cross section = 304 cm <sup>2</sup> without electrical fan			2 x 304 cm <sup>2</sup>	


## Resistors

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

- Install heaters according to the desired power level at the bottom of the enclosure
- Respect a safety area of a least 10 cm around the device
- The heaters must be installed with a thermal controller to control the temperature or the humidity inside the enclosure.
- The enclosure must be sealed to prevent the entry of air from the outside.
- An electrical protection device must be installed on the supply side of the unit.
- Surface temperature limited to 75 °C when the ambient temperature is -5 °C.
- Heaters equipped with a power cable with a length of 500 mm with silicon insulation, or with a connection terminal block.

Aluminium PTC resistors			Resistive heaters with fan				
							
	<b>Power cord</b>		<b>Terminal block</b>			<b>Terminal block</b>	
Cat. no.	<b>NSYCR10WU2</b>	<b>NSYCR20WU2</b>	<b>NSYCR55WU2</b>	<b>NSYCR100WU2</b>	<b>NSYCR150WU2</b>	<b>NSYCR250W230VV</b>	<b>NSYCR400W230VV</b>
Power rating (W)	10	25	55	90	150	250	400
Voltage (V)	110-250 AC	110-250 AC	110-250 AC	110-250 AC	110-250 AC	230 AC	230 AC
Characteristics	<ul style="list-style-type: none"> <li>■ Vertical mounting.</li> <li>■ Aluminium case with fins.</li> <li>■ Temperature:                             <ul style="list-style-type: none"> <li>□ turns off at 60 °C,</li> <li>□ turns on at 25-30 °C (temperature of the resistor itself).</li> </ul> </li> <li>■ Equipped with a symmetrical</li> </ul>					<ul style="list-style-type: none"> <li>■ Vertical mounting.</li> <li>■ Aluminium case with fins.</li> <li>■ Temperature:                             <ul style="list-style-type: none"> <li>□ turns off at 60 °C,</li> <li>□ turns on at 25-30 °C (temperature of the resistor itself).</li> </ul> </li> <li>■ Equipped with a symmetrical</li> </ul>	

## Thermofan

Thermofan	
	
	<b>Terminal block</b>
Cat. no.	<b>NSYCRP1W230VTVC</b>
Power rating (W)	400/550
Voltage (V)	230 AC
Characteristics	<ul style="list-style-type: none"> <li>■ Combination of a resistance heater and an axial motor to ensure uniform heating of the enclosure.</li> <li>■ Fixing by clip on a DIN rail.</li> <li>■ Thermostat adjustable from 0...+60 °C.</li> <li>■ Visual operation indicator.</li> </ul>

# Ventilation accessories

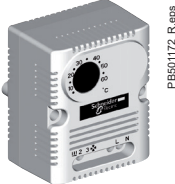
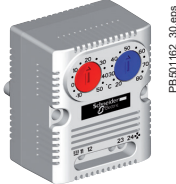

## Regulating

Others


### Regulating

The thermostat can 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.

	Mechanical thermostats		Electronical thermostats		
					
	<b>Thermostat with OF contact</b> <b>NSYCCOTHI</b>	<b>Double thermostat</b> <b>NSYCCOTHD</b>	<b>Electronical thermostat</b> <b>NSYCCOTH230VID</b>	<b>Electronic hygrotherm</b> <b>NSYCCOHYT230VID</b>	<b>Electronic hygrostat</b> <b>NSYCCOHY230VID</b>
Cat. no.					
Colour of the button	Black	<ul style="list-style-type: none"> <li>■ Red: with normally closed contact (NC) for controlling the resistance heaters.</li> <li>■ Blue: with normally open contact (NO) for controlling the fans, signalling systems or alarms.</li> </ul>	-	-	-
Contact	Inverse, forced rupture	1 with normally closed contact (NC), 1 with normally open contact (NO), forced rupture	Free with zero potential		
Internal sensor element	Bimetal		Internal temperature sensor	-	Internal humidity sensor
Switching capacity	250 V AC ; 10 A (resistive load)	250 V AC ; 10 A 120 V AC ; 15 A 250 V AC/120 V AC : 2 A (inductive load cos Ø= 0,6) 30 W DC	-	-	-
Max interrupting capacity with direct current	250 V AC 4 A (charge inductive Ø = 0,6) 30 W DC	-	-	-	-
Connection	Four 2.5 mm <sup>2</sup> terminals	Six 2.5 mm <sup>2</sup> terminals	2 x 2.5 mm <sup>2</sup> (input voltage) + 2 relays (2 x 2.5 mm <sup>2</sup> + 2 x 2.5 mm <sup>2</sup> )	2 x 2.5 mm <sup>2</sup> (input voltage) + 2 relays (2 x 2.5 mm <sup>2</sup> + 2 x 2.5 mm <sup>2</sup> )	2 x 2.5 mm <sup>2</sup> (input voltage) + 1 relay (2 x 2.5 mm <sup>2</sup> )
Dimensions (mm)	67 x 50 x 44	60 x 33 x 43	-	-	-
Weight (g)	100	40	-	-	-
Hysteresis	7° K	7° K	Programmed 2 °K	3 %	3 %
Temperature setting range	+5...+60 °C	0...+60 °C	-40 °C...+80 °C	-40 °C...+80 °C	-40 °C...+80 °C, humidity setting range:20 %...80 %
Characteristics	<ul style="list-style-type: none"> <li>■ Ingress protection rating: IP20.</li> <li>■ Contact resistance: &lt; 10 mΩ.</li> <li>■ Service life: &gt; 100 000 cycles.</li> <li>■ Fixing: by clip on a 35-mm DIN rail</li> <li>■ Case : plastic UL 94 V-0, light grey.</li> <li>■ Operating temperature : -20...+80 °C (-4...+176 °F).</li> <li>■ Display : °C/°F.</li> <li>■ Max. command intensity: (NC) 5 A (NO) 10 A.</li> </ul>		<ul style="list-style-type: none"> <li>■ Ingress protection rating: IP20.</li> <li>■ Certification : UL/UR.</li> <li>■ Fixing: 4 different methods: on DIN rail, Spacial SF profile, on VDI cross-rail or on mounting plate</li> <li>■ Boîtier : plastique UL 94 V-0, gris clair.</li> <li>■ Operating temperature : -40 °C...+80 °C.</li> <li>■ Display : °C/°F.</li> <li>■ Max. command intensity: 8 (5) A 230 V AC / 5 A 30 V DC.</li> </ul>		

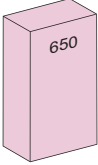
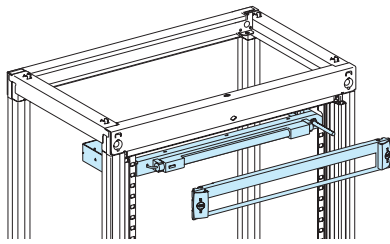
### PTC external temperature sensor (double insulation)

	
Cat. no.	<b>NSYCCASTE</b>
Characteristics	<ul style="list-style-type: none"> <li>■ Sensor operation or reading range: -30 °C...+80 °C.</li> <li>■ IP67.</li> <li>■ Thermostat installation tips: the thermostat should be installed at the top of the enclosure (the hottest place). See the various operating modes of each thermostat to choose the one that best meets your needs.</li> <li>■ Hygrostat installation tips: the hygrostat should be installed at the bottom of the enclosure. 60 % RH is the optimum value in the enclosure.</li> </ul>

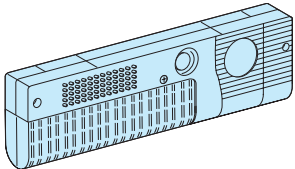
### Thermal management of switchboards

> page C-9.

## Lighting system

Fixed lighting	
	
Catalog number	<b>LVS08964</b>
Presentation	<p>This system is generally used to illuminate the front of a switchboard.</p> <ul style="list-style-type: none"> <li>■ The kit is made up of:                             <ul style="list-style-type: none"> <li>□ a base</li> <li>□ a neon tube</li> <li>□ a front plate with cut-out (1 module)</li> <li>□ a door contact.</li> </ul> </li> </ul>
Characteristics	<ul style="list-style-type: none"> <li>■ Supply voltage: 220/240 V</li> <li>■ Power rating: 8 W</li> <li>■ Height: 1 vertical module (50 mm)</li> </ul>

## Switchboard portable lamp

Switchboard portable lamp	
	
Catalog number	<b>LVS08965</b>
Presentation	<ul style="list-style-type: none"> <li>■ Lamp with a magnetic base for installation behind a door or directly on the cubicle framework.</li> <li>■ Supplied without a power cord.</li> <li>■ H x W x D: 90 x 345 x 42</li> </ul>
Characteristics	<ul style="list-style-type: none"> <li>■ Supply voltage: 220/240 V</li> <li>■ Power rating: 11 W</li> <li>■ Lamp: picoline OSRAM 8W (supplied)</li> <li>■ Class 2</li> <li>■ IP20</li> </ul>

F

# Linergy distribution systems

## Contents

## Power busbars

<b>Linergy LGYE</b> Horizontal profiles up to 4000 A	G-2
<b>Linergy BS</b> Horizontal busbars up to 4000 A	G-3
<b>Linergy LGY</b> Lateral profiles up to 3200 A	G-4
<b>Linergy LGYE</b> Lateral profiles up to 4000 A	G-5
<b>Linergy BS</b> Lateral flat busbars up to 4000 A	G-6
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<b>Linergy DP</b> Quick distribution blocks - ComPacT NSX and INS-INV up to 250 A	G-14
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## Distribution blocks

<b>Linergy DX</b> Quick distribution blocks	G-22
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## Device feeders

<b>Linergy FM</b> Quick device feeders	G-24
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## Distribution blocks

<b>Linergy DS</b> Screw distribution blocks	G-26
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## Device feeders

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Comb busbar for 18 mm pitch for Acti 9	G-29
Comb busbar for 9 mm pitch for Acti 9, C60	G-31
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Horizontal comb busbar for 18 mm pitch for Domae	G-33
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## Terminal blocks and lines

<b>Linergy TA</b> Auxiliary connections	G-35
<b>Linergy TB</b> Earth bars	G-36
PE conductor	G-37

## Secondary distribution

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## Electrical characteristics

<b>Designing connection <math>\leq 630</math> A</b> Auxiliary connections	G-39
<b>Linergy TR</b> Terminal blocks	G-40

# Linergy LGYE

Horizontal profiles up to 4000 A

400 mm deep installation

Power busbars

Linergy LGYE profiles		Up to 1600 A					Up to 2500 A		Up to 4000 A	
Installation										
Linergy profiles, 2000 mm length										
Permissible current for an ambient temperature of 35 °C around the switchboard	IP ≤ 31	630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A	4000 A
	IP > 31	530 A	680 A	850 A	1050 A	1480 A	1650 A	2100 A	2800 A	3350
Number of profiles per phase		1					3		4	
Total number of vertical modules (50 mm)		3					3		4	
Catalog numbers		LVS04560	LVS04561	LVS04562	LVS04563	LVS04564	LVS04565	LVS04566	LVS04567	LVS04568

Busbar supports						
Characteristics			Two fixed supports for 650 mm or 650 + 150 mm wide PrismaSeT P frameworks and one fixed support for 300/400 mm wide PrismaSeT P frameworks are mandatory. If more supports are required, use free supports. <b>Note:</b> in case of 600 mm depth with 115 mm between centers, replace LVS04664 fixed support by LVS04665 and LVS04662 free support by LVS04678.			
In cubicle W = 650 or W = 650+150 busbar supports 75 mm between centres	Number of supports depending on lcw (kA rms/1 s)	≤ 15	2			
		≤ 25	2			
In duct W = 300 busbar supports 75 mm between centres	Number of supports depending on lcw (kA rms/1 s)	≤ 30	2			
		≤ 40	2			
		≤ 50	2		2	
		≤ 60	2+1		2	
		≤ 65			2+1	
		≤ 75			2+1	
		≤ 85			2+1	
		≤ 100			2+3	
Catalog numbers	Fixed support	LVS04664	LVS04664 + LVS04671 (1)		LVS04664 + LVS04646 (2)	
	Free support	LVS04662	LVS04662 + LVS04671 (1)		LVS04662 + LVS04646 (2)	
In cubicle W = 800 busbar supports 75 mm between centres	Number of supports depending on lcw (kA rms/1 s)	≤ 100	2 + 4 (3)			
		Number of supports				
Catalog numbers	Fixed support	LVS04664	LVS04664 + LVS04671 (1)		LVS04664 + LVS04646 (2)	
	Free support	LVS04662	LVS04662 + LVS04671 (1)		LVS04662 + LVS04646 (2)	
In duct W = 400 busbar supports 75 mm between centres	Number of supports depending on lcw (kA rms/1 s)	≤ 50	1			
		≤ 85	1 + 1			
Catalog numbers	Fixed support	LVS04664	LVS04664 + LVS04671 (1)		LVS04664 + LVS04646 (2)	
	Free support	LVS04662	LVS04662 + LVS04671 (1)		LVS04662 + LVS04646 (2)	

Joints		Up to 1600 A					Up to 2500 A		Up to 4000 A	
		630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A	4000 A
Catalog numbers		LVS04620					LVS04624		LVS04623	
		3x LVS04620 (3P) 4x LVS04620 + LVS04624 (4P)					3x LVS04621 (3P) 4x LVS04621 + LVS04624 (4P)		3x LVS04623 (3P) 4x LVS04623 + LVS04624 (4P)	
Note		LVS04624 is mandatory in case of jointed 4P Linergy LGYE busbars installations and must be installed only at the junction on side-by-side frameworks combination. When installed at the bottom of cubicles, the busbars must be partitioned.								

- (1) LVS04671: mounting hardware for bars or profile H = 100 or 120 mm. Contains 2 threaded rods and 4 insulators.
- (2) LVS04646: mounting hardware for bars or profile H = 150 mm. Contains 2 threaded rods and 2 insulators. Note: for accessories > page G-13.
- (3) It is applicable for W800 control panel configuration only.

# Linergy BS

Horizontal busbars up to 4000 A

400 mm deep installation

Power busbars

Flat bars		Up to 1600 A				Up to 4000 A							
<b>Installation</b>	Copper without holes, 2000 mm length												
Permissible current for an ambient temperature of 35 °C around the switchboard	IP ≤ 31	800 A	1000 A	1400 A	1800 A	1200 A	1400 A	1800 A	2050 A	2300 A	2820 A	3300 A	3760 A
	IP > 31	750 A	900 A	1250 A	1600 A	1080 A	1250 A	1600 A	1850 A	2000 A	2500 A	2900 A	3340 A
Size of bars (mm)		60 x 5	80 x 5	60 x 5	80 x 5	50 x 10	60 x 10	80 x 10	50 x 10	60 x 10	80 x 10	100 x 10	120 x 10
Number of bars per phase		1	1	2	2	1	1	1	2	2	2	2	2
Total number of vertical modules (50 mm)		3											4
<b>Catalog numbers</b>		LVS04536	LVS04538	LVS04536	LVS04538	LVS04545	LVS04546	LVS04548	LVS04545	LVS04546	LVS04548	LVS04550	LVS04552

## Busbar supports

		<b>Fixed support LVS04664</b> <b>Free support LVS04662</b> <b>Fixed support LVS04665</b> <b>Free support LVS04678</b>	
<b>Characteristics</b>	Two fixed supports for 650 mm, 650 + 150 mm wide frameworks and one fixed support for 300/400 mm wide PrismaSeT P frameworks are mandatory. If more supports are required, use free supports. <b>Note:</b> in case of 600 mm depth with 115 mm between centers, replace LVS04664 fixed support by LVS04665 and LVS04662 free support by LVS04678.		
In cubicle W = 650 or W = 650+150 busbar supports 75 mm between centres	Number of supports depending on l <sub>cw</sub> (kA rms/1 s)	≤ 15	2
		≤ 25	2+1 2
		≤ 30	2+1 2
		≤ 40	2+1
		≤ 50	- 2+1 2
		≤ 60	- 2+1
		≤ 65	- 2+1
		≤ 75	- 2+2 2+1
		≤ 85	- 2+1
	<b>Catalog numbers</b>	Fixed support	LVS04664
		Free support	LVS04662
In cubicle W = 800 busbar supports 75 mm between centres	Number of supports depending on l <sub>cw</sub> (kA rms/1 s)	≤ 100	2 + 4 (2)
	<b>Catalog numbers</b>	Fixed support	LVS04664
		Free support	LVS04662
In duct W = 300 busbar supports 75 mm between centres	Number of supports depending on l <sub>cw</sub> (kA rms/1 s)	≤ 30	1
		≤ 50	1 + 1
		≤ 85	- 1 + 1
	<b>Catalog numbers</b>	Fixed support	LVS04664
		Free support	LVS04662
In duct W = 400 busbar supports 75 mm between centres	Number of supports depending on l <sub>cw</sub> (kA rms/1 s)	≤ 25	1
		≤ 40	1 + 1
		≤ 50	1 + 1
		≤ 85	- 1 + 1
	<b>Catalog numbers</b>	Fixed support	LVS04664
		Free support	LVS04662



## Joints

Installation	Up to 1600 A				Up to 4000 A					
	1 bar per phase		2 bars per phase		1 bar per phase		2 bars per phase			
Size of bars (mm)	60 x 5	80 x 5	60 x 5	80 x 5	80 x 10	50 x 10	60 x 10	80 x 10	100 x 10	120 x 10
Sliding joints with torque nut										
	LVS04640		LVS04641		LVS04643					
<b>Catalog numbers (1 joint per phase)</b>	LVS04640	LVS04641	LVS04640	LVS04641	LVS04641	LVS04640	LVS04640	LVS04641	LVS04641	LVS04643
<b>Note</b>	when installed at the bottom of cubicles, the busbars must be partitioned.									

(1) LVS04671: mounting hardware for bars or profile H = 100 or 120 mm. Containt 2 threaded rods and 4 insulators.

(2) It is applicable for W800 control panel configuration only.

Version : 14 - 15/12/2023

160E7100



# Linergy LGY

Lateral profiles up to 3200 A

400 mm deep installation

## Power busbars

Linergy LGY profiles		Up to 1600 A (simple busbars)					Up to 3200 A (double busbars)		
<b>In duct</b>		<b>W150</b>					<b>2 x W150</b>		
Linergy profiles, 1670 mm length									
		DD381233-LIN-7 eps	DD381234-LIN-7 eps	DD381235-LIN-7 eps	DD385406 eps	DD385406 eps	DD381235-LIN-7 eps	DD385406 eps	DD385406 eps
Permissible current for an ambient temperature of 35 °C around the switchboard	$IP \leq 31$	<b>630 A</b>	<b>800 A</b>	<b>1000 A</b>	<b>1250 A</b>	<b>1600 A</b>	<b>2 x 1000 A</b>	<b>2 x 1250 A</b>	<b>2 x 1600 A</b>
	$IP > 31$	590 A	760 A	950 A	1170 A	1480 A	1820 A	2260 A	2920 A
Number of profiles per phase		1					2		
<b>Catalog numbers</b>		<b>LVS04502</b>	<b>LVS04503</b>	<b>LVS04504</b>	<b>LVS04505</b>	<b>LVS04506</b>	<b>LVS04504</b>	<b>LVS04505</b>	<b>LVS04506</b>

Busbar supports		Fixed support LVS04651																									
<b>Characteristics</b>		An end stop must be installed on the bottom support: LVS01109 (set of 12).																									
Number of supports depending on Icw (kA rms/1 s)		<table border="1"> <tr><td>≤ 25</td><td>3</td></tr> <tr><td>≤ 30</td><td>3</td></tr> <tr><td>≤ 40</td><td>3</td></tr> <tr><td>≤ 50</td><td>4</td></tr> <tr><td>≤ 60</td><td>5</td></tr> <tr><td>≤ 65</td><td>5</td></tr> <tr><td>≤ 75</td><td>7</td></tr> <tr><td>≤ 85</td><td>8</td></tr> </table>	≤ 25	3	≤ 30	3	≤ 40	3	≤ 50	4	≤ 60	5	≤ 65	5	≤ 75	7	≤ 85	8	<table border="1"> <tr><td>2 x 3</td></tr> <tr><td>2 x 3</td></tr> <tr><td>2 x 3</td></tr> <tr><td>2 x 3</td></tr> <tr><td>2 x 4</td></tr> <tr><td>2 x 4</td></tr> <tr><td>2 x 5</td></tr> <tr><td>2 x 5</td></tr> </table>	2 x 3	2 x 3	2 x 3	2 x 3	2 x 4	2 x 4	2 x 5	2 x 5
≤ 25	3																										
≤ 30	3																										
≤ 40	3																										
≤ 50	4																										
≤ 60	5																										
≤ 65	5																										
≤ 75	7																										
≤ 85	8																										
2 x 3																											
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2 x 3																											
2 x 4																											
2 x 4																											
2 x 5																											
2 x 5																											
<b>Catalog numbers</b>	Fixed support	<b>LVS04651</b>																									
	Chock	<b>LVS01109</b>																									

Equipotential links		Equipotential link DD382576-LIN-30 eps	
	3 equipments must be installed between the busbars.		Connection made with a flat 80 x 10 mm busbar between 2 W150 ducts

Connections to the horizontal Linergy BS busbars		Mounting hardware DD388427 eps	
<b>Characteristics</b>		Mounting hardware supplied. Order 1 link per phase	
<b>Cat. no. according to horizontal busbar size</b>	Thickness 5 mm	<b>LVS04634</b> (1000 A)	<b>LVS04635</b> (1600 A)
	Thickness W ≤ 80 mm	<b>LVS04636</b>	<b>2 x LVS04636</b>
	10 mm W 100 mm	<b>LVS04636 + LVS04642 (2)</b>	<b>2 x LVS04636 + 2 x LVS04642</b>
	W 120 mm	<b>LVS04638</b>	<b>2 x LVS04638</b>

Connections to the horizontal Linergy LGYE busbars		Mounting hardware DD384457 EPS	
<b>Characteristics</b>		Supplied with mounting hardware. Catalog numbers include 1 connection only: 1 connection per phase.	
<b>Cat. no. according to horizontal busbar size</b>		<b>LVS04602</b> (vertical connection)	<b>LVS04603</b> (vertical shifted connection) (1)

(1) Dedicated connection LVS04603 for Linergy LGYE busbar in 150 mm duct with horizontal jointing  
 (2) LVS04642: mounting hardware for bars > 80 mm. Comprises 2 threaded rods.

# Linery LGYE

Lateral profiles up to 4000 A

400 mm deep installation

Power busbars

## Linery LGYE profiles

		Linery profile, 2000 mm length (1)					Linery profile, 1625 mm length			
		W150					W150		W300	
In duct										
Linery profile										
		630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A	4000 A
Permissible current for an ambient temperature of 35 °C around the switchboard	IP ≤ 31	630 A	800 A	1000 A	1250 A	1650 A	2000 A	2440 A	3200 A	3620
	IP > 31	530 A	680 A	850 A	1050 A	1480 A	1650 A	2100 A	2800 A	3350
Length to cut for side mounting		1675 mm					-		-	
Number of profiles per phase		1					-		-	

<b>Catalog numbers</b>	LVS04560	LVS04561	LVS04562	LVS04563	LVS04564	LVS04507	LVS04508	LVS04509	LVS04510
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## Busbar supports

	Fixed support <b>LVS04661</b>	Free support <b>LVS04662</b>	Bottom support <b>LVS04666</b>	
Characteristics	Attach directly to the framework. Three fixed supports are required to maintain the busbars. If more than three supports are required, use additional free supports. The bottom support maintains the bars in position. It is not considered a busbar support. <b>Note:</b> in case of 600 mm depth with 115 mm between centers, replace <b>LVS04661</b> fixed support by <b>LVS04668</b> , free support <b>LVS04662</b> by <b>LVS04678</b> and bottom support <b>LVS04663</b> or <b>LVS04666</b> by <b>LVS04673</b> .			
Number depending on Icw (kArms/1 s)	≤ 30	3		
≤ 40	-	3+2		3
≤ 50	-		3+2	3
≤ 60	-		3+2	3
≤ 65	-		3+2	3
≤ 75	-		3+4	3+2
≤ 85	-		3+4	3+2
≤ 100	-			3+6

In duct W150, W = 300 busbar supports 75 mm between centres	Catalog numbers	Fixed support	LVS04661	LVS04661 + LVS04671 (2)	LVS04661 + LVS04646 (3)
		Free support	LVS04662	LVS04662 + LVS04671 (2)	LVS04662 + LVS04646 (3)

## Busbars chocks

		Chocks installed on a bottom support <b>LVS04658</b>	Chocks installed on a bottom support <b>LVS04659</b>
		Characteristics	The bottom support maintains the sections in position. It is not considered a busbar support.
In duct W150, W = 300	Bottom support	LVS04663	LVS04666 + LVS04661
	Chocks	LVS04658	LVS04659

## Connections to the horizontal Linery LGYE busbars

			630 to 1600 A
Characteristics	Supplied with mounting hardware. Catalog numbers include 1 connection only: 1 connection per phase.		
Cat. no. according to horizontal busbar size	LVS04602 (straight connection)	LVS04604 (short connection)	LVS04607
	LVS04603 (shifted connection)	LVS04605 (long connection)	

- (1) Linery LGYE profiles up to 1600 A must be cut at the dimension of the cubicle : 1625 mm
- (2) **LVS04671**: mounting hardware for bars or profile H = 100 or 120 mm. Containt 2 threaded rods and 4 insulators.
- (3) **LVS04646**: mounting hardware for bars or profile H = 150 mm. Containt 2 threaded rods and 3 insulators

# Linery BS

Lateral flat busbars up to 4000 A

400 mm deep installation

Power busbars

Flat bars														
	Up to 1600 A				Up to 4000 A									
In duct	W150				W150				2 x W150		W300			
Copper with holes, 1675 mm length														
Permissible current for an ambient temperature of 35 °C around the switchboard	IP ≤ 31	800 A	1000 A	1400 A	1800 A	1200 A	1400 A	1800 A	2050 A	2300 A	2820 A	3200 A	3200 A	3760 A
	IP > 31	750 A	900 A	1250 A	1600 A	1080 A	1250 A	1600 A	1850 A	2000 A	2500 A	2820 A	2820 A	3340 A
Size of bars (mm)	60 x 5	80 x 5	60 x 5	80 x 5	50 x 10	60 x 10	80 x 10	50 x 10	60 x 10	80 x 10	80 x 10	100 x 10	120 x 10	
Number of bars per phase	1				1				2		2		2	
Catalog numbers	LVS 04516	LVS 04518	LVS 04516	LVS 04518	LVS 04525	LVS 04526	LVS 04528	LVS 04525	LVS 04526	LVS 04528	LVS 04528	LVS 04550 (1)	LVS 04552 (1)	

## Busbar supports

Description														
	Number of supports depending on low (kA rms/1 s)	≤ 15	≤ 25	≤ 30	≤ 40	≤ 50	≤ 60	≤ 65	≤ 75	≤ 85	2 x 3	2 x 3	2 x 3	2 x 3
Drilled bars. Three fixed supports are required to maintain the busbars. If more than three supports are required, use additional free supports. The bottom support maintains the bars in position. It is not considered a busbar support.	3	3+2	3	3+2	3+2	3+2	3+2	3+4	3+4	3	2 x 3	2 x 3	2 x 3	
Note: In case of 600 mm depth with 115 mm between centers, replace LVS04661 fixed support by LVS04668 and LVS04662 free support by LVS04678 and LVS04663 or LVS04666 bottom support by LVS04673.														
In duct W150, W = 300 busbar supports 75 mm between centres	Fixed support	LVS04661										2 x LVS04661	LVS04661 + LVS04671	
	Free support	LVS04662										2 x LVS04662	LVS04662 + LVS04671	
	Bottom support	LVS04663										2 x LVS04663	LVS04666 + LVS04661	

## Connections to the horizontal Linery BS busbars

Characteristics														
	For busbars with 75 mm between centres, the bars must fully overlap. To satisfy safety clearances, the assembly points on adjacent bars must be staggered as shown above.	1 bar per phase	2 bars per phase	1 bar per phase	2 bars per phase	double BB	2 bars per phase							
Size of vertical bars (mm)	60 x 5	80 x 5	60 x 5	80 x 5	50 x 10	60 x 10	80 x 10	50 x 10	60 x 10	80 x 10	80 x 10	100 x 10	120 x 10	
Catalog number of the connecting part according to the size of the horizontal bars	≤ 80 mm	LVS04782		LVS04636		LVS04637	LVS04637	LVS04637		2x LVS04637	LVS04645	LVS 04645		
	100 mm	LVS04782		LVS04636 + LVS04642		LVS04637 + LVS04642	LVS04637 + LVS04642	LVS04637 + LVS04642		2x LVS04637 + 2x LVS04642	LVS04645	LVS 04645		
	120 mm	LVS04782		LVS04638		LVS04638	LVS04638	LVS04638		2x LVS04638	LVS04645	LVS04645		

(1) Copper plain bars, 2000 mm length.

Drilling diagram for horizontal busbars, 5 mm thick.	Drilling diagram for horizontal busbars, 10 mm thick.

Note: for more information > page G-39.

# Linergy LGY

Rear profiles up to 1600 A

## Power busbars

Linergy LGY profiles		Up to 1600 A				
<b>At the rear of the cubicle</b>		<b>W650</b>				
Linergy profile, 1670 mm length						
		<b>630 A</b>	<b>800 A</b>	<b>1000 A</b>	<b>1250 A</b>	<b>1600 A</b>
Permissible current for an ambient temperature of 35 °C around the switchboard	IP ≤ 31	680 A	840 A	1040 A	1290 A	1650 A
	IP > 31	590 A	760 A	950 A	1170 A	1480 A
Number of profiles per phase		1				
<b>Catalog numbers</b>		<b>LVS04502</b>	<b>LVS04503</b>	<b>LVS04504</b>	<b>LVS04505</b>	<b>LVS04506</b>

Busbar supports						
		<p><b>Fixed support LVS04652</b></p>				
	Number of supports	≤ 25	3			
	depending on Icw (kA rms/1 s)	≤ 30	-	4		
		≤ 40	-	-	5	
	≤ 50	-	-	-	7	
Characteristics		<p>Stop to be installed on the bottom support. <b>LVS01109</b> (set of 12).</p>				
<b>Catalog numbers</b>	Fixed support	<b>LVS04652</b>				
	Chock	<b>LVS01109</b>				

Connections to the horizontal Linergy BS flat busbars			
		<p>Connection <b>LVS04635</b> to horizontal busbars 5 mm thick.</p>	<p>Connection <b>LVS04636</b> to horizontal busbars 10 mm thick.</p>
Characteristics		Mounting hardware supplied, order 1 connection per phase. For part of the connection, flexible insulated busbars are needed.	
<b>Cat. no. according to horizontal busbar size</b>	Thickness 5 mm	<b>LVS04635</b>	
	Thickness 10 mm	W ≤ 80 mm	<b>LVS04636</b>
		W > 80 mm	<b>LVS04636 + LVS04642</b>

Connections to the horizontal Linergy LGYE flat busbars			
		<p>Connection <b>LVS04602</b> to horizontal Linergy LGYE busbars 5 mm thick.</p>	
Characteristics		Mounting hardware supplied, order 1 connection per phase. For part of the connection, flexible insulated busbars are needed.	
<b>Catalog numbers</b>		<b>LVS04602</b>	



# Linergy BS

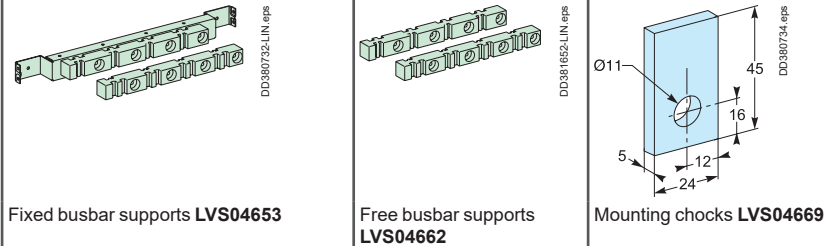
Rear busbars up to 1600 A

Power busbars

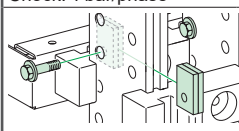
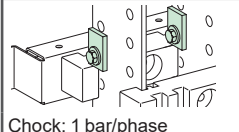
## Flat bars

		Up to 1600 A						
At the rear of the cubicle		L650						
Copper with holes, 1670 mm length								
Permissible current for an ambient temperature of 35 °C around the switchboard	IP ≤ 31	800 A	1000 A	1400 A	1800 A	1000 A	1200 A	1600 A
	IP > 31	750 A	900 A	1250 A	1600 A	1080 A	1250 A	1600 A
Size of bars (mm)		60 x 5	80 x 5	60 x 5	80 x 5	50 x 10	60 x 10	80 x 10
Number of bars per phase		1		2		1		
<b>Catalog numbers</b>		<b>LVS04516</b>	<b>LVS04518</b>	<b>LVS04516</b>	<b>LVS04518</b>	<b>LVS04525</b>	<b>LVS04526</b>	<b>LVS04528</b>

## Busbar supports



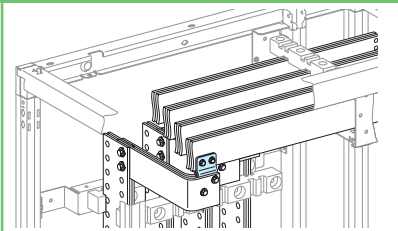
**Characteristics**  
 Three fixed supports cat. no. LVS04653 are required to maintain the busbars.  
 If more than three supports are required, use additional free supports cat. no. LVS04662.  
 A metal mounting chock, cat. no. LVS04669 (set of 100) 5 mm thick, is screwed to the bar. It rests on a fixed support and maintains the position of the bar.



Number of supports depending on I <sub>w</sub> (kA rms/1 s)	≤ 15	3		3
	≤ 25	3+2	3	3
	≤ 30	3+2		3+2
	≤ 40	3+4	3+2	3+2
	≤ 50	-	3+4	3+2
	≤ 60	-		3+4
	≤ 65	-		3+4
	≤ 75	-		3+6
	≤ 85	-		-

**Catalog numbers** LVS04653 (fixed) + LVS04662 (free) + LVS04669 (chock)

## Connections to the horizontal Linergy BS flat busbars



Connection LVS04636 to horizontal busbars. Thickness 5 mm

Connection LVS04636 to horizontal busbars. Thickness 10 mm

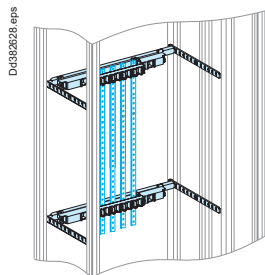
<b>Characteristics</b>	For part of the connection, flexible insulated busbars are needed. Catalog numbers LVS04635 and LVS04636 include 1 connection only = 1 connection per phase. Reference LVS04642 consists of 2 M8 x 140 screws which can replace the original M8 x 120 screws.	
<b>Catalog numbers according to horizontal busbar size</b>	Thickness 5 mm	LVS04635
	Thickness W ≤ 80 mm	LVS04636 (1)
	10 mm W > 80 mm	LVS04636 + LVS04642 (1)

(1) To be made.

# Linergy BS

Rear busbars up to 630 A

Power busbars

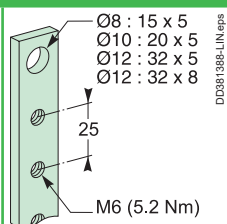


## IEC 61439-1 & 2

### Description

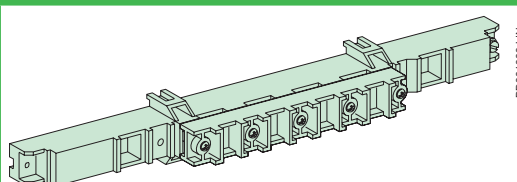
The busbar can be 3-pole or 4-pole with ratings between 160 A and 630 A. 2 lengths are available: 1000 and 1400 mm, which can be cut as required. The number of supports depends on the installation maximum rated current. The insulating supports can receive a fifth bar, 15 x 5 mm or 20 x 5 mm, to create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

### 160 to 400 A copper busbars



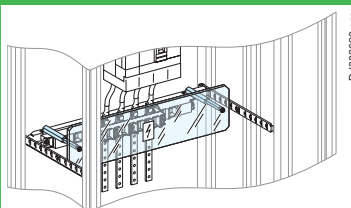
	160 A	250 A	400 A	630 A			
Rated peak withstand current (I <sub>pk</sub> )	30 kÅ	40 kÅ	55 kÅ	77 kÅ			
Rated insulation voltage (U <sub>i</sub> )	1000 V AC	1000 V AC	1000 V AC	1000 V AC			
Rated short-time current (I <sub>cc</sub> )	150 kA	150 kA	150 kA	150 kA			
Thermal stress (I <sup>2</sup> .t)	1.000 x 10 <sup>8</sup>	2.25 x 10 <sup>8</sup>	6.250 x 10 <sup>8</sup>	1.225 x 10 <sup>9</sup>			
Conductor cross-section	15 x 5 mm	20 x 5 mm	32 x 5 mm	32 x 8 mm			
Installation	Threaded M6 holes every 25 mm all the way up Connection by: 16 to 50 mm <sup>2</sup> flexible cables with crimped lugs						
Set of	4						
Length (mm)	1000	1400	1000	1400	1000	1400	1400
Catalog numbers	LVS04161	LVS04171	LVS04162	LVS04172	LVS04163	LVS04173	LVS04174

### Insulating busbar support



Distance between supports depending on I <sub>cw</sub> /I <sub>pk</sub> (1)	≤ 10 kA eff / 1 s	≤ 13 kA eff / 1 s	≤ 15 kA eff / 1 s	≤ 20 kA eff / 1 s	≤ 25 kA eff / 1 s	≤ 30 kA eff / 1 s	≤ 35 kA eff / 1 s
	450 mm	450 mm	450 mm	450 mm	450 mm	450 mm	450 mm
	-	450 mm	450 mm	450 mm	450 mm	450 mm	450 mm
	-	450 mm	450 mm	450 mm	450 mm	450 mm	450 mm
	-	-	-	300 mm	300 mm	300 mm	300 mm
	-	-	-	225 mm	225 mm	225 mm	225 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)						
Catalog numbers	LVS04191	LVS04191	LVS04191	LVS04191	LVS04191	LVS04191	LG4193

### IPxxB insulating protective shield



Length	470 mm
Height	100 mm
Composition	Supplied with fixings.
Catalog numbers	LVS04198

Note: electrical characteristics > page G-39.

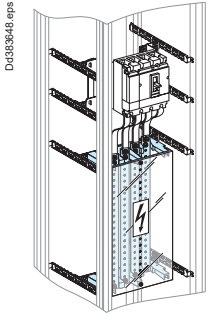
(1) Linergy FM 200 A distribution blocks with connections ref. LVS04029 can act as intermediate supports (max. distance apart 200 mm) in addition to the support ref. LVS04191 at the top and bottom.

Version : 14 - 15/12/2023  
160E7100

# Linergy BS

Multi-stage busbars up to 630 A

Power busbars



## IEC 61439-1 & 2

### Description

Multi-stage busbars are installed in a sheath W = 400 mm.

We strongly recommend dividing the current between 2 cubicles or enclosures joined on either sides.

All the connection points are easily accessible from the front.

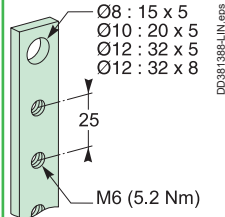
The busbar orientation makes them easier to tighten and facilitates running the cables between them.

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

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

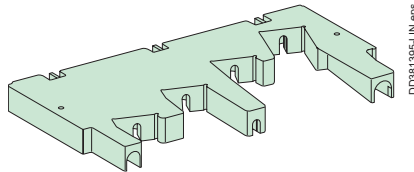
The number of supports depends on the installation maximum rated current.

### 160 to 630 A copper busbars



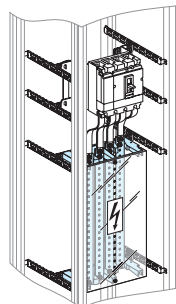
	160 A	250 A	400 A	630 A				
Rated peak withstand current (I <sub>pk</sub> )	30 kÅ	40 kÅ	55 kÅ	55 kÅ				
Rated insulation voltage (U <sub>i</sub> )	750 V AC	750 V AC	750 V AC	750 V AC				
Rated short-time current (I <sub>cc</sub> )	150 kA	150 kA	150 kA	150 kA				
Thermal stress (I <sup>2</sup> .t)	1.000 x 10 <sup>8</sup>	1.690 x 10 <sup>8</sup>	4.000 x 10 <sup>8</sup>	6.250 x 10 <sup>8</sup>				
Rated short-time withstand current (I <sub>cw</sub> )	10 kA rms/1 second	13 kA rms/1 second	15/20/25 kA rms/1 second	35 kA rms/1 second				
Supply at incoming terminals	Connection by: 16 to 50 mm <sup>2</sup> flexible cables with crimped lugs.							
Conductor cross-section	15 x 5 mm	20 x 5 mm	32 x 5 mm	32 x 8 mm				
Installation	Flat copper busbar with threaded M6 holes every 25 mm all the way up.							
Set of	4							
Width (mm)	1000	1400	1000	1400	1000	1400	1000	1400
Catalog numbers	LVS04161	LVS04171	LVS04162	LVS04172	LVS04163	LVS04173	To be made	LVS04174

### Insulating busbar support



Distance between supports depending on I <sub>cw</sub> /I <sub>pk</sub>	≤ 10 kA rms/ 1 s / 30 kÅ	≤ 13 kA rms/ 1 s / 40 kÅ	≤ 15 kA rms/ 1 s / 40 kÅ	≤ 20 kA rms/ 1 s / 45 kÅ	≤ 25 kA rms/ 0.6 s / 55 kÅ	≤ 25 kA rms/ 1 s / 55 kÅ
450 mm	-	450 mm	-	-	-	-
450 mm	-	450 mm	-	-	-	-
450 mm	-	450 mm	-	450 mm	300 mm	300 mm
450 mm	-	450 mm	-	300 mm	300 mm	-
300 mm	-	300 mm	-	-	-	300 mm
300 mm	-	300 mm	-	-	-	300 mm
Installation	Installation on functional uprights of duct (PrismaSeT). Screwed onto a solid or pre-slotted plate (450 x 200 mm fixing centres)					
Catalog numbers	LVS04192	LVS04192	LVS04192	LVS04192	LVS04192	LVS04192

### IPxxB insulating protective shield



Width	250 mm
Height	1500 mm
Composition	Fixing accessories supplied with support cat. no. LVS04192.
Catalog numbers	LVS04197

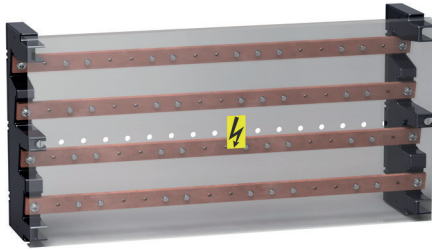
Note: electrical characteristics > page G-39.

# Linergy BS

Multi-stage distribution block up to 630 A

Power busbars

PE602514\_00.eps



## IEC 61439-1 & 2

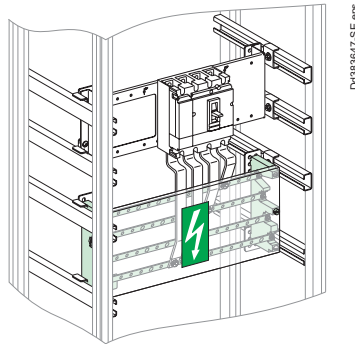
### Description

The 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:

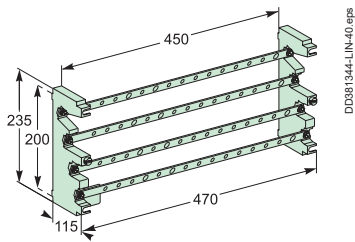
- two staggered supports made of an insulating material
- four slanted copper bars with holes every 25 mm.

