PrismaSeT P

Catalogue 2021
Cubicles up to 4000 A



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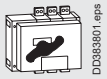
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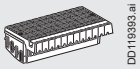
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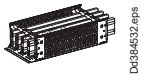


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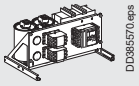
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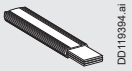
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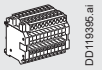


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PrismaSeT P overview

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Secure power distribution and monitoring solution for operating theatres B-16

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



Built-in connectivity

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

Easy-to-install 100% wireless communication solutions

- User friendly installation instructions
- Independent from customer IT

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.



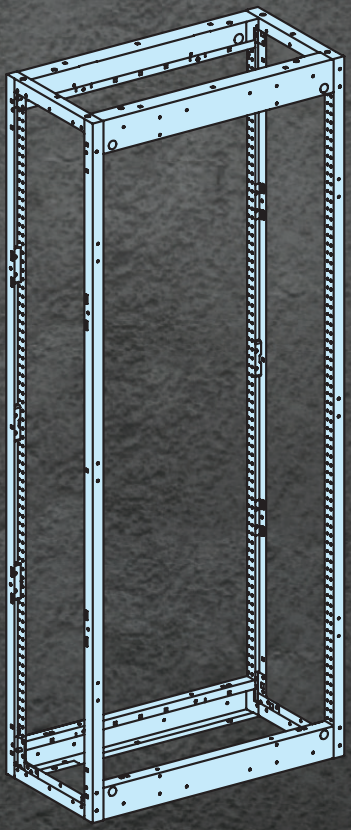
New Improved Handle

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



Reinforced Frame

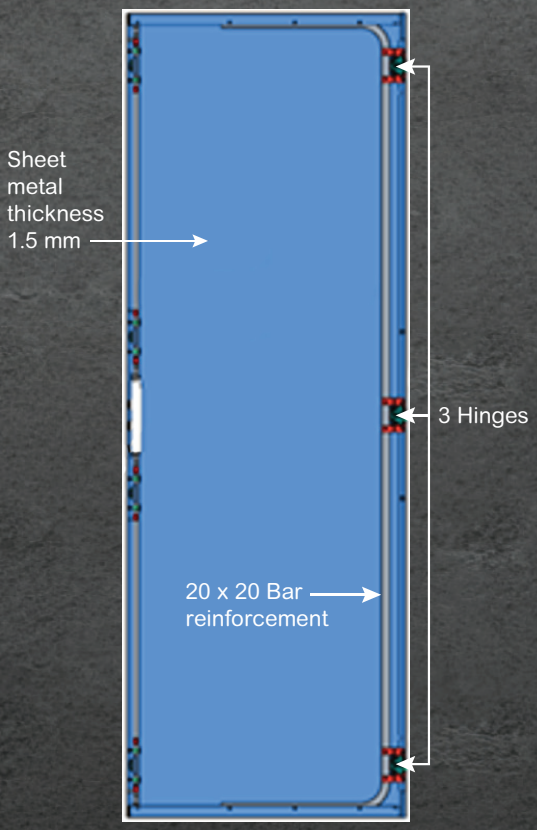
- Easier transportation and perception during assembly.
- Reinforcement on the lower angle levels using additional accessories.



Reinforced Plain Door

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

IP 30/31 Plain Door



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 commissioning, 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 or above 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 algorythm integrated in HeatTag

Electrical Characteristics

Supply voltage	110-277 V AC, -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
Overvoltage 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
Environment auto-learning phase		8 hours after the first 30 minutes

Installation

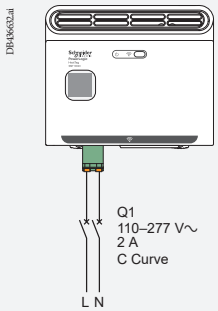
Communication Architecture

List of compatible communicators:

- EcoStruxure Panel Servers
- PowerTag Link
- PrismaSeT Wireless Panel Server

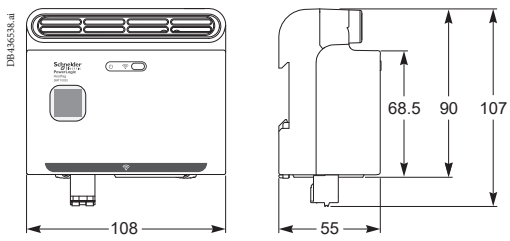
Wiring

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

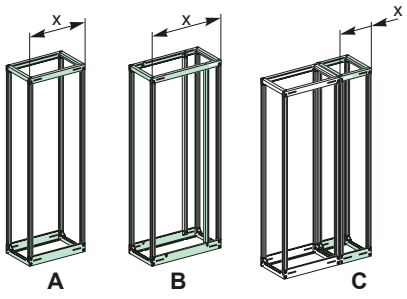
Integration in PrismaSeT P

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

DB437105.ai



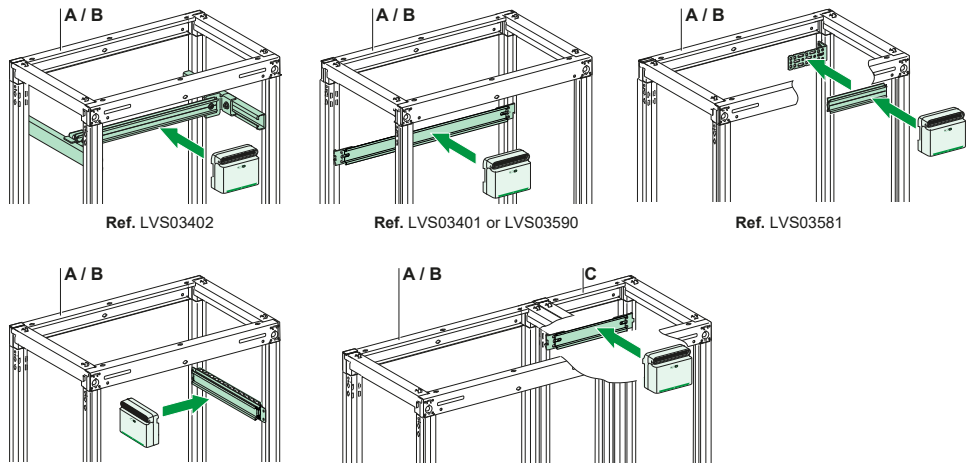
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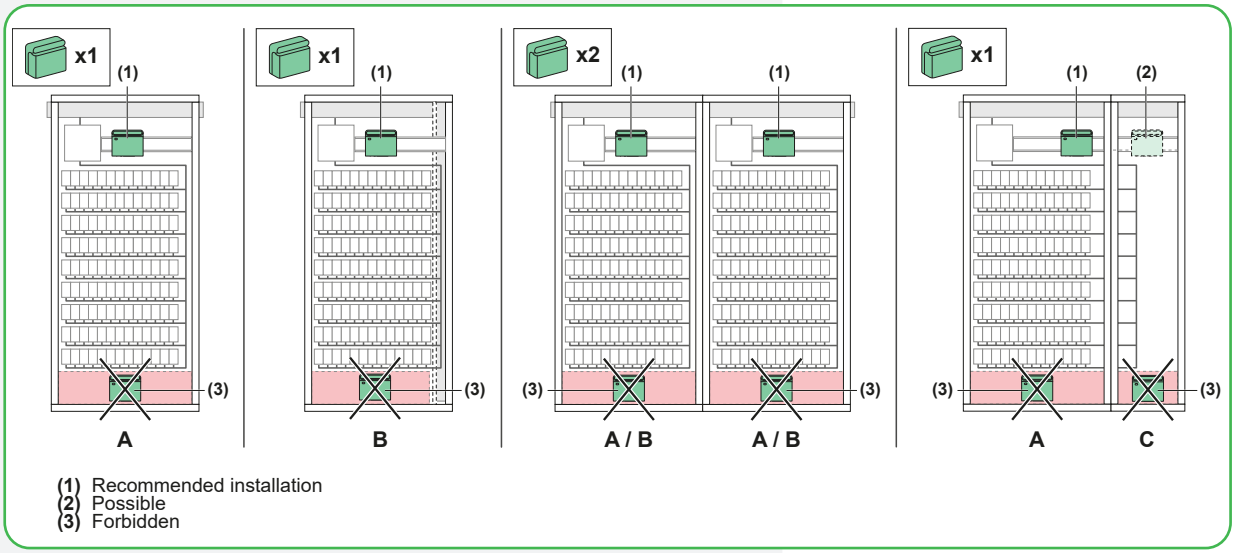
	A	B	C
X	650/800	800	300/400

HeatTag must be installed on a DIN rail.

DB437107.ai



DB437102.ai



PrismaSeT G Pack 160 - 250 enclosures up to 630 A - IP30, IP40, IP41, IP43, IP55





160 A

250 A

630 A

- Schools
- Small shops
- Hotels, etc.

Pack



- 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.