### Multi-stage distribution block



		160 A	250 A	400 A	630 A
Rated peak withstand current	(Ipk)	30 kÅ	40 kÅ	55 kÅ	55 kÅ
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	(Icc)	150 kA	150 kA	150 kA	150 kA
Thermal stress	(I <sup>2</sup> .t)	1.000 x 10 <sup>8</sup>	1.690 x 10 <sup>8</sup>	4.000 x 10 <sup>8</sup>	6.250 x 10 <sup>8</sup>
Total connection capacity		4 incomers per phase: Ø12.2 mm clearance holes 13 outgoing per phase 16 to 50 mm <sup>2</sup> : M6 tapped holes			
Busbar cross-section		15 x 5 mm	20 x 5 mm	32 x 5 mm	32 x 8 mm

Dimensions (mm)



Installation	Screwed onto a solid or pre-slotted plate (fixing centres 450 x 200 mm) Screwed to an adapter cat. no. <b>LVS03595</b> .
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
Catalog numbers	<b>LVS04052</b> <b>LVS04053</b> <b>LVS04054</b> <b>LVS04055</b>

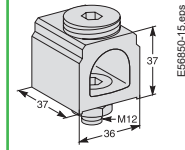
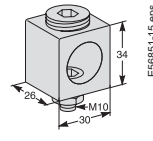
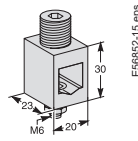


# Linergy BS

Incomer accessories up to 630 A

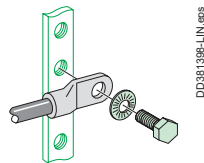
## Power busbars

### 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	70 mm <sup>2</sup> Cables	16 - 185 mm <sup>2</sup> Cables	70 - 300 mm <sup>2</sup> Cables
Composition	Supplied with fixings at busbar end.		
Set of	4		
Catalog numbers	LVS07051	LVS07052	LVS07053

### Outgoer accessories



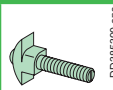
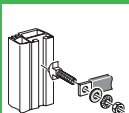
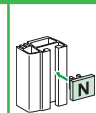
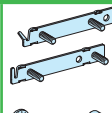

Class 8.8 fixing accessories		
Composition	20 M6 x 20 screws + 20 nuts + 40 contact washers	40 M6 x 16 screws + 40 contact washers
Catalog numbers	LVS04194	LVS04195

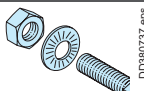
Note: electrical characteristics > page G-39.


# Linergy Busbars

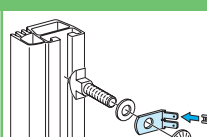
## Accessories

### Power busbars

Accessories											
	 DD386390.eps		 DD381219-LIN-16.eps			 DD381222-LIN-10.eps		 DD386391.eps		 DD386392.eps	
	Linergy connection hardware		Steel flat washers			Brass flat washers		Markers		Screwplate	
Cat. no.	<b>LVS04766</b>	<b>LVS04767</b>	<b>LVS04772</b>	<b>LVS04773</b>	<b>LVS04774</b>	<b>LVS04775</b>	<b>LVS04794</b>	<b>LVS01130</b>	<b>LVS04768</b>	<b>LVS04769</b>	
Characteristics	L 25 mm	L 39 mm	20 mm ext. Ø	24 mm ext. Ø	28 mm ext. Ø	20 mm ext. Ø		2 studs	2 studs	3 studs	
	Set of 20: 20 bolts + 20 nuts + 20 contact washers, class 8.8. The screws slide into the profile and are then locked in the desired position.		M8 set of 20			M8 sold in lots of 20 for connection of ≤ 25 mm <sup>2</sup> lugs to Linergy	12 clip-on supports + N, L1, L2, L3, PE, PEN labels	Linergy LGYE busbars connection kit spare part	Set of 12 flat plates with 2 studs + 24 torque nuts + 24 contact washers. The plates slide along the profile.	Set of 8 flat plates with 3 studs + 24 torque nuts + 24 contact washers. The plates slide along the profile.	

M8 bolts		
	 DD380737.eps	
Linergy BS, 20 bolts class 8.8	Characteristics	Set of 20 bolts + 20 nuts + 40 contact washers.
	<b>Catalog numbers</b>	<b>LVS04782</b>
	M8 x 20	<b>LVS04783</b>
	M8 x 25	<b>LVS04784</b>
	M8 x 30	<b>LVS04785</b>
	M8 x 35	<b>LVS04786</b>
	M8 x 40	<b>LVS04787</b>
	M8 x 45	<b>LVS04788</b>
	M8 x 50	<b>LVS04788</b>

Torque nuts		
	 DD380735.eps	
20 M8 torque nuts	Characteristics	Can be used to obtain the correct tightening torque (28 Nm) recommended by the manufacturer, without using a torque wrench. Torque nuts may be used for all electrical connections.
	<b>Catalog numbers</b>	<b>LVS04759</b>

Voltage tap-offs		
	 DD380736.eps	
20 Voltage tap-offs M10 pour 2 clips 6.35	Characteristics	For small lugs (on low-current cables or measurement tap-offs), insert a conducting washer (cat. no. LVS04775) between the busbar and the lug.
	<b>Catalog numbers</b>	<b>LVS04229</b>



### ★ Connections on Linergy LGYE & LGY

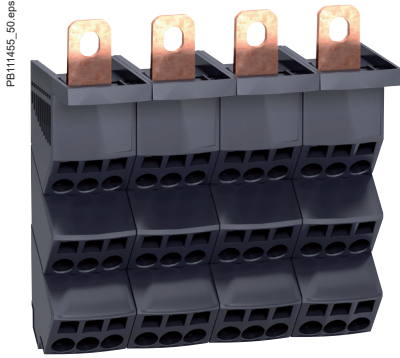
InA (A)		Connecting to Linergy LGYE	Connecting to Linergy LGY
0 to 630	Cable - Insulated flexible bars	25 mm Linergy connection hardware used	25 mm Linergy connection hardware used
800 to 1250	5 mm bars	25 mm Linergy connection hardware used	25 mm Linergy connection hardware used
1600 to 2500	5 mm or 10 mm bars	Use of the 2 studs flat plate	39 mm Linergy connection hardware used
3200 to 4000	10 mm bars	Use of the 3 studs flat plate	-

**Note:** Jointing between 2 busbars (horizontal/vertical or horizontal/horizontal) must be mandatory done with studs plates.

# LinerGY 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 Linergy 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 (Icw)	8.5 kA rms/1 s	8.5 kA rms/1 s		
Thermal stress (I <sup>2</sup> .t)	7.225 x 10 <sup>7</sup>	7.225 x 10 <sup>7</sup>		
Total connection capacity, outgoing terminals	27 connections: 6 x 10 <sup>2</sup> /phase 3 x 16 <sup>2</sup> /phase	36 connections: 6 x 10 <sup>2</sup> /phase 3 x 16 <sup>2</sup> /phase	2 connections: 2 x 35 <sup>2</sup> /pole	
Incomer terminals	1 cable lug 120 mm <sup>2</sup> 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 PrismaSeT	IEC 61439-1-2			
Glow-wire 60695-2-11	960 °C			
Catalogue numbers	LVS04033	LVS04034	LVS04155 (3P) LVS04156 (4P)	

Technical Data	
<b>Common characteristics</b>	
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
<b>Additional technical characteristics</b>	
Reference temperature	40 °C
Operating temperature	-25 °C to 55 °C

### Installation

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

Directly on the mounting plates of horizontally mounted **ComPacT NSX100/250** and **ComPacT INS-INV250** devices in the enclosures.

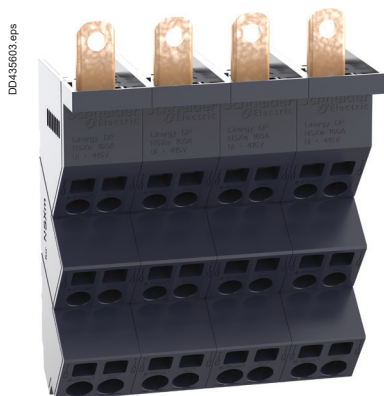
For details on mounting plates, refer [pages E-20, E-21, E-22, E-23, and E-24](#).

**Note:** Electrical characteristics > [page G-39](#).

# Linergy DP

Quick distribution blocks - ComPacT NSXm up to 160 A

## Distribution blocks



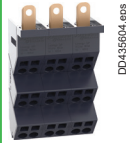
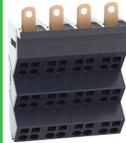
### IEC 60947-7-1, IEC 61439-1 and 2

#### 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.

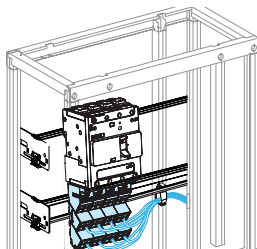
#### Advantages

- 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 PrismaSeT		IEC 61439-1-2	
Glow-wire 60695-2-11		960 °C	
Catalogue numbers		LVS04038	LVS04039

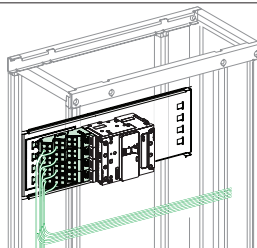
Technical Data		
<b>Common characteristics</b>		
Rated conditional short-circuit current of an assembly	(Isc)	The reinforced breaking capacity due to cascading in circuit-breaker combinations is maintained. The worst-case situations have been tested.
Rated insulation voltage	(Ui)	800 V AC
Rated operational 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
<b>Additional technical characteristics</b>		
Reference temperature		40 °C
Operating temperature		-25 °C to 55 °C

### Installation



DD435606.eps

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.



DD435607.eps

Directly on the mounting plates of horizontally mounted **ComPacT NSXm** devices in the enclosures.

For details on mounting plates, refer [page E-35](#).

Note: Electrical characteristics > page G-39.

# LinerGY FC

Feeders for ComPacT NSX and INS-INV up to 250 A

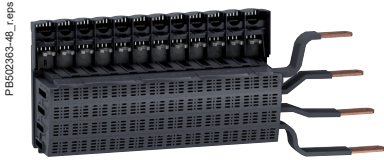
## Device feeders


### IEC 61439-1 and 2

#### Description

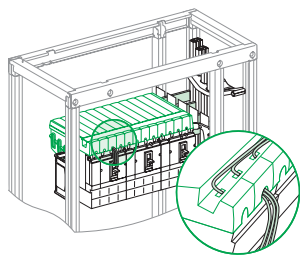
LinerGY FC is an insulated horizontal distribution block. It connects directly to the mounting plate and can supply:

- Three 4P and four 3P ComPacT NSX circuit breakers, whatever the ratings (100, 160 or 250 A), the operating systems (toggle, rotary handle, motor mechanism), whether fixed or plug-in, front or rear connection (the circuit breakers must be equipped with long terminal shields downstream)
- Three 4P or four 3P ComPacT INS-INV switch-disconnectors, whatever the ratings (100, 160 or 250 A), whether front or rear connection.
- The design and small size blend thoroughly with the devices.
- It can be supplied by Linergy BS or Linergy LGY busbars positioned to the left or right.
- Fully insulated, Linergy FC helps to protect life and property. Numerous and well distributed vents ensure natural convection and optimum cooling of the conductors.
- The circuit breakers can be easily connected from the front. It is simple to interchange a device or to add a device in a reserve slot.
- There are markings (N, L1, L2, L3) on the front and the sides for the phases.
- The running of auxiliary cables between the devices and the corresponding terminal blocks is also taken into account. Spacious trunking is built into the blocks for the auxiliary wiring.

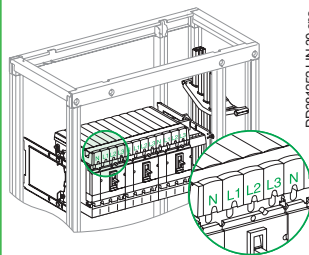


	ComPacT NSX100/250 & INS-INV250 - Toggle, fixed		ComPacT NSX100/250 - Rotary handle, motor mechanism - plug-in, fixed, ComPacT NSX100/250 - All controls, withdrawable		ComPacT NSX100/250 & INS-INV250 - All controls, fixed and withdrawable	
						
	LinerGY FC with prefabricated connections by insulated flexible bars (1)		LinerGY FC with prefabricated connections (1)		LinerGY FC without prefabricated connections (1)	
Number of poles	3P	4P	3P	4P	3P	4P
Connection to	LinerGY LGY busbars		LinerGY BS, Linergy LGY or Linergy LGYE busbars		LinerGY BS, Linergy LGY or Linergy LGYE busbars	
Number of devices	4	3	4	3	4	3
Composition	Self-adhesive labels to mark the phases for connections to the busbars.					
<b>Mounting plates</b>						
Toggle, Fixed, NSX100/250	LVS03420	LVS03420	-	-	LVS03420	LVS03420
Toggle, Plug-in, NSX100/250	-	-	LVS03423	LVS03423	LVS03423	LVS03423
Rotary handle, motor mechanism - plug-in, Fixed, NSX100/250	-	-	LVS03422	LVS03422	LVS03422	LVS03422
Cat. no.	LVS04403	LVS04404	LVS04405	LVS04406	LVS04407 (2)	LVS04408 (2)

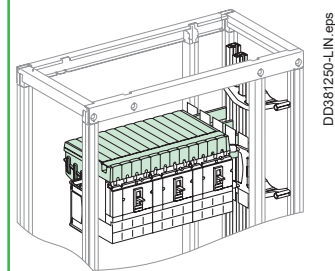
### Implementation



Auxiliary wires running in the built-in trunking.



Phase marking on the front of the distribution block.

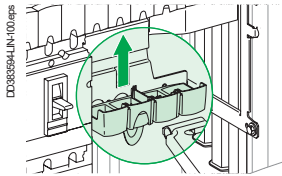



- (1) The connection of a Linergy FC distribution block using pre-wired connectors or insulated flexible bars is not compatible with Form 2 partitioning (LVS04922). In this case, use the form 2 restoration kit (LVS04924).
- (2) For the connection, use insulated flexible bars, 32 x 8 mm cat. no. LVS04753; Each connection must not be longer than 500 mm. This size is validated with Schneider Electric insulated flexible bars.

# LinerGY FC

Feeders for ComPacT NSX and INS-INV up to 250 A

## Device feeders

Accessories	
	
	<p><b>Tooth caps</b></p> <p>The caps block off the reserve terminals on a Linergy FC distribution block. Made of an insulating material, they simply clip on from the front.</p>
<b>Catalogue numbers</b>	<b>LVS04809</b>

## Characteristics

Common characteristics		
Rated operational current at 40°	(Ie)	Distribution-block derating follows the normal derating curves of ComPacT NSX and INS-INV
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. The electrical characteristics are perfectly compatible with the connected devices. Neither the temperature derating curves nor the performance levels of the circuit breakers and switch-disconnectors are altered.
Rated insulation voltage	(Ui)	750 V AC
Rated operational voltage	(Ue)	690 V AC
Rated impulse withstand voltage	(Uimp)	8 kV
Rated peak withstand current	(Ipk)	50 kA rms
Rated short-time current with upstream protection of 85 kA Icc	(Icc)	85 kA
Thermal stress	(I².t)	2.500 x 10 <sup>7</sup>
Rated conditional short-circuit current of an assembly		Short-circuit withstand current compatible with the breaking capacity of the ComPacT NSX circuit breakers connected to the distribution block.

## LinerGY FC selection table for special cases

For most installations, the temperature around the switchboard is 40 °C, corresponding to an average temperature of 60 °C inside the switchboard.

Under certain conditions, the temperature inside the switchboard may be different.

(A) Rated operational current as a function of the temperature inside the switchboard								
Temperature (°C)		40	45	50	55	60	65	70
I <sub>nc</sub> (A)	3P	800	800	775	750	725	700	675
	4P	675	675	655	635	615	595	570

To obtain the maximum permissible current for the linergy FC, apply the diversity factor K:

- Linergy FC 3P: K = 0.8
- Linergy FC 4P: RDF = 0.9.



# Linergy FC

Feeders for ComPacT NSXm up to 160 A

## Device feeders




### IEC 61439-1 and 2

#### Description

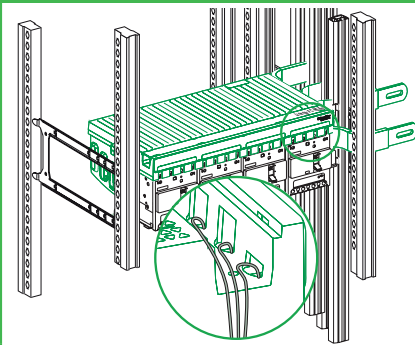
Linergy FC is an insulated horizontal distribution block. It connects directly to the mounting plate and can supply:

- Four 4P and five 3P ComPacT NSXm circuit breakers (four 3P and 4P for ComPacT NSXm Vigi), whatever the ratings (63, 100 or 160 A) with toggle and direct rotary handle operating mechanism.
- The design and small size blend thoroughly with the devices.
- It can be supplied by Linergy BS, Linergy LGYE and Linergy LGY busbars positioned to the left or right.
- Fully insulated, Linergy FC helps to protect life and property. Numerous and well distributed vents ensure natural convection and optimum cooling of the conductors.
- The circuit breakers can be easily connected from the front. It is simple to interchange a device or to add a device in a reserve slot.
- There are markings (N, L1, L2, L3) on the front and the sides for the phases.
- The running of auxiliary cables between the devices and the corresponding terminal blocks is also considered. Spacious trunking is built into the blocks for the auxiliary wiring.

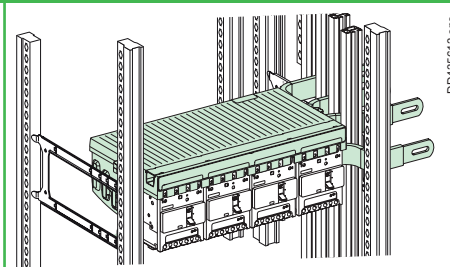


	ComPacT NSXm - Toggle (with Everlink terminal)		ComPacT NSXm - Toggle/ DRH (with Everlink terminal)			
						
	Linergy FC with prefabricated connections by insulated flexible bars (1)		Linergy FC with prefabricated connections (1)		Linergy FC without prefabricated connections (1)	
Number of poles	3P	4P	3P	4P	3P	4P
Connection to	Linergy LGY busbars		Linergy BS and Linergy LGYE busbars			
Number of devices	5 (2)	4	5 (2)	4	5 (2)	4
Mounting plates	LVS03416	LVS03416	LVS03416	LVS03416	LVS03416	LVS03416
Cat. no.	LVS04410	LVS04411	LVS04412	LVS04413	LVS04419 (3)	LVS04420 (3)
	LVS04416 (3)		LVS04417		LVS04418 (3) (4)	

### Implementation



Auxiliary wires running in the built-in trunking.



(1) The connection of a Linergy FC distribution block using pre-wired connectors or insulated flexible bars is not compatible with Form 2 partitioning (LVS04922). In this case, use the form 2 restoration kit (LVS04924).

(2) Linergy FC configuration having NSXm with Vigi can mount four devices in a row for both 3P and 4P.

(3) For the connection, use insulated flexible bars, 32 x 6 mm cat. no. LVS04752; Each connection must not be longer than 500 mm. This size is validated with Schneider Electric insulated flexible bars.

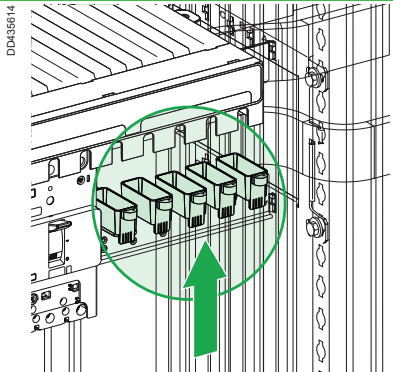
(4) The catalogue reference number is used only with NSXm Vigi.

# Linergy FC

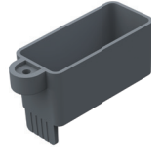
Feeders for ComPacT NSXm up to 160 A

## Device feeders

**Accessories**



DD438614



DD438615

**Tooth caps**

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

**Catalogue numbers**

**LVS04810**

### Characteristics

Common characteristics		
Rated operational current at 40°	(Ie)	Distribution-block derating follows the normal derating curves of ComPacT NSXm
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. The electrical characteristics are perfectly compatible with the connected devices. Neither the temperature derating curves nor the performance levels of the circuit breakers and switch-disconnectors are altered.
Rated insulation voltage	(Ui)	800 V AC
Rated operational voltage	(Ue)	690 V AC
Rated impulse withstand voltage	(Uimp)	8 kV
Rated peak withstand current	(Ipk)	18 kA
Rated short-time current with upstream protection of 85 kA Icc	(Icc)	50 kA
Thermal stress	(I².t)	4.5 x 10⁶ A²S
Rated conditional short-circuit current of an assembly		Short-circuit withstand current compatible with the breaking capacity of the ComPacT NSXm circuit breakers connected to the distribution block.

### Linergy FC selection table for special cases

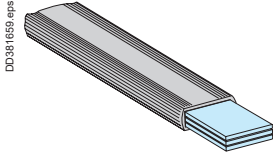
For most installations, the temperature around the switchboard is 40 °C, corresponding to an average temperature of 60 °C inside the switchboard.

Under certain conditions, the temperature inside the switchboard may be different.

(A) Rated operational current as a function of the temperature inside the switchboard					
Ambient Air Temperature outside panel (°C)		35	40	45	50
IP31 (A)	3P	600	575	550	525
	4P	500	480	460	440
IP55 (A)	3P	515	500	475	450
	4P	460	440	420	400

## Insulated flexible bars

## Secondary distribution



DD381659.eps

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 PrismaSeT switchboard.

## Characteristics

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

## Connection between device and busbars

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

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

Devices	Size (mm)	Catalogue number
NSX100	20 x 2	LVS04742
NSX160/250	20 x 3 (1)	LVS04743
NSX400	32 x 5	LVS04751
NSX630	32 x 8 (2)	LVS04753
NSX100 ELCB	20 x 2	LVS04742
NSX160/250 ELCB	20 x 3 (1)	LVS04743
NSX400 ELCB	32 x 5	LVS04751
NSX630 ELCB	32 x 8 (2)	LVS04753
INS-INV125/160	20 x 2	LVS04742
INS-INV250	20 x 3	LVS04743
INS-INV400	32 x 5	LVS04751
INS-INV630	32 x 6	LVS04752
FM 200 A Linergy	20 x 3	LVS04743
FC 3P Linergy	32 x 8 (2)(3)(4)	LVS04753
FC 4P Linergy	32 x 8 (2)(3)(4)	LVS04753
Fupact 250	24 x 5	LVS04746
Fupact 400	32 x 5	LVS04751
Fupact 630	32 x 8 (2)	LVS04753

(1) To connect a ComPacT NSX250 and NSX150 ELCB to Linergy BW busbars, use a 24 x 5 mm flexible bar (LVS04746).

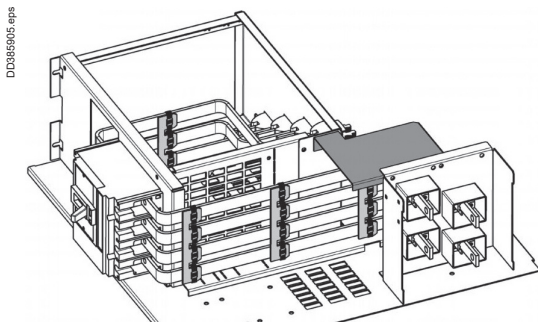
(2) The insulated flexible bars is not compatible with Form 2 partitioning (LVS04922). In this case, use the form 2 restoration kit LVS04924 > page H-5.

(3) In case of use of 32 x 6 insulated flexible bar, please contact Schneider Electric.

(4) Max length 500 mm per connection

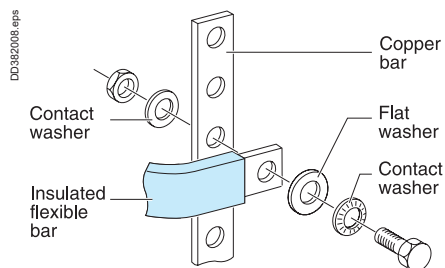
The references **87646** (3P) and **87647** (4P) can be used up to 250 A, when binding of insulated flexible bars, to withstand Icw.

**Note** : For NSXm connection, there is no flat insulated flexible bar available. Choose a cable prefabricated connection > pages E-35 and pages E-36.



DD385905.eps

## Secondary distribution



### Connection between busbars

Copper 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.

le (1) max	Size (mm)	Catalogue numbers
200 A	20 x 2	LVS04742
250 A	20 x 3	LVS04743
400 A	24 x 5	LVS04746
520 A	32 x 5	LVS04751
580 A	32 x 6	LVS04752
660 A	32 x 8	LVS04753

(1) Rated operational current.

### Designing connections

> page G-20.

# Linergy DX

## Quick distribution blocks

### Distribution blocks

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

#### Description

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



### Quick distribution blocks

Number of poles	4P, upstream incoming	4P, downstream incoming
Rated operational current at 40° (Ie)	63 A	63 A
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. 150 kA with upstream protection of 150 kA Icc	
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 (Icc)	150 kA	150 kA
Thermal stress (I².t)	9.03 x 10⁶	9.03 x 10⁶
Rated operational frequency	50/60 Hz	50/60 Hz
Degree of protection	IPxxB	IPxxB
Incoming terminals	1 tunnel terminal 25²/phase	1 tunnel terminal 25²/phase
Total connection capacity, outgoing terminals	24 connections: 4 x 6²/phase 12 x 6²/neutre	24 connections: 4 x 6²/phase 12 x 6²/neutre
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
Others		
Standard for installation inside PrismaSeT	IEC 61439-2	IEC 61439-2
Glow-wire 60695-2-11	960 °C	960 °C
Degree of pollution	3	3
<b>Catalogue numbers</b>	<b>LVS04040</b>	<b>LVS04041</b>

### Accessories

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

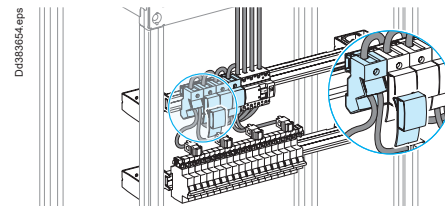
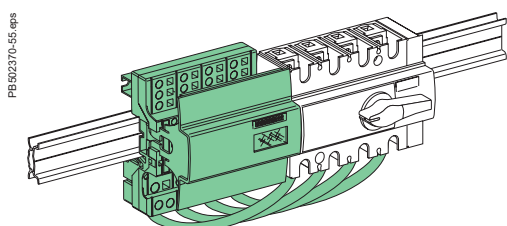
## Quick distribution blocks

### Distribution blocks

#### Advantages

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

4P		1P	
			
125 A	160 A	160 A	
The reinforced breaking capacity due to cascading in circuit breaker combinations is maintained. The worst-case situations have been tested. 150 kA with upstream protection of 150 kA Icc			
20 kA	20 kA	24 kA	
750 V AC	750 V AC	750 V AC	
690 V AC	690 V AC	690 V AC	
8 kV	8 kV	8 kV	
150 kA	150 kA	150 kA	
2.025 x 10 <sup>7</sup>	2.025 x 10 <sup>7</sup>	3.025 x 10 <sup>7</sup>	
50/60 Hz	50/60 Hz	50/60 Hz	
IPxxB	IPxxB	IPxxB	
1 tunnel terminal 35 <sup>2</sup> /phase	Supplied with a prefabricated flexible connection equipped with tunnel terminals (for INS-INV100/160 use adaptor <b>28947</b> (3P) <b>28948</b> (4P))	1 tunnel terminal 70 <sup>2</sup> /phase	
52 connections: 7 x 4 <sup>2</sup> /phase 3 x 6 <sup>2</sup> /phase 2 x 10 <sup>2</sup> /phase 1 x 16 <sup>2</sup> /phase (screw terminal)	52 connections: 7 x 4 <sup>2</sup> /phase 3 x 6 <sup>2</sup> /phase 2 x 10 <sup>2</sup> /phase 1 x 16 <sup>2</sup> /phase (screw terminal)	6 connections: 6 x 16 <sup>2</sup> /phase	
127 x 108 x 48 12 x 9 mm pitch	127 x 108 x 48 12 x 9 mm pitch	95 x 36 x 70 4 x 9 mm pitch	
Screwed to plain or slotted backplate or onto DIN rail	Screwed to plain or slotted backplate or onto DIN rail	Onto DIN rail	
Possible to combine 2 terminal blocks (2 <sup>nd</sup> terminal block supplied from enclosed terminals in the 1 <sup>st</sup> , I <sub>max</sub> of 2 <sup>nd</sup> terminal block: 80 A)			
IEC 61439-2	IEC 61439-2	IEC 61439-2	
960 °C	960 °C	960 °C	
3	3	3	
<b>LVS04045</b>	<b>LVS04046 (1)</b>	<b>LVS04031</b>	
4 x 125 A flexible connections, L = 240 mm with 1 end fitting for tunnel terminals.		4 x 160 A flexible connections, L = 380 mm with 2 x 45 mm <sup>2</sup> end fittings for tunnel terminals.	
<b>LVS04047 (1)</b>		<b>LVS04149</b>	



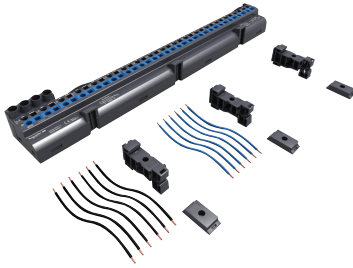
Note: electrical characteristics > page G-39.  
(1) To be adapted with reference **28947** and **28948** fir INS-INV160.

# Linergy FM

## Quick device feeders

### Device feeders



PE104505-50.eps



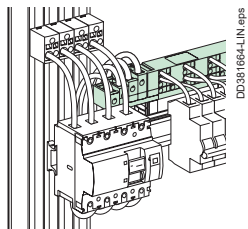
### Description

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

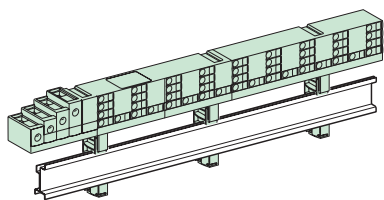
### Distribution blocks

Number of poles		4P	4P
			
		63 A	80 A
Rated peak withstand current (I <sub>pk</sub> )		12 kA	13 kA
Rated conditional short-circuit current of an assembly (I <sub>sc</sub> )		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. 150 kA with upstream protection of 150 kA I <sub>cc</sub>	
Rated insulation voltage (U <sub>i</sub> )		500 V AC	500 V AC
Rated voltage (U <sub>e</sub> )		440 V AC	440 V AC
Rated impulse withstand voltage (U <sub>imp</sub> )		6 kV	8 kV
Maximum current (I <sub>max</sub> )		-	-
Thermal stress (I <sup>2</sup> .t)		9.03 x 10 <sup>6</sup>	9.03 x 10 <sup>6</sup>
Rated operational frequency		50/60 Hz	50/60 Hz
Degree of protection		IPxxB	IPxxB
Width	9 mm modules	24	48
	18 mm modules	12	24
Supply at incoming terminals		Enclosed terminals for cables up to 25 mm <sup>2</sup>	
Downstream connection capacity, cable to be used without ferrules	Max. 4 mm <sup>2</sup>	Phase	6
		Neutral	4
	Max. 6 mm <sup>2</sup>	Phase	2
		Neutral	4
Max. 10 mm <sup>2</sup>	Phase	-	-
	Neutral	-	-
Accessories included	Pre-stripped copper connections	10 x 4 mm <sup>2</sup> + 6 x 6 mm <sup>2</sup> (W = 100 mm)	
	Protection cover	-	
	Fixing legs	2	
Catalogue numbers		LVS04008	LVS04004

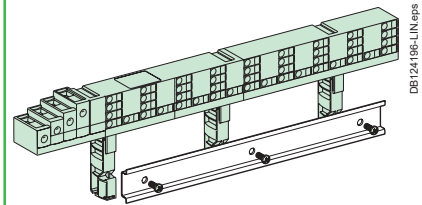
### Installation



Clipped onto the back of a modular rail, or screw fixing.



Clipped onto the back of a modular rail.

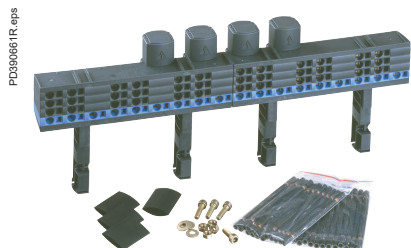







Clipped onto the back of a modular rail, or screw fixing.

# Linergy FM

## Quick device feeders

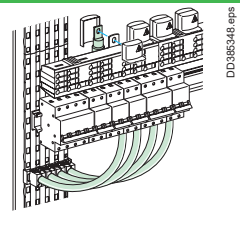
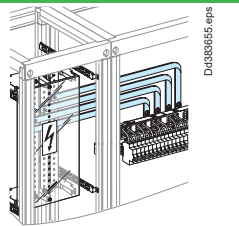
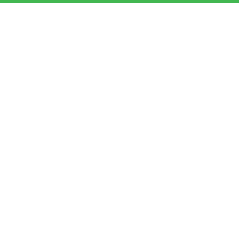
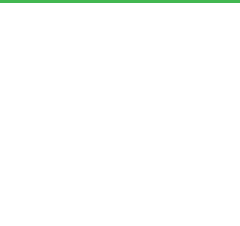
### Device feeders



4P	1P+N	3P	4P	4P
				
PB502498-18_r_eps	PB502498-23_r_eps	PB502498-27_r_eps	PE502497-27_r_eps	PB502497-27_r_eps
<b>160 A</b>	<b>200 A</b>	<b>200 A</b>	<b>200 A</b>	<b>200 A</b>
20 kA	20 kA	20 kA	20 kA	20 kA
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. 150 kA with upstream protection of 150 kA Icc				
750 V AC	750 V AC	750 V AC	750 V AC	750 V AC
690 V AC	690 V AC	690 V AC	690 V AC	690 V AC
8 kV	8 kV	8 kV	8 kV	8 kV
50 A for feeder for 10 mm <sup>2</sup> cable/63 A for feeder for 2 10 mm <sup>2</sup> cables				
3600 x 10 <sup>7</sup>	3600 x 10 <sup>7</sup>	3600 x 10 <sup>7</sup>		3600 x 10 <sup>7</sup>
50/60 Hz				
IPxxB				
24	48			72
12	24			36
Direct onto the row by cable 50 mm <sup>2</sup> with crimped lug, or flexible bar 20 x 3 from busbar with prefabricated connection				
-	-			-
-	-			-
-	-			-
-	-			-
6	12			-
6	18			-
12 x 10 mm <sup>2</sup>	24 x 10 mm <sup>2</sup>	24 x 10 mm <sup>2</sup>	24 x 10 mm <sup>2</sup>	36 x 10 mm <sup>2</sup>
4	2	3	4	4
2	4	4	4	6
<b>LVS04018 (1)</b>	<b>LVS04012 (1)(2)</b>	<b>LVS04013 (1)</b>	<b>LVS04014 (1)(2)</b>	<b>LVS04026 (1)</b>



### Connections to the distribution block

			
DD38C348_eps	DD38C348_eps	DD38C348_eps	DD38C348_eps
4P 200 A connection (supplied with fixings)	4P 200 A connection (supplied with fixings)	4P 200 A connection (supplied with fixings)	4P 160 A connection for Linergy FM 1/2 row
Allows power supply from Linergy BW busbars	Allows power supply from Linergy BS busbar	Allows power supply from Rear Linergy BS busbar	Allows power supply from Devices
<b>Catalogue numbers</b>	<b>LVS04021</b>	<b>LVS04024</b>	<b>LVS04029</b>
			<b>LVS04030</b>

### Spare parts

	PB502492-8_r_eps
	4 covers for 160/200 A Linergy FM rows
<b>Catalogue numbers</b>	<b>LVS01202</b>

**Note:** electrical characteristics > page G-39.

(1) Cable to be used without tip.

(2) Use Linergy FM 200 (LVS04012 and LVS04014) in Direct Current is possible. It is mandatory to locate on the device the nature of the terminals ⊕ and ⊖ at upstream and downstream. For more information, please contact our customer service.

# 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 PrismaSeT G and PrismaSeT 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
Total connection capacity	10	13	14	4 x 7
<b>Terminal capacity</b>				
Diameter	2 x Ø9.5 mm	2 x Ø12 mm	1 x Ø15.3 mm	2 x Ø7.5 mm
	2 x Ø7.5 mm	3 x Ø7.5 mm	1 x Ø10 mm	5 x Ø5.5 mm
	6 x Ø5.8 mm	8 x Ø5.8 mm	4 x Ø6 mm	-
	-	-	8 x Ø7.5 mm	-
Rated peak withstand current (I <sub>pk</sub> )	I <sub>pk</sub> /60 ms	25 kA	36 kA	60 kA
	I <sub>pk</sub> /6 ms	-	-	-
Rated short-time withstand current (I <sub>cc</sub> ) (IEC/EN 60947-7-1)	36 kA	36 kA	36 kA	20 kA
Width (number of 9 mm pitches)	3	4	5	8
Dimensions (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)	-	-	-	<b>LGYN1007</b>
Catalog numbers	<b>LGY112510</b>	<b>LGY116013</b>	<b>LGY125014</b>	<b>LGY410028</b>

# Linergy DS

## Screw distribution blocks

### Distribution blocks

#### Technical data

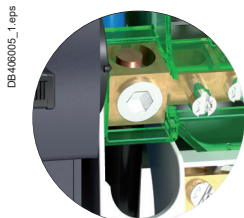
##### Common characteristics

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 (L/N) 440 V AC (L/L)
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
Degree of pollution	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		
4 x 12	4 x 15	4 x 12	7	12	15
1 x Ø9 mm	1 x Ø9.5 mm	1 x Ø12 mm	2 x Ø7.5 mm	1 x Ø9 mm	1 x Ø9.5 mm
7 x Ø7.5 mm	3 x Ø8.5 mm	3 x Ø9 mm	5 x Ø5.5 mm	7 x Ø7.5 mm	3 x Ø8.5 mm
4 x Ø6.5 mm	11 x Ø6.5 mm	8 x Ø7.5 mm	-	4 x Ø6.5 mm	11 x Ø6.5 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

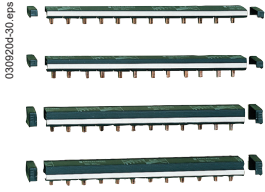
#### Terminal technical data

Type	PZ2 screw							
Diameter	Ø5.5 mm	Ø5.8 mm	Ø6 mm	Ø6.5 mm	Ø7.5 mm	Ø8.5 mm	Ø9 mm	Ø9.5 mm
Section rigid cable	1.5 to 16 mm <sup>2</sup>	1.5 to 16 mm <sup>2</sup>	1.5 to 16 mm <sup>2</sup>	1.5 to 16 mm <sup>2</sup>	2.5 to 25 mm <sup>2</sup>	6 to 35 mm <sup>2</sup>	10 to 35 mm <sup>2</sup>	10 to 35 mm <sup>2</sup>
Section flexible cable or with ferrule	1.5 to 10 mm <sup>2</sup>	1.5 to 10 mm <sup>2</sup>	1.5 to 10 mm <sup>2</sup>	1.5 to 10 mm <sup>2</sup>	1.5 to 16 mm <sup>2</sup>	4 to 25 mm <sup>2</sup>	4 to 25 mm <sup>2</sup>	6 to 35 mm <sup>2</sup>
Tightening torque	2 N.m	2 N.m	2 N.m	2 N.m	2 N.m	2 N.m	2.5 N.m	2.5 N.m
Type	HC screw							
Diameter	Ø9.5 mm	Ø10 mm	Ø12 mm	Ø15.3 mm				
Section rigid cable	10 to 35 mm <sup>2</sup>	1.5 to 50 mm <sup>2</sup>	25 to 70 mm <sup>2</sup>	35 to 120 mm <sup>2</sup>				
Section flexible cable or with ferrule	6 to 35 mm <sup>2</sup>	1.5 to 35 mm <sup>2</sup>	16 to 50 mm <sup>2</sup>	25 to 95 mm <sup>2</sup>				
Tightening torque	8 N.m	4 N.m	1P: 9 N.m 4P: 5 N.m	14 N.m				

# Linergy FH

Comb busbar for 27 mm pitch for C120, NG125

Device feeders



## IEC 60664-1

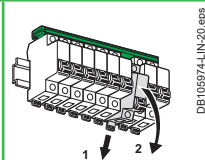
### Description

Comb busbars make it easier to install C120 and NG125 circuit breaker.

- Supplied with 2 lateral end-caps, to reinforce copper bars insulating (IP2).
- Allowing circuit identification.
- Easy cut to length thanks to cutting marks on the insulating material and copper bars.

C120, NG125		27 mm poles, cuttable			
Number of poles	1P	2P	3P	4P	
	Each com 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 to 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 C120 and NG125 circuit breakers				
Rated insulation voltage (Ui)	620 V AC				
Rated voltage (Ue)	500 V AC				
Degree of pollution	3				
Fire resistance to IEC 695-2-1	Self-extinguishing 960 °C, 30 s				
Colour	RAL 7016 (anthracite grey)				
<b>Use</b>					
	Power supply by connector recommended				
Number of 27 mm modules	16	16	15	16	
Set of	1				
<b>Catalog numbers</b>	<b>14811</b>	<b>14812</b>	<b>14813</b>	<b>14814</b>	

## Installation

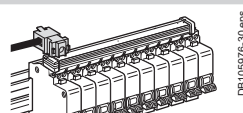
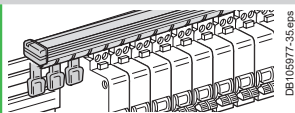


Comb busbars allow dismantability of switchgear.

## Accessories

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

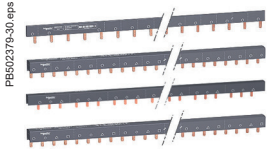
## Installation



# Linergy FH

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.

- Can be sawn and cut in a single pass, with a metal saw (the end-caps are compulsory after cutting).
- Supplied with two lateral end-caps to reinforce copper bars insulating (IP2) except for 57 module references. The side plates are compulsory after cutting.
- Easy cut to length thanks to cutting marks on the insulating material and copper bars.
- 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										
Rated insulation voltage (Ui)	500 V AC										
Rated voltage (Ue)	415 V AC										
Degree of pollution	3										
Fire resistance to IEC 695-2-1	Self-extinguishing 960 °C, 30 s										
Colour	RAL 7016 (anthracite grey)										
<b>Use</b>											
	Power supply by connector recommended										
Type	L1...	L1L2...	L1L2L3...	NL1L2L3...	NL1NL2... ...NL3	AuxL1...	AuxL1L2...	AuxL1L2L3	AuxNL1... ...L2L3	AuxL1... ...AuxL2... ...AuxL3	AuxL1... ...AuxL2... ...AuxL3
Set of	1	1	1	1	1	1	1	1	1	1	1
<b>Catalog numbers</b>											
6 modules of 18 mm	A9XPH106	-	-	-	-	-	-	-	-	-	-
12 modules of 18 mm	A9XPH112	A9XPH212	A9XPH312	A9XPH412	A9XPH512 (1)	-	-	-	-	-	-
18 modules of 18 mm	-	-	-	-	A9XPH518 (1)	-	-	-	-	-	-
24 modules of 18 mm	A9XPH124	A9XPH224	A9XPH324	A9XPH424	A9XPH524 (1)	-	-	-	-	-	-
57 modules of 18 mm	A9XPH157	A9XPH257	A9XPH357	A9XPH457	A9XPH557 (1)	A9XAH157	A9XAH257	A9XAH357	A9XAH457	A9XAH657	A9XAH557 (1)

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

### Installation



PB110290-20 eps



PB110793-20 eps

### Accessories

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

# Linergy FH

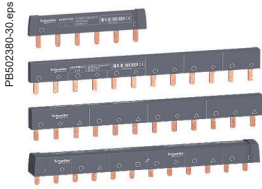
Comb busbar for 18 mm pitch for Acti 9

Device feeders

IEC 60947-7-1, IEC 61439-2

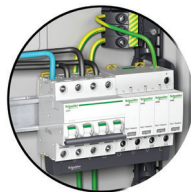
### Description

- 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 to 40 °C (Ie)	100 A					
Rated conditional short-circuit current of an assembly (Isc)	Compatible with the breaking capacity of Acti 9 circuit breakers					
Rated insulation voltage (Ui)	500 V AC					
Rated voltage (Ue)	415 V AC					
Degree of pollution	3					
Fire resistance to IEC 695-2-1	Self-extinguishing 960 °C, 30 s					
Colour	RAL 7016 (anthracite grey)					
<b>Use</b>						
Type	Power supply by connector recommended					
Set of	L1	L1L2	L1L2L3	NL1L2L3	NL1NL2NL3	
Set of	1	1	1	1	1	
Catalog numbers	-	A9XPM212	-	A9XPM412	A9XPM512 (1)	
12 modules of 18 mm						

## Installation



## Accessories

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



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

# Linergy FH

Comb busbar for 9 mm pitch for Acti 9, C60

Device feeders

## IEC 60439-1

### Description

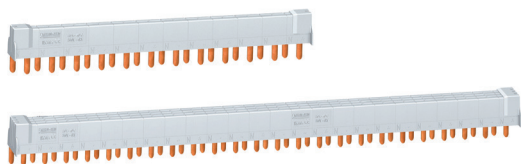
Comb busbars ensure:



- 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:

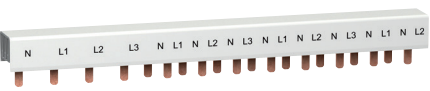
- connection of Group Feeder switchgear: C60 (3P + N) or ID (3P + N) circuit breaker in 18 mm modules, powered by cables, through the bottom, directly by the terminals
- connection of Acti 9 switchgear in 9 mm modules.

PB502302-70.eps

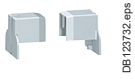





Acti 9 L + N		9 mm poles, cuttable					
Number of poles		1P + N			3P + N		
							
		21501			21505		
		Complete comb busbars (supplied with 4 side plates and 1 tooth cap)					
Rated operational current to 40 °C (Ie)		80 A					
Rated conditional short-circuit current of an assembly (Isc)		Compatible with the breaking capacity of Acti 9 C60 and circuit breakers					
Rated 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					
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	Comb busbar	12	18	24	12	18	24
	Tooth cap	3	3	6	3	3	6
Catalog numbers		21501	19512	21503	21505	19516	21507
<b>Comb busbars alone</b>							
Number of 18 mm modules	Comb busbar	48			48		
Catalog numbers		21089			21093		

## C60/ID Group Feeder comb busbars alone

Number of poles		3P + N		
				
Rated operational current to 40 °C (Ie)		80 A		
Rated conditional short-circuit current of an assembly (Isc)		Compatible with the breaking capacity of Schneider Electric circuit breakers		
Rated 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		
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		12	48	48
Power supply		Through left-hand	Through left-hand	Through right-hand
Catalog numbers		10545	10546	10547

## Accessories

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



# Linergy FH

Comb busbar for 9 mm pitch for Acti 9

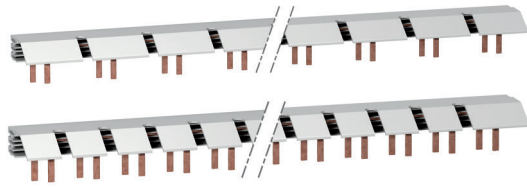
Device feeders

## IEC 60439-1

### Description

- Connection of Clario, Prodis and Librio 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 PrismaSeT switchboard.
- 1P+N comb busbars are compatible with PrismaSeT and Pragma 24.

PB502389-10.eps



Acti 9		9 mm poles, cuttable			
Number of poles		1P + N	3P + N	1P + N	3P + N
		A9N21036		DPN Vigi comb busbars	
Rated operational current to 40 °C (Ie)	63 A				
Rated conditional short-circuit current of an assembly (Isc)	Compatible with the breaking capacity of Acti 9 circuit breakers				
Rated 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	56
Catalog numbers	A9N21035	A9N21036	A9N21037	A9N21038	

PB110801-10.eps

## Accessories

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

# Linergy FH

Horizontal comb busbar for 18 mm pitch for Domae

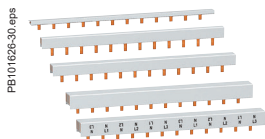
Device feeders

IEC 60439-1, IEC 60664

### Description

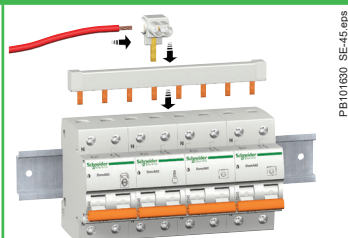
Comb busbars:

- Comb busbars ensure: 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
- Can be sawn and cut in a single pass, with a metal saw (the end-caps are compulsory after cutting).
- Are supplied with 2 (IP20) lateral end-caps (mandatory).
- Teeth that have been left free can be insulated by tooth-caps.



Domae		18 mm poles, cuttable								
Number of poles		1P	2P	3P	4P	3P (N + P)				
Rated operational current to 40 °C (Ie)		63 A								
Rated conditional short-circuit current of an assembly (Isc)		Compatible with the breaking capacity of circuit breakers								
Rated insulation voltage (Ui)		500 V AC								
Rated voltage (Ue)	L/N	230 V AC								
	L/L	400 V AC								
Degree of pollution		3								
Fire resistance to IEC 695-2-1		Auto-extinguible to 850 °C 30 secondes								
Colour		RAL 7035								
Power supply		By 16 mm <sup>2</sup> semi-rigid cables or 10 mm <sup>2</sup> flexible cables								
		By connector								
Number of 18 mm modules		12	57	12	57	12	57	12	57	57
Catalog numbers		10387	10388	10389	10390	10391	10392	10393	10394	10395

## Installation



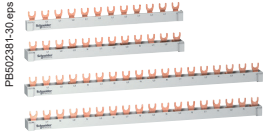
## Accessories

Type	Connectors (4 x 35 mm <sup>2</sup> )	Side plates (2 phases)	Side plates (3 phases)	Side plates (4 phases)	Tooth caps
Set of	1	10	10	10	10
Catalog numbers	10397	10398	10399	10405	10396

# Linergy FH

Horizontal biconnect comb busbar for 18 mm pitch

Device feeders



## IEC 60664-1

### Description

- Distribution and sub-distribution of the electric power supply.
- Fast assembly and disassembly of connected devices.

Comb horizontal bi-connection		18 mm poles, cuttable											
Number of poles		1P			2P			3P			4P		
Rated operational current to 40 °C (Ie)	63 A												
Rated conditional short-circuit current of an assembly (Isc)	Compatible with the breaking capacity of circuit breakers												
Rated insulation voltage (Ui)	500 V AC												
Rated voltage (Ue) L/N	230 V AC												
	L/L	400 V AC											
Degree of pollution	3												
Fire resistance to IEC 695-2-1	Self-extinguishing 960 °C, 30 s												
Colour	RAL 7035 (grey)												
<b>Use</b>		Power supply: directly on terminal (25 mm <sup>2</sup> rigid or 16 mm <sup>2</sup> flexible) or by connector (35 mm <sup>2</sup> rigid or 25 mm <sup>2</sup> flexible with ferrule)											
Type	L1	L1L2			L1L2L3			L1L2L3L4					
Number of 18 mm modules	12	18	57	12	18	57	12	18	57	12	18	57	
Set of	1	1	1	1	1	1	1	1	1	1	1	1	
Catalog numbers	R9XFH112	R9XFH118	R9XFH157	R9XFH212	R9XFH218	R9XFH257	R9XFH312	R9XFH318	R9XFH357	R9XFH412	R9XFH418	R9XFH457	

### Installation

Comb busbars horizontal bi-connection		18 mm poles, cuttable													
Number of poles		4P													
Rated operational current to 40 °C (Ie)	63 A														
Rated conditional short-circuit current of an assembly (Isc)	Compatible with the breaking capacity of Schneider Electric circuit breakers														
Rated insulation voltage (Ui)	500 V AC														
Rated voltage (Ue) L/N	230 V AC														
	L/L	400 V AC													
Degree of pollution	3														
Fire resistance to IEC 695-2-1	Self-extinguishing 960 °C, 30 s														
Colour	RAL 7035 (grey)														
<b>Use</b>		NL1L2L3L4 - NL1NL2NL3													
Type	NL1L2L3L4 - NL1NL2NL3			NL1NL2NL3											
Number of 18 mm modules	18			18									57		
Set of	1			1									1		
Catalog numbers	R9XFH518G			R9XFH518									R9XFH557		

### Installation

### Accessories

Number of poles	1P	2P	3P	4P		
	Side plates				Tooth caps	Connectors
Set of	10				20	4
Catalog numbers	R9XE110	R9XE210	R9XE310	R9XE410	R9XT20	R9XFC04

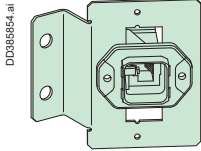
# LinerGY TA

## Auxiliary connections

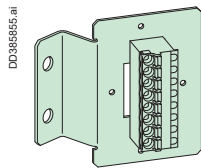
### Terminal blocks and lines

#### Connectors

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



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



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



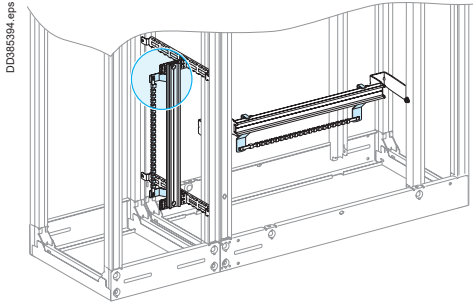
USB and RJ45 ports					
Description	Panel-mounted USB and RJ45 ports in 22.5 mm hole with notch				
Interface type	USB interface, jack type A	Ethernet interface, RJ45 jack	Plastic protection cover IP65/ IP67	Rigid plastic protection cover IP65/ IP67	Metal protection cover IP65/ IP67/IP69K
Connection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



# Linergy TB

## Earth bars

### Terminal blocks and lines

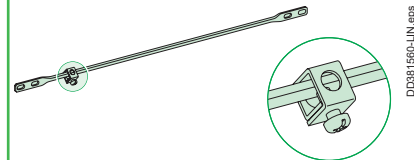


### Description

This range of earth bars is installed:

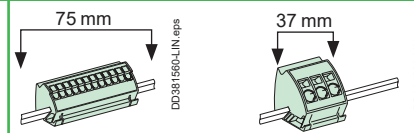
- in the duct which can constitute a dedicated area, completely separate from the equipment
- or in the switchgear compartment, at the top or the bottom .

#### Fast-connecting earth bar



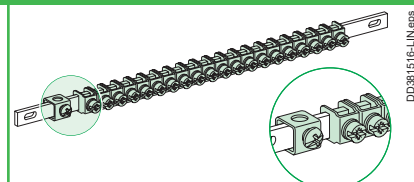
	<b>Copper earth bar</b>
Cross-section (mm)	12 x 3
Effective length (mm)	330
Total length (mm)	450
Composition	Copper bar with 1 terminal 16 to 35 mm <sup>2</sup>
Rated short time withstand current (lcw)	9 kA rms/0.5 s
<b>Catalog numbers</b>	<b>LVS04201</b>

#### Accessories



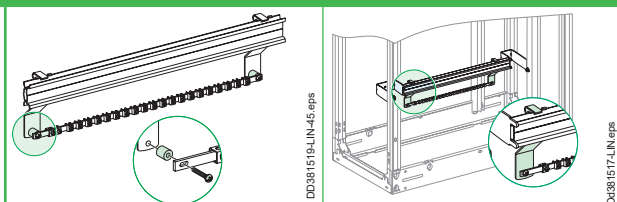
	<b>Earth blocks with terminals</b>	
	Spring-fixing (clip onto the earth bar)	
Total connection capacity	12 x 4 mm <sup>2</sup>	3 x 16 mm <sup>2</sup>
Composition	4 earth blocks	4 earth blocks
Rated short time withstand current (lcw)	1 kA rms/0.5 s	4 kA rms/0.5 s
<b>Catalog numbers</b>	<b>LVS04214</b>	<b>LVS04215</b>

#### Accessories



	<b>Copper earth bar with jumper</b>	
Total connection capacity	40 x 2.5 to 16 mm <sup>2</sup>	20 x 2.5 to 16 mm <sup>2</sup>
Cross-section (mm)	12 x 3	12 x 3
Length (mm)	450	200
Composition	40 jumpers and a terminal (16 to 35 mm <sup>2</sup> )	20 jumpers and a terminal (16 to 35 mm <sup>2</sup> )
Rated short time withstand current (lcw)	9 kA rms/0.5 s	9 kA rms/0.5 s
<b>Catalog numbers</b>	<b>LVS04200</b>	<b>LVS04202</b>

#### Accessories



	<b>Neutral bar</b>	<b>Earth bar</b>
	Converts an earth bar to a neutral bar	
Composition	2 insulating spacers	2 supports for earth bar on modular rail
<b>Catalog numbers</b>	<b>LVS04210</b>	<b>LVS04205</b>

Linergy TB  
PE conductor

Terminal blocks and lines

PE conductor							
	<b>Vertical PE conductor with Linergy LGY profile (W = 1670 mm)</b>			<b>Vertical PE conductor with Linergy BS busbar (W = 1675 mm)</b>		<b>Horizontal PE conductor with Linergy BS busbar</b>	
Rated short-time current (Isc)	≤ 65	> 65... ≤ 80	= 100	≤ 40	> 40	≤ 40	> 40
Permissible current (A)	630	800	1250	400	600	400	600
Bar size (mm)				25 x 5	50 x 5	25 x 5	50 x 5
Characteristics				Drilled flat bar Ø10.6 mm (one 10.6 mm hole every 25 mm along the entire length)	Drilled flat bar Ø10.6 mm (two 10.6 mm hole every 25 mm along the entire length)		
Catalog numbers	LVS04502	LVS04503	LVS04505	LVS04512	LVS04515	LVS04512	LVS04515

Support selection		
Composition	Three supports for one vertical PE (supplied with PE marking) to secure to the framework	Two supports for one horizontal PE
Catalog numbers	LVS04657	LVS04667

Connection between PE conductors		
	<b>Connection plates for horizontal/vertical PE bars</b>	<b>Linergy connection hardware</b>
Composition	2 copper angle brackets	20 M8 bolts (W = 25 mm) + 20 nuts + 20 contact washers for connection to cable lugs or flexible bars
Catalog numbers	LVS04672	LVS04766

PEN conductor		
	<b>Linergy TB PEN installation kit with LGY vertical profile</b>	<b>1600 A connection 10 mm horizontal busbar with Linergy LGY profile</b>
Catalog numbers	LVS04656 (1)	LVS04636
		<b>Linergy LGYE vertical connection 1600 A</b>
Catalog numbers		LVS04602

Note: for further details > page I-11.

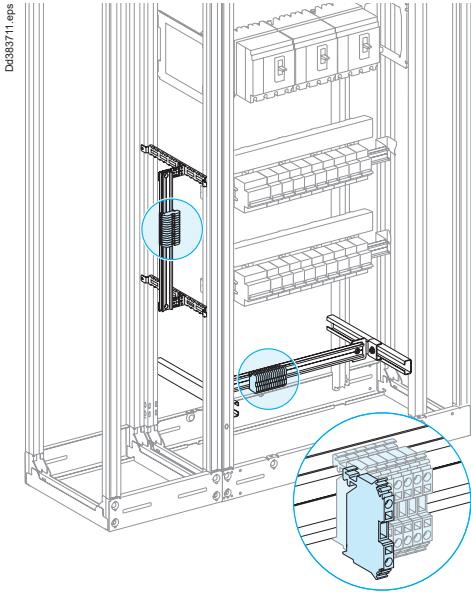
(1) For LGYE HBB, additional fish plate need to be manufactured as per the drawing supplied by Schneider Electric.

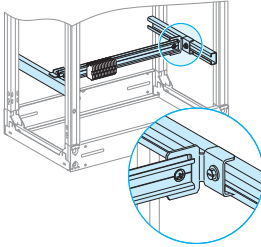
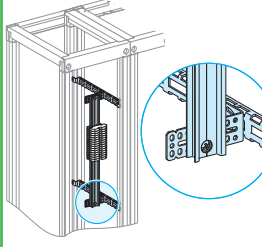
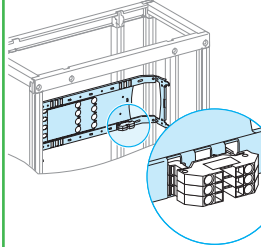
# Linergy TB terminal block support

## Secondary distribution

### Introduction

In PrismaSeT P cubicles, terminal blocks are commonly installed in a lateral compartment, generally 300 or 400 mm wide. They may also be installed at the top or bottom of the cubicle.



	Installation at top or bottom of a cubicle	Installation in a lateral compartment	Installation on a device mounting plate
			
Modular rail, depth adjustable (W = 432 mm)	<b>LVS03402</b>	-	-
2 modular rails W = 1600 mm	<b>LVS04226</b>	<b>LVS04226</b>	-
2 universal angle brackets	<b>LVS03581</b>	<b>LVS03581</b>	-
Set of two lateral cross-members W = 400 mm	<b>LVS03584</b>	-	-
Characteristics	Terminal blocks are grouped on modular rails that can be depth adjusted behind a plain front plate.	The terminal block is generally installed in the cable compartment, W = 300 or 400 mm. The terminal blocks clip onto a modular rail. The rail is secured to cable-tie supports using universal angle brackets for precise positioning of the terminal blocks.	Terminal blocks can be directly installed on the mounting plates for horizontally mounted ComPacT NSX100/630 and vertically mounted ComPacT NS630b/1600 for connection of auxiliary wires.

#### Width of standard terminal blocks

Max. cable CSA (mm <sup>2</sup> )	4	6	10	16
Width of terminal block (mm)	6	8	10	12

#### Height required in switchboard

Max. cable CSA (mm <sup>2</sup> )	4	6	10	16
No. of vertical modules	3	3	5	6
Plain front plate	<b>LVS03803</b>	<b>LVS03803</b>	<b>LVS03805</b>	<b>LVS03806</b>

Designing connection  $\leq 630$  A

## Auxiliary connections

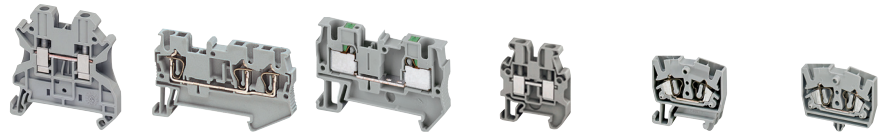
## Electrical characteristics

Device	Ambient temperature around the switchboard											
	25°C		30°C		35°C		40°C		45°C		50°C	
	IP $\leq$ 31	IP > 31	IP $\leq$ 31	IP > 31	IP $\leq$ 31	IP > 31	IP $\leq$ 31	IP > 31	IP $\leq$ 31	IP > 31	IP $\leq$ 31	IP > 31
Rated current of a circuit $I_{nc}$ (A)												
<b>Linerigy BW</b>												
Insulated bus bar Linergy BW 125A	134	125	129	120	125	116	120	111	116	106	110	■
Insulated bus bar Linergy BW 160A	171	160	166	154	160	148	154	142	148	135	142	■
Insulated bus bar Linergy BW 250	267	250	259	241	250	231	241	222	231	211	222	■
Insulated bus bar Linergy BW 400A	428	400	414	385	400	370	385	355	370	338	355	■
Insulated bus bar Linergy BW 630A	673	630	652	607	630	583	607	558	583	532	558	■
<b>Linerigy BS</b>												
Rear flat busbars 160 A	171	160	166	154	160	148	154	142	148	135	142	■
Rear flat busbars 250 A	267	250	259	241	250	231	241	222	231	211	222	■
Rear flat busbars 400 A	428	400	414	385	400	370	385	355	370	338	355	■
Rear flat busbars 630 A	673	630	652	607	630	583	607	558	583	532	558	■
<b>Linerigy BS</b>												
Multi-stage busbars 160 A	171	160	166	154	160	148	154	142	148	135	142	■
Multi-stage busbars 250 A	267	250	259	241	250	231	241	222	231	211	222	■
Multi-stage busbars block 400A	428	400	414	385	400	370	385	355	370	338	355	■
Multi-stage busbars block 630 A	673	630	652	607	630	583	607	558	583	532	558	■
<b>Linerigy BS</b>												
Multi-stage distribution block 160 A	171	160	166	154	160	148	154	142	148	135	142	■
Multi-stage distribution block 250 A	267	250	259	241	250	231	241	222	231	211	222	■
Multi-stage distribution block 400A	428	400	414	385	400	370	385	355	370	338	355	■
Multi-stage distribution block 630 A	673	630	652	607	630	583	607	558	583	532	558	■
<b>Linerigy DX</b>												
Quick distribution block Linergy DX 4P 125A	134	125	129	120	125	116	120	111	116	106	111	■
Quick distribution block Linergy DX 4P 160A	171	160	166	154	160	148	154	142	148	135	142	■
Quick distribution block Linergy DX 1P 1P 160A	171	160	166	154	160	148	154	142	148	155	142	■
<b>Linerigy DP</b>												
Quick distribution block Linergy DP 3P-4P 160A	160	160	155	155	150	150	145	145	140	140	135	■
Quick distribution block Linergy DP 3P-4P 250A	267	250	259	241	250	231	241	222	231	211	222	■
<b>Linerigy FM</b>												
Quick device feeders Linergy FM 4P 63A	67	63	65	61	63	58	61	56	58	53	56	■
Quick device feeders Linergy FM 4P 80A	86	80	83	77	80	74	77	71	74	68	71	■
Quick device feeders Linergy FM 4P 160A	171	160	166	154	160	148	154	142	148	135	142	■
Quick device feeders Linergy FM 2P 200A	214	200	207	193	200	185	193	177	185	169	177	■
Quick device feeders Linergy FM 3P 200A	214	200	207	193	200	185	193	177	185	169	177	■
Quick device feeders Linergy FM 4P 200A	214	200	207	193	200	185	193	177	185	169	177	■
Quick device feeders Linergy FM 4P 200A (36 modules)	214	200	207	193	200	185	193	177	185	169	177	■

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

Linergy TR  
Terminal blocks

Secondary distribution



			Connection technology					
Type of terminal block	Cross section area	Color	Screw tech	Spring tech	Push-in tech	Miniature screw for 15 mm DIN rail	Miniature spring for 15 mm DIN rail	Miniature spring for direct mount
Passthrough	2.5 mm <sup>2</sup> (2 pts)	Grey	NSYTRV22	NSYTRR22	NSYTRP22	NSYTRV22M	NSYTRR22M	NSYTRR22MF
		Blue	NSYTRV22BL	NSYTRR22BL	NSYTRP22BL	NSYTRV22MBL	NSYTRR22MBL	NSYTRR22MFBL
		Orange	NSYTRV22AR	NSYTRR22AR	NSYTRP22AR	-	-	NSYTRR22MFF*
	2.5 mm <sup>2</sup> (3 pts)	Grey	NSYTRV23	NSYTRR23	NSYTRP23	-	-	-
		Blue	NSYTRV23BL	NSYTRR23BL	NSYTRP23BL	-	-	-
		Orange	-	NSYTRR23AR	NSYTRP23AR	-	-	-
	2.5 mm <sup>2</sup> (4 pts)	Grey	NSYTRV24	NSYTRR24	NSYTRP24	-	NSYTRR24M	NSYTRR24M
		Blue	NSYTRV24BL	NSYTRR24BL	NSYTRP24BL	-	NSYTRR24MBL	NSYTRR24MBL
	2.5 mm <sup>2</sup> (4 pts, 2 levels)	Grey	NSYTRV24D	NSYTRR24D	NSYTRP24D	-	-	-
		Blue	NSYTRV24DBL	NSYTRR24DBL	NSYTRP24DBL	-	-	-
	2.5 mm <sup>2</sup> (6 pts, 3 levels)	Grey	NSYTRV26T	NSYTRR26T	NSYTRP26T	-	-	-
		Blue	NSYTRV26TBL	NSYTRR26TBL	NSYTRP26TBL	-	-	-
	4 mm <sup>2</sup> (2 pts)	Grey	NSYTRV42	NSYTRR42	NSYTRP42	NSYTRV42M	-	-
		Blue	NSYTRV42BL	NSYTRR42BL	NSYTRP42BL	NSYTRV42MBL	-	-
		Orange	NSYTRV42AR	NSYTRR42AR	-	-	-	-
	4 mm <sup>2</sup> (3 pts)	Grey	NSYTRV43	NSYTRR43	NSYTRP43	-	-	-
		Blue	NSYTRV43BL	NSYTRR43BL	NSYTRP43BL	-	-	-
	4 mm <sup>2</sup> (4 pts)	Grey	NSYTRV44	NSYTRR44	NSYTRP44	-	-	-
		Blue	NSYTRV44BL	NSYTRR44BL	NSYTRP44BL	-	-	-
	4 mm <sup>2</sup> (4 pts, 2 levels)	Grey	NSYTRV44D	NSYTRR44D	-	-	-	-
Blue		NSYTRV44DBL	NSYTRR44DBL	-	-	-	-	
6 mm <sup>2</sup> (2 pts)	Grey	NSYTRV62	NSYTRR62	-	-	-	-	
	Blue	NSYTRV62BL	NSYTRR62BL	-	-	-	-	
10 mm <sup>2</sup> (2 pts)	Grey	NSYTRV102	NSYTRR102	-	-	-	-	
	Blue	NSYTRV102BL	NSYTRR102BL	-	-	-	-	
16 mm <sup>2</sup> (2 pts)	Grey	NSYTRV162	NSYTRR162	-	-	-	-	
	Blue	NSYTRV162BL	NSYTRR162BL	-	-	-	-	
Earth protection	2.5 mm <sup>2</sup> (2 pts)	Green/Yellow	NSYTRV22PE	NSYTRR22PE	NSYTRP22PE	NSYTRV22MPE	NSYTRR22MPE	-
	2.5 mm <sup>2</sup> (3 pts)	Green/Yellow	NSYTRV23PE	NSYTRR23PE	NSYTRP23PE	-	-	-
	2.5 mm <sup>2</sup> (4 pts)	Green/Yellow	NSYTRV24PE	NSYTRR24PE	NSYTRP24PE	-	-	-
	4 mm <sup>2</sup> (2 pts)	Green/Yellow	NSYTRV42PE	NSYTRR42PE	NSYTRP42PE	NSYTRV42MPE	-	-
	4 mm <sup>2</sup> (3 pts)	Green/Yellow	NSYTRV43PE	NSYTRR43PE	NSYTRP43PE	-	-	-
	4 mm <sup>2</sup> (4 pts)	Green/Yellow	NSYTRV44PE	NSYTRR44PE	NSYTRP44PE	-	-	-
	6 mm <sup>2</sup> (2 pts)	Green/Yellow	NSYTRV62PE	NSYTRR62PE	-	-	-	-
	10 mm <sup>2</sup> (2 pts)	Green/Yellow	NSYTRV102PE	NSYTRR102PE	-	-	-	-
Knife Disconnect	2.5 mm <sup>2</sup> (2 pts)	Grey	NSYTRV22SC	NSYTRR22SC	NSYTRP22SC	-	-	-
		Orange	NSYTRV22ST (1)	NSYTRR22SCAR	-	-	-	-
	2.5 mm <sup>2</sup> (3 pts)	Grey	-	NSYTRR23SC	NSYTRP23SC	-	-	-
		Orange	-	NSYTRR23SCAR	-	-	-	-
2.5 mm <sup>2</sup> (2 levels)	Grey	NSYTRV24SCD	NSYTRR24SCD	-	-	-	-	
Fuse Disconnect	4 mm <sup>2</sup> (2 pts)	Black	NSYTRV42SF5	-	-	-	-	-
	5 x 20 mm fuse	Black (12 V)	NSYTRV42SF5LD (2)	-	-	-	-	-
		Black (230 V)	NSYTRV42SF5LA (2)	-	-	-	-	-
Basic Disconnect (3)	4 mm <sup>2</sup> (2 pts)	Grey	NSYTRV42TB	NSYTRR42TB	NSYTRP42TB	-	-	-
Measuring transducer	6 mm <sup>2</sup> (2 pts) Disconnect	Grey	NSYTRV62TTD	-	-	-	-	-
	6 mm <sup>2</sup> (2 pts)	Grey	NSYTRV62TT	-	-	-	-	-
	6 mm <sup>2</sup> (2 pts)	Green/Yellow	NSYTRV62TTPE	-	-	-	-	-

\* Grey terminal with flange.

(1) Grey disconnect terminal with 2 test points.

(2) With light indicator.

(3) Fuse or component carrier not supplied.

# Linergy TR

## Terminal blocks

### Secondary distribution



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

### Cable ends compatible with all technologies

Wires corss section area	References
0.5 mm <sup>2</sup>	DZ5CE005 DZ5CA005
0.75 mm <sup>2</sup>	DZ5CE007 DZ5CA007
1 mm <sup>2</sup>	DZ5CE010 DZ5CA010
1.5 mm <sup>2</sup>	DZ5CE015 DZ5CA015
2.5 mm <sup>2</sup>	DZ5CE025 DZ5CA025
4 mm <sup>2</sup>	DZ5CE042 DZ5CA042
6 mm <sup>2</sup>	DZ5CE062 DZ5CA062
10 mm <sup>2</sup>	DZ5CE102 DZ5CA102
16 mm <sup>2</sup>	DZ5CE162 DZ5CA162
25 mm <sup>2</sup>	DZ5CE252 DZ5CA253
35 mm <sup>2</sup>	DZ5CE352 DZ5CA352
50 mm <sup>2</sup>	DZ5CE502 DZ5CA502

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



# Functional partitioning

Main distribution

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<b>IS Service Indices</b>	
Presentation	H-2
<b>Form partitioning</b>	
Presentation	H-3
<b>Form 1 partitioning</b>	
Covering the supply terminals on the incoming device	H-4
<b>Form 2 partitioning</b>	<b>H-5</b>
<b>Form 3 partitioning</b>	<b>H-6</b>
<b>Form 4 partitioning</b>	<b>H-7</b>
<b>Other partitions</b>	<b>H-8</b>

# IS Service Indices Presentation

## What is the service index?

- The service index is a tool for characterizing the functional units of low voltage switchboards.
- It allows users to express their needs in relation to the switchboard lifecycle (operation, maintenance, evolution) to meet the requirements of their site.

## How is it characterized?

- The SI is a value expressed in a three digits format (from 1 to 3) which respectively translate the level of:
  - operation,
  - maintenance,
  - and evolution of the LV switchboard
- The value 1 offers the lowest service index and the value 3 the highest service index.
- The minimum index is 111 and the maximum is 333.

**Note:** The service index may be different in the same switchboard, for incomers or outgoings, in order to meet the customer needs.

	1st digit <b>Exploitation</b> The exploitation includes all the operations on the installation likely to be carried out by personnel electrician or non-electrician.	2nd digit <b>Maintenance</b> Maintenance includes the maintenance operations, repair and control operations to sustain the characteristics of the switchboard. Assured by qualified personnel, they go from diagnosis to defective parts replacement.	3rd digit <b>Upgrade</b> Upgrade is an adaptation of the installation by adding or replacing components. Some upgrades require an interruption of the functional unit concerned: power increase, change of technology, etc. Other evolutions can be done without interruption of the functional unit: addition of outgoings, etc.
<b>1</b>	I accept that this operation will cause the complete shutdown of the switchboard.	I accept the complete stop of the switchboard.	I accept the complete stop of the switchboard.
<b>2</b>	I want this operation to result only in the complete shutdown of the only functional unit (1) concerned.	I want a limited interruption to the functional unit (1) concerned only. The refitting will be done by an intervention on the connections.	I want that the possible interruption be limited to the functional unit (1) concerned only. A stock of some predefined functional units is assured.
<b>3</b>	I want that this operation only stops the power of the functional unit (1) concerned, but enables automation tests that allow testing the installation in full size before restarting.	I want a limited interruption to the functional unit (1) concerned only. The refitting will be done without any intervention on the connections.	I want an operation limited to the functional unit (1) concerned, with no interruption of the switchboard. The evolution is free, within the limits imposed by the switchboard manufacturer.

(1) Functional unit: part of an assembly comprising all the mechanical and electrical components that contribute to the performance of a single feature.

## Service indices achievable in PrismaSeT P

IS 211 Fixed	IS 231 or 232 Plug-in base		IS 331 or 332 Withdrawable on chassis		IS 223 Scalable system under power
					
<b>IS 211</b> functional unit equipped with fixed circuit breakers	<b>IS 231</b> functional unit equipped with a plug-in circuit-breaker	<b>IS 232</b> reserve functional unit equipped with an empty plug-in base	<b>IS 331</b> functional unit equipped with a withdrawable circuit breakers on chassis	<b>IS 332</b> reserve functional unit equipped with an empty chassis	<b>IS 223</b> possible under conditions. Consult us

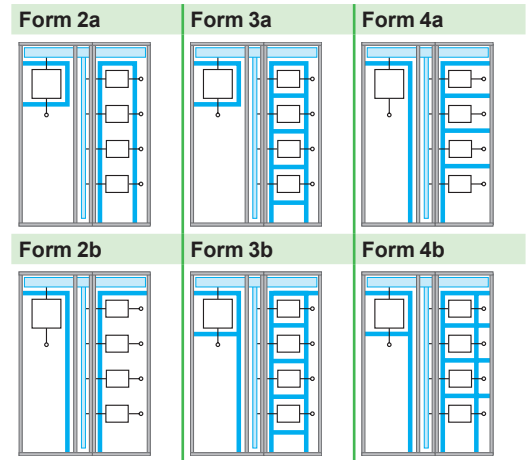
# Forms partitioning

## Presentation

### What are the forms?

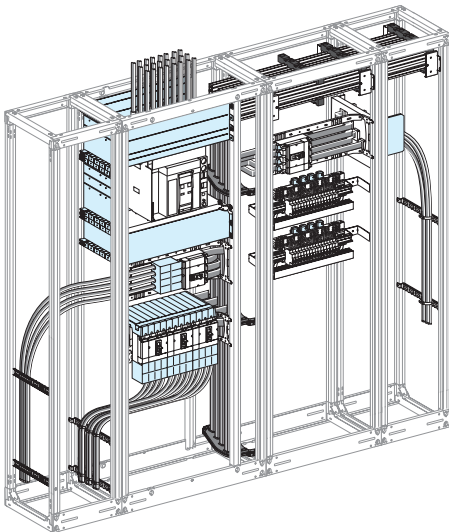
- The forms are metal partitions or molded material, removable by using tools or keys, which ensure the protection of operators against direct contact with power conductors when working on low voltage switchboards.
- They also protect internal elements of the switchboard against external aggressions (dust, pests, water ...).
- These forms are graduated from 1 to 4, with indices "a" or "b". Their use contributes to the level of service continuity required by the user.
- Forms have a cumulative effect (a higher form integrates the characteristics of the forms that precede it).
- The choice of a form is the subject to an agreement between the manufacturer and the user.
- The electrical panel must comply with the degree of protection IP 2X, according to standard IEC 61439-1 & 2.

PrismaSeT P offers solutions for forms 1, 2a, 2b, 3a, 3b, 4a, 4b.



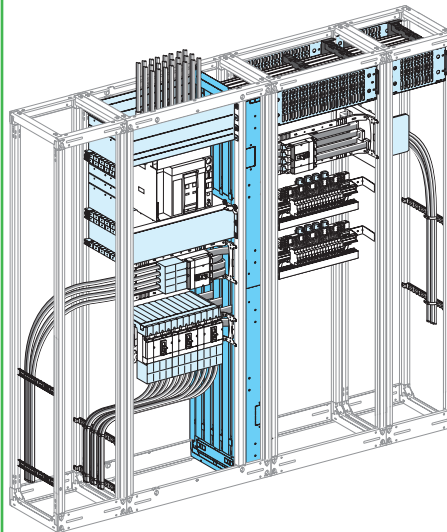
#### Form 1

No internal separation



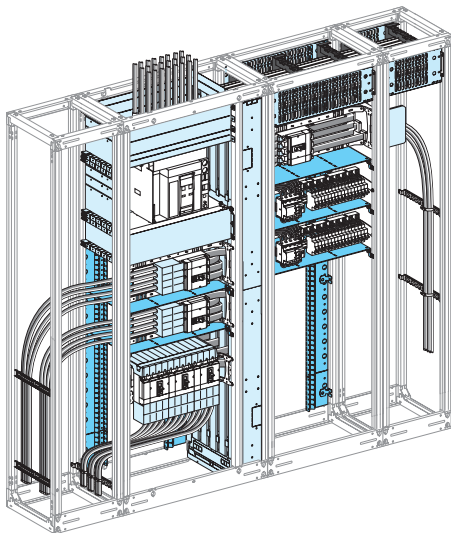
#### Form 2

Separation between horizontal busbars, vertical busbars and functional units



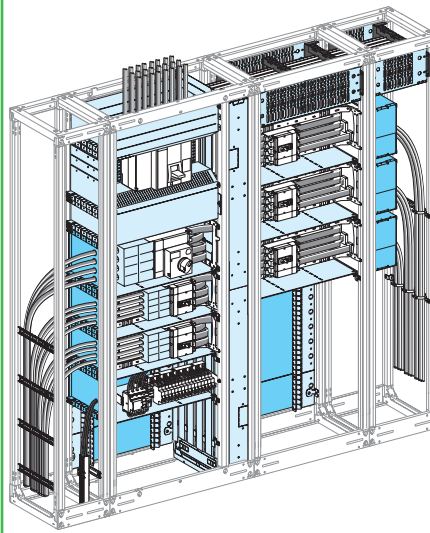
#### Form 3

Form 2 + separation of functional units from one another



#### Form 4

Form 3 + separation of the terminals of the functional units from one another



# Form 1 partitioning

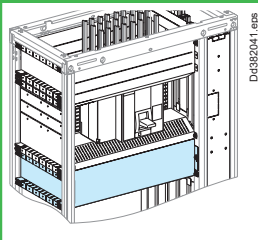
Covering the supply terminals on the incoming device

Main distribution

		Front connection with cables				Canalis front connection			
<p>MTZ2 Only      MTZ1 and ComPacT</p>		<p>D0382019 eps</p>				<p>D0382020 eps</p>			
Devices	Fixed or withdrawable device	Fixed	With-drawable	Fixed or withdrawable device	Fixed	With-drawable	Fixed or withdrawable device	Fixed	With-drawable
	<b>MasterPact</b>	<b>ComPacT</b>		<b>MasterPact</b>	<b>ComPacT</b>		<b>MasterPact</b>	<b>ComPacT</b>	
	MTZ2      MTZ1	NS630b/1600	NS630b/1600	MTZ2      MTZ1	NS630b/1600	NS630b/1600	MTZ2      MTZ1	NS630b/1600	NS630b/1600
Cover	LVS04861      LVS04852	LVS04851	LVS04852	LVS04861      LVS04852	LVS04851	LVS04852	LVS04861      LVS04852	LVS04851	LVS04852
Canalis additional cover	-	-	-	LVS04871      LVS04871	LVS04871	LVS04871	LVS04871      LVS04871	LVS04871	LVS04871

		Rear connection with cables				Canalis rear connection			
<p>MTZ2 Only      MTZ1 and ComPacT</p>		<p>D0382021 eps</p>				<p>D0382022 eps</p>			
Devices	Fixed or withdrawable device	Fixed	With-drawable	Fixed or withdrawable device	Fixed	With-drawable	Fixed or withdrawable device	Fixed	With-drawable
	<b>MasterPact</b>	<b>ComPacT</b>		<b>MasterPact</b>	<b>ComPacT</b>		<b>MasterPact</b>	<b>ComPacT</b>	
	MTZ2      MTZ1	NS630b/1600	NS630b/1600	MTZ2      MTZ1	NS630b/1600	NS630b/1600	MTZ2      MTZ1	NS630b/1600	NS630b/1600
Cover	LVS04863      LVS04854	LVS04853	LVS04854	LVS04863      LVS04854	LVS04853	LVS04854	LVS04863      LVS04854	LVS04853	LVS04854
Canalis additional cover	-	-	-	LVS04871      LVS04871	LVS04871	LVS04871	LVS04871      LVS04871	LVS04871	LVS04871

## Covering of the connection between an incoming device and lateral busbars



	MasterPact MTZ2	MasterPact MTZ1	ComPacT NS630b/1600	ComPacT NS1600b/3200 (1)	ComPacT INS-INV630b/2500
Cover with copper connection	LVS04926	LVS04926	LVS04926	LVS04926	LVS04926
Additional cover	LVS04927	-	-	-	-
Cover with Linergy LGYE connection	LVS04925	LVS04925	-	-	-
Additional cover	LVS04928	-	-	-	-
Form partition depth	600	400	400	400 (1)	400

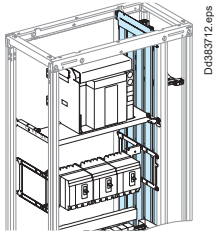
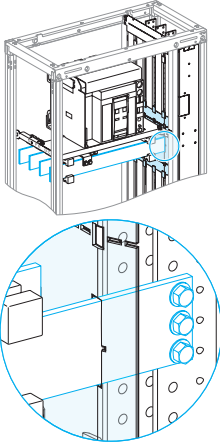
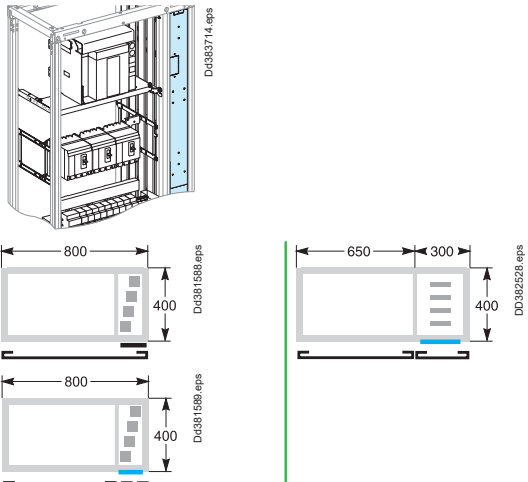
(1) For more information > page E-14.

**Note:** Cubicle depth based on the depth of the incoming device.

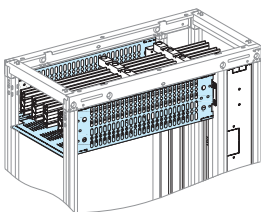
Main distribution

Lateral partitioning

- Made of:
  - four supports that clip to the framework
  - five extruded slats that clip to the supports
  - two metal plates at the top and bottom that can be cut out to pass a PE or PEN conductor, or one or two 30 x 60 mm trunking sections
- Compliance with standard IEC 695.2.1 concerning withstand to fire.

	Side barrier	Restoration kit	Front or rear barrier
			
			W = 150 mm      W = 300 mm
<b>Characteristics</b>	<ul style="list-style-type: none"> <li>■ Vertical barrier made of insulating slats</li> <li>■ can be installed on both sides of Linergy BS or Linergy LGY busbars</li> <li>■ The space between the slats is sufficient for prefabricated connections (one copper bar, 5 or 10 mm thick, or insulated flexible bars) or for cables up to 35 mm<sup>2</sup>, while maintaining the degree of protection IP2X</li> </ul>	<ul style="list-style-type: none"> <li>■ This kit enables passage of the connection between a device &gt; 1600 A (MTZ2, INS-INV) and lateral vertical busbars.</li> <li>■ It is made up of an insulated plate (six modules high = 300 mm) that can be cut as required, supplied with supports and the necessary hardware.</li> <li>■ Has to be use with MTZ2 interlocking mounting plate</li> </ul>	<p>Can be installed in the front and rear of the busbar compartment. Protects against direct contact with the busbars.</p> <ul style="list-style-type: none"> <li>■ For 800 mm cubicles :                             <ul style="list-style-type: none"> <li>□ the door is systematically supplied with a barrier.</li> <li>□ the cover frame is supplied with a wicket door, W = 150 mm, on which devices can be mounted. A front barrier is indispensable.</li> <li>■ A barrier is required at the rear of the busbar compartment in cubicles that are 600,800 and 1000 mm deep.</li> </ul> </li> </ul>
<b>Catalog number</b>	LVS04922	LVS04924	LVS04921      LVS04920

DD384621.EPS



Horizontal partitioning

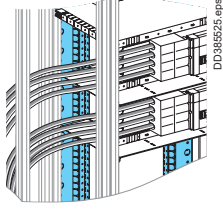
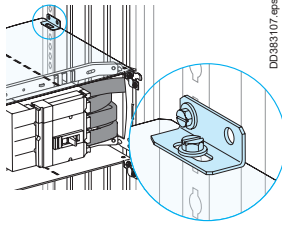
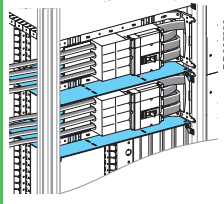
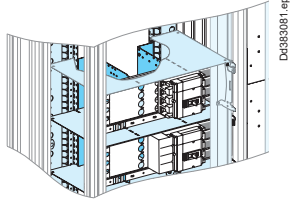
- Set of two barriers (front and rear), plus a slotted rear panel for efficient natural convection in the switchboard.
- The set can be used to partition horizontal busbars installed at the top or bottom of the cubicle.
- The space required for the busbars is not increased.