4000 A

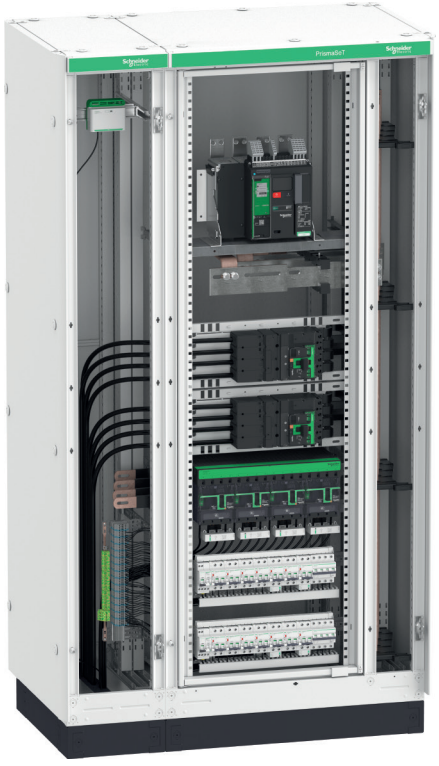


- Hospitals
- Data centres
- Logistics centres
- Shopping centres
- Offices buildings
- Medium industrial solutions

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 equirements 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:

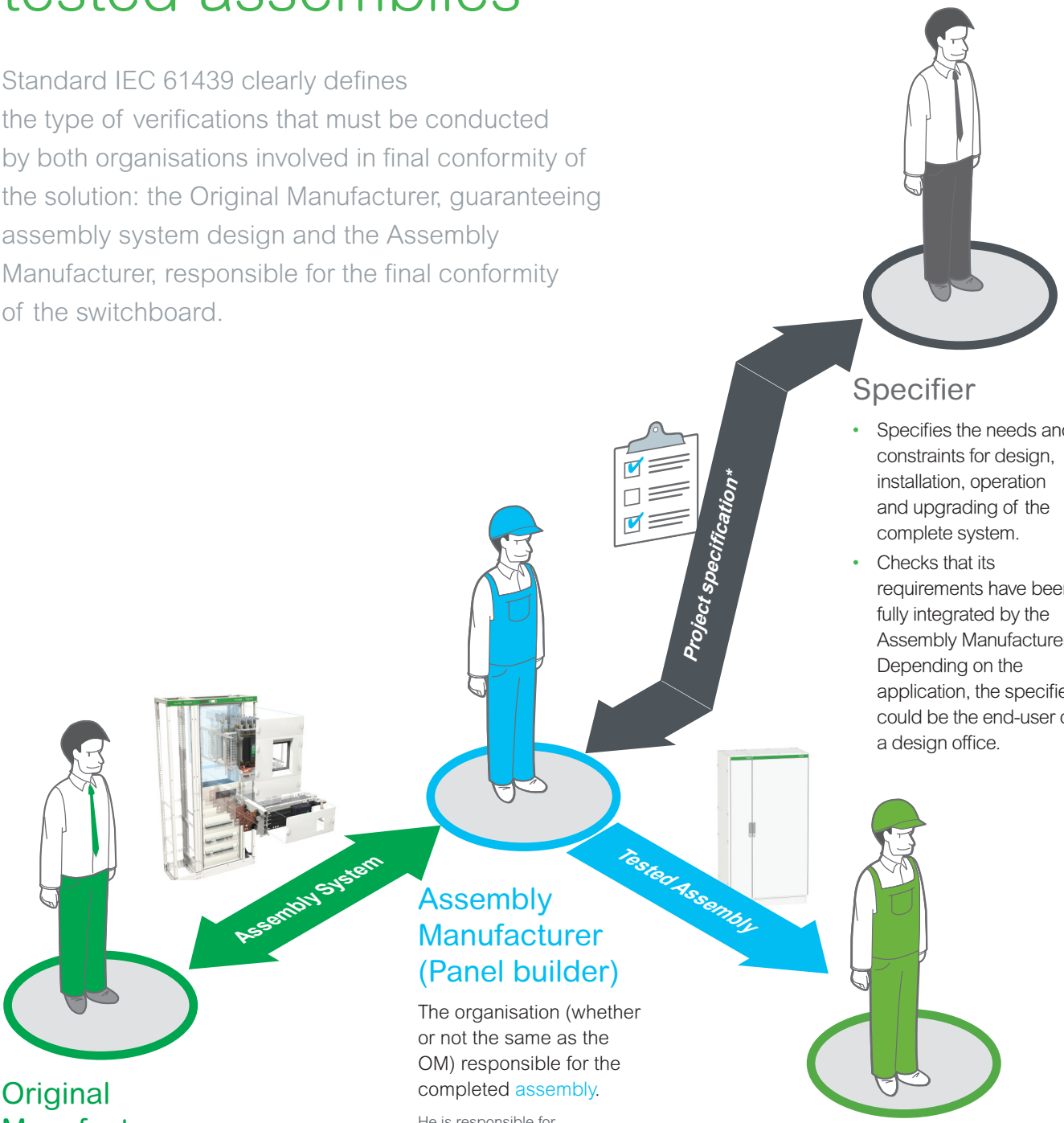
- made up of Schneider Electric low-voltage devices and components that all comply with the applicable standards;
- based on configurations in our catalogue;
- made up of PrismaSeT and Linergy mechanical and electrical components that have been subjected to the verification of original equipment manufacturer;
- 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 catalogue, all the documentation for switchboard design and mounting, calculation and design software, etc.