		Linergy LGYE				Linergy BS		
		Top position		Bottom position		Top position		Bottom position
		≤ 2500 A	≥ 3200 A	≤ 2500 A	≥ 3200 A	≤ 3200 A	4000 A	≤ 3200 A
Nb of module	In	3	4	3	4	3	4	3
<b>D400</b>								
Cover	W = 300	LVS04973	LVS04963	LVS04973 + LVS04915	LVS04963 + LVS04915	LVS04973	LVS04963	LVS04973 + LVS04915
	W = 400	LVS04974	LVS04964	LVS04974 + LVS04915	LVS04964 + LVS04915	LVS04974	LVS04964	LVS04974 + LVS04915
	W650	LVS04976	LVS04966	LVS04976 + LVS04919	LVS04966 + LVS04919	LVS04976	LVS04966	LVS04976 + LVS04919
	W650 + 150	LVS04976	LVS04966	LVS04976 + LVS04919	LVS04966 + LVS04919	LVS04976	LVS04966	LVS04976 + LVS04919
	W800	LVS04978	LVS04968	LVS04978 + LVS04919	LVS04968 + LVS04919	LVS04978	LVS04968	LVS04978 + LVS04919
<b>D600</b>								
Cover	W = 300	LVS04983	LVS04963	LVS04983 + LVS04915	LVS04963 + LVS04915	LVS04983	LVS04963	LVS04983 + LVS04915
	W = 400	LVS04984	LVS04964	LVS04984 + LVS04915	LVS04964 + LVS04915	LVS04984	LVS04964	LVS04984 + LVS04915
	W650	LVS04986	LVS04966	LVS04986 + LVS04919	LVS04966 + LVS04919	LVS04986	LVS04966	LVS04986 + LVS04919
	W650 + 150	LVS04986	LVS04966	LVS04986 + LVS04919	LVS04966 + LVS04919	LVS04986	LVS04966	LVS04986 + LVS04919
	W800	LVS04988	LVS04968	LVS04988 + LVS04919	LVS04968 + LVS04919	LVS04988	LVS04968	LVS04988 + LVS04919

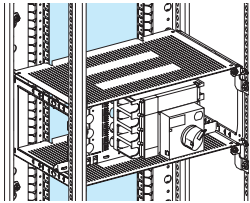
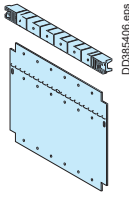
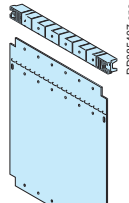
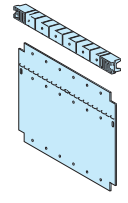
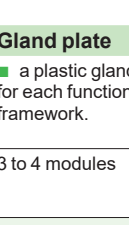
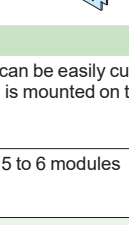
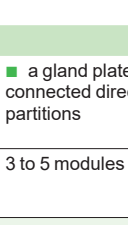
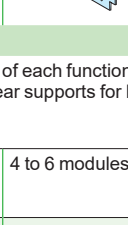
**Note:** when the busbars are at the bottom of the cubicle, gland plates are mandatory > page F-19.

**Note:** to protect horizontal busbars installed at the bottom of the cubicle, the slotted horizontal panel must be replaced by a plain barrier.(LVS04915 or LVS04919) and add a free support LVS04662.

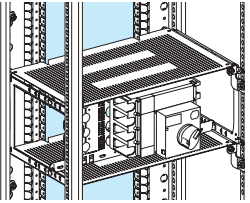
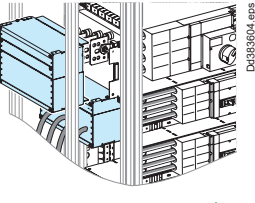
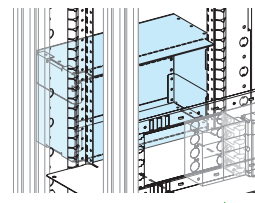


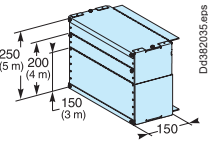
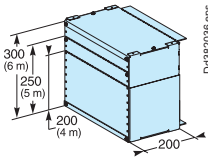
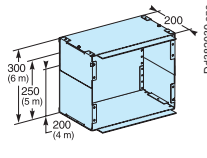
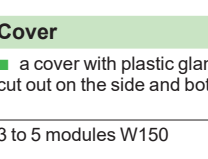
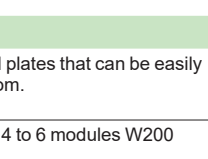
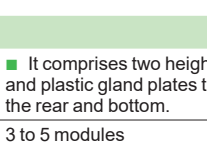
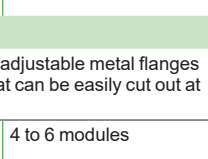
Form 3 partitioning

		Front connection		Rear connection	
					
		<b>Rear support for partitions W = 650 mm</b>	<b>6 universal angle brackets</b>	<b>Horizontal metal partition W = 650 mm</b>	<b>Rear connection</b>
Characteristics	Two uprights secured to the framework (400 mm deep) or to the intermediate uprights (600 mm deep frameworks).	A set of brackets can be used to install partial Form 3 partitioning in the cubicle. It does not take up any useful space in the switchboard.	A horizontal metal partition can be used to physically separate functional units from one another. It does not take up any useful space in the switchboard.	Vertical partitions (two cat. no. per functional unit)	
				3 to 4 modules	5 to 6 modules
Catalog numbers	LVS04943	LVS03583	LVS04901	LVS04955	LVS04956

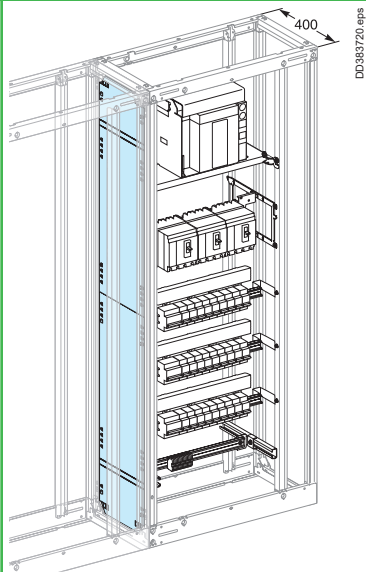
Form 4a partitioning

Forme 4 - direct connection to the device				
	Front connection		Rear connection	
				
				
	<b>Backplate</b>	<b>Gland plate</b>		
Characteristics	<ul style="list-style-type: none"> <li>a backplate (one cat. no. per cubicle) made up to two metal half panels mounted on the rear supports for Form 3 partitions. This backplate is not indispensable for 400 mm deep frameworks</li> </ul>	<ul style="list-style-type: none"> <li>a plastic gland plate that can be easily cut out (one for each functional unit) and is mounted on the framework.</li> </ul>		<ul style="list-style-type: none"> <li>a gland plate at the rear of each functional unit. It is connected directly to the rear supports for Form 3 partitions</li> </ul>
		3 to 4 modules	5 to 6 modules	
Catalog numbers	LVS04946	LVS04951	LVS04952	LVS04951
				LVS04952

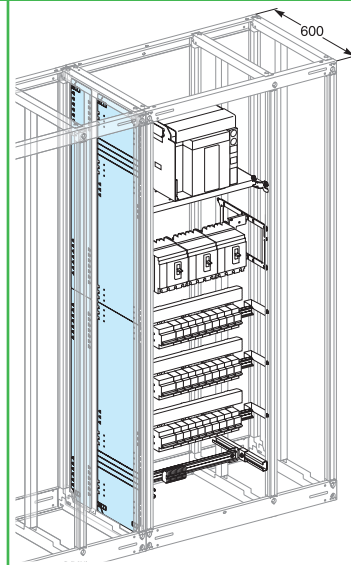
Form 4b partitioning

Forme 4b - connection transfer				
	In a lateral compartment		At the rear of the cubicle	
				
				
				
	<b>Backplate</b>	<b>Cover</b>		
Characteristics	<ul style="list-style-type: none"> <li>a backplate (one cat. no. per cubicle) made up to two metal half panels mounted on the rear supports for Form 3 partitions. This backplate is not indispensable for 400 mm deep frameworks</li> </ul>	<ul style="list-style-type: none"> <li>a cover with plastic gland plates that can be easily cut out on the side and bottom.</li> </ul>		<ul style="list-style-type: none"> <li>It comprises two height-adjustable metal flanges and plastic gland plates that can be easily cut out at the rear and bottom.</li> </ul>
		3 to 5 modules W150	4 to 6 modules W200	
Catalog numbers	LVS04946	LVS04953	LVS04954	LVS04953
				LVS04954

Inter-cubicle partition



DD385720.eps



Dd385722.eps

**D400**

**D600**

Characteristics

Metal partition, used to separate two adjacent cubicles.  
It is made up of two panels, each 850 mm high.  
The top and bottom ends have knock-outs for busbars, PE/PEN conductors or auxiliary wiring.  
Supplied with the necessary supports and hardware, the partition is mounted on the framework and does not hinder installation of the functional mounting plates.

Catalog numbers

**LVS04911**

**LVS04911 + LVS04931**



# Additional information

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## Electrical characteristics

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# After-sales accessories

## Spare parts

### Linergy BW busbar accessories

Linergy BW accessories, 160/400 A

LVS01210

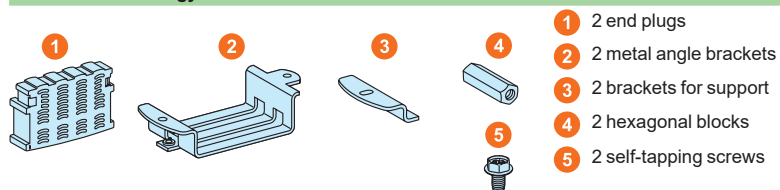
DD38463.epps



- 1 2 end plugs
- 2 2 angle brackets support
- 3 2 screws

Accessoires Linergy BW 630 A

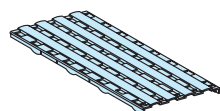
LVS01211



- 1 2 end plugs
- 2 2 metal angle brackets
- 3 2 brackets for support
- 4 2 hexagonal blocks
- 5 2 self-tapping screws

2 IPxxB clipon covers for Linergy BW, 160 to 400 A

LVS01201

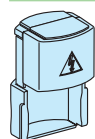


### Linergy FM busbar accessories (IP30)

4 terminal covers for 200 A Linergy FM

LVS01202

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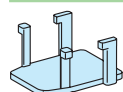


### Linergy busbar accessories (IP30)

12 chocks for Linergy busbars

LVS01109

DD384674.EPS

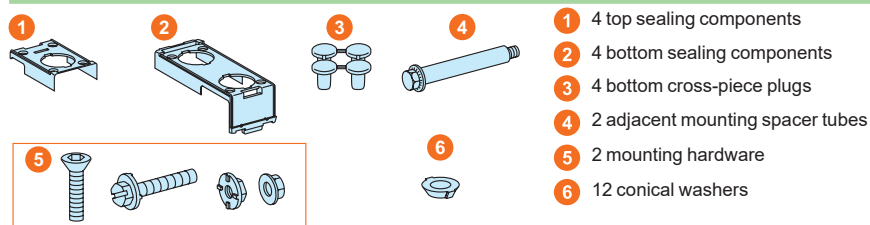


### Framework accessories

Framework accessories

LVS01104

DD38462.EPS



- 1 4 top sealing components
- 2 4 bottom sealing components
- 3 4 bottom cross-piece plugs
- 4 2 adjacent mounting spacer tubes
- 5 2 mounting hardware
- 6 12 conical washers

### Front-plate accessories

10 sets of 2 grips quarter turn

LVS01094

DD384582.eps

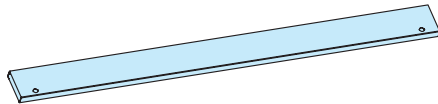


### Accessory

Plain wicket door, W = 150 mm

LVS01110

DD384565.EPS

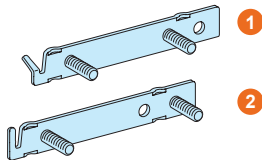


### Linergy LGYE busbar accessories

Linergy LGYE connection screwplate kit

LVS01130

DD385488.eps



- 1 4 plates for 2000 - 4000 A joint
- 2 4 flat plates for 3200 - 4000 A connection
- 3 16 conical contact washer Ø8
- 4 16 torque nut M8

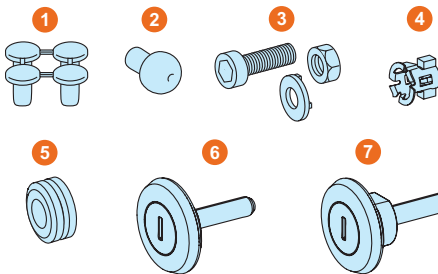


### Rear accessories

Accessories IP55

LVS01101

DD385379.eps

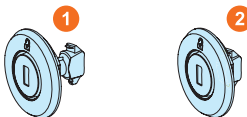


- 1 4 IP55 framework plugs
- 2 4 stop doors
- 3 base + screw + washer + nut
- 4 8 cage nuts
- 5 3 white grommet plugs
- 6 2 IP55 roof and rear panel fixing systems
- 7 6 IP55 rear panel fixing systems

### Rear panel accessories

LVS01106

DD385777.eps



- 1 8 IP30 rear panel fixing systems
- 2 2 IP30 roof and rear panel fixing systems

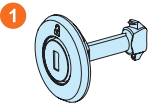
Spare parts

Side panel accessories

Side panel accessories

LVS01100

DD385879.eps

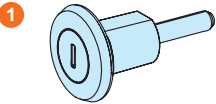


- 1 16 fixing system IP30

Accessories for IP55 side panel

LVS01102

DD384466.EPS

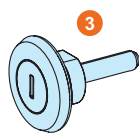


- 1 16 fixing system IP55
- 2 16 cage nuts

Accessories for IP55 roof

LVS01103

DD385306.eps



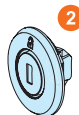
- 1 4 lifting ring plugs
- 2 6 cage nuts
- 3 6 mounting sets of screw fixing IP55 for roof

Roof accessories

Roof accessories

LVS01112

DD385378.eps



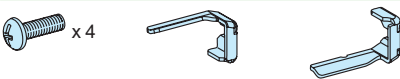
- 1 4 lifting ring plugs
- 2 6 IP30 roof and rear panel fixing systems

Front plate support frames

Front plate support striker kit for LVS08564 - LVS08566

LVS01123

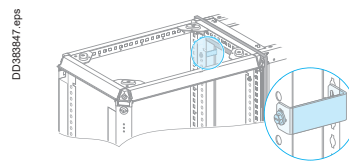
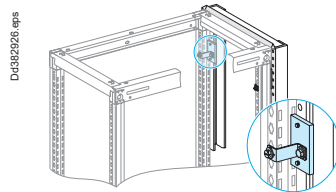
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Side-by-side combination kit

PrismaSeT P/Prisma P Beige

PrismaSeT P/PrismaSeT PH



Catalog number

-

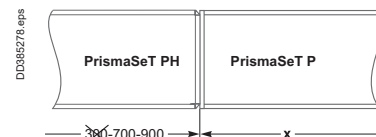
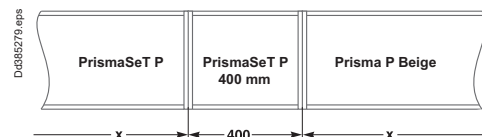
LVS01198

Characteristics

To add a PrismaSeT P cubicle to an existing Prisma P Beige installation, use the combination kit and a 400 mm wide frame.

PrismaSeT PH/PrismaSeT P side-by-side combination kit

**Note:** When combining PrismaSeT PH and PrismaSeT P IP55 enclosures, use the IP55 sealing kit for side-by-side combinations (LVS08717) together with the side-by-side combination kit (LVS01198).



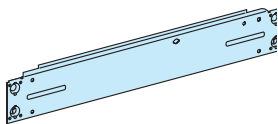
# After-sales accessories

## Spare parts

### Framework accessories

#### Framework accessories

DD384572.EPS



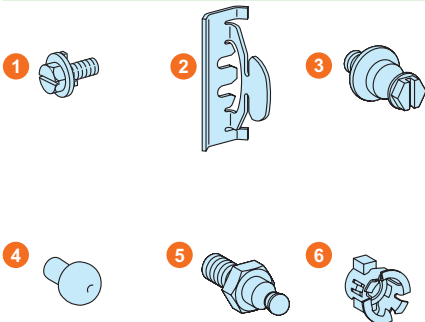
- Frame bottom cross-member W400 to use with LVS08564 **LVS01119 (1)**
  - Frame bottom cross-member W650 to use with LVS08566 **LVS01120 (1)**
  - Frame bottom cross-member W150+650 to use with LVS08566 **LVS01121 (1)**
  - Frame bottom cross-member W650+150 to use with LVS08566 **LVS01122 (1)**
- (1) Spare parts on stock in RAL 9003 only.

### Door accessories

#### Closing accessories

**LVS01105**

DD384617.eps

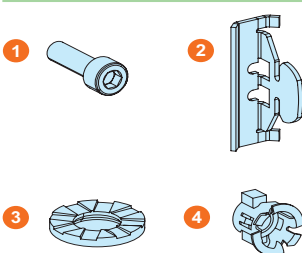


- 1 4 screws THF M6 x 16
- 2 4 door strikes
- 3 3 1/4 turn studs
- 4 2 stop doors
- 5 3 hinge pins
- 6 7 captive nuts for frame

#### Door strike IP30/55 Ipc Arc

**LVS01124**

DD436601.eps

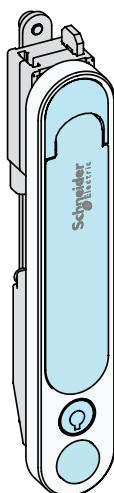


- 1 4 screws MSC HXG SK M6 x 20
- 2 4 door strike stoppers
- 3 4 washers
- 4 4 captive nuts for frame

### PrismaSeT P Rotary Handle Spare Parts

**LVS01219**

mz3131101\_1.eps



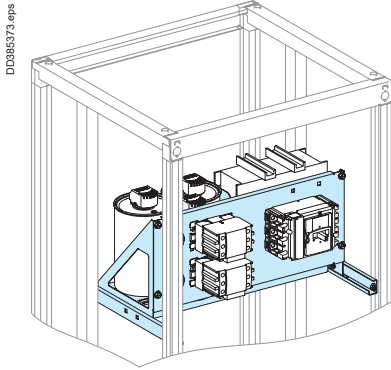
- 1 Handle housing block
- 2 P adapter link part
- 3 Screw, pan head, M5x8
- 4 The key of 405
- 5 1 crosshead screw
- 6 Omega fix part
- 7 Driver block
- 8 Hex locking screw, M6x10
- 9 Self tapping screw, pan head, ST3.5x15

# Optimise electrical networks

## Improving power quality

### Spare parts

To improve power quality, Schneider Electric proposes two power-factor correction systems, VarplusCan. Both are designed for optimum installation in PrismaSeT P.

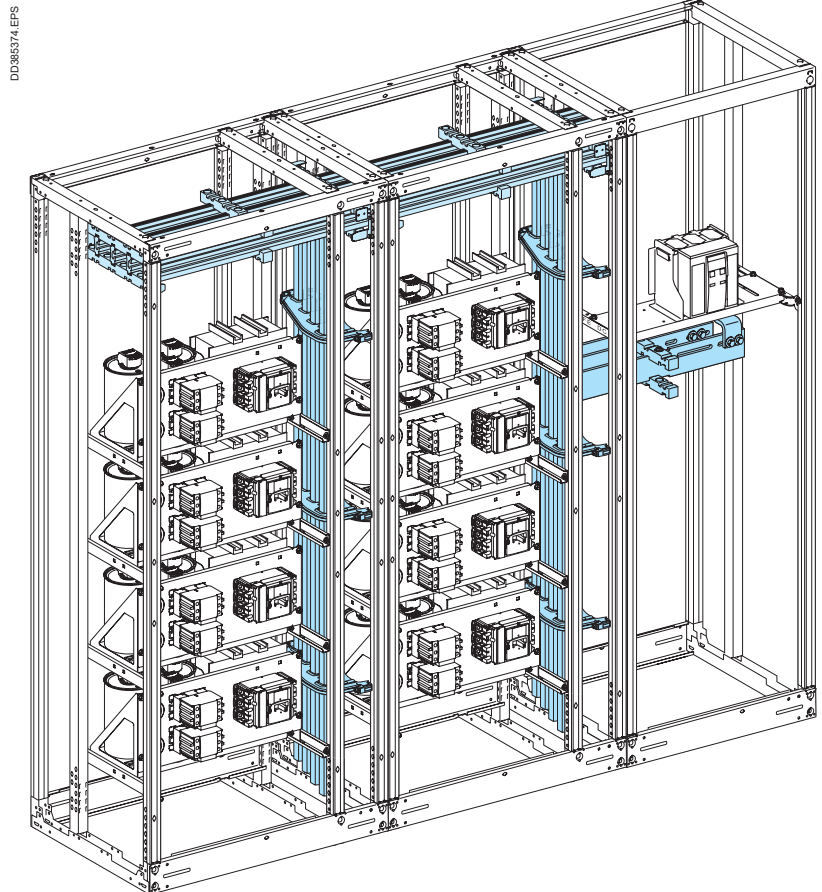


PrismaSeT P enclosures are designed for installation of the new VarplusCan power factor correction modules that improve the quality of the electrical distribution system and reduce consumption of reactive energy. The modules are made up of capacitors, contactors and devices protecting against internal faults.

### Installation

> page F-21 for information on installation in the enclosure.

The modules can be supplied by vertical busbars, e.g. Linergy.



# Optimise electrical networks

Additional equipment to optimise electrical installations

## Spare parts

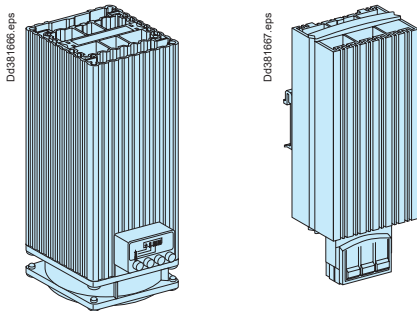
During design or during subsequent operation, electrical installations are increasingly outfitted with components designed to optimise energy consumption.

With PrismaSeT P, most of these products can already be added to the switchboard.

By limiting the temperature within the switchboard, it is possible to extend the life of the equipment and optimise its use.

In addition, electricity consumption is reduced because equipment in good condition has lower losses.

### Heaters

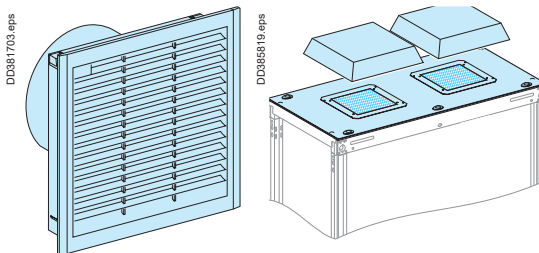


Heaters contribute to equipment optimisation by limiting condensation, corrosion and, above all, leakage currents along surfaces.

#### Installation and characteristics

> page F-33

### Fans

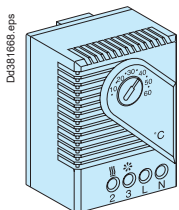


Several types of fans are available: enclosure wall or roof-mount versions. They are particularly useful for switchboards installed in temperate environments or when the degree of protection of the enclosure is high (IP55).

#### Installation and characteristics

> page F-32.

### Thermostat

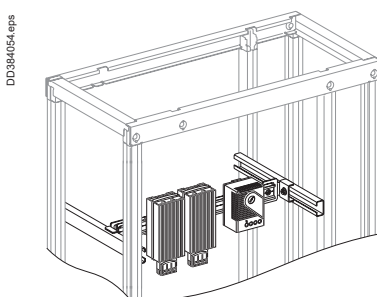


Thermostats are used to limit the temperature inside switchboards when heaters and fans are installed, thus reducing heat losses.

#### Installation and characteristics

> page F-34.

### Installation



Heaters and thermostats simply clip onto a modular rail.

See Universal Enclosures catalog, cat. no. **UE12MK01EN**.

# Designing PrismaSeT P power circuits

## Presentation and approach

### Electrical characteristics

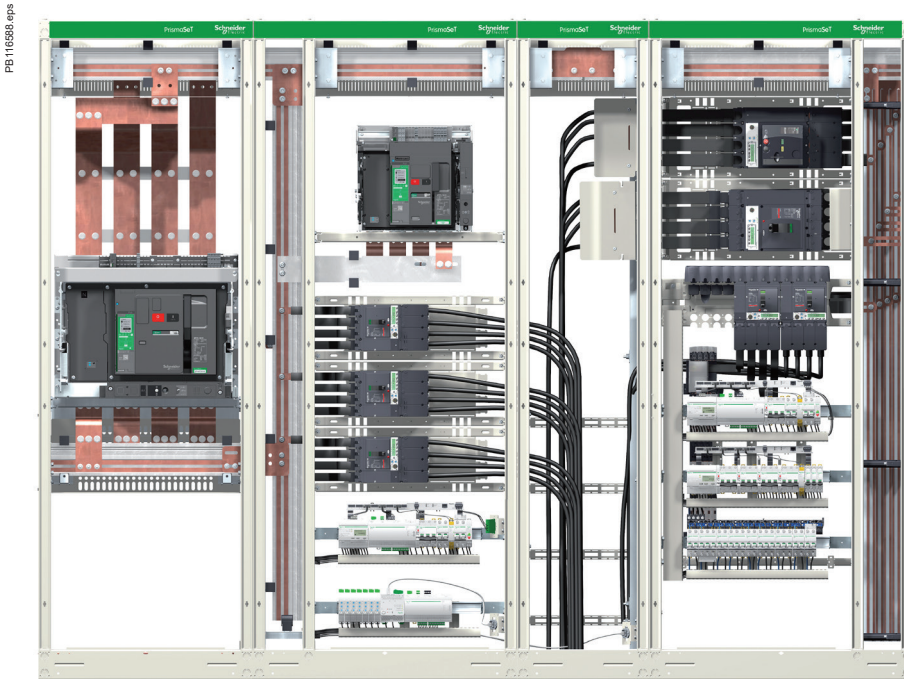
PrismaSeT P takes into account the installation and connection conditions of Schneider Electric devices. The entire installation complies with standard IEC 60439-1. The result is a type tested switchboard.

In the following pages you will find a number of examples, validated for PrismaSeT P 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	Diversity factor
2 and 3	0,9
4 and 5	0,8
6 and 9	0,7
10 and more	0,6

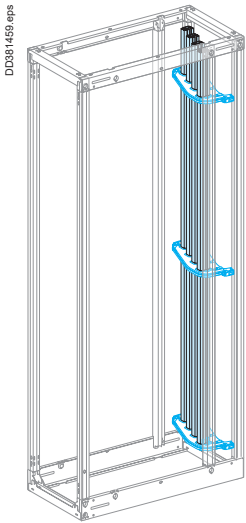
- the degree of protection IP.
- the ambient temperature around the switchboard.

# Designing PrismaSeT P power circuits

## Presentation and approach

### Electrical characteristics

#### Busbars



The maximum load current for a set of busbars is a function of the thermal environment.

The type and the size of the conductors must be determined in view of carrying the required currents taking into account the temperatures reached in the switchboard. These conductors are subjected to additional heat rise caused by the flowing current (joule effect) and the connected devices.

The temperatures reached by the conductors and the insulating materials, etc. must not exceed the maximum temperatures for which the products were designed.

Schneider Electric busbars and distribution blocks are sized to operate without any particular constraints for the assemblies in PrismaSeT P switchboards operating under normal environmental conditions (standard switchboard configuration, 35 °C outside the switchboard, etc.).

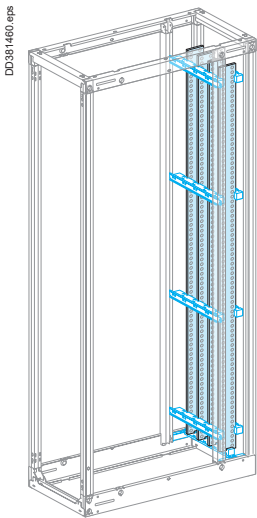
To determine **Linery LGY busbars** or **Linery LGYE** required

> [pages I-13, I-15 and I-16](#).

They can be used to determine:

- the type of Linery LGY busbars or Linery LGYE, as a function of:
  - the current
  - the IP value
  - the ambient temperature around the switchboard
  - ICW/1s.

- Linery LGY busbars:  $I \leq 1600$  A
- Double Linery LGY busbars:  $1600 \text{ A} < I \leq 3200$  A
- Linery LGYE busbars:  $\leq 4000$  A.



To determine the required Linery BS busbars:

horizontal busbars > [page I-14](#)

vertical busbars > [page I-15](#).

They can be used to determine:

- the permissible current as a function of:
  - the size of the busbars
  - the number of bars
  - the ambient temperature around the switchboard
  - the IP value
  - ICW/1s.

- Linery BS copper busbars 5 mm thick:  $I \leq 1600$  A.
- Linery BS copper busbars 10 mm thick:  $I \leq 3200$  A.

#### Connection of devices $\geq 630$ A and busbar connections

To determine the size of upstream and downstream connections for devices > [page <?>](#).

They can be used to determine:

- the size of copper busbars
- the maximum permissible current.

As a function of:

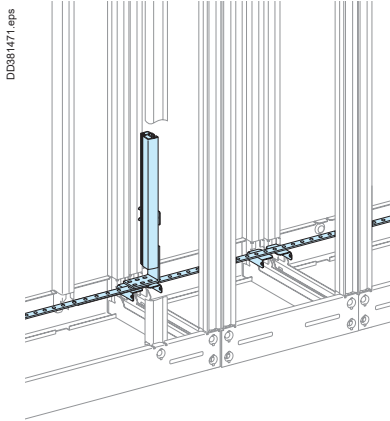
- the type of circuit breaker
- the IP value
- the ambient temperature around the switchboard
- the type of installation.

# Designing PrismaSeT P power circuits

## Presentation and approach

### Electrical characteristics

#### Designing the PE protective conductor



The protective conductor must be sufficiently sized and securely installed in the switchboard to accept the thermal and electrodynamic constraints of the fault current.

It must be connected to the exposed conductive parts of the switchboard. It must be accessible to enable connections both in the factory and on site.

#### Optimised calculation method

Use the calculation equation indicated in standard IEC 61439-1 & 2:

$$S_{PE} = \frac{\sqrt{I^2 t}}{k}$$

- $S_{PE}$ : cross-sectional area of the PE in mm<sup>2</sup>
- $I$ : value of the phase-to-earth fault current = 60 % of the value of the phase-to-phase fault current (IEC 61439-1 §8.2.4.2)
- $t$ : time the fault current flows in seconds
- $k$ : coefficient that depends on the type of metal,  $k = 143$  for a copper conductor with PVC insulation.

#### Example:

- $I_{sc} = 36$  kA rms C the value of the phase-to-earth fault current = 60 % of the value of the phase-to-phase fault current (standard IEC 61439-1 and 2 § 8.4.3.2.3 and 10.11.5.6), i.e.:  $36 \times 0.6 = 21.6$  kA
- maximum time delay for the control unit: 0,5 s
- $k = 143$  for copper conductors with PVC insulation.

The calculation is therefore:

$$S_{PE} = \frac{\sqrt{21600^2 \times 0,5}}{143} = 106,8 \text{ mm}^2$$

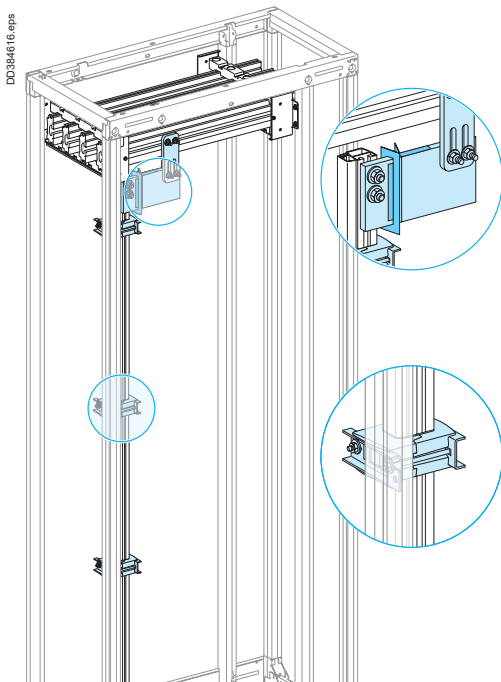
The PE conductor must therefore be a 25 x 5 mm bar (= 125 mm<sup>2</sup>).

#### Simplified method (based on the equation above)

Use the table below to determine the size of the PE conductor as a function of device short-circuit current  $I_{sc}$ .

Size of PE conductor	All Schneider Electric devices	
$I_{sc} \leq 40$ kA	1 Linergy BS bar, 25 x 5 mm	
$I_{sc} \leq 65$ kA	1 Linergy BS bar, 50 x 5 mm	Linergy LGY 630 - <b>LVS04502</b>
$I_{sc} > 65$ kA but $< 80$ kA	1 Linergy BS bar, 50 x 5 mm	Linergy LGY 800 - <b>LVS04503</b>
$I_{sc} = 100$ kA	1 Linergy BS bar, 50 x 5 mm	Linergy LGY 1000 - <b>LVS04505</b>

#### Implementing the PEN protective conductor



The size of the PEN is determined in the same IEC manner as a neutral conductor, i.e.:

- for copper single-phase circuits or sized  $\leq 16$  mm<sup>2</sup>, it must be the same size as the phase conductors
  - for copper three-phase circuits sized  $> 16$  mm<sup>2</sup>, 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.

#### Practical guidelines to install PEN

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.

#### Linergy LGY PEN kit

> page G-37

# Designing horizontal busbars

## Linery LGYE

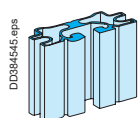
### Electrical characteristics

#### Permissible current and selection of Linery LGYE busbars Up to 4000 A

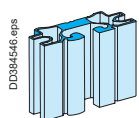
##### Linery LGYE section

Type of bars	Permissible current (A)											
	Ambient temperature around the switchboard											
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
Size per phase	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
Linery LGYE 630	680	580	650	550	630	530	590	500	550	470	520	■
Linery LGYE 800	860	740	830	710	800	680	750	630	700	600	660	■
Linery LGYE 1000	1080	920	1040	884	1000	850	940	790	880	750	830	■
Linery LGYE 1250	1350	1150	1300	1100	1250	1050	1170	1000	1100	930	1020	■
Linery LGYE 1600	1730	1580	1690	1530	1650	1480	1550	1380	1450	1300	1350	■
Linery LGYE 2000	2200	1810	2100	1730	2000	1650	1900	1560	1810	1480	1720	■
Linery LGYE 2500	2640	2230	2540	2160	2440	2100	2310	2000	2240	1930	2120	■
Linery LGYE 3200	3400	3020	3300	2900	3200	2800	3040	2660	2890	2520	2750	■
Linery LGYE 4000	3800	3510	3710	3430	3620	3350	3450	3180	3280	3020	3120	■

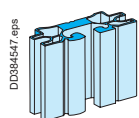
■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.



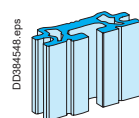
Section 630 A.  
Cat. No. LVS04560.



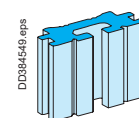
Section 800 A.  
Cat. No. LVS04561.



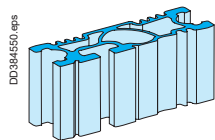
Section 1000 A.  
Cat. No. LVS04562.



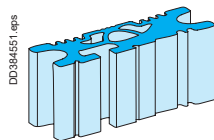
Section 1250 A.  
Cat. No. LVS04563.



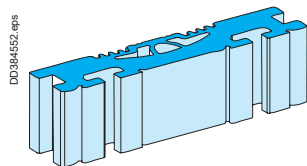
Section 1600 A.  
Cat. No. LVS04564.



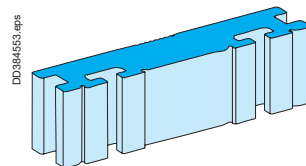
Section 2000 A.  
Cat. No. LVS04565.



Section 2500 A.  
Cat. No. LVS04566.



Section 3200 A.  
Cat. No. LVS04567.



Section 4000 A.  
Cat. No. LVS04568.

# Designing horizontal busbars

## Linery BS

### Electrical characteristics

#### Permissible current and selection of horizontal busbar

The goal is to optimise busbar size according to the installation and operating criteria.

#### Up to 1600 A

##### Linery BS bars, 5 mm thick

Type of bars	Permissible current (A)											
	Ambient temperature around the switchboard											
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
Size per phase	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
1 Linery BS bar, 60 x 5	890	840	850	790	800	750	760	700	710	650	660	■
1 Linery BS bar, 80 x 5	1130	1050	1080	990	1000	900	970	870	910	810	860	■
2 Linery BS bars, 60 x 5	1580	1420	1500	1350	1400	1250	1350	1180	1260	1090	1180	■
2 Linery BS bars, 80 x 5	2010	1820	1920	1720	1800	1600	1720	1510	1610	1390	1510	■

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

#### Up to 3200 A

##### Linery BS bars, 10 mm thick

Type of bars	Permissible current (A)											
	Ambient temperature around the switchboard											
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
Size per phase	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
1 Linery BS bar, 50 x 10	1330	1220	1260	1160	1200	1080	1130	1010	1060	940	990	■
1 Linery BS bar, 60 x 10	1550	1400	1470	1320	1400	1250	1320	1160	1240	1070	1160	■
1 Linery BS bar, 80 x 10	1990	1800	1890	1700	1800	1600	1700	1500	1600	1390	1500	■
2 Linery BS bars, 50 x 10	2270	2090	2160	1980	2050	1850	1930	1740	1810	1610	1690	■
2 Linery BS bars, 60 x 10	2550	2270	2420	2140	2300	2000	2170	1870	2030	1720	1900	■
2 Linery BS bars, 80 x 10	3110	2820	2970	2660	2820	2500	2660	2330	2500	2160	2330	■
2 Linery BS bars, 100 x 10	3650	3280	3490	3100	3300	2900	3130	2720	2950	2510	2750	■
2 Linery BS bars, 120 x 10	4160	3760	3960	3550	3760	3340	3560	3100	3340	2880	3120	■

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

#### Example:

Two 50 x 10 mm bars can be used for a 2160 A current with an IP ≤ 31 and an ambient temperature of 30 °C around the switchboard.

Where possible, use of 10 mm bars is worthwhile in terms of the In/Isc:

■ gain in time during switchboard mounting given, where applicable, the lesser number of bars installed

■ for short-circuits, the rigidity of the bars means fewer busbar supports.

#### Recommendation:

Use 5 mm bars for In ≤ 1600 A and low Icw values (40 kA rms).

Use 10 mm bars for In > 1600 A and medium to high Icw values (> 40 kA rms).

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

# Designing vertical busbars

## Lineryg LGY

### Electrical characteristics

#### Permissible current and selection of Lineryg LGY busbars

The goal is to optimise busbar size according to the installation and operating criteria.

#### Up to 3200 A

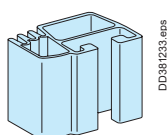
#### Lineryg LGY section

Type of bars	Permissible current (A)											
	Ambient temperature around the switchboard											
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
Lineryg LGY 630	750	680	710	630	680	590	630	550	590	530	550	■
Lineryg LGY 800	920	840	880	800	840	760	800	720	760	680	720	■
Lineryg LGY 1000	1140	1040	1090	990	1040	950	990	900	950	850	900	■
Lineryg LGY 1250	1410	1290	1350	1230	1290	1170	1230	1100	1170	1050	1100	■
Lineryg LGY 1600	1800	1650	1720	1580	1650	1480	1580	1390	1480	1320	1390	■
Lineryg LGY 2000 (2 x 1000)	2200	2000	2100	1900	2000	1820	1900	1720	1820	1620	1720	■
Lineryg LGY 2500 (2 x 1250)	2740	2500	2620	2380	2500	2260	2380	2120	2260	2020	2120	■
Lineryg LGY 3200 (2 x 1600)	3480	3200	3340	3060	3200	2920	3060	2780	2920	2640	2780	■

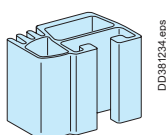
■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

#### Example:

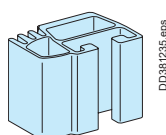
A Lineryg LGY channelled bar can be used for a 1650 A current with an IP ≤ 31 and an ambient temperature around the switchboard of 35 °C.



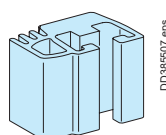
DD381233.eps



DD381234.eps



DD381235.eps



DD385507.eps



Section 630 A.  
Cat. No. LVS04502.



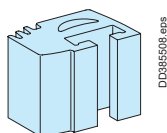
Section 800 A.  
Cat. No. LVS04503.



Section 1000 A.  
Cat. No. LVS04504.



Section 1250 A.  
Cat. No. LVS04505.



DD385508.eps



Section 1600 A.  
Cat. No. LVS04506.

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

# Designing vertical busbars

## Linery LGYE

### Electrical characteristics

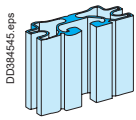
#### Permissible current and selection of Linery LGYE busbars

#### Up to 4000 A

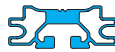
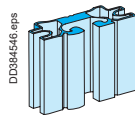
#### Linery LGYE section

Type of bars	Permissible current (A)											
	Ambient temperature around the switchboard											
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
Size per phase	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
Linery LGYE 630	680	580	650	550	630	530	590	500	550	470	520	■
Linery LGYE 800	860	740	830	710	800	680	750	630	700	600	660	■
Linery LGYE 1000	1080	920	1040	884	1000	850	940	790	880	750	830	■
Linery LGYE 1250	1350	1150	1300	1100	1250	1050	1170	1000	1100	930	1020	■
Linery LGYE 1600	1730	1580	1690	1530	1650	1480	1550	1380	1450	1300	1350	■
Linery LGYE 2000	2200	1810	2100	1730	2000	1650	1900	1560	1810	1480	1720	■
Linery LGYE 2500	2640	2230	2540	2160	2440	2100	2310	2000	2240	1930	2120	■
Linery LGYE 3200	3400	3020	3300	2900	3200	2800	3040	2660	2890	2520	2750	■
Linery LGYE 4000	3800	3510	3710	3430	3620	3350	3450	3180	3280	3020	3120	■

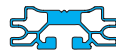
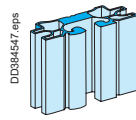
■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.



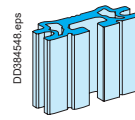
Section 630 A.  
Cat. No. LVS04560.



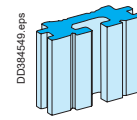
Section 800 A.  
Cat. No. LVS04561.



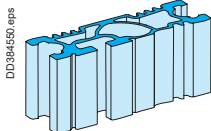
Section 1000 A.  
Cat. No. LVS04562.



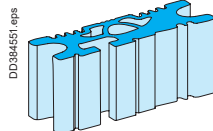
Section 1250 A.  
Cat. No. LVS04563.



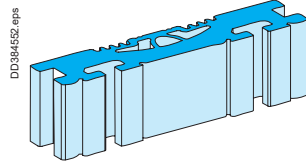
Section 1600 A.  
Cat. No. LVS04564.



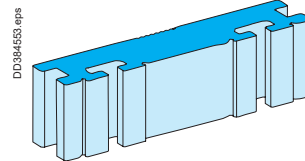
Section 2000 A.  
Cat. No. LVS04565.



Section 2500 A.  
Cat. No. LVS04566.



Section 3200 A.  
Cat. No. LVS04567.



Section 4000 A.  
Cat. No. LVS04568.

# Designing vertical busbars

## Linery BS

### Electrical characteristics

#### Permissible current and selection of vertical busbar

The goal is to optimise busbar size according to the installation and operating criteria.

### Up to 1600 A

#### Linery BS bars, 5 mm thick

Type of bars	Permissible current (A)											
	Ambient temperature around the switchboard											
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
Size per phase	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
1 Linery BS bar, 60 x 5	890	840	850	790	800	750	760	700	710	650	660	■
1 Linery BS bar, 80 x 5	1130	1050	1080	990	1000	900	970	870	910	810	860	■
2 Linery BS bars, 60 x 5	1580	1420	1500	1350	1400	1250	1350	1180	1260	1090	1180	■
2 Linery BS bars, 80 x 5	2010	1820	1920	1720	1800	1600	1720	1510	1610	1390	1510	■

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

### Up to 3200 A

#### Linery BS bars, 10 mm thick

Type of bars	Permissible current (A)											
	Ambient temperature around the switchboard											
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
Size per phase	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
1 Linery BS bar, 50 x 10	1330	1220	1260	1160	1200	1080	1130	1010	1060	940	990	■
1 Linery BS bar, 60 x 10	1550	1400	1470	1320	1400	1250	1320	1160	1240	1070	1160	■
1 Linery BS bar, 80 x 10	1990	1800	1890	1700	1800	1600	1700	1500	1600	1390	1500	■
1 Linery BS bar, 100 x 10	2370	2150	2260	2030	2150	1900	2030	1780	1900	1650	1780	■
2 Linery BS bars, 50 x 10	2270	2090	2160	1980	2050	1850	1930	1740	1810	1610	1690	■
2 Linery BS bars, 60 x 10	2550	2270	2420	2140	2300	2000	2170	1870	2030	1720	1900	■
2 Linery BS bars, 80 x 10	3110	2820	2970	2660	2820	2500	2660	2330	2500	2160	2330	■
2 x 1 Linery BS bar, 80 x 10	3540	3200	3370	3020	3200	2820	3020	2650	2840	2450	2650	■
2 Linery BS bars, 100 x 10	3650	3280	3490	3100	3300	2900	3130	2720	2950	2510	2750	■
2 Linery BS bars, 120 x 10	4160	3760	3960	3550	3760	3340	3560	3100	3340	2880	3120	■

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

#### Example

Two 80 x 10 mm bars can be used for a 2820 A current with an IP ≤ 31 and an ambient temperature of 35 °C around the switchboard.

Two 80 x 10 mm bars installed separately in two busbar compartments can be used for a 3200 A current with an IP ≤ 31 and an ambient temperature of 35 °C around the switchboard.

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

# Designing rear busbars

## Linergy LGYE, Linergy BS

### Electrical characteristics

#### Permissible current and selection of vertical busbar

The goal is to optimise busbar size according to the installation and operating criteria.

### Up to 1600 A

#### Linergy LGY section

Type of bars	Permissible current (A)											
	Ambient temperature around the switchboard											
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
Linergy LGY 630	750	680	710	630	680	590	630	550	590	530	550	■
Linergy LGY 800	920	840	880	800	840	760	800	720	760	680	720	■
Linergy LGY 1000	1140	1040	1090	990	1040	950	990	900	950	850	900	■
Linergy LGY 1250	1410	1290	1350	1230	1290	1170	1230	1100	1170	1050	1100	■
Linergy LGY 1600	1800	1650	1720	1580	1650	1480	1580	1390	1480	1320	1390	■

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

### Up to 1600 A

#### Linergy BS bars, 5 mm thick

Type of bars	Permissible current (A)											
	Ambient temperature around the switchboard											
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
Size per phase	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
1 Linergy BS bar, 60 x 5	890	840	850	790	800	750	760	700	710	650	660	■
1 Linergy BS bar, 80 x 5	1130	1050	1080	990	1000	900	970	870	910	810	860	■
2 Linergy BS bars, 60 x 5	1580	1420	1500	1350	1400	1250	1350	1180	1260	1090	1180	■
2 Linergy BS bars, 80 x 5	2010	1820	1920	1720	1800	1600	1720	1510	1610	1390	1510	■

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

### Up to 3200 A

#### Linergy BS bars, 10 mm thick

Type of bars	Permissible current (A)											
	Ambient temperature around the switchboard											
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
Size per phase	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
1 Linergy BS bar, 50 x 10	1330	1220	1260	1160	1200	1080	1130	1010	1060	940	990	■
1 Linergy BS bar, 60 x 10	1550	1400	1470	1320	1400	1250	1320	1160	1240	1070	1160	■
1 Linergy BS bar, 80 x 10	1990	1800	1890	1700	1800	1600	1700	1500	1600	1390	1500	■
2 Linergy BS bars, 80 x 10	2270	2090	2160	1980	2050	1850	1930	1740	1810	1610	1690	■
2 Linergy BS bars, 60 x 10	2550	2270	2420	2140	2300	2000	2170	1870	2030	1720	1900	■
2 Linergy BS bars, 80 x 10	3110	2820	2970	2660	2820	2500	2660	2330	2500	2160	2330	■

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

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

# Designing connections between a device and busbars

## Prefabricated connections for ComPacT NS630b to NS1600

### Electrical characteristics

#### ComPacT NS630b to NS1600

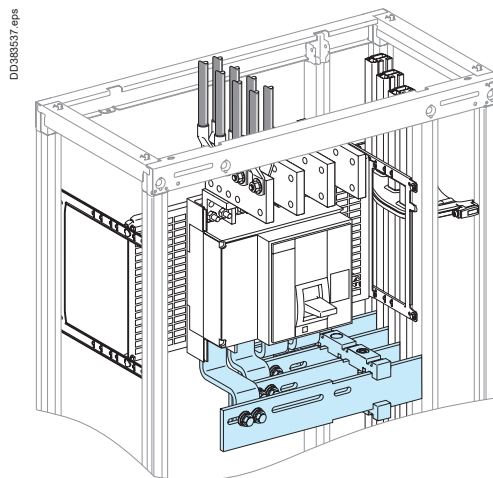
##### Vertical mounting

Front or rear connection

Top or bottom incoming

Vertical busbars on the left or right

Linery LGY busbars



Using the data below, it is possible to determine the permissible current for a prefabricated connection between a vertical ComPacT NS630b/NS1600, fixed or withdrawable, and Linery LGY busbars depending on the ambient temperature around the switchboard and the IP value.

#### Fixed

##### Prefabricated connection

Device and cat. no.		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NS630b	3P cat. no. LVS04485	630	630	630	630	630	630	630	630	630	630	630	630	■
	4P cat. no. LVS04486													
NS800	3P cat. no. LVS04485	800	800	800	800	800	800	800	800	800	800	800	800	■
	4P cat. no. LVS04486													
NS1000	3P cat. no. LVS04485	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	■
	4P cat. no. LVS04486													
NS1250	3P cat. no. LVS04485	1250	1250	1250	1250	1250	1250	1250	1200	1250	1150	1200	1200	■
	4P cat. no. LVS04486													
NS1600	3P cat. no. LVS04487	1600	1550	1600	1500	1550	1450	1500	1400	1450	1350	1400	1400	■
	4P cat. no. LVS04488													

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

#### Withdrawable

##### Prefabricated connection

Device and cat. no.		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NS630b	3P cat. no. LVS04477	630	630	630	630	630	630	630	630	630	630	630	630	■
	4P cat. no. LVS04478													
NS800	3P cat. no. LVS04477	800	800	800	800	800	800	800	800	800	800	800	800	■
	4P cat. no. LVS04478													
NS1000	3P cat. no. LVS04477	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	■
	4P cat. no. LVS04478													
NS1250	3P cat. no. LVS04477	1250	1250	1250	1250	1250	1250	1250	1200	1250	1150	1200	1200	■
	4P cat. no. LVS04478													
NS1600	3P cat. no. LVS04491	1560	1480	1520	1430	1480	1380	1430	1330	1380	1280	1330	1330	■
	4P cat. no. LVS04492													

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

##### Example:

For a fixed ComPacT NS1600, 4P, where the ambient temperature around the switchboard is 35 °C and the IP > 31: the maximum permissible current for the prefabricated connection (LVS04488) is 1450 A.

# Designing connections between a device and busbars

## Prefabricated connections for MasterPact MTZ1 06-16

### Electrical characteristics

MasterPact MTZ1 06 to 16

MasterPact MTZ1 06 to 16

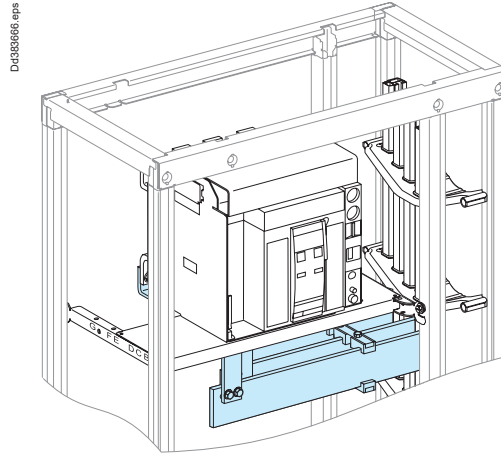
Vertical mounting

Front or rear connection

Top or bottom incoming

Vertical busbars on the left or right

Lineryy LGY busbars



Using the data below, it is possible to determine the permissible current for a prefabricated connection between a vertical MasterPact MTZ1 06/16, fixed or drawout, and Lineryy LGY busbars depending on the ambient temperature around the switchboard and the IP value.

### Fixed

#### Prefabricated connection

Device and cat. no.		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
NT06 & MTZ1	3P cat. no. LVS04475	630	630	630	630	630	630	630	630	630	630	630	■
	4P cat. no. LVS04476												
NT08 & MTZ1	3P cat. no. LVS04475	800	800	800	800	800	800	800	800	800	800	800	■
	4P cat. no. LVS04476												
NT10 & MTZ1	3P cat. no. LVS04475	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	■
	4P cat. no. LVS04476												
NT12 & MTZ1	3P cat. no. LVS04475	1250	1250	1250	1250	1250	1250	1250	1200	1250	1150	1200	■
	4P cat. no. LVS04476												
NT16 & MTZ1	3P cat. no. LVS04489	1600	1570	1600	1520	1570	1470	1520	1420	1470	1370	1420	■
	4P cat. no. LVS04490												

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

### Withdrawable

#### Prefabricated connection

Device and cat. no.		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
NT06 & MTZ1	3P cat. no. LVS04477	630	630	630	630	630	630	630	630	630	630	630	■
	4P cat. no. LVS04478												
NT08 & MTZ1	3P cat. no. LVS04477	800	800	800	800	800	800	800	800	800	800	800	■
	4P cat. no. LVS04478												
NT10 & MTZ1	3P cat. no. LVS04477	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	■
	4P cat. no. LVS04478												
NT12 & MTZ1	3P cat. no. LVS04477	1250	1250	1250	1250	1250	1250	1250	1200	1250	1150	1200	■
	4P cat. no. LVS04478												
NT16 & MTZ1	3P cat. no. LVS04491	1560	1480	1520	1430	1480	1380	1430	1330	1380	1280	1330	■
	4P cat. no. LVS04492												

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Example:

For a drawout MasterPact MTZ1 16 , 4P, where the ambient temperature around the switchboard is 35°C and the IP > 31: the maximum permissible current for the prefabricated connection (LVS04492) is 1380 A.

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

# Designing connections between a device and busbars

## Prefabricated connections for ComPacT NS630b to NS1000

### Electrical characteristics

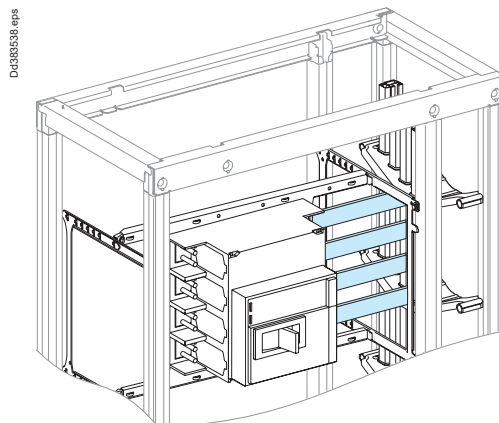
#### ComPacT NS630b à NS1000

##### Horizontal mounting

Front or rear connection

Left or right incoming

Linery LGY vertical busbars



Using the data below, it is possible to determine the permissible current for a prefabricated connection between a horizontal ComPacT NS630b/NS1600, fixed or withdrawable, and Linery LGY busbars depending on the ambient temperature around the switchboard and the IP value.

#### Fixed

##### Prefabricated connection

Device and cat. no.		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
NS630b	3P cat. no. <b>LVS04473</b>	630	630	630	630	630	630	630	630	630	630	630	■
	4P cat. no. <b>LVS04474</b>												
NS800	3P cat. no. <b>LVS04473</b>	800	800	800	800	800	800	800	800	800	800	800	■
	4P cat. no. <b>LVS04474</b>												
NS1000	3P cat. no. <b>LVS04473</b>	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	■
	4P cat. no. <b>LVS04474</b>												

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

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

Version : 14 - 15/12/2023  
160E9200

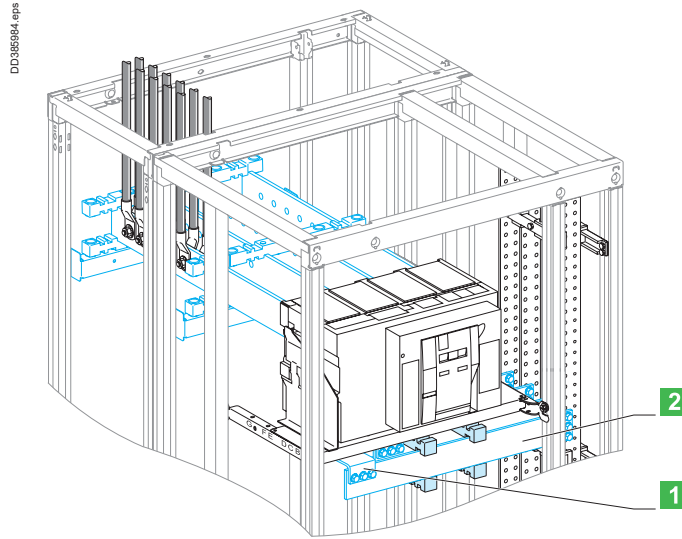
# Designing connections between a device and busbars

Fixed MasterPact 08-16

## Electrical characteristics

MasterPact MTZ2 08 to 16  
 MasterPact MTZ2 08 to 16  
 Fixed

Vertical busbars on the left or right  
 Linergy LGY, BS busbars  
 Connections drawings supplied by  
 Schneider Electric



- 1** Liaison
- 2** Horizontal link.

Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making the connections to busbars for a vertical, fixed MasterPact MTZ2 08/16, front or rear connection, taking into account the ambient temperature around the switchboard and the IP value.

### Connection

Flat bars, 5 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard (1)											
		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
NW08 & MTZ2	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	
NW10 & MTZ2	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
NW12 & MTZ2	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	
NW16 & MTZ2	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	■
	I (A)	1600	1600	1600	1570	1600	1520	1570	1470	1520	1420	1470	

### Horizontal link

Flat bars, 5 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
NW08 & MTZ2	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	
NW10 & MTZ2	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
NW12 & MTZ2	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	
NW16 & MTZ2	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	■
	I (A)	1600	1600	1600	1570	1600	1520	1570	1470	1520	1420	1470	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

(1) In the case of a door mounted at the rear of cubicle, add 10 °C.

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

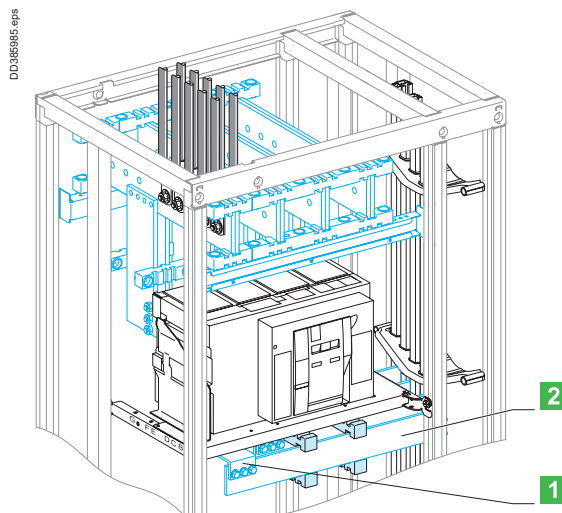
# Designing connections between a device and busbars

## Fixed MasterPact 08-32

### Electrical characteristics

#### MasterPact MTZ2 08 to 32 MasterPact MTZ2 08 to 32 Fixed

Vertical busbars on the left or right  
Linergy LGYE, LGY, BS busbars  
Connections drawings supplied by  
Schneider Electric



- 1** Connection.
- 2** Horizontal link.

Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making the connections to busbars for a vertical, fixed MasterPact MTZ2 08/32, front or rear connection, taking into account the ambient temperature around the switchboard and the IP value.

### Connection

#### Flat bars, 10 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NW08 & MTZ2	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
NW10 & MTZ2	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
NW12 & MTZ2	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	
NW16 & MTZ2	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1600	1600	1600	1570	1600	1520	1570	1470	1520	1420	1470		
NW20 & MTZ2	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	■
	I (A)	2000	2000	2000	2000	2000	2000	2000	1950	2000	1900	1950		
NW25 & MTZ2	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	■
	I (A)	2500	2500	2500	2500	2500	2460	2500	2380	2500	2300	2460		
NW32 & MTZ2	Size per phase	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	■
	I (A)	3200	3000	3170	2910	3080	2820	3000	2730	2910	2630	2820		

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

### Horizontal link

#### Flat bars, 10 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NW08 & MTZ2	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
NW10 & MTZ2	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
NW12 & MTZ2	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	
NW16 & MTZ2	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1600	1600	1600	1570	1600	1520	1570	1470	1520	1420	1470		
NW20 & MTZ2	Size per phase	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	■
	I (A)	2000	2000	2000	2000	2000	2000	2000	1950	2000	1900	1950		
NW25 & MTZ2	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	■
	I (A)	2500	2500	2500	2500	2500	2460	2500	2380	2500	2300	2460		
NW32 & MTZ2	Size per phase	2b 100x10	2b 100x10	2b 100x10	2b 100x10	2b 100x10	2b 100x10	2b 100x10	2b 100x10	2b 100x10	2b 100x10	2b 100x10	2b 100x10	■
	I (A)	3200	3000	3170	2910	3080	2820	3000	2730	2910	2630	2820		

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

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

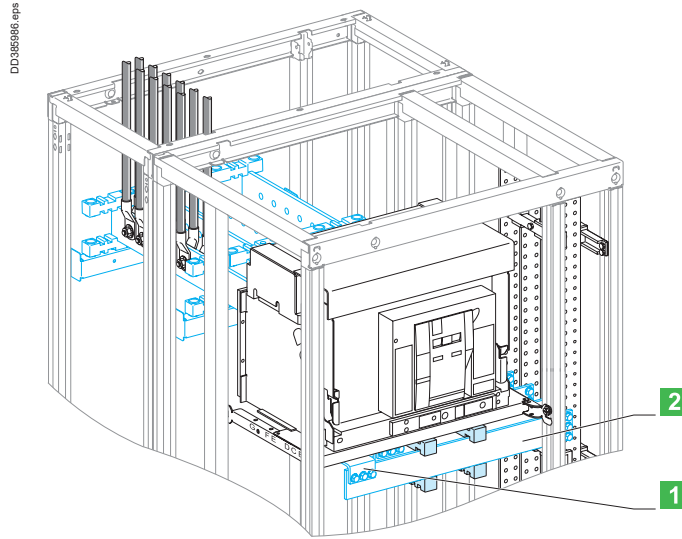
# Designing connections between a device and busbars

Drawout MasterPact 08-16

## Electrical characteristics

MasterPact MTZ2 08 to 16  
MasterPact MTZ2 08 to 16  
Drawout

Vertical busbars on the left or right  
Linergy LGY, BS busbars  
Connections drawings supplied by  
Schneider Electric



- 1** Connection.
- 2** Horizontal link.

Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making the connections to busbars for a vertical, drawout MasterPact MTZ2 08/16, front or rear connection, taking into account the ambient temperature around the switchboard and the IP value.

### Connection

Flat bars, 5 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard (1)											
		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
NW08 & MTZ2	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	
NW10 & MTZ2	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
NW12 & MTZ2	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	■
	I (A)	1250	1250	1250	1250	1250	1230	1250	1200	1230	1160	1200	
NW16 & MTZ2	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	■
	I (A)	1560	1480	1520	1430	1480	1380	1430	1330	1380	1280	1330	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

### Horizontal link

Flat bars, 5 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
NW08 & MTZ2	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	
NW10 & MTZ2	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
NW12 & MTZ2	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	■
	I (A)	1250	1250	1250	1250	1250	1230	1250	1200	1230	1160	1200	
NW16 & MTZ2	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	■
	I (A)	1560	1480	1520	1430	1480	1380	1430	1330	1380	1280	1330	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

(1) In the case of a door mounted at the rear of cubicle, add 10 °C.

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

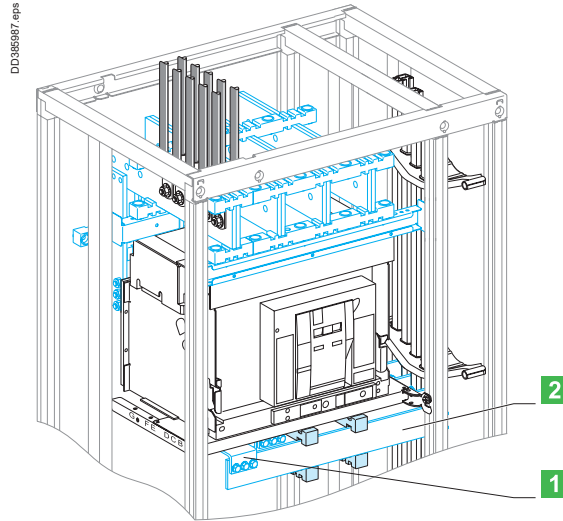
# Designing connections between a device and busbars

Drawout MasterPact 08-32

## Electrical characteristics

### MasterPact MTZ2 08 to 32 MasterPact MTZ2 08 to 32 Drawout

Vertical busbars on the left or right  
Linergy LGYE, LGY, BS busbars  
Connections drawings supplied by  
Schneider Electric



- 1** Connection.
- 2** Horizontal link.

Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making the connections to busbars for a vertical, drawout MasterPact MTZ2 08/32, front or rear connection, taking into account the ambient temperature around the switchboard and the IP value.

### Connection

Flat bars, 10 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NW08 & MTZ2	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
NW10 & MTZ2	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
NW12 & MTZ2	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1250	1250	1250	1210	1250	1180	1210	1140	1180	1100	1140	1140	
NW16 & MTZ2	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1560	1480	1520	1430	1480	1380	1430	1330	1380	1280	1330	1330	
NW20 & MTZ2	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	■
	I (A)	2000	2000	2000	1950	2000	1900	1950	1830	1900	1760	1830	1830	
NW25 & MTZ2	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	■
	I (A)	2470	2280	2410	2210	2350	2140	2280	2070	2210	2000	2140	2140	
NW32 & MTZ2	Size per phase	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	■
	I (A)	2960	2730	2890	2630	2820	2530	2730	2450	2630	2370	2530	2530	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

### Horizontal link

Flat bars, 10 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NW08 & MTZ2	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
NW10 & MTZ2	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
NW12 & MTZ2	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	■
	I (A)	1250	1250	1250	1210	1250	1180	1210	1140	1180	1100	1140	1140	
NW16 & MTZ2	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1560	1480	1520	1430	1480	1380	1430	1330	1380	1280	1330	1330	
NW20 & MTZ2	Size per phase	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	■
	I (A)	2000	2000	2000	1950	2000	1900	1950	1830	1900	1760	1830	1830	
NW25 & MTZ2	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	■
	I (A)	2470	2280	2410	2210	2350	2140	2280	2070	2210	2000	2140	2140	
NW32 & MTZ2	Size per phase	2b 100x10	2b 100x10	2b 100x10	2b 100x10	2b 100x10	2b 100x10	2b 100x10	2b 100x10	2b 100x10	2b 100x10	2b 100x10	2b 100x10	■
	I (A)	2960	2730	2890	2630	2820	2530	2730	2450	2630	2370	2530	2530	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

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

# Designing connections between a device and busbars

## Dedicated cubicle

Fixed MasterPact 08-32

### Electrical characteristics

MasterPact MTZ2 08 to 32

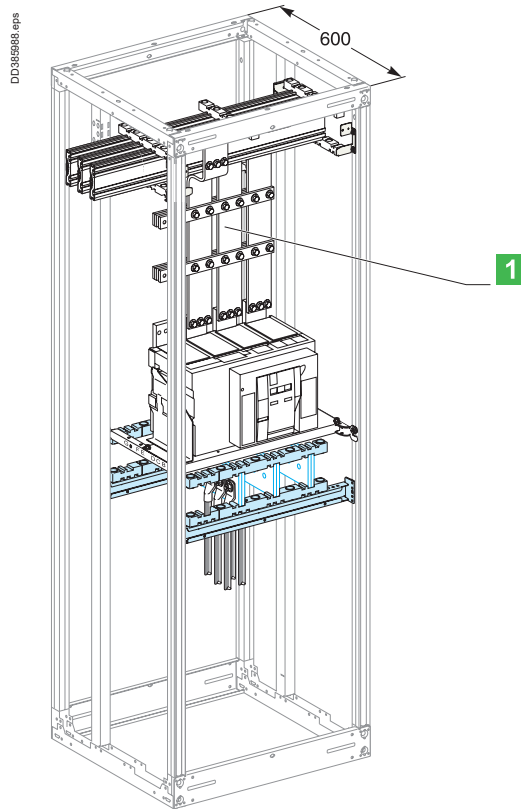
MasterPact MTZ2 08 to 32

Fixed

Dedicated cubicle

Linery LGYE, BS busbars

Connections drawings supplied by Schneider Electric



## Connection

Flat bars, 10 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NW08 & MTZ2	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
NW10 & MTZ2	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
NW12 & MTZ2	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	
NW16 & MTZ2	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1600	1600	1600	1570	1600	1520	1570	1470	1520	1420	1470		
NW20 & MTZ2	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	■
	I (A)	2000	2000	2000	2000	2000	2000	2000	1950	2000	1900	1950		
NW25 & MTZ2	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	■
	I (A)	2500	2500	2500	2500	2500	2460	2500	2380	2500	2300	2460		
NW32 & MTZ2	Size per phase	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	■
	I (A)	3200	3000	3170	2910	3080	2820	3000	2730	2910	2630	2820		

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Note: contact Schneider Electric for 4000 A dedicated cubicle

# Designing connections between a device and busbars

## Dedicated cubicle

### Drawout MasterPact 08-32

### Electrical characteristics

#### MasterPact MTZ2 08 to 32

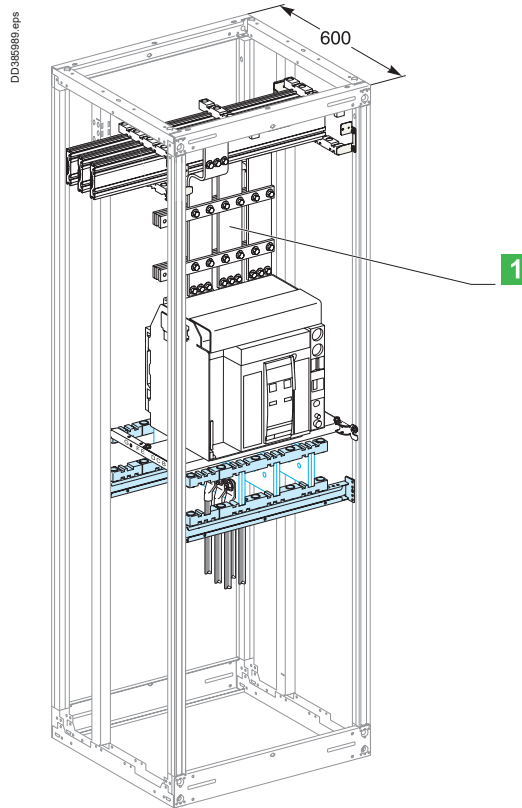
#### MasterPact MTZ2 08 to 32

#### Drawout

Dedicated cubicle

Linergy LGYE, BS busbars

Connections drawings supplied by Schneider Electric



## Connection

Flat bars, 10 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
NW08 & MTZ2	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800
NW10 & MTZ2	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
NW12 & MTZ2	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10
	I (A)	1250	1250	1250	1210	1250	1180	1210	1140	1180	1100	1140	1140
NW16 & MTZ2	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10
	I (A)	1560	1480	1520	1430	1480	1380	1430	1330	1380	1280	1330	1330
NW20 & MTZ2	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10
	I (A)	2000	2000	2000	1950	2000	1900	1950	1830	1900	1760	1830	1830
NW25 & MTZ2	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10
	I (A)	2470	2280	2410	2210	2350	2140	2280	2070	2210	2000	2140	2140
NW32 & MTZ2	Size per phase	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10
	I (A)	2960	2730	2890	2630	2820	2530	2730	2450	2630	2370	2530	2530

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Note: contact Schneider Electric for 4000 A dedicated cubicle

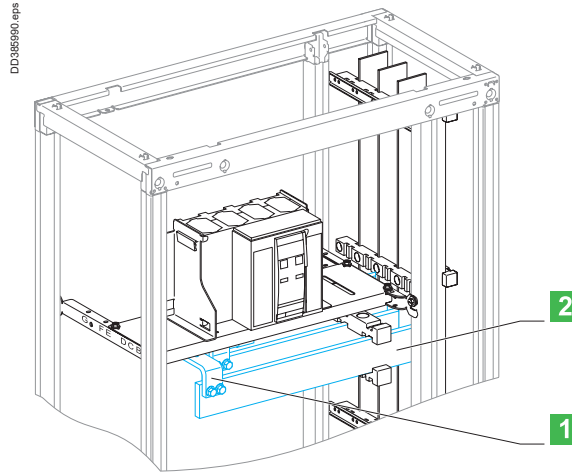
# Designing connections between a device and busbars

## Fixed MasterPact 06-16

### Electrical characteristics

MasterPact MTZ1 06 to 16  
 MasterPact MTZ1 06 to 16  
 Fixed

Vertical busbars on the left or right  
 Linergy BS busbars  
 Connections drawings supplied by  
 Schneider Electric



- 1** Connection.
- 2** Horizontal link.

Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making the connections to busbars for a vertical, fixed MasterPact MTZ1 06/16, taking into account the ambient temperature around the switchboard and the IP value.

### Connection

Flat bars, 5 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
NT06 & MTZ1	Size per phase	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	
NT08 & MTZ1	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	
NT10 & MTZ1	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
NT12 & MTZ1	Size per phase	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1250	1250	1200	1250	
NT16 & MTZ1 (1)	Size per phase	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	■
	I (A)	1600	1570	1600	1520	1570	1470	1520	1420	1470	1370	1420	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

### Horizontal link

Flat bars, 5 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
NT06 & MTZ1	Size per phase	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	
NT08 & MTZ1	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	
NT10 & MTZ1	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
NT12 & MTZ1	Size per phase	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1250	1250	1200	1250	
NT16 & MTZ1	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	■
	I (A)	1600	1570	1600	1520	1570	1470	1520	1420	1470	1370	1420	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

(1) Make the neutral connection with two bars, 50 x 5 mm.

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

## Designing connections between a device and busbars

## Fixed MasterPact 06-16

## Electrical characteristics

## Connection

## Flat bars, 10 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NT06 & MTZ1	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	630	
NT08 & MTZ1	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
NT10 & MTZ1	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
NT12 & MTZ1	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1250	1250	1180	1230		
NT16 & MTZ1 (1)	Size per phase	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	■
	I (A)	1600	1570	1600	1520	1570	1470	1520	1420	1470	1370	1420		

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

## Horizontal link

## Flat bars, 10 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NT06 & MTZ1	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	630	
NT08 & MTZ1	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
NT10 & MTZ1	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	960	1000		
NT12 & MTZ1	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	■
	I (A)	1250	1250	1250	1250	1250	1210	1250	1160	1210	1180	1230		
NT16 & MTZ1	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1600	1570	1600	1520	1570	1470	1520	1420	1470	1370	1420		

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

(1) Make the neutral connection with one bar, 50 x 10 mm.

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

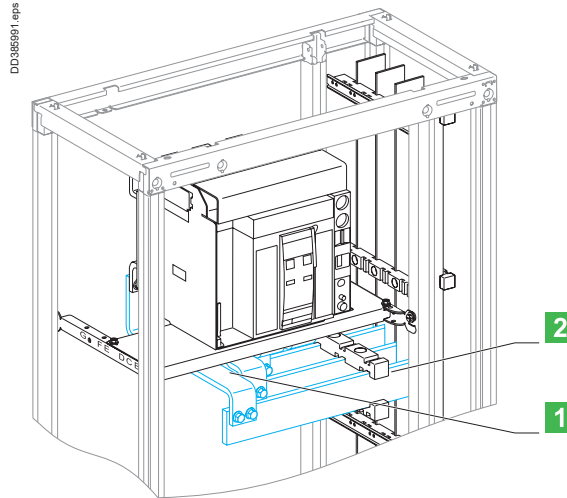
# Designing connections between a device and busbars

Drawout MasterPact 06-16

## Electrical characteristics

MasterPact MTZ1 06 to 16  
 MasterPact MTZ1 06 to 16  
 Drawout

Vertical busbars on the left or right  
 Linergy BS busbars  
 Connections drawings supplied by  
 Schneider Electric



- 1** Connection.
- 2** Horizontal link.

Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making the connections to busbars for a vertical, drawout MasterPact MTZ1 06/16, taking into account the ambient temperature around the switchboard and the IP value.

### Connection

Flat bars, 5 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
NT06 & MTZ1	Size per phase	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	
NT08 & MTZ1	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	
NT10 & MTZ1	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	960	1000	
NT12 & MTZ1	Size per phase	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	■
	I (A)	1250	1250	1250	1250	1250	1230	1250	1180	1230	1130	1180	
NT16 & MTZ1 (1)	Size per phase	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	■
	I (A)	1560	1430	1520	1430	1480	1380	1430	1330	1380	1280	1330	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

### Horizontal link

Flat bars, 5 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
NT06 & MTZ1	Size per phase	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	
NT08 & MTZ1	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	
NT10 & MTZ1	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	960	1000	
NT12 & MTZ1	Size per phase	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	■
	I (A)	1250	1250	1250	1250	1250	1230	1250	1180	1230	1130	1180	
NT16 & MTZ1	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	■
	I (A)	1560	1430	1520	1430	1480	1380	1430	1330	1380	1280	1330	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

(1) Make the neutral connection with two bars, 50 x 5 mm.

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

## Designing connections between a device and busbars

## Drawout MasterPact 06-16

## Electrical characteristics

## Connection

## Flat bars, 10 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
NT06	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10 ■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	
NT08	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10 ■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	
NT10	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10 ■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	960	1000	
NT12	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10 ■
	I (A)	1250	1250	1250	1250	1250	1210	1250	1160	1210	1110	1160	
NT16 (1)	Size per phase	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10 ■
	I (A)	1560	1430	1520	1430	1480	1380	1430	1330	1380	1280	1330	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

## Horizontal link

## Flat bars, 10 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
NT06	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10 ■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	
NT08	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10 ■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	
NT10	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10 ■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	960	1000	
NT12	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10 ■
	I (A)	1250	1250	1250	1250	1250	1210	1250	1160	1210	1110	1160	
NT16	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10 ■
	I (A)	1560	1430	1520	1430	1480	1380	1430	1330	1380	1280	1330	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

(1) Make the neutral connection with one bar, 50 x 10 mm.

Note: The values indicated above have been validated for PrismaSeT P switchboards.

# Designing connections between a device and busbars

## Fixed ComPacT NS1600b to NS3200

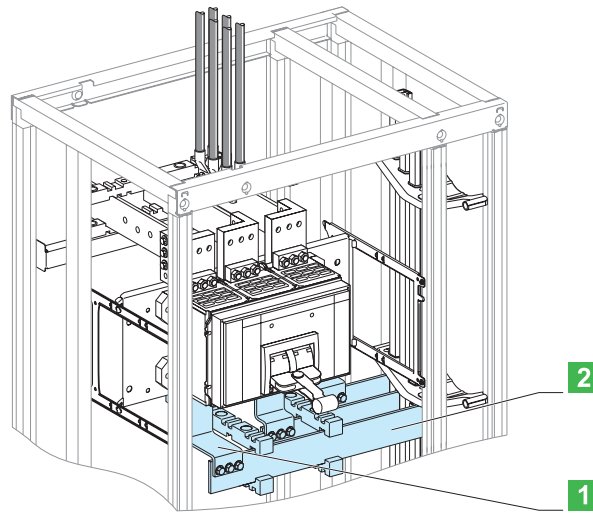
### Electrical characteristics

#### ComPacT NS1600b/3200

#### Fixed

Vertical busbars on the left or right  
 Linergy LGY busbars, BS  
 Busbar drawings supplied by  
 Schneider Electric

DD385982.eps



- 1** Connection.
- 2** Horizontal link.

Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making the connections to busbars for a vertical, fixed ComPacT NS1600b/3200, front or rear connection, taking into account the ambient temperature around the switchboard and the IP value.

### Connection

#### Flat bars, 10 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
NS1600b	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1560	1480	1520	1430	1480	1380	1430	1330	1380	1280	1330	
NS2000	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	■
	I (A)	2000	2000	2000	1950	2000	1900	1950	1830	1900	1760	1830	
NS2500	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	■
	I (A)	2470	2280	2410	2210	2350	2140	2280	2070	2210	2000	2140	
NS3200	Size per phase	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	3b 80 x 10	■
	I (A)	2860	2630	2790	2530	2720	2430	2630	2350	2530	2270	2430	

### Horizontal link

#### Flat bars, 10 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
NS1600b	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1560	1480	1520	1430	1480	1380	1430	1330	1380	1280	1330	
NS2000	Size per phase	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	2b 60 x 10	■
	I (A)	2000	2000	2000	1950	2000	1900	1950	1830	1900	1760	1830	
NS2500	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	■
	I (A)	2470	2280	2410	2210	2350	2140	2280	2070	2210	2000	2140	
NS3200	Size per phase	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	■
	I (A)	2860	2630	2790	2530	2720	2430	2630	2350	2530	2270	2430	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

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

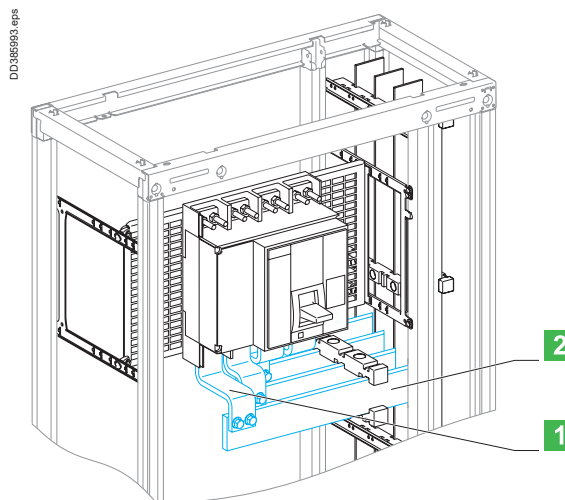
# Designing connections between a device and busbars

## Fixed ComPacT NS630b to NS1600

### Electrical characteristics

### ComPacT NS630b to NS1600 Fixed

Vertical busbars on the left or right  
Linergy BS busbars  
Busbar drawings supplied by  
Schneider Electric



- 1 Connection.
- 2 Horizontal link.

Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making the connections to busbars for a vertical, fixed ComPacT NS630b/NS1600, taking into account the ambient temperature around the switchboard and the IP value.

### Connection

Flat bars, 5 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
NS630b	Size per phase	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	
NS800	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	
NS1000	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	970	1000	
NS1250	Size per phase	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1200	1250	1150	1200	
NS1600 (1)	Size per phase	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	■
	I (A)	1600	1550	1600	1500	1550	1450	1500	1400	1450	1350	1400	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

### Horizontal link

Flat bars, 5 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
NS630b	Size per phase	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	
NS800	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	
NS1000	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	970	1000	
NS1250	Size per phase	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1200	1250	1150	1200	
NS1600	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	■
	I (A)	1600	1550	1600	1500	1550	1450	1500	1400	1450	1350	1400	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

(1) Make the neutral connection with two bars, 50 x 5 mm.

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

# Designing connections between a device and busbars

## Fixed ComPacT NS630b to NS1600

### Electrical characteristics

#### Connection

##### Flat bars, 10 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NS630b	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	630	
NS800	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
NS1000	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	970	1000	1000	
NS1250	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1180	1230	1130	1180	1180	
NS1600 (1)	Size per phase	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	■
	I (A)	1600	1550	1600	1500	1550	1450	1500	1400	1450	1350	1400	1400	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

#### Horizontal link

##### Flat bars, 10 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NS630b	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	630	
NS800	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
NS1000	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	970	1000	1000	
NS1250	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1180	1230	1130	1180	1180	
NS1600	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1600	1550	1600	1500	1550	1450	1500	1400	1450	1350	1400	1400	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

(1) Make the neutral connection with one bar, 50 x 10 mm.

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

# Designing connections between a device and busbars

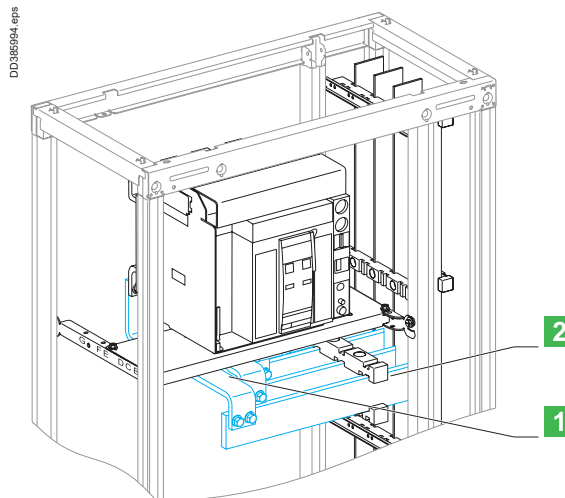
Withdrawable

ComPacT NS630b to NS1600

Electrical characteristics

## ComPacT NS630b to NS1600 Withdrawable

Vertical busbars on the left or right  
Linergy BS busbars  
Busbar drawings supplied by  
Schneider Electric



- 1 Connection.
- 2 Horizontal link.

Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making the connections to busbars for a vertical, withdrawable ComPacT NS630b/NS1600, taking into account the ambient temperature around the switchboard and the IP value.

## Connection

Flat bars, 5 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
NS630b	Size per phase	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	1b 50 x 5	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	
NS800	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	
NS1000	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	960	1000	
NS1250	Size per phase	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	3b 50 x 5	■
	I (A)	1250	1250	1250	1250	1250	1230	1250	1180	1230	1130	1180	
NS1600 (1)	Size per phase	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	4b 50 x 5	■
	I (A)	1560	1430	1520	1430	1480	1380	1430	1330	1380	1280	1330	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

## Horizontal link

Flat bars, 5 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
NS630b	Size per phase	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	
NS800	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	
NS1000	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	960	1000	
NS1250	Size per phase	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	■
	I (A)	1250	1250	1250	1250	1250	1230	1250	1180	1230	1130	1180	
NS1600	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	■
	I (A)	1560	1430	1520	1430	1480	1380	1430	1330	1380	1280	1330	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

(1) Make the neutral connection with two bars, 50 x 5 mm.

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

# Designing connections between a device and busbars

## Withdrawable

### ComPacT NS630b to NS1600

## Electrical characteristics

### Connection

#### Flat bars, 10 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NS630b	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	630	
NS800	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
NS1000	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	960	1000	1000	
NS1250	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	1250	1250	1250	1250	1250	1210	1250	1160	1210	1110	1160	1160	
NS1600 (1)	Size per phase	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	2b 50 x 10	■
	I (A)	1560	1430	1520	1430	1480	1380	1430	1330	1380	1280	1330	1330	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

### Horizontal link

#### Flat bars, 10 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NS630b	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	630	
NS800	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
NS1000	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	970	1000	1000	
NS1250	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	■
	I (A)	1250	1250	1250	1250	1250	1210	1250	1160	1210	1110	1160	1160	
NS1600	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1560	1430	1520	1430	1480	1380	1430	1330	1380	1280	1330	1330	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

(1) Make the neutral connection with one bar, 50 x 10 mm.