Panelbuilders can demonstrate conformity with standard IEC 61439-1 and 2 by presenting the declarations or certificates of conformity for type tests carried out by independent laboratories (ASEFA, ASTA, etc.) and supplied by Schneider Electric. The panelbuilder is responsible for the individual routine verification and delivers the corresponding declarations of conformity.

Original Manufacturer and Assembly Manufacturer: Both involved in tested assemblies

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



Specifier

- Specifies the needs and constraints for design, installation, operation and upgrading of the complete system.
- Checks that its requirements have been fully integrated by the Assembly Manufacturer. Depending on the application, the specifier could be the end-user or a design office.

Assembly Manufacturer (Panel builder)

The organisation (whether or not the same as the OM) responsible for the completed assembly.

He is responsible for "Routine verifications" on each panel produced, according to the standard. If he derivates from the instructions of the original manufacturer he has to carry out again design verifications.

Original Manufacturer

The organisation that has carried out the original design and the associated verification of an assembly system.

He is responsible for the "Design verifications" listed by IEC 61439-2 including many electrical tests.

End-User

Should ask for a certified LV switchboard.

By systematically requesting routine verifications, he ensures that the assembly system used is compliant.

Schneider Electric has developed a specification guide.

The main 10 functions of standard IEC 61439

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

Safety

Voltage stresses withstand capability

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

Current-carrying capability

To protect against burns and to withstand temperature rise:

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

Short-circuit withstand capability

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

Protection against electric shock

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

Protection against risk of fire or explosion

- Resistance to internal glowing elements

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

Continuity of service

Maintenance and modification capability

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

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

Electro-Magnetic compatibility

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

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

Compliance with end-user requirements

Capability to operate the electrical installation

To properly function, according to:

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

Capability to be installed on site

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

Protection of the assembly against mechanical and atmospheric environmental conditions

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

IEC 61439-1 paragraph 11.4

Protection against electric shocks and integrity of protection circuits

The following should be checked visually:

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

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

IEC 61439-1 paragraph 11.5

Integration of incorporated components

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

IEC 61439-1 paragraph 11.6

Internal electric circuits and connections

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

This allows:

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

IEC 61439-1 paragraph 11.9

Dielectric properties

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

IEC 61439-1 paragraph 11.10

Wiring, operating performance and function

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

Standard individual check sheet

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

Job No.: .....

Switchboard No.: .....

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

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

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.