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

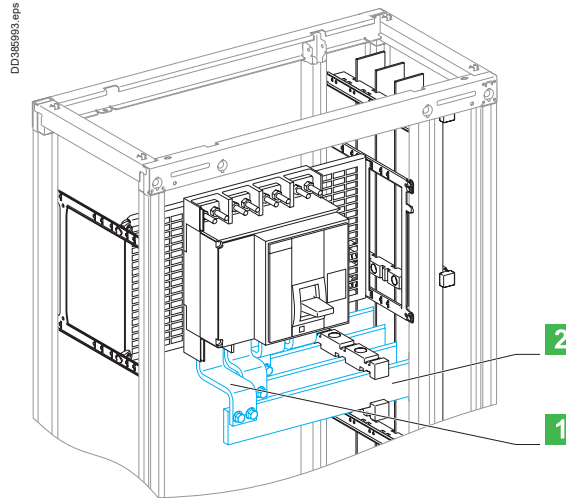
# Designing connections between a device and busbars

## Fixed ComPacT INS-INV630b to 2500

### Electrical characteristics

### ComPacT INS-INV630b to 2500 Fixed

Vertical busbars on the left or right  
Linergy LGYE busbar, Linergy BS bars  
Busbar drawings supplied by  
Schneider Electric



- 1 Connection.
- 2 Horizontal link.

Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making the connections to busbars for a vertical, fixed ComPacT, taking into account the ambient temperature around the switchboard and the IP value.

### Connection

#### Flat bars, 5 mm thick

Device	Permissible current (A)	Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
INS-INV630b	Size per phase	1b x 50 x 5	1b x 50 x 5	1b x 50 x 5	1b x 50 x 5	1b x 50 x 5	1b x 50 x 5	1b x 50 x 5	1b x 50 x 5	1b x 50 x 5	1b x 50 x 5	1b x 50 x 5	1b x 50 x 5	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	630	
INS-INV800	Size per phase	2b x 50 x 5	2b x 50 x 5	2b x 50 x 5	2b x 50 x 5	2b x 50 x 5	2b x 50 x 5	2b x 50 x 5	2b x 50 x 5	2b x 50 x 5	2b x 50 x 5	2b x 50 x 5	2b x 50 x 5	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
INS-INV1000	Size per phase	2b x 50 x 5	2b x 50 x 5	2b x 50 x 5	2b x 50 x 5	2b x 50 x 5	2b x 50 x 5	2b x 50 x 5	2b x 50 x 5	2b x 50 x 5	2b x 50 x 5	2b x 50 x 5	2b x 50 x 5	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	970	1000	1000	
INS-INV1250	Size per phase	3b x 50 x 5	3b x 50 x 5	3b x 50 x 5	3b x 50 x 5	3b x 50 x 5	3b x 50 x 5	3b x 50 x 5	3b x 50 x 5	3b x 50 x 5	3b x 50 x 5	3b x 50 x 5	3b x 50 x 5	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1200	1250	1150	1200	1200	
INS-INV1600	Size per phase	3b x 50 x 5	3b x 50 x 5	3b x 50 x 5	3b x 50 x 5	3b x 50 x 5	3b x 50 x 5	3b x 50 x 5	3b x 50 x 5	3b x 50 x 5	3b x 50 x 5	3b x 50 x 5	3b x 50 x 5	■
	I (A)	1600	1550	1600	1500	1550	1450	1500	1400	1450	1350	1400	1400	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

### Horizontal link

#### Flat bars, 5 mm thick

Device	Permissible current (A)	Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
INS-INV630b	Size per phase	1b x 60 x 5	1b x 60 x 5	1b x 60 x 5	1b x 60 x 5	1b x 60 x 5	1b x 60 x 5	1b x 60 x 5	1b x 60 x 5	1b x 60 x 5	1b x 60 x 5	1b x 60 x 5	1b x 60 x 5	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	630	
INS-INV800	Size per phase	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
INS-INV1000	Size per phase	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	970	1000	1000	
INS-INV1250	Size per phase	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	1b x 80 x 5	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1200	1250	1150	1200	1200	
INS-INV1600	Size per phase	2b x 80 x 5	2b x 80 x 5	2b x 80 x 5	2b x 80 x 5	2b x 80 x 5	2b x 80 x 5	2b x 80 x 5	2b x 80 x 5	2b x 80 x 5	2b x 80 x 5	2b x 80 x 5	2b x 80 x 5	■
	I (A)	1600	1550	1600	1500	1550	1450	1500	1400	1450	1350	1400	1400	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

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

# Designing connections between a device and busbars

## Fixed ComPacT INS-INV630b to 2500

### Electrical characteristics

#### Connection

Flat bars, 10 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
INS-INV630b	Size per phase	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	630	
INS-INV800	Size per phase	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
INS-INV1000	Size per phase	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	970	1000		
INS-INV1250	Size per phase	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1180	1230	1130	1180		
INS-INV1600	Size per phase	2b x 50 x 10	2b x 50 x 10	2b x 50 x 10	2b x 50 x 10	2b x 50 x 10	2b x 50 x 10	2b x 50 x 10	2b x 50 x 10	2b x 50 x 10	2b x 50 x 10	2b x 50 x 10	2b x 50 x 10	■
	I (A)	1600	1550	1600	1500	1550	1450	1500	1400	1450	1350	1400		
INS-INV2000	Size per phase	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	■
	I (A)	2000	2000	2000	1950	2000	1900	1950	1830	1900	1760	1830		
INS-INV2500	Size per phase	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	■
	I (A)	2470	2280	2410	2210	2350	2140	2280	2070	2210	2000	2140		

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

#### Horizontal link

Flat bars, 10 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
INS-INV630b	Size per phase	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	630	
INS-INV800	Size per phase	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
INS-INV1000	Size per phase	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	1b x 50 x 10	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	970	1000		
INS-INV1250	Size per phase	1b x 60 x 10	1b x 60 x 10	1b x 60 x 10	1b x 60 x 10	1b x 60 x 10	1b x 60 x 10	1b x 60 x 10	1b x 60 x 10	1b x 60 x 10	1b x 60 x 10	1b x 60 x 10	1b x 60 x 10	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1180	1230	1130	1180		
INS-INV1600	Size per phase	1b x 80 x 10	1b x 80 x 10	1b x 80 x 10	1b x 80 x 10	1b x 80 x 10	1b x 80 x 10	1b x 80 x 10	1b x 80 x 10	1b x 80 x 10	1b x 80 x 10	1b x 80 x 10	1b x 80 x 10	■
	I (A)	1600	1550	1600	1500	1550	1450	1500	1400	1450	1350	1400		
INS-INV2000	Size per phase	1b x 80 x 10	1b x 80 x 10	1b x 80 x 10	1b x 80 x 10	1b x 80 x 10	1b x 80 x 10	1b x 80 x 10	1b x 80 x 10	1b x 80 x 10	1b x 80 x 10	1b x 80 x 10	1b x 80 x 10	■
	I (A)	2000	2000	2000	1950	2000	1900	1950	1830	1900	1760	1830		
INS-INV2500	Size per phase	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	2b x 80 x 10	■
	I (A)	2470	2280	2410	2210	2350	2140	2280	2070	2210	2000	2140		

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

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

# Designing connections between a device and busbars

Horizontal, fixed

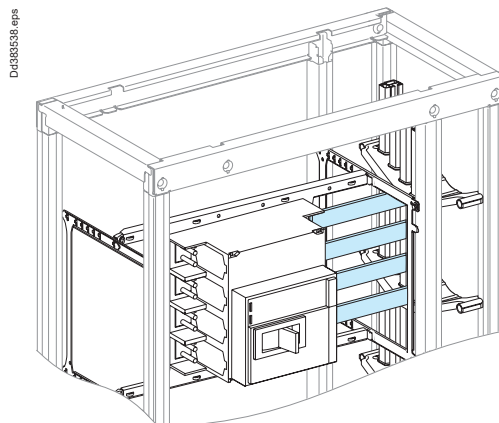
ComPacT NS630b to NS1000

Electrical characteristics

ComPacT NS630b to NS1000

Horizontal mounting

Vertical Linergy LGYE, LGY, BS busbars



Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making the connections to busbars for a horizontal, fixed ComPacT NS630b/NS1000, taking into account the ambient temperature around the switchboard and the IP value.

## Flat bars, 5 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
NS630b	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5
	I (A)	630	630	630	630	630	630	630	630	630	630	630	630
NS800	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800
NS1000	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

## Flat bars, 10 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10
NS630b	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10
	I (A)	630	630	630	630	630	630	630	630	630	630	630	630
NS800	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800
NS1000	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

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

# Designing connections ≤ 630 A

## Device connections

### Electrical characteristics

#### Flexible copper bars with an insulating sheath

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

It is imperative to use the values indicated below that have been validated for the installation of devices in PrismaSeT switchboards.

The parameters determining the size of flexible bars are:

- the environment in which the devices are installed:
  - position in the enclosure
  - dimensions of other conductors in the circuit
  - ambient temperature around the switchboard
- the characteristics of the connected devices:
  - device heat losses
  - the type of installation (horizontal or vertical)
  - the type of device (fixed or withdrawable).

Only the equipment manufacturer with in-depth knowledge on:

- the characteristics of the installed devices
- the configuration of the installation in the enclosure can provide the correct sizes of flexible bars for a given permissible current.

Insulated, flexible bars make for easy, fast and flexible implementation up to 630 A, but higher ratings require sizes that cancel these advantages.

For high I<sub>sc</sub> values, it is advised to use rigid bars which require fewer supports.

#### Insulated flexible bars are better than cables, they offer:

- better insulation temperature withstand (125 °C for bars, 105 °C for cables) and a larger exchange surface for an equivalent size, i.e. a smaller size for a given current
- greater rigidity offering better electrodynamic characteristics for short-circuit currents
- no intermediate parts (lugs) for a direct connection between the device and the busbars therefore less temperature rise and less risk of error
- fast implementation of prefabricated connections already cut to length, formed and drilled.
- length limited to 500 mm.

#### Technical characteristics

- thickness of the insulation: variable depending on the bar size, 2 mm on average
- rated insulation level U<sub>i</sub> = 1000 V
- impulse withstand voltage U<sub>imp</sub> = 12 kV
- maximum withstand temperature of insulating material = 125 °C.

#### Connection

In all cubicles with IP ≤ 55 :

- the switchboard internal temperature is 60 °C
- the withstand temperature of the insulating material is 125 °C.

If the withstand temperature of the insulation is only 105 °C, use the next largest size of flexible bar given for standard insulated flexible bars (withstand temperature = 125 °C)

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

#### Connection of devices to busbars

Device	INS-INV125	INS-INV160	INS-INV250	INS-INV320 INS-INV400	INS-INV500 INS-INV630	GS250 ISFT250	GS400 ISFT400	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

#### Connection of distribution blocks to busbars

Distribution block	Linerigy FM 200 A	Linerigy FC 3P	Linerigy FC 4P
S (mm)	20 x 3	32 x 8	32 x 8

#### Connection of disconnectors, Linerigy TB, 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 PrismaSeT P switchboards.

# Designing connections ≤ 630 A

## ComPacT circuit breakers NSX100 to NSX630

### Insulated flexible copper bars <sup>(1)</sup>

Electrical characteristics

## ComPacT NSX100 to NSX630

### Insulated flexible copper bars (withstand temperature = 125 °C)

We recommend insulated flexible copper bars for ComPacT NSX connections from 100 to 630 A

Devices		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
<b>IP ≤ 31</b>							
NSX100 TMD-TMG	Size per phase	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2
	I <sub>nc</sub> (A)	100	100	100	97.5	95	92.5
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 <sub>nc</sub> (A)	125	125	125	122	119	115
NSX160 (2) TMD-TMG	Size per phase	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3
	I <sub>nc</sub> (A)	160	160	160	156	152	148
NSX250 (2) TMD-TMG	Size per phase	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3
	I <sub>nc</sub> (A)	250	244	238	231	225	219
NSX100 STR	Size per phase	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2
	I <sub>nc</sub> (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 <sub>nc</sub> (A)	160	160	160	160	160	160
NSX250 (3) STR	Size per phase	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3
	I <sub>nc</sub> (A)	250	245	237	230	225	220
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 <sub>nc</sub> (A)	400	400	400	390	380	370
NSX400B/F/N/H/S/L with Vigi NSX400B/F/N/H/S/L ELCB	Size per phase	32 x 5	32 x 5	32 x 5	32 x 5	32 x 5	32 x 5
	I <sub>nc</sub> (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 <sub>nc</sub> (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 <sub>nc</sub> (A)	630	615	600	585	570	550
NSX630B/F/N/H/S/L with Vigi or withdrawable NSX630B/F/N/H/S/L ELCB	Size per phase	32 x 8	32 x 8	32 x 8	32 x 8	32 x 8	32 x 8
	I <sub>nc</sub> (A)	570	550	535	520	505	490
<b>IP &gt; 31</b>							
NSX100 TMD-TMG	Size per phase	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2
	I <sub>nc</sub> (A)	100	100	100	97.5	95	92.5
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 <sub>nc</sub> (A)	125	125	125	122	119	115
NSX160 (2) TMD-TMG	Size per phase	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3
	I <sub>nc</sub> (A)	160	160	160	156	152	148
NSX250 (2) TMD-TMG	Size per phase	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3
	I <sub>nc</sub> (A)	238	231	225	219	213	207
NSX100 STR	Size per phase	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2
	I <sub>nc</sub> (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 <sub>nc</sub> (A)	160	160	160	160	160	160
NSX250 (3) STR	Size per phase	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3
	I <sub>nc</sub> (A)	237	230	225	220	215	210
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 <sub>nc</sub> (A)	400	400	400	390	380	370
Vigi NSX400B/F/N/H/S/L NSX400B/F/N/H/S/L Vigi (ELCB)	Size per phase	32 x 5	32 x 5	32 x 5	32 x 5	32 x 5	32 x 5
	I <sub>nc</sub> (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 <sub>nc</sub> (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 <sub>nc</sub> (A)	600	585	570	550	535	520
NSX630B/F/N/H/S/L withdrawable Vigi NSX630B/F/N/H/S/L NSX630B/F/N/H/S/L Vigi (ELCB)	Size per phase	32 x 8	32 x 8	32 x 8	32 x 8	32 x 8	32 x 8
	I <sub>nc</sub> (A)	535	520	505	490	475	420

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

(1) We recommend insulated flexible copper bars instead of copper cables for all NSX100 to NSX630 connection.

(2) For a withdrawable NSX160/250 equipped with a Vigi or NSX Vigi 160/250 (ELCB) or an insulation-monitoring module, multiply the I<sub>n</sub> values by 0.9 .

(3) For a withdrawable NSX250 equipped with Vigi or NSX Vigi 250 (ELCB) or an insulation-monitoring module, multiply the I<sub>n</sub> values by 0.86.

To connect a ComPacT NSX250 and NSX Vigi 250 ELCB to a Linergy BW busbars, use a 24 x 5 flexible bar cat. no. **LVS04746**.

# Designing connections $\leq 630$ A

## ComPacT circuit breakers NSX100 to NSX250

### Copper cable

### Electrical characteristics

#### Cables: practical guidelines

This section doesn't concern customer's loads connection (see IEC 61439-1, IEC 60364).

Schneider Electric provides cabling recommendations according to the rating of the circuit breaker.

The size of cables must be selected according to:

- the level of current
- the ambient temperature around the conductors
- the degree of protection for the switchboard.

The tables below take into account the installation conditions for each type of device (permissible temperature at connection terminals, etc.).

They follow the temperature derating values for installed devices in all cubicles with cover panels rated IP  $\leq 55$ .

- switchboard internal temperature 60 °C
- connections using copper cables.

The withstand temperature of insulating material of cable = 105°C.

The withstand voltage of insulating material of cable  $\geq 1000$  V.

## ComPacT NSX100 to NSX250

### Copper cable, withstand temperature = 105 °C

Devices		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
<b>IP <math>\leq 31</math></b>							
NSX100 TMD-TMG	Size per phase	50 mm <sup>2</sup>	50 mm <sup>2</sup>	50 mm <sup>2</sup>	50 mm <sup>2</sup>	50 mm <sup>2</sup>	50 mm <sup>2</sup>
	I <sub>nc</sub> (A)	100	100	100	97.5	95	92.5
NSX125 TMD-TMG	Size per phase	70 mm <sup>2</sup>	70 mm <sup>2</sup>	70 mm <sup>2</sup>	70 mm <sup>2</sup>	70 mm <sup>2</sup>	70 mm <sup>2</sup>
	I <sub>nc</sub> (A)	125	125	125	122	119	115
NSX160 (1) TMD-TMG	Size per phase	95 mm <sup>2</sup>	95 mm <sup>2</sup>	95 mm <sup>2</sup>	95 mm <sup>2</sup>	95 mm <sup>2</sup>	95 mm <sup>2</sup>
	I <sub>nc</sub> (A)	160	160	160	156	152	148
NSX250 (1) TMD-TMG	Size per phase	120 mm <sup>2</sup>	120 mm <sup>2</sup>	120 mm <sup>2</sup>	120 mm <sup>2</sup>	120 mm <sup>2</sup>	120 mm <sup>2</sup>
	I <sub>nc</sub> (A)	250	244	238	231	225	219
NSX100 STR	Size per phase	50 mm <sup>2</sup>	50 mm <sup>2</sup>	50 mm <sup>2</sup>	50 mm <sup>2</sup>	50 mm <sup>2</sup>	50 mm <sup>2</sup>
	I <sub>nc</sub> (A)	100	100	100	100	100	100
NSX160 STR	Size per phase	95 mm <sup>2</sup>	95 mm <sup>2</sup>	95 mm <sup>2</sup>	95 mm <sup>2</sup>	95 mm <sup>2</sup>	95 mm <sup>2</sup>
	I <sub>nc</sub> (A)	160	160	160	160	160	160
NSX250 (2) STR	Size per phase	120 mm <sup>2</sup>	120 mm <sup>2</sup>	120 mm <sup>2</sup>	120 mm <sup>2</sup>	120 mm <sup>2</sup>	120 mm <sup>2</sup>
	I <sub>nc</sub> (A)	250	245	237	230	225	220
<b>IP &gt; 31</b>							
NSX100 TMD-TMG	Size per phase	50 mm <sup>2</sup>	50 mm <sup>2</sup>	50 mm <sup>2</sup>	50 mm <sup>2</sup>	50 mm <sup>2</sup>	50 mm <sup>2</sup>
	I <sub>nc</sub> (A)	100	100	100	97.5	95	92.5
NSX125 TMD-TMG	Size per phase	70 mm <sup>2</sup>	70 mm <sup>2</sup>	70 mm <sup>2</sup>	70 mm <sup>2</sup>	70 mm <sup>2</sup>	70 mm <sup>2</sup>
	I <sub>nc</sub> (A)	125	125	125	122	119	115
NSX160 (1) TMD-TMG	Size per phase	95 mm <sup>2</sup>	95 mm <sup>2</sup>	95 mm <sup>2</sup>	95 mm <sup>2</sup>	95 mm <sup>2</sup>	95 mm <sup>2</sup>
	I <sub>nc</sub> (A)	160	160	160	156	152	148
NSX250 (1) TMD-TMG	Size per phase	120 mm <sup>2</sup>	120 mm <sup>2</sup>	120 mm <sup>2</sup>	120 mm <sup>2</sup>	120 mm <sup>2</sup>	120 mm <sup>2</sup>
	I <sub>nc</sub> (A)	237	230	225	220	215	210
NSX100 STR	Size per phase	50 mm <sup>2</sup>	50 mm <sup>2</sup>	50 mm <sup>2</sup>	50 mm <sup>2</sup>	50 mm <sup>2</sup>	50 mm <sup>2</sup>
	I <sub>nc</sub> (A)	100	100	100	100	100	100
NSX160 STR	Size per phase	95 mm <sup>2</sup>	95 mm <sup>2</sup>	95 mm <sup>2</sup>	95 mm <sup>2</sup>	95 mm <sup>2</sup>	95 mm <sup>2</sup>
	I <sub>nc</sub> (A)	160	160	160	160	160	160
NSX250 (2) STR	Size per phase	120 mm <sup>2</sup>	120 mm <sup>2</sup>	120 mm <sup>2</sup>	120 mm <sup>2</sup>	120 mm <sup>2</sup>	120 mm <sup>2</sup>
	I <sub>nc</sub> (A)	237	230	225	220	215	210

(1) For a withdrawable NSX160/250 equipped with a Vigi or NSX Vigi 160/250 (ELCB) or an insulation-monitoring module, multiply the I<sub>n</sub> values by 0.9.

(2) For a withdrawable NSX250 equipped with a Vigi or NSX Vigi 250 (ELCB) or an insulation-monitoring module, multiply the I<sub>n</sub> values by 0.86.

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

**Note:** Schneider Electric recommends connecting ComPacT NSX400/630 circuit breakers with insulated flexible bars or rigid bars > page I-41.

Designing connections  $\leq 630$  A

ComPacT circuit breakers NSXm up to 160

Copper cable

Electrical characteristics

## ComPacT NSXm up to 160

Copper cable, withstand temperature = 105°C

Devices		Permissible current (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
<b>IP <math>\leq 31</math></b>							
NSXm100	Size per phase (mm <sup>2</sup> )	50	50	50	50	50	50
	I <sub>nc</sub> (A)	100	100	96	94	90	87
NSXm125	Size per phase (mm <sup>2</sup> )	70	70	70	70	70	70
	I <sub>nc</sub> (A)	125	125	120	117	113	109
NSXm160	Size per phase (mm <sup>2</sup> )	95	95	95	95	95	95
	I <sub>nc</sub> (A)	160	155	149	144	139	133
NSXm 100 ELCB	Size per phase (mm <sup>2</sup> )	50	50	50	50	50	50
	I <sub>nc</sub> (A)	100	100	100	100	96	93
NSXm 160 ELCB	Size per phase (mm <sup>2</sup> )	95	95	95	95	95	95
	I <sub>nc</sub> (A)	160	155	150	145	140	135
<b>IP &gt; 31</b>							
NSXm100	Size per phase (mm <sup>2</sup> )	50	50	50	50	50	50
	I <sub>nc</sub> (A)	100	100	96	94	90	87
NSXm125	Size per phase (mm <sup>2</sup> )	70	70	70	70	70	70
	I <sub>nc</sub> (A)	125	120	117	113	109	104
NSXm160	Size per phase (mm <sup>2</sup> )	95	95	95	95	95	95
	I <sub>nc</sub> (A)	160	155	149	144	139	133
NSXm 100 ELCB	Size per phase (mm <sup>2</sup> )	50	50	50	50	50	50
	I <sub>nc</sub> (A)	100	100	100	100	96	93
NSXm 160 ELCB	Size per phase (mm <sup>2</sup> )	95	95	95	95	95	95
	I <sub>nc</sub> (A)	160	155	150	145	140	135

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

# Designing cable connections

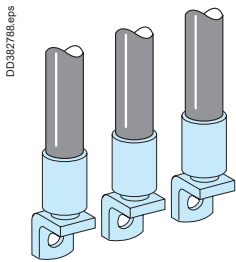
## Tubular lugs

### Electrical characteristics

#### 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 ComPacT NSX-INS-INV250 supplied via the top or the bottom, cat. no. LVS04066 and LVS04067	150 mm <sup>2</sup>	240 mm <sup>2</sup>	185 mm <sup>2</sup>
In-duct incoming connection block for ComPacT NSX630 supplied via the top or the bottom cat. no. LVS04076	240 mm <sup>2</sup>	300 mm <sup>2</sup>	300 mm <sup>2</sup>



DD382788.eps

#### Narrow bimetal lugs

##### Cat. no. selection

Cat. no.	Cable size (mm <sup>2</sup> )	Quantity
<b>Lugs for aluminium cable (1)</b>		
29504	150	3
29505	150	4
29506	185	3
29507	185	4
32504	240	3
32505	240	4
32506	300	3
32507	300	4

#### Customer connection of devices $\geq 630$ A

Maximum size and number of cables for connection to terminal extension bars (according to busbar drawing supplied) for customer connection of ComPacT NSX and MasterPact MTZ1 /MTZ2 and NT devices.

	Cable size (mm <sup>2</sup> )	Quantity
<b>Size and number of cables</b>		
Copper lugs	300	12
Bimetal lugs	240	12

(1) Supplied with 2 or 3 interphase barriers.

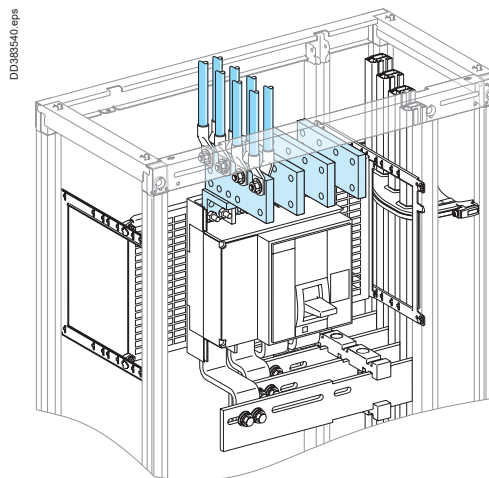
# Designing customer connections

## Prefabricated connections for ComPacT NS630b to NS1600

### Electrical characteristics

#### ComPacT NS630b to NS1600

- Vertical mounting
- Front or rear connection
- Incoming via top or bottom



Using the data below, it is possible to determine the permissible current for a prefabricated connection between a vertical ComPacT NS630b/NS1600, fixed or withdrawable, and Linergy busbars depending on the ambient temperature around the switchboard and the IP value.

#### Fixed

##### Prefabricated connections

Device and cat. no.	Permissible current (A)												
	Ambient temperature around the switchboard												
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NS630b 3P cat. no. <b>33642</b>	630	630	630	630	630	630	630	630	630	630	630	630	■
4P cat. no. <b>33643</b>													
NS800 3P cat. no. <b>33642</b>	800	800	800	800	800	800	800	800	800	800	800	800	■
4P cat. no. <b>33643</b>													
NS1000 3P cat. no. <b>33642</b>	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	■
4P cat. no. <b>33643</b>													
NS1250 3P réf. <b>33642 + 33644</b>	1250	1250	1250	1250	1250	1250	1250	1200	1250	1150	1200	1200	■
4P réf. <b>33643 + 33645</b>													
NS1600 3P réf. <b>33642 + 33644</b>	1600	1550	1600	1500	1550	1450	1500	1400	1450	1350	1400	1400	■
4P réf. <b>33643 + 33645</b>													

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

#### Withdrawable

##### Prefabricated connections

Device and cat. no.	Permissible current (A)												
	Ambient temperature around the switchboard												
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NS630b 3P cat. no. <b>33642</b>	630	630	630	630	630	630	630	630	630	630	630	630	■
4P cat. no. <b>33643</b>													
NS800 3P cat. no. <b>33642</b>	800	800	800	800	800	800	800	800	800	800	800	800	■
4P cat. no. <b>33643</b>													
NS1000 3P cat. no. <b>33642</b>	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	■
4P cat. no. <b>33643</b>													
NS1250 3P réf. <b>33642 + 33644</b>	1250	1250	1250	1250	1250	1250	1250	1200	1250	1150	1200	1200	■
4P réf. <b>33643 + 33645</b>													
NS1600 3P réf. <b>33642 + 33644</b>	1560	1480	1520	1430	1480	1380	1430	1330	1380	1280	1330	1330	■
4P réf. <b>33643 + 33645</b>													

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

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

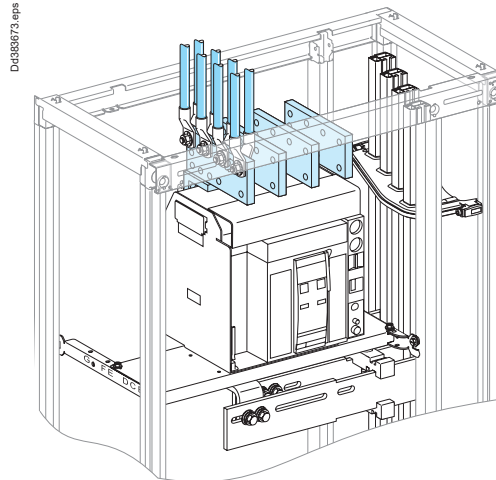
# Designing customer connections

## Prefabricated connections for MasterPact 06-16

### Electrical characteristics

#### MasterPact MTZ1 06 to 16

- Vertical mounting
- Front or rear connection
- Incoming via top or bottom



Using the data below, it is possible to determine the permissible current for a prefabricated connection between a vertical MasterPact MTZ1 06/16, fixed or drawout, and Linergy busbars depending on the ambient temperature around the switchboard and the IP value.

#### Fixed

##### Prefabricated connections

Device and cat. no.		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NT06	3P cat. no. <b>33642</b>	630	630	630	630	630	630	630	630	630	630	630	630	■
	4P cat. no. <b>33643</b>													
NT08	3P cat. no. <b>33642</b>	800	800	800	800	800	800	800	800	800	800	800	800	■
	4P cat. no. <b>33643</b>													
NT10	3P cat. no. <b>33642</b>	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	■
	4P cat. no. <b>33643</b>													
NT12	3P réf. <b>33642 + 33644</b>	1250	1250	1250	1250	1250	1250	1250	1200	1250	1150	1200	■	
	4P réf. <b>33643 + 33645</b>													
NT16	3P réf. <b>33642 + 33644</b>	1600	1570	1600	1520	1570	1470	1520	1420	1470	1370	1420	■	
	4P réf. <b>33643 + 33645</b>													

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

#### Withdrawable

##### Prefabricated connections

Device and cat. no.		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NT06	3P cat. no. <b>33642</b>	630	630	630	630	630	630	630	630	630	630	630	630	■
	4P cat. no. <b>33643</b>													
NT08	3P cat. no. <b>33642</b>	800	800	800	800	800	800	800	800	800	800	800	800	■
	4P cat. no. <b>33643</b>													
NT10	3P cat. no. <b>33642</b>	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	■
	4P cat. no. <b>33643</b>													
NT12	3P réf. <b>33642 + 33644</b>	1250	1250	1250	1250	1250	1250	1250	1200	1250	1150	1200	■	
	4P réf. <b>33643 + 33645</b>													
NT16	3P réf. <b>33642 + 33644</b>	1560	1480	1520	1430	1480	1380	1430	1330	1380	1280	1330	■	
	4P réf. <b>33643 + 33645</b>													

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

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

# Designing customer connections

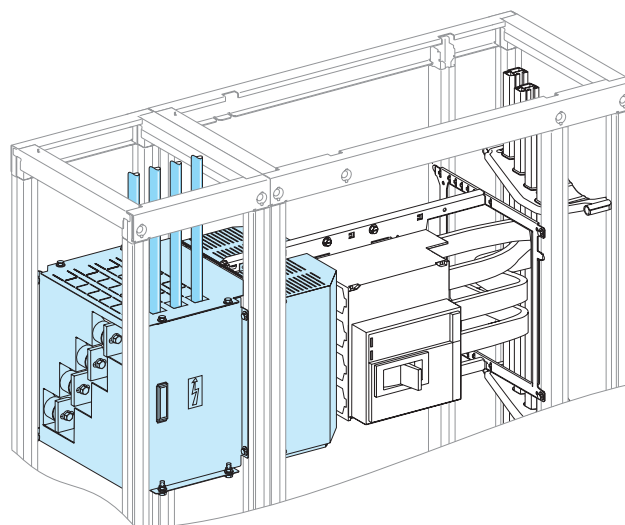
## Connection transfer assembly for fixed ComPacT NS630b to NS1000

### Electrical characteristics

#### ComPacT NS630b to NS1000, fixed

- Horizontal mounting
- Front or rear connection
- Installation on the left or right

D16383541 eps



Using the data below, it is possible to determine the permissible current for a prefabricated connection between a horizontal, fixed ComPacT NS630b/NS1000 and Linergy busbars depending on the ambient temperature around the switchboard and the IP value.

#### Connection transfer assemblies

Device and cat. no.		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
NS630b	3P cat. no. <b>LVS04483</b>	630	630	630	630	630	630	630	630	630	630	630	■
	4P cat. no. <b>LVS04484</b>												
NS800	3P cat. no. <b>LVS04483</b>	800	800	800	800	800	800	800	800	800	800	800	■
	4P cat. no. <b>LVS04484</b>												
NS1000	3P cat. no. <b>LVS04483</b>	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	■
	4P cat. no. <b>LVS04484</b>												

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

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

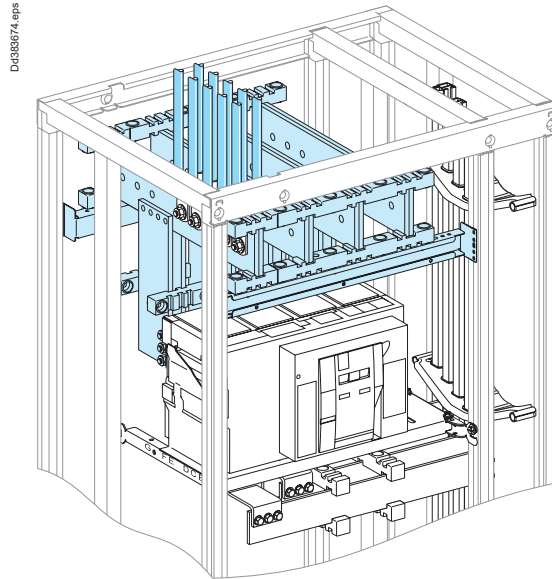
# Designing customer connections

## Fixed MasterPact 08-16

### Electrical characteristics

#### MasterPact MTZ2 08 to 16 Fixed

- Vertical mounting
- Front or rear connection
- Incoming via top or bottom
- Busbar drawings supplied by Schneider Electric



Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making a front or rear customer connection for a vertical, fixed MasterPact MTZ1 06/16, taking into account the ambient temperature around the switchboard and the IP value. Connection to be made according to the busbar drawings supplied. For connection cable cross-sections and quantities > [page I-44](#).

#### Customer connection

Flat bars, 5 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
NW08	Size per phase	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	
NW10	Size per phase	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
NW12	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	
NW16	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	■
	I (A)	1600	1600	1600	1570	1600	1520	1570	1470	1520	1420	1470	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

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

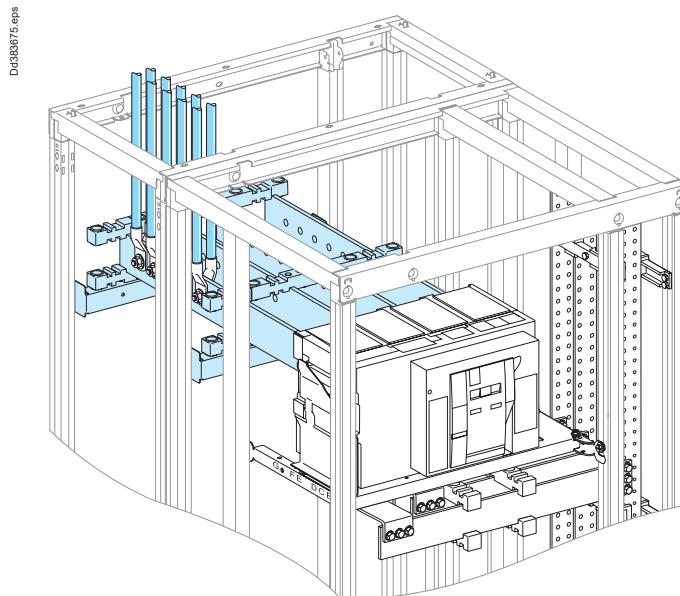
# Designing customer connections

## Fixed MasterPact 08-40

### Electrical characteristics

#### MasterPact MTZ2 08 to 40 Fixed

- Vertical mounting
- Front or rear connection
- Incoming via top or bottom
- Busbar drawings supplied by Schneider Electric



#### Customer connection

Flat bars, 10 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
NW08	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800
NW10	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
NW12	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10
	I (A)	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250
NW16	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10
	I (A)	1600	1600	1600	1570	1600	1520	1570	1470	1520	1420	1470	1470
NW20	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10
	I (A)	2000	2000	2000	2000	2000	2000	2000	1950	2000	1900	1950	1950
NW25	Size per phase	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10	2b 100 x 10
	I (A)	2500	2500	2500	2500	2500	2460	2500	2380	2500	2300	2460	2460
NW32	Size per phase	2b 120 x 10	2b 120 x 10	2b 120 x 10	2b 120 x 10	2b 120 x 10	2b 120 x 10	2b 120 x 10	2b 120 x 10	2b 120 x 10	2b 120 x 10	2b 120 x 10	2b 120 x 10
	I (A)	3200	3000	3170	2910	3080	2820	3000	2730	2910	2630	2820	2820
NW40	Size per phase	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	■
	I (A) (1)												

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

#### Canalis connection

For Canalis connections, apply the appropriate derating coefficient K.

Device	NW08	NW10	NW12	NW16	NW20	NW25	NW32	NW40
Derating coefficient K	1	1	1	0,98	0,98	0,97	0,97	(2)

(1) For NW40 IP > 31, performances realized with forced ventilation.

(2) Contact Schneider Electric for 4000 A dedicated cubicle.

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

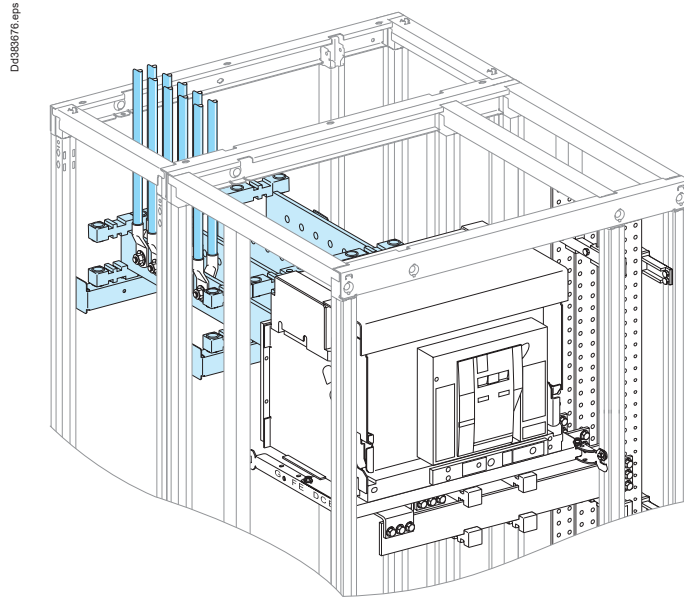
# Designing customer connections

## Drawout MasterPact 08-16

### Electrical characteristics

#### MasterPact MTZ2 08 to 16 Drawout

- Vertical mounting
- Front or rear connection
- Incoming via top or bottom
- Busbar drawings supplied by Schneider Electric



Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making a front or rear customer connections to busbars for a vertical, drawout MasterPact MTZ1 08/16, taking into account the ambient temperature around the switchboard and the IP value. Connection to be made according to the busbar drawings supplied. For connection cable cross-sections and quantities > [page I-44](#).

#### Customer connection

Flat bars, 5 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
NW08	Size per phase	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800
NW10	Size per phase	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
NW12	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5
	I (A)	1250	1250	1250	1250	1250	1230	1250	1200	1230	1160	1200	1200
NW16	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5
	I (A)	1560	1480	1520	1430	1480	1380	1430	1330	1380	1280	1330	1330

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

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

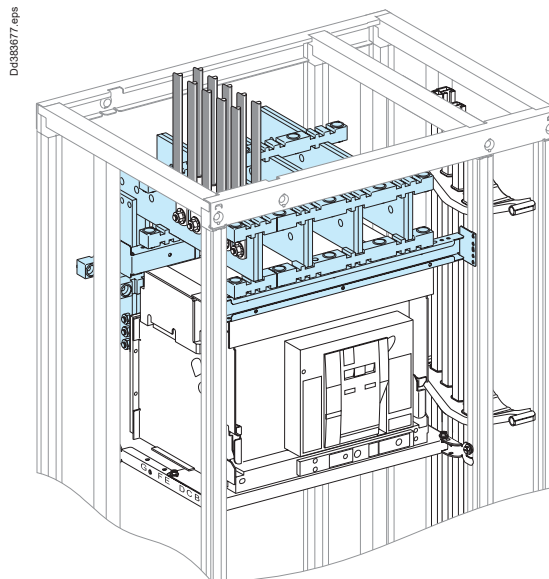
# Designing customer connections

## MasterPact 08-40 withdrawable

### Electrical characteristics

#### MasterPact MTZ2 08 to 40 Drawout

- Vertical mounting
- Front or rear connection
- Incoming via top or bottom
- Busbar drawings supplied by Schneider Electric



#### Customer connection

Flat bars, 10 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NW08	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
NW10	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
NW12	Size per phase	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	1b 60 x 10	■
	I (A)	1250	1250	1250	1210	1250	1180	1210	1140	1180	1100	1140		
NW16	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1560	1480	1520	1430	1480	1380	1430	1330	1380	1280	1330		
NW20	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	■
	I (A)	2000	2000	2000	1950	2000	1900	1950	1830	1900	1760	1830		
NW25	Size per phase	2b100 x 10	2b100 x 10	2b100 x 10	2b100 x 10	2b100 x 10	2b100 x 10	2b100 x 10	2b100 x 10	2b100 x 10	2b100 x 10	2b100 x 10	2b100 x 10	■
	I (A)	2470	2280	2410	2210	2350	2140	2280	2070	2210	2000	2140		
NW32	Size per phase	2b120 x 10	2b120 x 10	2b120 x 10	2b120 x 10	2b120 x 10	2b120 x 10	2b120 x 10	2b120 x 10	2b120 x 10	2b120 x 10	2b120 x 10	2b120 x 10	■
	I (A)	2960	2730	2890	2630	2820	2530	2730	2450	2630	2370	2530		
NW40	Size per phase	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	■
	I (A) (1)													

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

#### Canalis connection

For Canalis connections, apply the appropriate derating coefficient K.

Device	NW08	NW10	NW12	NW16	NW20	NW25	NW32
Derating coefficient K	1	1	1	0,98	0,98	0,97	0,97

(1) For NW40 IP >31, performances realized with forced ventilation.

(2) Contact Schneider Electric for 4000 A dedicated cubicle.

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

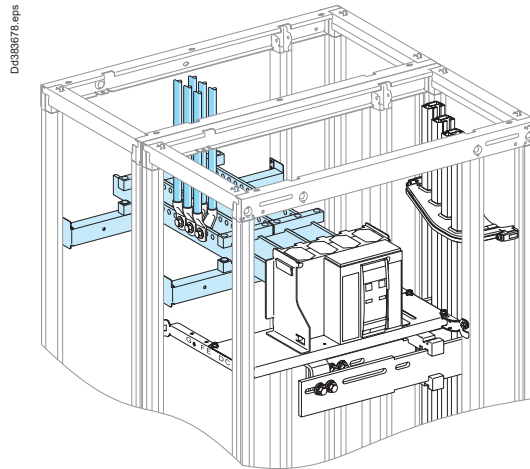
# Designing customer connections

## Fixed MasterPact 06-16

### Electrical characteristics

#### MasterPact MTZ1 06 to 16 Fixed

Rear connection  
Incoming via top or bottom  
Busbar drawings supplied by  
Schneider Electric



Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making a front or rear customer connections to busbars for a vertical, fixed MasterPact MTZ1 06/16, taking into account the ambient temperature around the switchboard and the IP value.  
Connection to be made according to the busbar drawings supplied.  
For connection cable cross-sections and quantities > [page I-44](#).

#### Customer connection

##### Flat bars, 5 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NT06	Size per phase	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	630	
NT08	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
NT10	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
NT12	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1200	1250	
NT16	Size per phase	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	■
	I (A)	1600	1570	1600	1520	1570	1470	1520	1420	1470	1370	1420		

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

#### Customer connection

##### Flat bars, 10 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NT06	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	630	
NT08	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
NT10	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
NT12	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1250	1250	1180	1230		
NT16	Size per phase	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	■
	I (A)	1600	1570	1600	1520	1570	1470	1520	1420	1470	1370	1420		

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

#### Canalis connection

For Canalis connections, apply the appropriate derating coefficient K.

Device	NT06b	NT08	NT10	NT12	NT16
Derating coefficient K	1	1	1	1	0,98

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

# Designing customer connections

## Drawout MasterPact 06-16

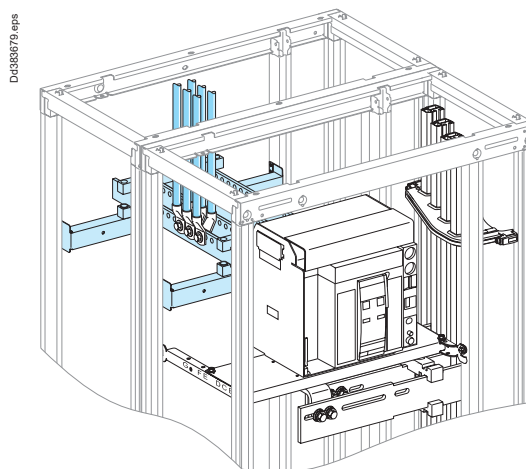
### Electrical characteristics

#### MasterPact MTZ1 06 to 16

Rear connection

Incoming via top or bottom

Busbar drawings supplied by Schneider Electric



Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making a customer connections to busbars for a vertical, drawout MasterPact MTZ1 06/16, taking into account the ambient temperature around the switchboard and the IP value. Connection to be made according to the busbar drawings supplied. For connection cable cross-sections and quantities > page I-44.

### Customer connection

Flat bars, 5 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
NT06	Size per phase	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5
	I (A)	630	630	630	630	630	630	630	630	630	630	630	■
NT08	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5
	I (A)	800	800	800	800	800	800	800	800	800	800	800	■
NT10	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	960	1000	■
NT12	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5
	I (A)	1250	1250	1250	1250	1250	1230	1250	1180	1230	1130	1180	■
NT16	Size per phase	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5
	I (A)	1560	1430	1520	1430	1480	1380	1430	1330	1380	1280	1330	■

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

### Customer connection

Flat bars, 10 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
NT06	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10
	I (A)	630	630	630	630	630	630	630	630	630	630	630	■
NT08	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10
	I (A)	800	800	800	800	800	800	800	800	800	800	800	■
NT10	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	960	1000	■
NT12	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10
	I (A)	1250	1250	1250	1250	1250	1210	1250	1160	1210	1110	1160	■
NT16	Size per phase	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10
	I (A)	1560	1430	1520	1430	1480	1380	1430	1330	1380	1280	1330	■

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

### Canalis connection

For Canalis connections, apply the appropriate derating coefficient K.

Device	NT06	NT08	NT10	NT12	NT16
Derating coefficient K	1	1	1	1	0,98

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

# Designing customer connections

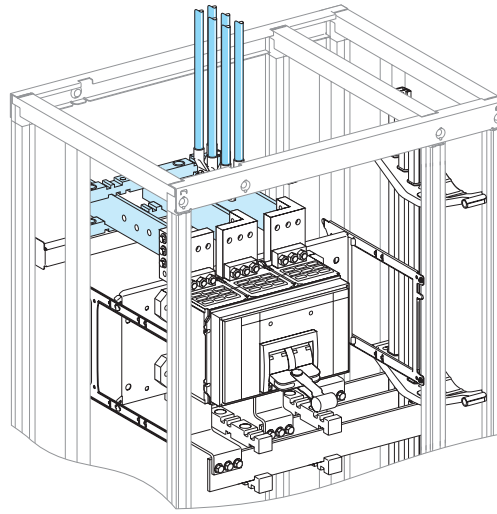
## Fixed ComPacT NS1600b to NS3200

### Electrical characteristics

#### ComPacT NS1600b/3200 fixed

- Front or rear connection
- Incoming via top or bottom
- Busbar drawings supplied by Schneider Electric

Dd383542.eps



Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making a front or rear customer connections to busbars for a vertical, fixed ComPacT NS1600b/NS3200, taking into account the ambient temperature around the switchboard and the IP value. Connection to be made according to the busbar drawings supplied. For connection cable cross-sections and quantities > [page I-44](#).

#### Customer connection

Flat bars, 10 mm thick

Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
NS1600b	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1560	1480	1520	1430	1480	1380	1430	1330	1380	1280	1330	
NS2000	Size per phase	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	2b 80 x 10	■
	I (A)	2000	2000	2000	1950	2000	1900	1950	1830	1900	1760	1830	
NS2500	Size per phase	2b100 x 10	2b100 x 10	2b100 x 10	2b100 x 10	2b100 x 10	2b100 x 10	2b100 x 10	2b100 x 10	2b100 x 10	2b100 x 10	2b100 x 10	■
	I (A)	2470	2280	2410	2210	2350	2140	2280	2070	2210	2000	2140	
NS3200	Size per phase	2b120 x 10	2b120 x 10	2b120 x 10	2b120 x 10	2b120 x 10	2b120 x 10	2b120 x 10	2b120 x 10	2b120 x 10	2b120 x 10	2b120 x 10	■
	I (A)	2860	2630	2790	2530	2720	2430	2630	2350	2530	2270	2430	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

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

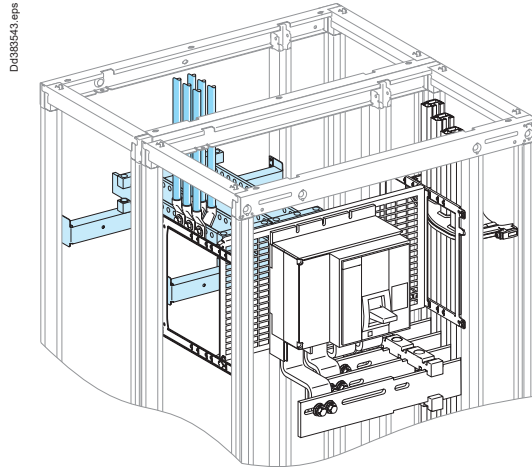
# Designing customer connections

## Fixed ComPacT NS630b to NS1600

### Electrical characteristics

#### ComPacT NS630b to NS1600 Fixed

Rear connection  
Incoming via top or bottom  
Busbar drawings supplied by  
Schneider Electric



Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making a rear customer connection for a vertical, fixed ComPacT NS630b/NS1600, taking into account the ambient temperature around the switchboard and the IP value.  
Connection to be made according to the busbar drawings supplied.  
For connection cable cross-sections and quantities > page I-44.

#### Customer connection

##### Flat bars, 5 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NS630b	Size per phase	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	630	
NS800	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
NS1000	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	970	1000	
NS1250	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1200	1250	1150	1200	1200	
NS1600	Size per phase	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	■
	I (A)	1600	1550	1600	1500	1550	1450	1500	1400	1450	1350	1400	1400	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

#### Customer connection

##### Flat bars, 10 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NS630b	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	630	
NS800	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
NS1000	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	970	1000	1000	
NS1250	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1250	1250	1250	1250	1250	1250	1180	1230	1130	1180	1180	1180	
NS1600	Size per phase	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	■
	I (A)	1600	1550	1600	1500	1550	1450	1500	1400	1450	1350	1400	1400	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

#### Canalis connection

For Canalis connections, apply the appropriate derating coefficient K.

Device	NS630b	NS800	NS1000	NS1250	NS1600
Derating coefficient K	1	1	1	1	0,98

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

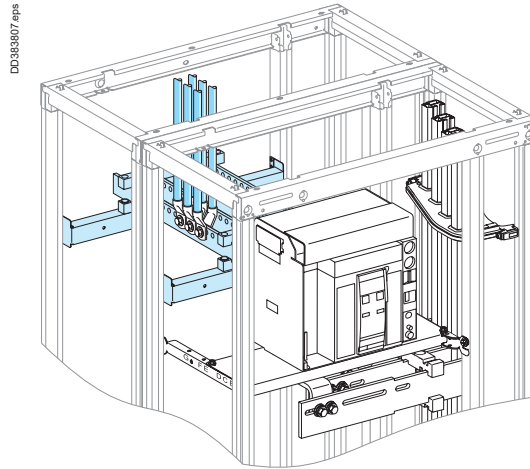
# Designing customer connections

## Withdrawable ComPacT NS630b to NS1600

### Electrical characteristics

#### ComPacT NS630b to NS1600 Withdrawable

Rear connection  
Incoming via top or bottom  
Busbar drawings supplied by  
Schneider Electric



Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making a rear customer connection for a vertical, withdrawable ComPacT NS630b/NS1600, taking into account the ambient temperature around the switchboard and the IP value.  
Connection to be made according to the busbar drawings supplied.  
For connection cable cross-sections and quantities > [page I-44](#).

### Customer connection

#### Flat bars, 5 mm thick

Device	Permissible current (A)	Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
NS630b	Size per phase	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	1b 60 x 5	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	
NS800	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 80 x 5	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	
NS1000	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	960	1000	
NS1250	Size per phase	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	2b 80 x 5	■
	I (A)	1250	1250	1250	1250	1250	1230	1250	1180	1230	1130	1180	
NS1600	Size per phase	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	2b 100 x 5	■
	I (A)	1560	1430	1520	1430	1480	1380	1430	1330	1380	1280	1330	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

### Customer connection

#### Flat bars, 10 mm thick

Device	Permissible current (A)	Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
NS630b	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	
NS800	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	
NS1000	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	960	1000	
NS1250	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 10	■
	I (A)	1250	1250	1250	1250	1250	1210	1250	1160	1210	1110	1160	
NS1600	Size per phase	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	1b100 x 10	■
	I (A)	1560	1430	1520	1430	1480	1380	1430	1330	1380	1280	1330	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

### Canalis connection

For Canalis connections, apply the appropriate derating coefficient K.

Device	NS630b	NS800	NS1000	NS1250	NS1600
Derating coefficient K	1	1	1	1	0,98

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

# Designing customer connections

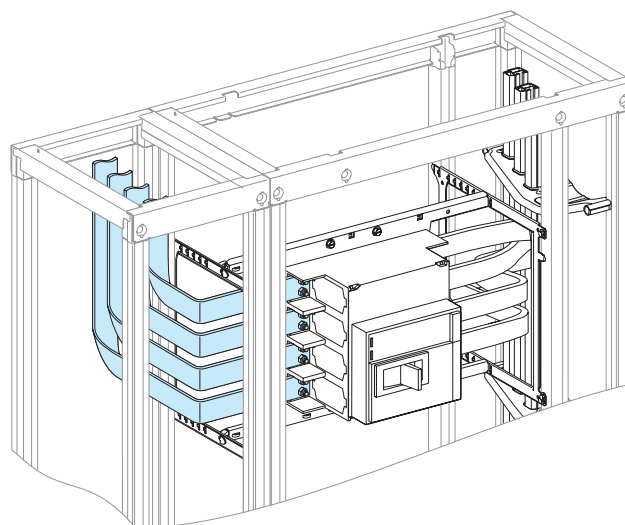
## Fixed ComPacT NS630b to NS1000 Horizontal mounting

### Electrical characteristics

#### ComPacT NS630b to NS1000

- Horizontal mounting
- Front connection
- Incoming via top or bottom
- Installation on the left or right

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Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making the connections to busbars for a horizontal, fixed ComPacT NS630b/NS1600, taking into account the ambient temperature around the switchboard and the IP value. Connection to be made according to the busbar drawings supplied.

### Customer connection

#### Flat bars, 5 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NS630b	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	630	
NS800	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
NS1000	Size per phase	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	2b 50 x 5	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

#### Flat bars, 10 mm thick

Device		Permissible current (A)												
		Ambient temperature around the switchboard												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
		1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
NS630b	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	630	630	630	630	630	630	630	630	630	630	630	630	
NS800	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
NS1000	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

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

## Designing busbars

### FuPact GS, ISFT, ISFL Linergy BS busbars

#### Electrical characteristics

#### Permissible current and selection of horizontal Linergy BS busbars

The goal is to optimise busbar size according to the installation and operating criteria.

#### Horizontal Linergy BS busbars

##### FuPact GS/ISFT/ISFL

##### Linergy BS bars, 5 mm thick

Type of bars	Permissible current (A)											
	Ambient temperature around the switchboard											
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
Size per phase	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
1 Linergy BS bar, 60 x 5	800	750	760	700	710	650	660	600	610	550	560	■
1 Linergy BS bar, 80 x 5	1000	910	970	860	910	810	860	750	810	700	750	■
2 Linergy BS bars, 60 x 5	1400	1250	1320	1160	1250	1070	1160	980	1070	880	980	■
2 Linergy BS bars, 80 x 5	1700	1500	1600	1400	1500	1280	1400	1160	1280	1030	1160	■

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

##### Linergy BS bars, 10 mm thick

Type of bars	Permissible current (A)											
	Ambient temperature around the switchboard											
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
Size per phase	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
1 Linergy BS bar, 50 x 10	1150	1000	1080	930	1000	850	930	760	850	670	760	■
1 Linergy BS bar, 60 x 10	1400	1250	1320	1160	1250	1070	1160	980	1070	880	980	■
1 Linergy BS bar, 80 x 10	1700	1500	1600	1400	1500	1280	1400	1160	1280	1030	1160	■
2 Linergy BS bars, 50 x 10	1940	1690	1840	1560	1700	1420	1560	1270	1420	1100	1270	■
2 Linergy BS bars, 60 x 10	2170	1900	2040	1750	1900	1590	1750	1420	1590	1240	1420	■
2 Linergy BS bars, 80 x 10	2670	2340	2500	2160	2340	1970	2160	1770	1970	1550	1770	■
2 Linergy BS bars, 100 x 10	3120	2750	2930	2520	2750	2310	2520	2070	2310	1820	2070	■

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

#### Rear horizontal Linergy BS bars

##### FuPact ISFT/ISFL

##### Linergy BS bars, 10 mm thick

Device	Size per phase	Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
ISFT 160	1 bar Linergy BS 30 x 10	730	680	680	630	630	570	570	510	510	450	450	■
ISFL 160	1 bar Linergy BS 60 x 10	1400	1250	1320	1160	1250	1070	1160	980	1070	880	980	■
	1 bar Linergy BS 80 x 10	1700	1500	1600	1400	1500	1280	1400	1160	1280	1030	1160	■
ISFL 250/400/630	1 bar Linergy BS 80 x 10	1700	1500	1600	1400	1500	1280	1400	1160	1280	1030	1160	■
	1 bar Linergy BS 100 x 10	2050	1800	1930	1680	1800	1540	1680	1400	1540	1240	1400	■
	1 bar Linergy BS 120 x 10	2390	2100	2250	1950	2100	1800	1950	1630	1800	1440	1630	■

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

## Designing busbars

FuPact GS, ISFT Vertical Linergy LGYE, LGY busbars

### Electrical characteristics

#### Permissible current and selection of Linergy LGYE busbars

The goal is to optimise busbar size according to the installation and operating criteria.

#### Vertical Linergy LGYE busbars

##### FuPact GS/ISFT

Type of bars	Permissible current (A)											
	Ambient temperature around the switchboard											
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
Size per phase	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
Linergy LGYE 630	650	550	630	510	590	480	550	460	530	440	460	■
Linergy LGYE 800	840	720	800	700	760	660	720	610	680	580	640	■
Linergy LGYE 1000	1040	900	990	870	950	830	900	770	850	730	800	■
Linergy LGYE 1250	1290	1120	1230	1080	1170	1030	1100	970	1050	910	980	■
Linergy LGYE 1600	1580	1390	1480	1320	1390	1250	1320	1180	1250	1110	1180	■
Linergy LGYE 2000	1900	1720	1820	1620	1720	1520	1620	1420	1520	1320	1420	■
Linergy LGYE 2500	2290	1890	2190	1840	2070	1770	1960	1680	1880	1590	1780	■
Linergy LGYE 3200	3060	2780	2920	2640	2780	2500	2640	2360	2500	2220	2360	■
Linergy LGYE 4000	3320	3050	3240	2950	3140	2850	2970	2700	2800	2540	2650	■

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

#### Lateral Linergy LGY busbars

##### FuPact GS/ISFT

Type of bars	Permissible current (A)											
	Ambient temperature around the switchboard											
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
Size per phase	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
Linergy LGY 630	680	590	630	550	590	530	550	500	530	460	460	■
Linergy LGY 800	840	760	800	720	760	680	720	640	680	600	640	■
Linergy LGY 1000	1040	950	990	900	950	850	900	800	850	750	800	■
Linergy LGY 1250	1290	1170	1230	1100	1170	1030	1100	970	1050	910	980	■
Linergy LGY 1600	1580	1390	1480	1320	1390	1250	1320	1180	1250	1110	1180	■
Linergy LGY 2000 (2 x 1000)	1900	1720	1820	1620	1720	1520	1620	1420	1520	1320	1420	■
Linergy LGY 2500 (2 x 1250)	2380	2120	2260	2020	2120	1900	2020	1780	1900	1660	1780	■
Linergy LGY 3200 (2 x 1600)	3060	2780	2920	2640	2780	2500	2640	2360	2500	2220	2360	■

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

# Designing busbars

## FuPact GS, ISFT Vertical Linergy BS busbars

### Electrical characteristics

#### Lateral Linergy BS busbars

##### FuPact GS/ISFT

##### Linergy BS bars, 5 mm thick

Type of bars	Permissible current (A)											
	Ambient temperature around the switchboard											
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
Size per phase	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
1 Linergy BS bar, 60 x 5	800	750	760	700	710	650	660	600	610	550	560	■
1 Linergy BS bar, 80 x 5	1000	910	970	860	910	810	860	750	810	700	750	■
2 Linergy BS bars, 60 x 5	1400	1250	1320	1160	1250	1070	1160	980	1070	880	980	■
2 Linergy BS bars, 80 x 5	1700	1500	1600	1400	1500	1280	1400	1160	1280	1030	1160	■

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

##### Linergy BS bars, 10 mm thick

Type of bars	Permissible current (A)											
	Ambient temperature around the switchboard											
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
Size per phase	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
1 Linergy BS bar, 50 x 10	1150	1000	1080	930	1000	850	930	760	850	670	760	■
1 Linergy BS bar, 60 x 10	1400	1250	1320	1160	1250	1070	1160	980	1070	880	980	■
1 Linergy BS bar, 80 x 10	1700	1500	1600	1400	1500	1280	1400	1160	1280	1030	1160	■
2 Linergy BS bars, 50 x 10	1940	1690	1810	1560	1700	1420	1560	1270	1420	1100	1270	■
2 Linergy BS bars, 60 x 10	2170	1900	2040	1750	1900	1590	1750	1420	1590	1240	1420	■
2 Linergy BS bars, 80 x 10	2670	2340	2500	2160	2340	1970	2160	1770	1970	1550	1770	■
2 x 1 Linergy BS bar, 80 x 10	3020	2650	2840	2450	2650	2230	2450	2010	2230	1760	2010	■

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

## Designing connections ≤630A

### TransferPacT Active Automatic/Automatic/Remote 250A & 630A

Insulated flexible copper bars <sup>(1)</sup>

Electrical characteristics

#### TransferPacT 250A & 630A

Insulated flexible copper bars (withstand temperature = 125 °C)

We recommend insulated flexible copper bars for TransferPacT 250A & 630A.

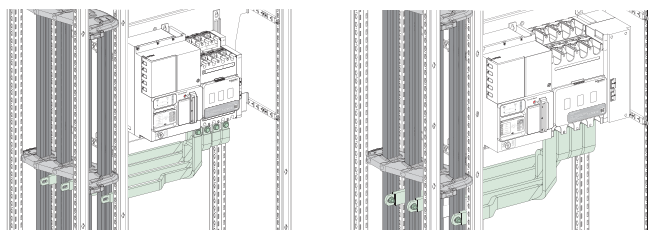
Vertical Mounting

Front Connection

Incoming Top Connection - Cable

Outgoing Bottom Connection - Flexible Busbar

Installation on the left or right LGY/LGYE



#### Outgoing connection

##### Flexible Busbar Flat 3 mm (250A) & 8 mm (630A) Thick

Device	Permissible current (A)												
	Ambient temperature around the switchboard												
	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
Cable Size	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
TransferPacT 250A	Size per phase (mm <sup>2</sup> )	1b 20X3	1b 20X3	1b 20X3	1b 20X3	1b 20X3	1b 20X3	1b 20X3	1b 20X3	1b 20X3	1b 20X3	1b 20X3	1b 20X3
	I(A)	250	250	250	250	250	240	250	230	240	220	225	208
TransferPacT 630A	Size per phase (mm <sup>2</sup> )	1b 32X8	1b 32X8	1b 32X8	1b 32X8	1b 32X8	1b 32X8	1b 32X8	1b 32X8	1b 32X8	1b 32X8	1b 32X8	1b 32X8
	I(A)	580	545	565	525	545	505	525	490	505	475	490	430

**Note:** The values indicated above have been validated for PrismaSeT P switchboards.

**(1)** We recommend insulated flexible copper bars instead of copper cable for TransferPacT 250A to 630A outgoing connection.

# 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)
- ...

**PrismaSeT P switchboards are designed for indoor installation.**

Unless the rules, standards and regulations of a specific country stipulate otherwise, Schneider Electric recommends the following IP and IK values based on French guide UTE C 15-103 (March 2004).

### Using the table

- 1 Opposite the relevant premises, read the recommended IP and IK values.
- 2 The ■ symbol indicates the enclosure or cubicle satisfying the criteria of the UTE guide.  
Any enclosure or cubicle with a higher degree of protection can also be used.
- 3 If several degrees of protection are possible (refer to the standard for more details) and the □ and ■ symbols are indicated (e.g. 24<sup>□</sup>/25<sup>■</sup>), enclosures that correspond to the higher degree of protection (■) are suitable for the lower degree of protection (□).

Type of premises	Enclosure						
	Cubicle		with fixed frame	with door + IP30 cover	with door + gasket + IP30 cover	with door + IP55 cover	
	Min. IP/IK required	IP30/IK07					IP30/IK08
IP	IK						
<b>Domestic or comparable premises or locations</b>							
Porch	24	07					■
Bathrooms (see washrooms)							
Bicycles, motorcycles, tricycles, etc. (premises for)	20	07	■				
Water, sewer and heating connections	23	02				■	
Laundries	21	02			■		
Cellars, garages, furnace rooms	20	02/07	■				
Bedrooms	20	02	■				
Trash rooms	25	07					■
Halls in cellars	20	07					
Courtyards	24/25	02/07					■
Kitchens	20	02	■				
Shower rooms (see washrooms)							
Indoor stairways and alleys	20	02/07	■				
Outdoor stairways and outdoor alleys without roofs	24	07					
Outdoor alleys with roofs	21	02			■		
Attics (roof space)	20	02	■				
Garden shelters	24/25	02/07					■
Latrines	20	02	■				
Dustbin rooms	25	02/07					■
Ironing room	20	02	■				
Access ramps to garages	25	07					■

■ No applicable

# Selection of enclosures according to the premises

## Enclosure characteristics

Type of premises		Enclosure							
		Cubicle		with fixed frame	with door + IP30 cover	with door + gasket + IP30 cover	with door + IP55 cover		
		Min. IP/IK required		IP30/IK07	IP30/IK08	IP31/IK08	IP43/IK08	IP55/IK10	
		IP	IK						
Washrooms, rooms containing a bathtub or shower	volume 0	27	02						
	volume 1	24	02					■	
	volume 2	23	02				■		
	volume 3	21	02			■			
Lounges, living rooms, etc		20	02	■					
Drying rooms		21	02			■			
Covered terraces		21	02			■			
WCs		20	02	■					
Verandas		20	02	■					
Crawl spaces		23	07						
<b>Commercial premises and adjoining areas</b>									
Gunsmiths (storage area, workshop)		30	08		■				
Laundries (wash room)		24	07					■	
Butchers	shop	24	07					■	
	cold room ≤ -10 °C	23	07				■		
Bakers, cake shops (kitchens)		50	07					■	
Coffee roasters		21	02			■			
Coal, wood, oil		20	08		■				
Delicatessen (production)		24	07					■	
Sweets (production)		20	02	■					
Shoe repair shops		20	02	■					
Dairies		24	02					■	
Hardware stores (storage areas for chemicals and paint)		33	07				■		
Wood workers		50	07					■	
Art galleries		20	02/07	■					
Florists		24	07					■	
Furriers		20	07	■					
Fruit and vegetable merchants		24	07					■	
Grain shops		50	07					■	
Bookshops, stationers		20	02	■					
Motorcycle and bicycle repairs and accessories		20	08		■				
Messenger services		20	08		■				
Furniture shops (antiques, secondhand)		20	07	■					
Glass and mirror merchants (workshop)		20	07	■					
Wallpaper shop (storage area)		20	07	■					
Cosmetics shop (storage area)		20	02	■					
Chemists (storage area)		20	02	■					
Photographers (dark room)		23	02				■		
Plumbers (storage area)		20	08		■				
Fishmongers		25	07					■	
Dry cleaners		23	02				■		
Hardware stores (without paint, chemicals, etc.)		20	07	■					
Locksmiths		20	07 <sup>2</sup> /08 <sup>a</sup>	■	■				
Vintners, spirits		20	07	■					
Interior decorator (carding)		50	07					■	
Tailors, clothing retailers (storage area)		20	02	■					
Pet care		35	07					■	

No applicable

# Selection of enclosures according to the premises

## Enclosure characteristics

Type of premises		Enclosure						
		Cubicle		with fixed frame	with door + IP30 cover	with door + gasket + IP30 cover	IP43/IK08	with door + IP55 cover
		Min. IP/IK required	IP30/IK07	IP30/IK08	IP31/IK08	IP55/IK10		
		IP	IK					
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		■		
		scenery storage rooms	20	08		■		
		costume rooms	20	07	■			
M	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	■			
			20	02	■			
T	Exhibitions	halls and rooms	20	02	■			
		areas for reception of equipment and merchandise	20	07	■			
U	Healthcare establishments	bedrooms	20	02	■			
		incineration	21	07/08			■	
		operating rooms	20	07	■			
		centralised sterilisation	24	02/07				■
	pharmacies and labs with more than 10 l of inflammable liquids	21 <sup>2</sup> /23 <sup>2</sup>	02 <sup>2</sup> /07 <sup>2</sup>			■	■	
V	Places of worship	20	02	■				
W	Administrative premises, banks	20	02	■				
X	Indoor sports facilities	halls	20	07 <sup>2</sup> /08 <sup>2</sup>	■	■		
		premises containing refrigeration facilities	21	08			■	
Y	Museums	20	02	■				
PA	Covered open air facilities	23 <sup>2</sup> /25 <sup>2</sup>	08 <sup>2</sup> /10 <sup>2</sup>				■	
CTS	Marquees and tents	44	08				■	
SG	Inflatable structures	44	08				■	
PS	Covered parking lots	21	08 <sup>2</sup> /10 <sup>2</sup>			■	■	

# Selection of enclosures according to the premises

## Enclosure characteristics

Type of premises	Enclosure						
	Cubicle		with fixed frame	with door + IP30 cover	with door + gasket + IP30 cover		with door + IP55 cover
	Min. IP/IK required		IP30/IK07	IP30/IK08	IP31/IK08	IP43/IK08	IP55/IK10
	IP	IK					
<b>Technical premises</b>							
Battery rooms	23	02/07				■	
Lifts (machine rooms and pulley rooms)	20	07 <sup>□</sup> /08 <sup>■</sup>	■	■			
Electrical rooms	20	07	■				
Control rooms	20	02	■				
Workshops	21 <sup>□</sup> /23 <sup>■</sup>	07 <sup>□</sup> /08 <sup>■</sup>			■	■	
Laboratories	21 <sup>□</sup> /23 <sup>■</sup>	02 <sup>□</sup> /07 <sup>■</sup>			■	■	
Air conditioning washers	24	07					■
Garages (used exclusively for parking vehicles) of an area not exceeding 100 m <sup>2</sup>	21	07			■		
Machine rooms	31	07/08			■		
Water pressurisers	23	07/08				■	
<b>Boiler houses and adjoining premises (power in excess of 70 kW)</b>							
Boiler rooms	coal fuel	51 <sup>□</sup> /61 <sup>■</sup>	07 <sup>□</sup> /08 <sup>■</sup>				■
	other fuel	21	07/08			■	
	electrical	21	07/08			■	
Fuel storage areas	coal	50 <sup>□</sup> /60 <sup>■</sup>	08				■
	oil	20	07 <sup>□</sup> /08 <sup>■</sup>	■	■		
	liquefied gas	20	07 <sup>□</sup> /08 <sup>■</sup>	■	■		
Cinder tips	50	08					■
Pump rooms	21 <sup>□</sup> /23 <sup>■</sup>	07 <sup>□</sup> /08 <sup>■</sup>			■	■	
Pressure reduction rooms (gas)	20	07 <sup>□</sup> /08 <sup>■</sup>	■	■			
Steam or hot water facilities	21 <sup>□</sup> /23 <sup>■</sup>	07 <sup>□</sup> /08 <sup>■</sup>			■	■	
Expansion vessel room	21	02			■		
<b>Garages and car parks of an area exceeding 100 m<sup>2</sup></b>							
Parking lots	21	07 <sup>□</sup> /10 <sup>■</sup>			■		■
Carwash areas (inside premises)	25	07					■
Petrol stations	inside	21	07			■	
	outside						
Lubrication areas	23	08				■	
Battery recharging areas	23	07				■	
Workshops	21	08			■		
<b>Public building (other than for the general public)</b>							
Offices	20	02	■				
Libraries	20	02	■				
Archives	20	02	■				
Computer rooms	20	02	■				
Design offices	20	02	■				
Rooms containing reprographic machines	20	02	■				
Sorting rooms	20	07	■				
Refectories in restaurants or canteens	21	07			■		
Large kitchens							
Sports rooms	20	07 <sup>□</sup> /08 <sup>■</sup>	■	■			
Barracks	20	07	■				
Meeting rooms	20	02	■				
Waiting rooms, lounges, halls	20	02	■				
Medical consulting rooms, not fitted with specific equipment	20	02	■				
Demonstration and exhibition rooms	20	02/07	■				

No applicable

## Selection of enclosures according to the premises

## Enclosure characteristics

Type of premises	Enclosure						
	Cubicle		with fixed frame	with door + IP30 cover	with door + gasket + IP30 cover		with door + IP55 cover
	Min. IP/IK required		IP30/IK07	IP30/IK08	IP31/IK08	IP43/IK08	IP55/IK10
	IP	IK					
<b>Farm premises or locations</b>							
Alcohol (storage)	23	07				■	
Closed cattle sheds	35	07					■
Laundries	24	07					■
Wood storage rooms	30	10					■
Threshing floors	50	07					■
Distilling cellars	23	07				■	
Vat rooms (wine)	23	07				■	
Courtyards	35	07					■
Poultry barns	35	07					■
Stables	35	07					■
Fertiliser (storage)	50	07					■
Stables	35	07					■
Manure heaps	24	07					■
Haylofts	50	07					■
Haystacks, forage (storage)	50	07					■
Granaries, barns	50	07					■
Straw (storage)	50	07					■
Greenhouses	23	07				■	
Grain silos	50	07					■
Milking rooms	35	07					■
Pig sties	35	07					■
Chicken houses	35	07					■
<b>Miscellaneous installations</b>							
Fair facilities	33	08				■	
Water treatment facilities	24/25	07/08					■
<b>Thermodynamic installations, air-conditioned rooms and cold rooms</b>							
Height above ground	from 0 to 1.10 m	25	07				■
	from 1.10 to 2 m	24	07				■
	above 2 m under evaporator or water drain pipe	21	07			■	
	ceiling and up to 10 cm underneath	23	07				■
Temperature ≤ -10 °C		23	07			■	
Compressor	room	21	08			■	
	integral unit located outside or on a terrace	34	08				

No applicable

# Selection of enclosures according to the premises

## Enclosure characteristics

Type of premises	Enclosure						
	Cubicle		with fixed frame	with door + IP30 cover	with door + gasket + IP30 cover		with door + IP55 cover
	Min. IP/IK required		IP30/IK07	IP30/IK08	IP31/IK08	IP43/IK08	IP55/IK10
	IP	IK					
<b>Industrial facilities</b>							
Slaughter houses	55	08					■
Batteries (manufacture)	33	07				■	
Acid (manufacture and storage)	33	07				■	
Alcohol (manufacture and storage)	33	07				■	
Aluminium (manufacture and storage)	51	08					■
Livestock (raising, fattening and sale)	45	07					■
Asphalt and bitumen storage	53	07					■
Wool beating and carding	50	08					■
Industrial laundry	24/25	07					■
Wood (processing)	50	08					■
Meat packers	24/25	07					■
Bakeries	50	07					■
Breweries	24	07					■
Brickworks	53	08					■
Rubber (production and processing)	54	07					■
Carbide (manufacture and storage)	51	07				■	■
Ammunition factories	53	08					■
Carton board (production)	33	07				■	
Quarries	55	08					■
Celluloid (manufacture of objects)	30	08		■			
Cellulose (manufacture)	34	08					■
Coal (depots)	53	08					■
Pork products	24/25	07					■
Boiler-making works	30	08		■			
Lime kilns	50	08					■
Rag (storage)	30	07	■				
Chlorine (manufacture and storage)	33	07				■	
Chrome-plating	33	07				■	
Cement works	50	08					■
Coking plant	53	08					■
Adhesives (production)	33	07					■
Bottling lines	35	08					■
Liquid fuels (storage)	31 <sup>□</sup> /33 <sup>■</sup>	08			■		
Fats (processing)	51	07					■
Leather (tanning and storage)	31	08			■		
Copper (ore processing)	31	08			■		
Paint stripping	54	08				■	■
Detergents (manufacture)	53	07				■	■
Distilleries	33	07				■	
Electrolysis	33	08				■	
Ink manufacturing	31	07			■		■
Fertilisers (manufacture and storage)	53	07					■
Explosives (manufacture and storage)	55	08					■
Iron (production and processing)	51	08					■
Spinning mills	50	07					■
Furriers (beating process)	50	07					■
Cheese factories	25	07					■
Gas (production and storage)	31	08			■		
Tar (processing)	33	05				■	
Seed production	50	07					■
Metal engraving	33	07				■	
Oils (extraction)	31	07			■		
Petroleum products (manufacture)	33 <sup>□</sup> /34 <sup>■</sup>	08				■	■
Printworks	20	08					

## Selection of enclosures according to the premises

## Enclosure characteristics

Type of premises	Enclosure						
	Cubicle		with fixed frame	with door + IP30 cover	with door + gasket + IP30 cover		with door + IP55 cover
	Min. IP/IK required		IP30/IK07	IP30/IK08	IP31/IK08	IP43/IK08	IP55/IK10
	IP	IK					
<b>Industrial establishments (continued)</b>							
Dairies	25	07					■
Public wash-houses	25	07					■
Liqueurs (production)	21	07			■		
Halogenated liquids (use)	21	08			■		
Inflammable products (storage and workshops where they are used)	21	08			■		
Magnesium (production, storage and use)	31	08			■		
Machine rooms	20	08		■			
Plastics (production)	51	08					■
Cabinet makers	50	08					■
Metals (processing)	31 <sup>□</sup> /33 <sup>■</sup>	08			■	■	
Combustion engines (testing of)	30	08		■			
Ammunition storage	33	08				■	
Nickel (or processing)	33	08				■	
Household waste (processing)	54	07					■
Paper (production)	33 <sup>□</sup> /34 <sup>■</sup>	07			■	■	■
Paper (storage)	31	07			■		
Perfume (production and storage)	31	07			■		
Pulp mill	34/35	07				■	■
Paint (production and storage)	33	08				■	
Plaster (processing and storage)	50	07					■
Gunpowder factory	55	08					■
Chemicals (production)	30 <sup>□</sup> /50 <sup>■</sup>	08		■			■
Oil refineries	34/35	07					■
Salt preserve factories	33	07				■	
Soap (production)	31	07			■		
Saw mills	50	08					■
Metalwork shops	30	08		■			
Grain or sugar silos	50	07					■
Silk and artificial hair factories	50	08					■
Sodium carbonate (processing and storage)	33	07				■	
Sulphur (processing)	51	07					■
Spirits (storage)	33	07				■	
Sugar mills	55	07				■	■
Tanners	35	07					■
Dye works	35	07					■
Textile and fabric (production)	51	08					■
Varnish (production and application)	33	08				■	
Glass works	33	08				■	
Zinc works	31	08			■		

No applicable



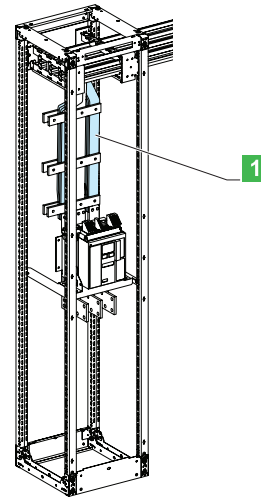
# Designing connections between a device and busbars

## Dedicated cubicle - W = 400 mm

### Electrical characteristics

Fixed MasterPacT / MTZ1 06 to 16  
 Fixed ComPacT NS630b to NS1600

Dedicated cubicle  
 Linergy LGYE, BS busbars  
 Connections drawings supplied by Schneider Electric



1 Connection

### Connection

Flat bars, 10 mm thick

Device		Permissible current (A)												
		Ambient temperature (°C)												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
Fixed NS, MTZ1/NT		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NS 630, NT 630 & MTZ1 630	Size per phase	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	■
	Fixed I (A)	630	630	630	630	630	630	630	630	630	630	630	630	
NS 800, NT 800 & MTZ1 800	Size per phase	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	■
	Fixed I (A)	800	800	800	800	800	800	800	800	800	800	800	800	
NS 1000, NT 1000 & MTZ1 1000	Size per phase	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	■
	Fixed I (A)	1000	1000	1000	1000	980	940	960	920	940	900	920		
NS 1250, NT 1250 & MTZ1 1250	Size per phase	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	■
	Fixed I (A)	1240	1080	1200	1050	1160	1020	1125	980	1085	950	1040		
NS 1600, NT 1600 & MTZ1 1600	Size per phase	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10	■
	Fixed I (A)	1525	1380	1490	1345	1450	1310	1415	1275	1375	1240	1330		

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

# Designing connections between a device and busbars

## Dedicated cubicle - W = 400 mm

### Electrical characteristics

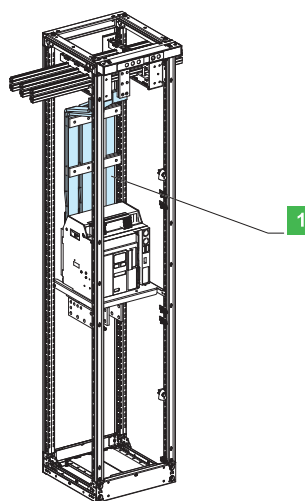
#### Drawout MasterPacT / MTZ1 06 to 16

#### Drawout ComPacT NS630b to NS1600

Dedicated cubicle

Linergy LGYE, BS busbars

Connections drawings supplied by Schneider Electric



1 Connection

### Connection

Flat bars, 10 mm thick

Device		Permissible current (A)												
		Ambient temperature (°C)												
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C		
Drawout NS, MTZ1/NT		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	
NS 630, NT 630 & MTZ1 630	Size per phase	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	■
	Drawout A (l)	630	630	630	630	630	630	630	630	630	630	630	630	
NS 800, NT 800 & MTZ1 800	Size per phase	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	■
	Drawout A (l)	800	800	800	800	800	800	800	800	800	800	800	800	
NS 1000, NT 1000 & MTZ1 1000	Size per phase	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	■
	Drawout A (l)	1000	1000	1000	1000	980	940	960	920	940	900	920		
NS 1250, NT 1250 & MTZ1 1250	Size per phase	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	1b 50x10	■
	Drawout A (l)	1230	1070	1190	1040	1155	1005	1115	970	1075	935	1030		
NS 1600, NT 1600 & MTZ1 1600	Size per phase	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10	2b 50x10	■
	Drawout A (l)	1515	1340	1480	1305	1440	1270	1400	1235	1355	1200	1315		

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

# After sales tools

# Contents

## Practical information

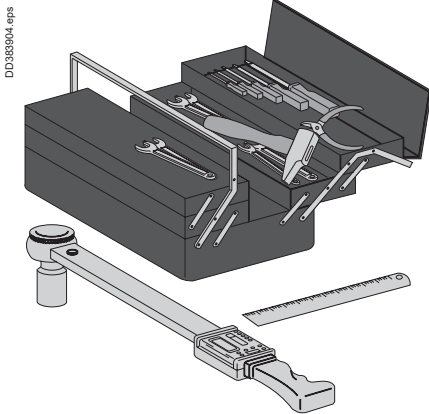
<b>Tools required for mounting and connection</b>	<b>J-2</b>
<b>Connection of horizontal to vertical busbars</b>	<b>J-3</b>
<b>Installation of the current transformer</b>	<b>J-4</b>
<b>Installation of source changeover systems</b>	<b>J-6</b>
<b>Storage recommendations</b>	<b>J-8</b>
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<b>Handling on the site</b>	<b>J-10</b>
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<b>Cubicle handling and rolling base Lifting reinforcement kit for combined cubicles</b>	<b>J-13</b>
<b>Connection of busbar trunking</b>	<b>J-14</b>
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## Maintenance

<b>Preventive maintenance</b>	<b>J-18</b>
<b>Corrective maintenance</b>	<b>J-20</b>

## 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 torque wrench
- Open-ended spanners (15 to 27 mm).
- Electrician's knife
- 7, 8, 10, 13, 16, 17 and 19 mm sockets
- Bit holder socket
- 4, 5, 6, 8 and 10 mm hexagonal-head bits
- Pozidriv no. 1, 2 and 3 bits
- Rubber mallet
- Level.
- Measurement and inspection tools and instruments
- Drill
- Semi-circuit nosed pliers
- Cable-tie pliers
- Wire stripper
- Crimping tool
- Diagonal cutter
- Wire cutters
- Flat-nosed pliers
- Bit holder for screwdriver
- Extension
- Electric saw
- Jig saw
- Clamp for cubicle alignment
- Buzzer or tester
- 3, 5, 4, 5.5 and 8 mm flat screwdrivers
- Posidriv no. 2 crosshead screwdriver (to mount handle)
- Hydraulic jacks that can be operated in horizontal position to lift cubicles and move them sideways if necessary.
- Coloured, indelible and temperature resistant acrylic varnish.
- Electric screwdriver

**Note:** a Facom brand torque wrench is available with a capacity of 75 Nm and a thin shape. It is recommended for tightening under difficult access conditions.

**Part numbers:**

- SP3723 = wrench handle (essential)
- SP3721 = extra-flat ratchet adapter (essential)
- SP3722 = ratchet for ordinary sockets (optional) for mounting on handle SP3723
- SP2709 = extra-flat 13 mm short socket
- SP2709A = extra-flat 13 mm long socket
- SP4369 = extra-flat 16 mm short socket
- SP4370 = extra-flat 16 mm long socket
- SP2710 = extra-flat 17 mm short socket
- SP4371 = extra-flat 19 mm short socket
- SP4372 = extra-flat 19 mm long socket.

# Connection of horizontal to vertical busbars

## Practical information

Horizontal busbars can be connected to vertical busbars (Lineryg LGY or Lineryg BS) in two ways:

- in a duct (by a direct connection ordered from the catalog)
- in the rear (with part of the connection to be fabricated by the installer).

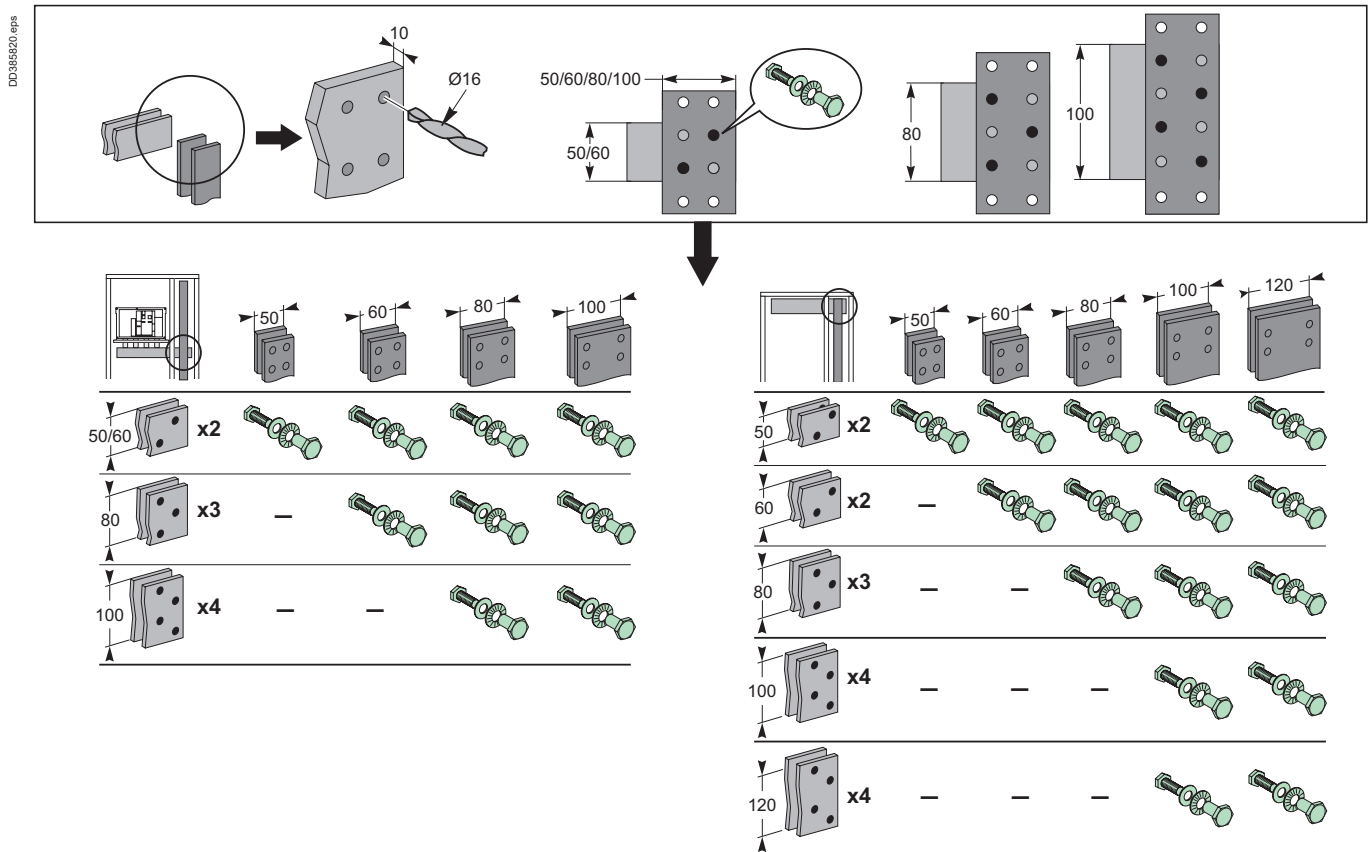
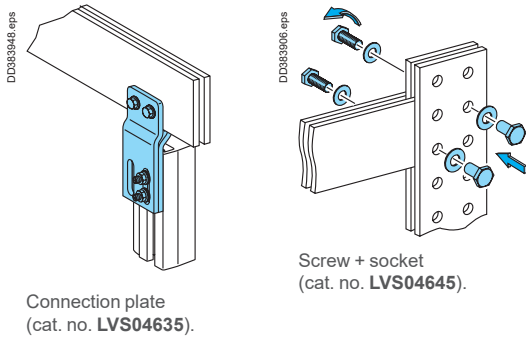
**5 mm thick horizontal busbars can be connected to vertical busbars using connection plate LVS04634 (y 1000 A) or LVS04635 (> 1000 A) after drilling holes in the horizontal bars.**

**10 mm thick horizontal busbars can be connected to vertical busbars in 2 ways:**

- using connection plate LVS04636 ( $\leq 1600$  A) or  $1600$  A < LVS04637 <  $2820$  A without drilling holes in the horizontal bars
- or with a screw and socket assembly (LVS04645) designed for assembly on a busbar that has already been mounted.

This bolted solution requires:

- holes drilled in the bars ( $\varnothing 16$  mm) for diagonal mounting of the sockets and screws
- conformity with the following mounting rules:
  - respect the overlap length (2.5 to 5 times the bar thickness)
  - tighten to a torque of 50 Nm
  - fit the recommended number of screws, depending on the bar width as explained below.



In practice, the real contact area is limited to regions in which the pressure is applied effectively.

In a bolted overlap assembly, these areas are made up of the areas adjacent to the bolts, and more precisely under the washers.

Salt spray tests have demonstrated these contact areas.

The number of screws thus determines the effective cross-sectional area through which the current flows, which corresponds to the area under the washer (minus the screw hole).

This cross-section area must be close to that of the bar.

### Controlled temperature rise

Whatever the connection solution used, the quality and reliability of the contact is guaranteed, in particular with respect to temperature rise, as long as assembly is carried out according to our recommendations.

## Installation of the current transformer

## Practical information



Dismountable vertical busbars.

Choice of a CT model depends on the type of installation:

- insulated cables
- PrismaSeT P vertical busbars
- insulated flexible busbars
- Linergy LGY vertical busbars
- rigid busbars.

When installing a CT, we recommend that you comply with the following mounting rules:

- install current transformers:
  - on an easily dismantlable busbars or copper connections
  - between 2 connection points, by joints or bolted connection
  - place the current transformer so that the identification markings remain readable.

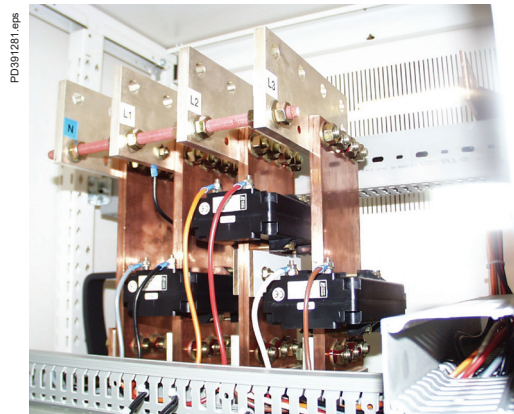
For large current transformers, a staggered installation is recommended to prevent arcing on fixing screws or excessive spacing between phase conductors.

If they are installed on vertical busbars, secure the current transformers in place to prevent them from slipping downwards (for example using a bolt or a pin)

- when there are several busbars per phase, fit spacers between the busbars in order to:
  - resist the tightening forces when installing the current transformer
  - avoid vibrations that lead to current transformer breakdowns.



CT on vertical busbars.



Spacers between the bars.

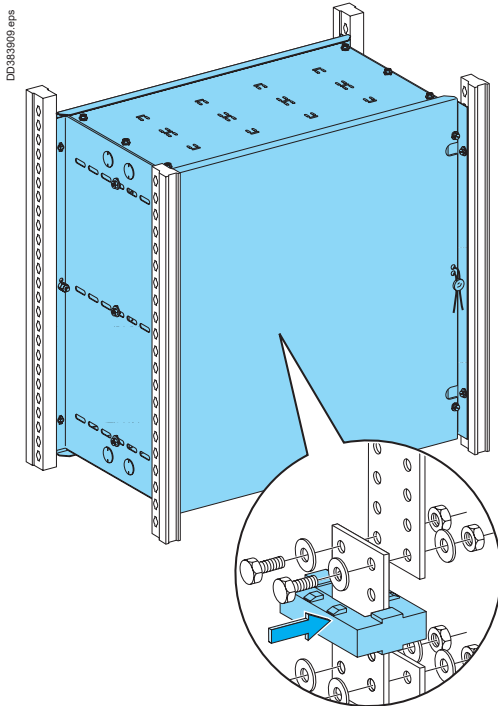
## Installation of the current transformer

## Practical information

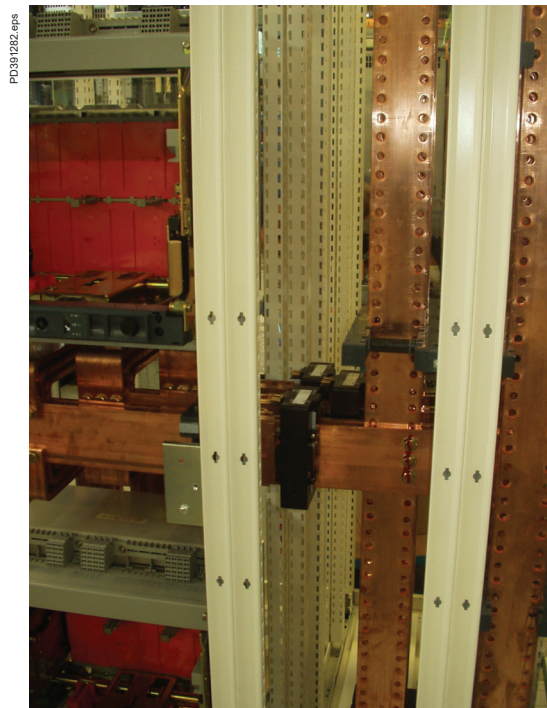
Our circuit breakers have trip units with a **built-in ammeter** (see Micrologic catalog). Their use eliminates the need for installing a CT on the busbars.

**The CT casing** is a solution for installation of CTs up to 1600 A. CTs can be installed in the casing (cat. no. LVS03506). It is equipped with a frame made up of 2 uprights, adjustable in depth and 2 slotted cross-members to fix the cables, install CTs or install a busbar support with 75 mm spacing. It is secured in the switchgear compartment of a 400 or 600 mm deep cubicle.

**The 300 mm duct** allows easier mounting of CTs. To install 2 CTs, downstream from a circuit breaker for example, it is often easier to use a 300 mm wide duct (cat. no. LVS08403 for 400 mm depth or cat. no. LVS08603 for 600 mm depth).



Sealable CT casing with current transformers on bolted connections.



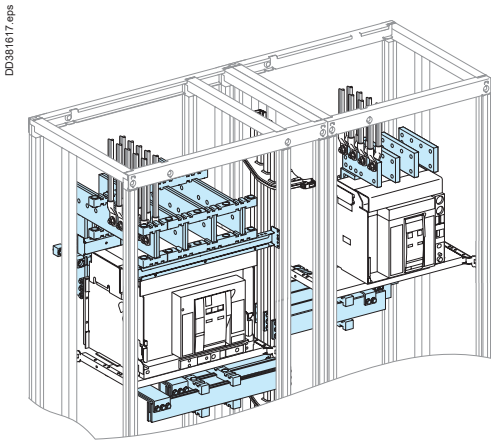
CT on circuit breaker downstream connection busbars.

# Installation of source changeover systems

## Practical information



Source changeover system in the same cubicle.



Source changeover system in 2 combined cubicles.



### Principle of the PrismaSeT P solution

**PrismaSeT P simplifies the installation of source changeover systems.**

The "source changeover" solution is an integral part of the PrismaSeT P offering and is designed for all installation cases: 2 or 3 devices side by side or 2 superimposed devices.

The page opposite shows a few examples of installation in cubicles:

- 1 normal source/1 replacement source
- 2 normal sources with coupling (priority and non-priority circuits)
- 2 normal sources + 1 replacement source with coupling (priority and non-priority, circuits).

Note that our configuration software can be used to produce the switchboard front panel drawings.

For each source changeover configuration, various combinations of normal and replacement source circuit breakers and switch-disconnectors are possible:

- 1 normal source/1 replacement source:
  - NS630b to NS1600 / NS630b to NS1600
  - NT / NT
  - NT / NW
  - NW / NT
  - NW / NW
- 2 normal sources with coupling:
  - NW / NW / NW
  - NT / NT / NT
  - NW / NW / NW
- 2 normal sources + 1 replacement source with coupling:
  - NW / NW / NW / NW or NT.

Tables in the catalog indicate the possible combinations "normal" and "replacement" devices according to the rating as well as the types of interlocking available for the different types of devices.

Highly economical vertical configurations are possible even for the largest devices.

In this case, interlocking may be:

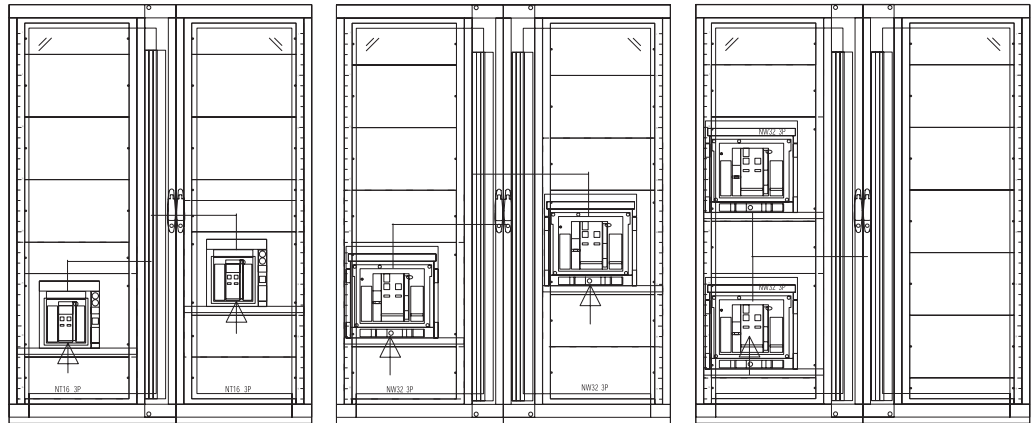
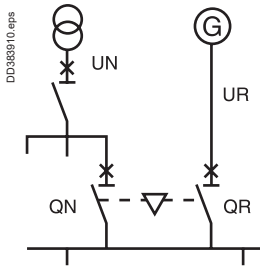
- mechanical by cable + motor mechanism
- via rotary handles (for NS630b/1600 only).

To define the number of modules required to install superimposed devices, all you have to do is add up the number of modules required for each device with:

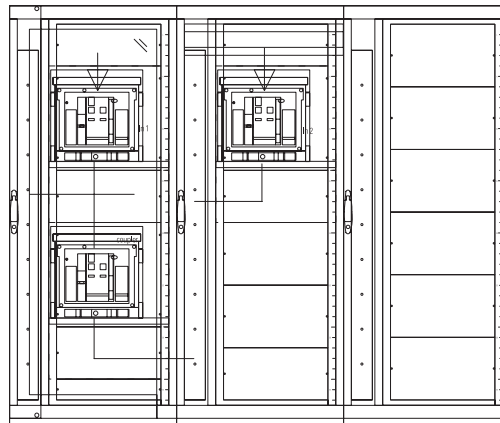
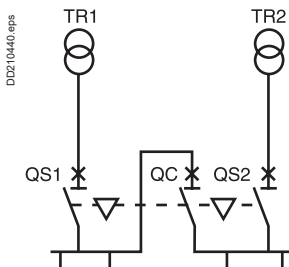
- its connections
- its cover and its partitioning.

# Installation of source changeover systems

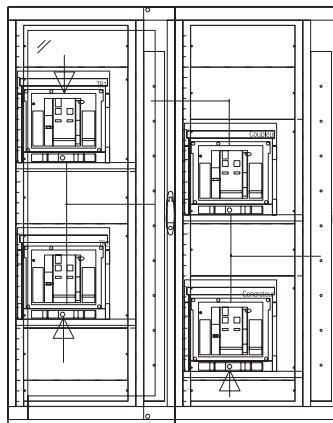
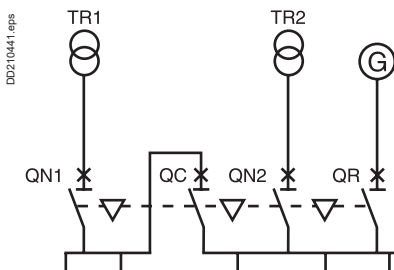
## Practical information



1 normal source  
1 replacement source



2 normal sources and coupling on busbars



2 normal sources  
1 replacement source and coupling on busbars



## Practical information

Cubicles must be stored in upright position in a dry and ventilated location, sheltered from rain, weather, dripping and running water, dust and chemical agents.

Apart from IP55 cubicles, never store enclosures outdoors, even under an awning or tarp.

The cubicles should if possible be left in their packing until they are installed. In this way they are protected against all risks that may be encountered on the site (impacts, splashes, etc.).

Acceptable storage temperatures are  $-25\text{ }^{\circ}\text{C}$  to  $+55\text{ }^{\circ}\text{C}$  (or up to  $+70\text{ }^{\circ}\text{C}$  for short periods not exceeding 24 hours).

Given their heavy weight, cubicles should be stored on a stable, rigid and flat floor to avoid any risk of tipping during storage or handling.

### Practical information

#### Receiving the switchboard

On receipt of the equipment and before handling it, check that the cases and packing materials used for transportation have not been damaged and that all items on the packing list have been effectively delivered.

- Even if the packing appears to be in good condition, do not hesitate to unpack the equipment in the presence of an authorised transport agent.
- Check the contents and weights of the shipping units. Thoroughly check the equipment to make sure that no damage or shocks have occurred that could impair insulation or operation.
- If necessary, check that the information on the switchboard nameplate, located on the incoming cubicle, complies with the information indicated on the delivery slip.
- In case of damage or missing parts, inform the transport agent by registered mail.
- After this inspection, refit the plastic protective cover.

PrismaSeT P switchboards are generally shipped as separate cubicles or in transport units comprising 2 cubicles side by side. Shipping units may exceptionally comprise 3 cubicles (see precautions given in the "On-site handling" chapter).

Each shipping unit is marked with:

- project number
- weight
- packing unit information (packing unit number and total quantity)
- position of the centre of gravity
- storage and handling instructions.

#### Standard packing

The cubicles are protected by a plastic cover in a crate.

The following accessories are attached inside the switchboard:

- installation accessories (lifting/fixing cross-members and external fixing lugs)
- preliminary installation accessories: plinth raisers
- horizontal busbar joints (if required)
- additional nuts and bolts and other mounting hardware
- panels to be fitted after on-site connection: canopies, roof panels, gland plates
- a set of drawings
- device user manuals
- a tube of Swiss white varnish.

Large withdrawable or drawout circuit breakers installed at the top of the cubicle (MasterPact and ComPact NSX) are generally delivered separately.

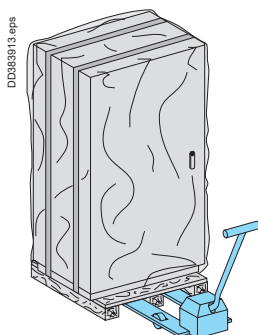
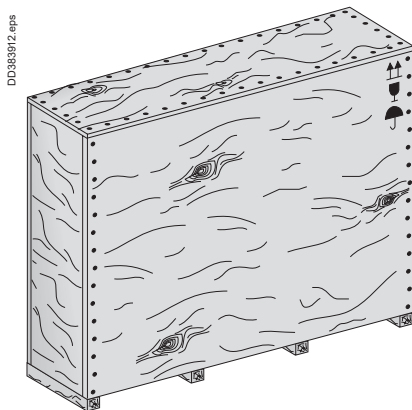
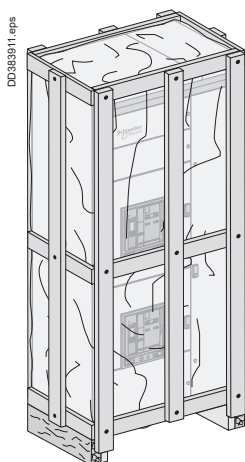
#### Sea packing

The cubicles are protected by a heat-sealed plastic cover containing desiccant bags and are installed in a ventilated wooden or plywood crate.

As a rule sea crates do not weigh more than 5 tons.

#### Sorting

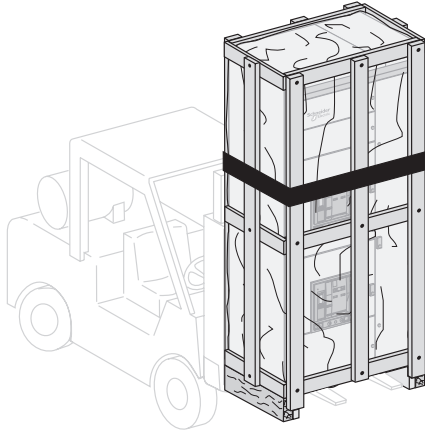
In order to sort the different types of packing material, specific waste recovery bins are required.



# Handling on the site

## Practical information

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Final unpacking of the equipment will preferably take place just before the switchboard is installed, as close as possible to its final installation location.

As a general guideline, the weight of an average 3200 A cubicle is around 400 kg. Cubicles should always be handled in the **upright position** with care, if possible **by 2 persons**. There is a risk of overturning the cubicle due to the high position of the centre of gravity.

When moving the cubicles, always turn slowly and smoothly, avoiding all bumps and jerks. Enclosures moved using a forklift truck must be lifted carefully and held in position or fastened to the forklift truck using slings during transport.

### Handling by the bottom

Wooden beams (or framework stabilizers) are generally attached to the base of the cubicle framework. This allows the cubicles to be moved using a pallet mover or forklift truck.

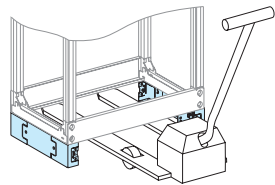
 The forks must be placed symmetrically with respect to the cubicle's axis so as not to distort the base of the frame.

For cubicles fitted with a plinth, the front and rear base panels must be removed to allow insertion of the pallet mover forks.

Cubicles must be lifted with care and held in place during transport by strapping them onto the handling machine, especially for large distances or bumpy terrain.

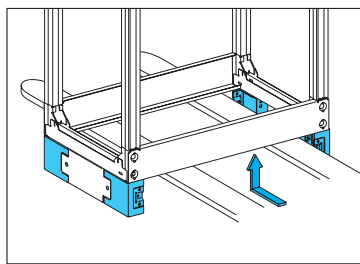
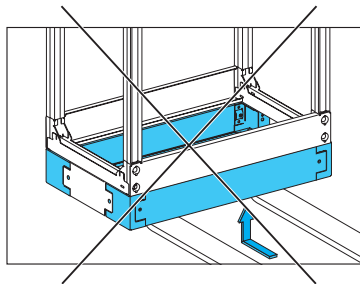
For a PrismaSeT P switchboard with a busbar compartment, lifting points must be shifted towards the busbars.

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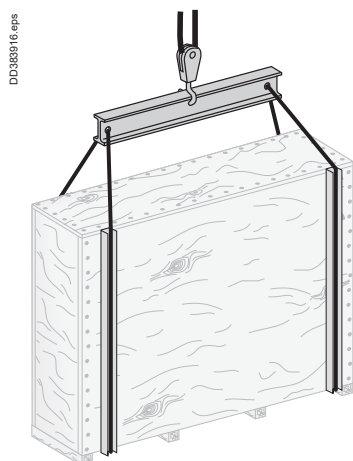
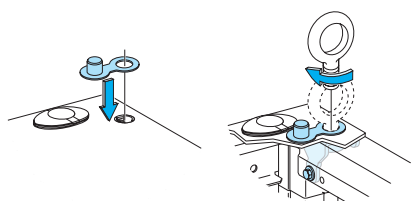
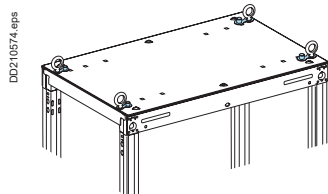
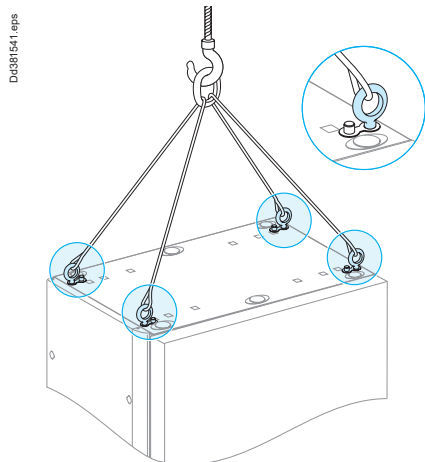
Framework stabiliser.

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Cubicle with base.

## Practical information



### Handling by the top

**If cranes or overhead hoists are used, only slings that are sufficiently strong and in good condition should be used.**

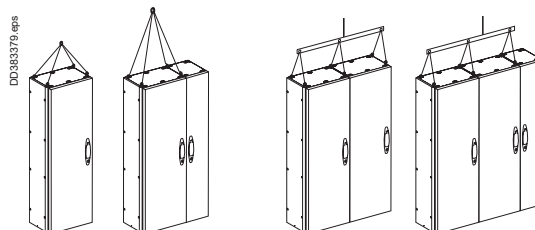
- The slings must be attached to the 4 cubicle lifting lugs.
- Adjust the length of the slings according to the switchboard dimensions so that the angle formed does not exceed the angle indicated below depending on the switchboard weight. When 2 switchgear cubicles are combined, a lifting beam must be used.
- Never tilt the cubicle during handling.
- Take care to equally distribute the load on the 4 rings.



### Position of lifting rings

The lifting rings can be installed and removed without dismantling the roof. Even with the lifting rings permanently installed, the switchboard retains its original degree of protection.

For combined cubicles, only install lifting rings on cubicles with switchgear.



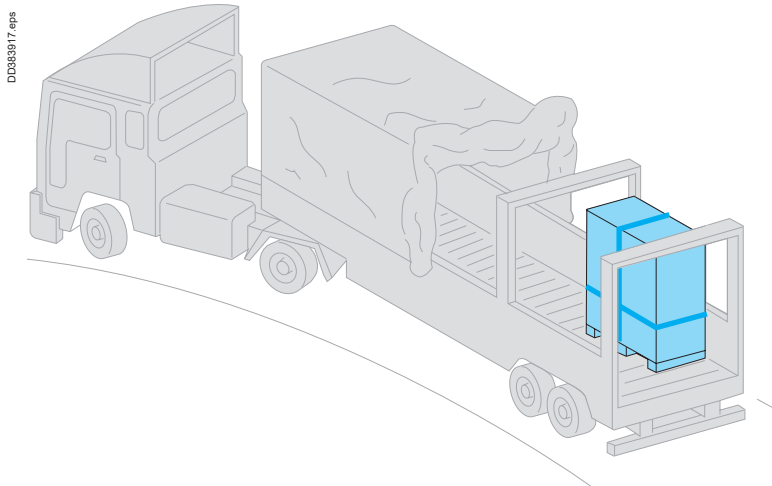
### Lifting several cubicles packed together

In the special case of an assembly with more than 2 cubicles, you must:

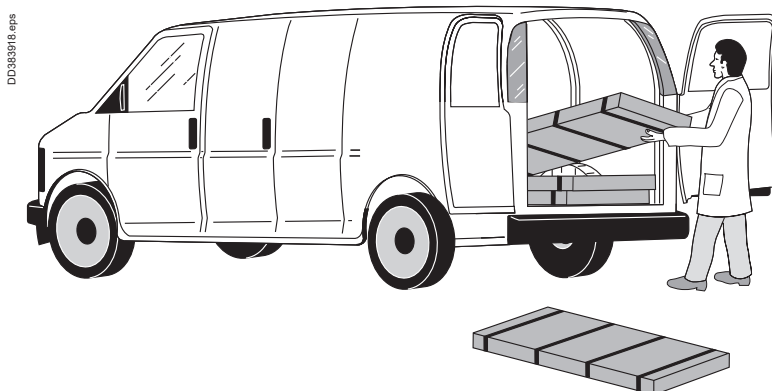
- first of all move the assembly in its original packing as close as possible to where it is to be installed
- use a lifting beam and slings to support the switchboard from underneath.

## Practical information

The cubicles must be loaded vertically (stacking strongly discouraged).  
After loading, check that the equipment is firmly secured in the truck to avoid any risk of damage during transport.



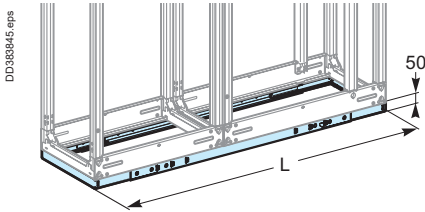
Enclosures supplied as kits should be transported horizontally if possible.



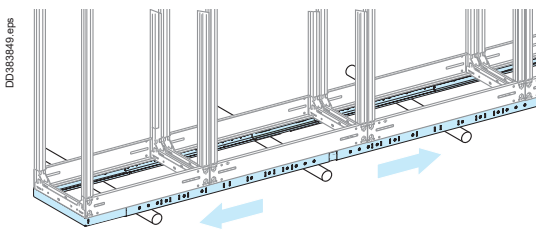
# Cubicle handling and rolling base Lifting reinforcement kit for combined cubicles

## Practical information

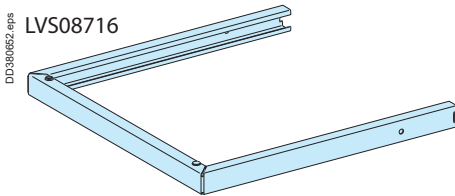
### 50 mm high base



LVS08714



Combined cubicles equipped with a handling base can be moved easily and safely on rollers.



LVS08716

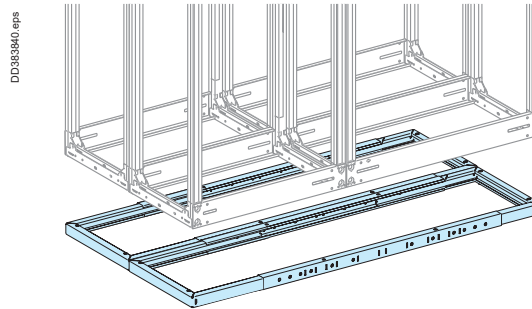
This type of base is designed to increase the rigidity of cubicle frameworks to avoid any risk of deformation during transport and handling. Five different catalog numbers offer 27 width possibilities (1200 to 3050 mm) for 400 and 600 mm deep cubicles.

- Two catalog numbers each include 2 end-pieces for handling bases for 400 and 600 mm deep cubicles respectively and the corresponding mounting hardware.
- Three catalog numbers each include 2 lengths for the sides of handling bases for 1200 to 3050 mm wide cubicles respectively and the corresponding mounting hardware.

Handling bases can be used for both side-by-side and back-to-back cubicle combinations.

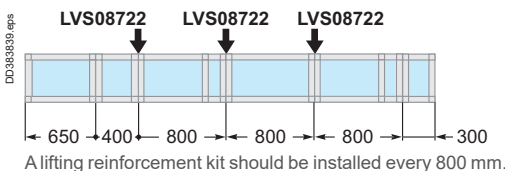
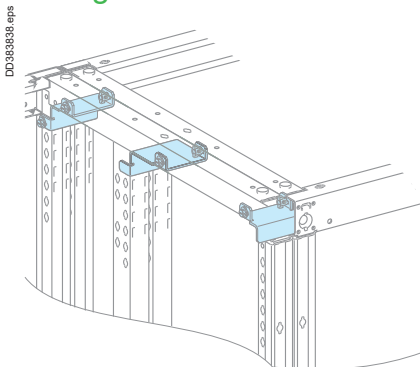
In this case, the mounting hardware for one of the sets is used.

Designation		Cat. no.
2 cubicle handling base end-pieces	D = 400 mm	LVS08714
	D = 600 mm	LVS08716
2 cubicle handling base side-lengths	W = 1200 to 1900 mm	-
	W = 2000 to 2550 mm	LVS08706
	W = 2650 to 3050 mm	-



Side-by-side and back-to-back combination of 4 cubicles equipped with a handling base.

### Lifting reinforcement kit



- Kit LVS08722 is recommended for lifting combined cubicles and can be used together with handling base end-pieces LVS08714 for severe transport or handling conditions.
- Catalog number LVS08722 includes 3 reinforcement brackets for 400 or 600 mm deep cubicles and the corresponding mounting hardware.

Designation		Cat. no.
Lifting reinforcement kit for combined cubicles	W = 400/600 mm	LVS08722



Practical information

PrismaSeT P switchboards come equipped with a special interface that allows them to be directly connected to Canalis KT trunking.

The electrical connection between the Canalis KT trunking and the PrismaSeT P switchboard is just as easy to carry out as jointing between two busbar trunking sections.

The Canalis KT interface is totally integrated in the PrismaSeT P switchboard volume.

It comprises a Canalis KT joint block and interface/circuit breaker connection terminals.

Trunking connection via the top

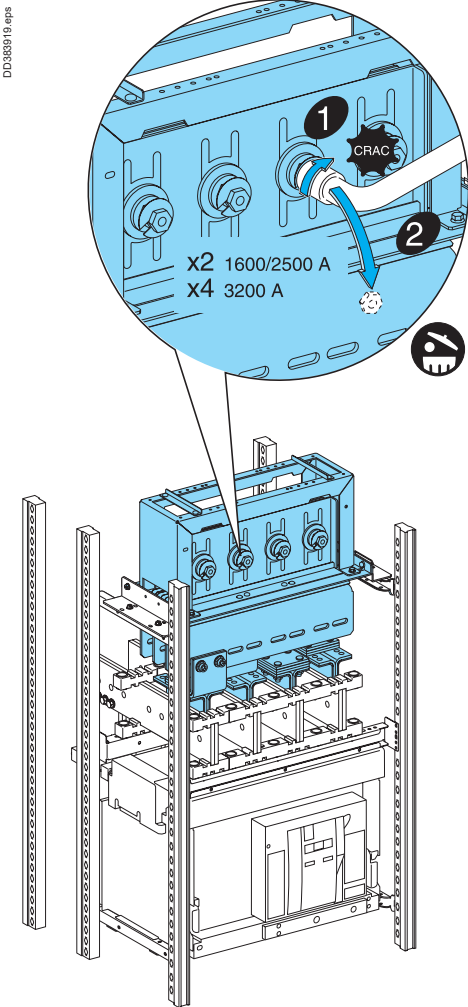
- Dismantle the roof.
- Cut out a passage for the busbar trunking.
- Adjust the guides according to the KT width that will be connected.
- Unscrew the junction block screws.
- Ensure that the busbar trunking length to be connected to the switchboard is correctly supported and that it is not resting on the interface.
- Lower the element until it is in contact with the interface frame, without bearing on it.
- Tighten the junction torque nuts. When the head breaks, the torque of 60 Nm has been reached.

⚠ In certain cases, it is recommended to only tighten the 2 middle nuts to 60 Nm and the 2 outer nuts to 10 Nm.

- A red plastic washer that is ejected when the head breaks provides visual evidence that the joint tightening operation has been carried out correctly.
- For dismantling or maintenance operations, a second head is available on the nut and can be retightened using a conventional torque wrench. The recommended tightening torque is then 60 Nm.
- Reassemble the roof.

Sealing kit

- In order to retain the original IP index, use the roof sealing kit ordered with the busbar trunking. This kit guarantees an IP52 degree of protection at the trunking passage.
- The kit is installed by cutting out the roof of the PrismaSeT P switchboard. This cut-out, which is the same dimension for all Canalis KT busbar trunking ratings, is made using the template delivered with the sealing kit.



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## Practical information

To ensure protection of persons, first connect the switchboard protective conductor to the earth electrode.

- Tie the cables as close as possible to the connections to avoid any mechanical stresses on the device terminals. When not using cable glands, also attach the cables near to the cubicle entry point.
- Cables must never be in contact with or passed between live conductors.
- Sharp edges of the framework must be protected where cables pass to avoid damaging the conductors.
- Comply with a minimum radius of curvature of 6 to 8 times the cable outside diameter.
- All power connections must be made with class 8.8 mounting hardware and elastic contact washers, tightened to the torque indicated in the table below.
- When connecting aluminium cables to copper terminals, use bimetal lugs or interfaces.
- Separate the different types of circuits into separate cable bundles (power, control, 48 V, 24 V, DC, AC, etc).

### Cable bundles

Cable cross-sectional area (mm <sup>2</sup> )	Max. number of cables per bundle
CSA ≤ 10	8
16 < CSA ≤ 50	4
CSA ≥ 50	Tie individually

### Tying the cable bundles

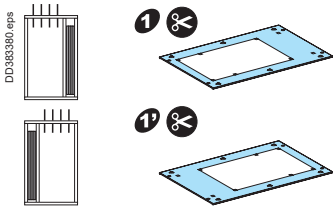
Type of tie	Maximum lcw (kA/rms 1s)	Distance between ties (mm)
Width: 4.5 mm Load: 22 kg	10	200
	15	100
	20	50
Width: 9 mm Load: 80 kg	20	350
	25	200
	35	100
	45	70

For cable sizes of 50 mm<sup>2</sup> or more, use 9 mm wide fixing ties.

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

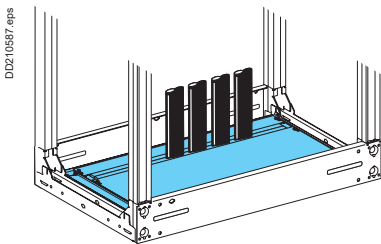
Diameter of screw	Tightening torque (Nm) (with nut + contact washer)
M3	1.5
M4	3.5
M5	7
M6	13
M8	28
M10	50
M12	75

Practical information



Connection via the top

- Remove the roof.
  - Drill the holes required to install cable glands or grommets.
  - Install the cable glands or grommets. They must comply with the switchboard's degree of protection (IP).
  - Refit the roof.
  - Run the cables through the glands or grommets.
  - Run the cables in the intended compartments and secure them to cable tie-bars every 400 mm.
  - Crimp the lugs and connect.
  - When sealing does not call for cable glands or when sealing is achieved by means of foam, cables can be routed in a rectangular cut-out in the roof.
- The removable cross-member simplifies insertion of cables in the cubicle.



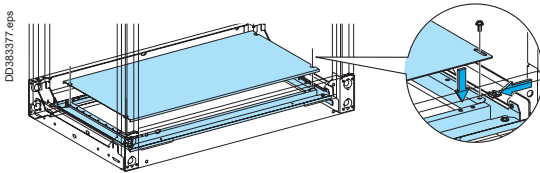
Connection via the bottom

Using a 2-part gland plate

- Drilling is not necessary with this type of gland plate.
- The gland plate avoids producing an induced current.
- The cables are protected by a polyurethane foam seal which provides a sealing function.

Using a 1-part gland plate

- Remove the bottom plate.
- Drill the appropriate holes to assemble the cable glands or grommets (1-part gland plates should not be drilled within 30 mm of the edges).
- Install the cable glands or grommets. They must comply with the required degree of protection (IP).
- Refit the bottom plate.
- Run the cables through the glands or grommets.
- Run the cables in the intended compartments and secure them to cable tie-bars every 400 mm.
- If cable glands are not used, it may be easier to prepare the cable terminations outside the switchboard (e.g. lug crimping) and then to drop them inside the cubicle having first disassembled the bottom removable cross-member.

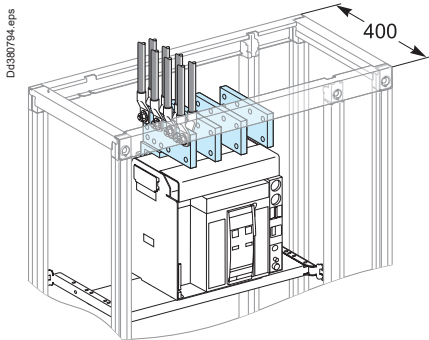


Covering an incomer

For MasterPact MT22 / MTZ1 / NS1600b-3200 / ComPacT NS630b-1600

- Disassemble the cover plate to access to the device connection terminals.
- Connect the cables, respecting the required electrical clearances.
- Cut out the part of the cover disassembled in order to let the cables pass through it, while preserving the necessary degree of protection.

### Practical information



Removable upper cross-member.

#### Connecting to terminal extension bars

- Check that the circuit and switchgear identification indications match.
- When connections are made to terminal extensions made up of several bars for each phase, position the lugs opposite one another and insert copper spacers between the bars.
- Comply with the minimum required electrical clearances between phases of 14 mm (conforming with IEC 60439-1).
- Mark all nuts and the terminal extension bars with a dot of varnish after tightening to the defined torque.
- Remove the top cross-member of the cubicle to simplify connection of the cables to the bars.
- Tie cables of the same phase together.

#### Connection directly to device terminals

- When connections are made directly to the switchgear terminals, comply with the tightening torque recommended by the device manufacturer.
- Check that the length of the screws delivered with the switchgear is compatible with the lug thickness.
- Comply with the safety clearances around the switchgear devices, defined by the manufacturer to ensure correct operation.
- Refit the interphase barriers and terminal shields if applicable after connection the power cables.
- For the special case of connection with armoured cable, please consult us.

## Maintenance

### Frequency

- The frequency of preventive maintenance depends primarily on the operating conditions of the electrical switchboard.
- For operating conditions found in normal environments, the frequency should be as indicated in the recommended calendar.
- It may be extended if the switchboard is used in a particularly clean environment and not in an intensive manner.
- It must be reduced if the switchboard is used in a particularly aggressive environment (dust, humidity, corrosive vapours, heat) or is used intensively.
- Recommended calendar

Type	Action	Frequency
General inspection	Visual checks and general cleaning. Visual check of busbars. Running tests	Once a year
Maintenance on functional units	Inspection of the connections	Every 5 years
Maintenance of ventilation system	Cleaning of filters	Every 6 months
Maintenance of devices	According to the respective handbooks	

### General recommendations

Before any intervention on the connections, switch off the functional unit, remove the protective screens and the partitioning sheets and boxes.

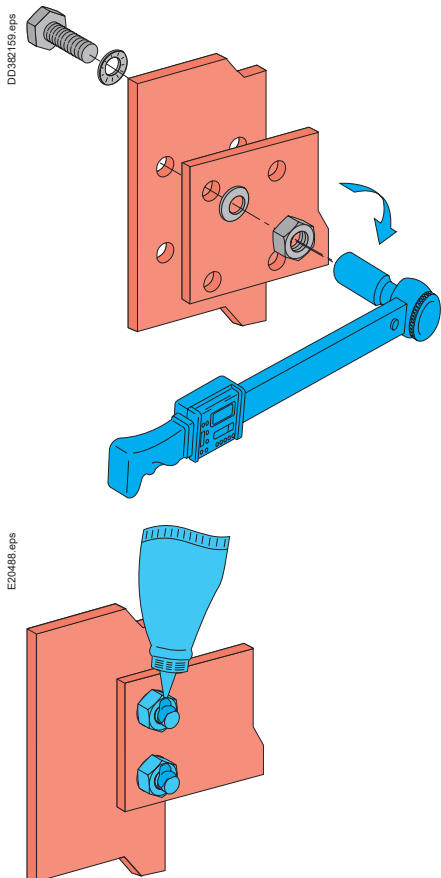
- For interventions on the connections, refer to chapter "Connections", profession Install.
- When reassembling the connections:
  - use new screws, washers, nuts of the same type (class 8.8)
  - tighten to the defined torque (refer to the tightening torques table in the chapter "Connection/Tools required")
  - apply varnish.

### Method of inspection of the electrical connections

- Connections by lugs or screwed bars: presence of varnish, colour changes of a copper bar.
- Connections by cage type terminals: if necessary, re-screw to the torque defined by the manufacturer to compensate for a possible creep.

**Please ensure that you consult the "General" chapter section dealing with safety instructions.**

## Maintenance



### General inspection

#### Visual checks and general cleaning of the cubicles

- Check the lack of humidity and foreign bodies inside and outside the switchboard.
- Examine the outer finish. If necessary, touch up any paint scratches and replace any damaged or rusted parts.
- Clean the switchboard, preferably with a vacuum cleaner.
- If necessary, clean the ventilation system and change the filters.

#### Visual check of busbars

- Connections do not need to be tightened as they were already tightened to the tightening torque in workshop and the use of a contact washer compensates for possible creeps due to overheating. The presence of vernish guaranteeing correct tightening torque, is intact.
- The control of busbars connections and outgoing cables connections can be carried when disassembling the protection (out of supply) or if a hot point is detected (infrared control or thermal sensors). A hot point materialises by a change in the copper colour.
- In case of hot point see "Corrective maintenance".
- Check the condition of insulating busbars supports.

### Cleaning of panel ventilation filters

#### Standard or fine filters

- Wash with water (preferably using a high-quality detergent).
- It is also possible to remove the dust by tapping, vacuuming or blowing with compressed air.
- If there is any oil or grease, change the filter.

# Corrective maintenance

## Maintenance

### General

#### General recommendations

- Before any intervention on the connections, switch off the cubicle, remove the protective screens and the partitioning sheets and boxes.
- When reassembling the connections:
  - use new screws, washers, nuts of the same type (class 8.8)
  - tighten to the defined torque (refer to the tightening torque table in chapter "Connection/Connection of power cables")
  - apply varnish.

### Hot point

#### Screwed connection

- Identify the cause: generally a loosening connection.
- Dismantle the assembly.
- Clean and rub down surfaces in contact (e.g. sandpaper N° 400).
- Set the connection up.

### Maintenance after a fault has occurred

The high currents resulting from a fault cause damage to structures, components, busbars and cables.

**Following a fault, contact your local Schneider Electric office.**

### Troubleshooting and interventions

For any interventions other than those described in this manual, **contact your local Schneider Electric agency.**



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