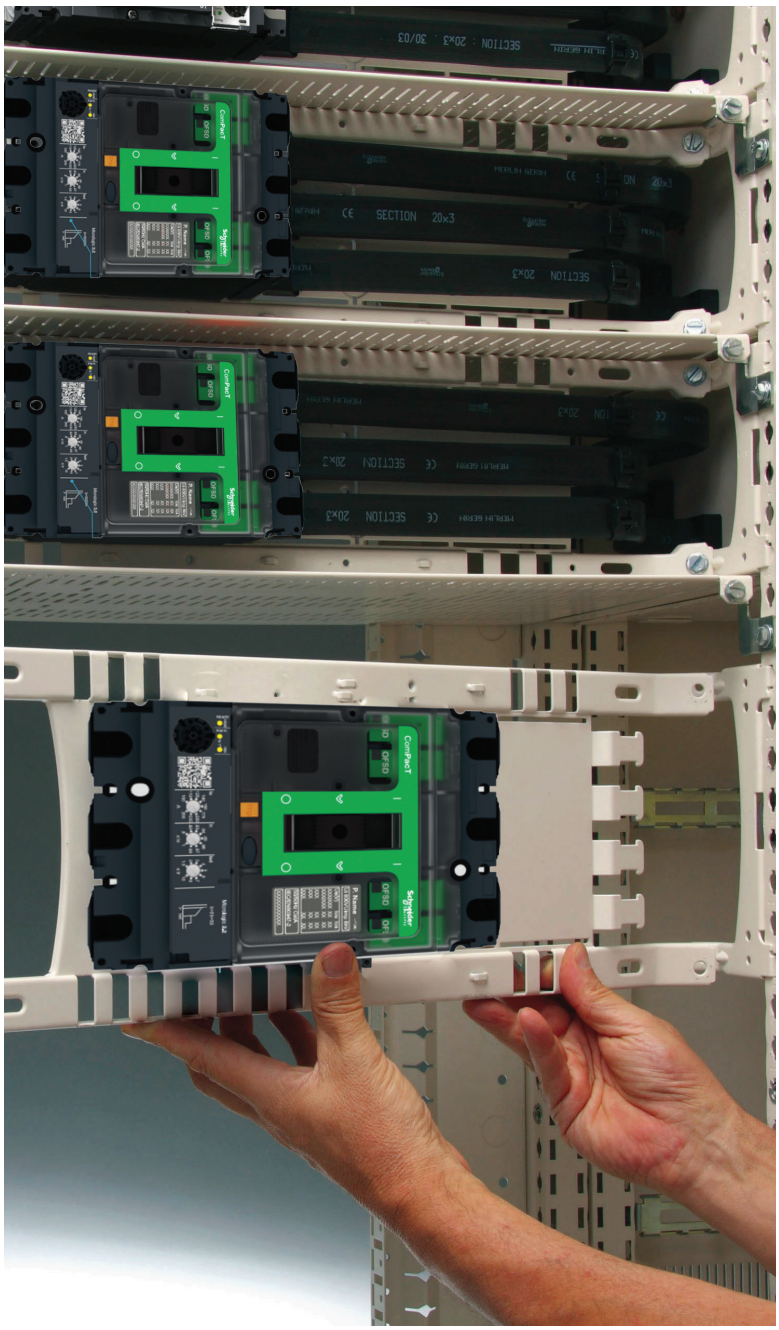
- Available power
- Safety of people and property
- Controlled costs and delivery times
- Upgradeability

with our functional LV systems

… optimised and upgradeable

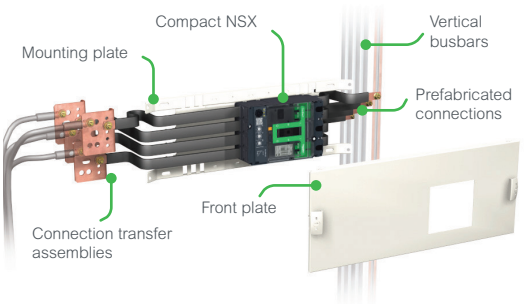
With PrismaSeT P you can build just the right switchboard for your customer, sized precisely to fit costs and needs. With this complete, prefabricated and tested system, it's easy to upgrade your installation and still maintain the original performance levels.

- 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.

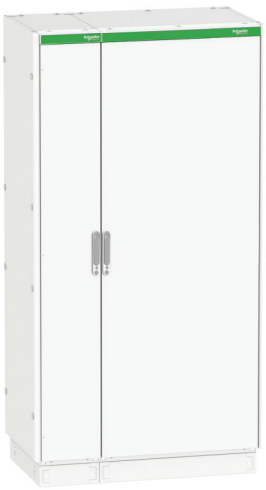
Readily available close by

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.

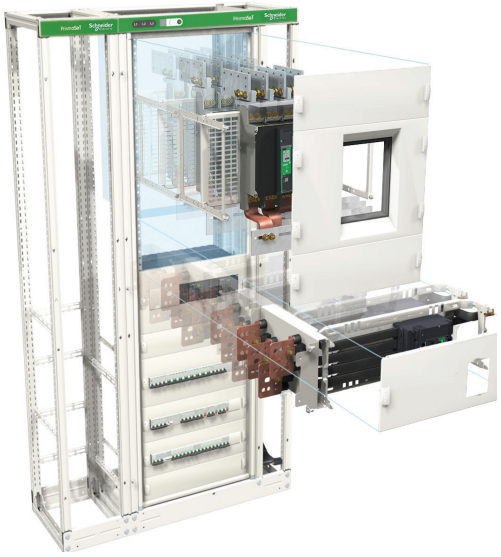
Electrical switchboards up to 4000 A

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.



Electrical characteristics

Complying with standards IEC 62208 and EN 62208:

- rated insulation level of main busbars: 1000 V
- InA : 4000 A
- rated peak withstand current Ipk: 220 kÂ
- rated short-time withstand current Icw: 100 kA rms / 1 second
- frequency: 50/60 Hz
- voltage Ue = 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:
  - IIK07: 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.

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.

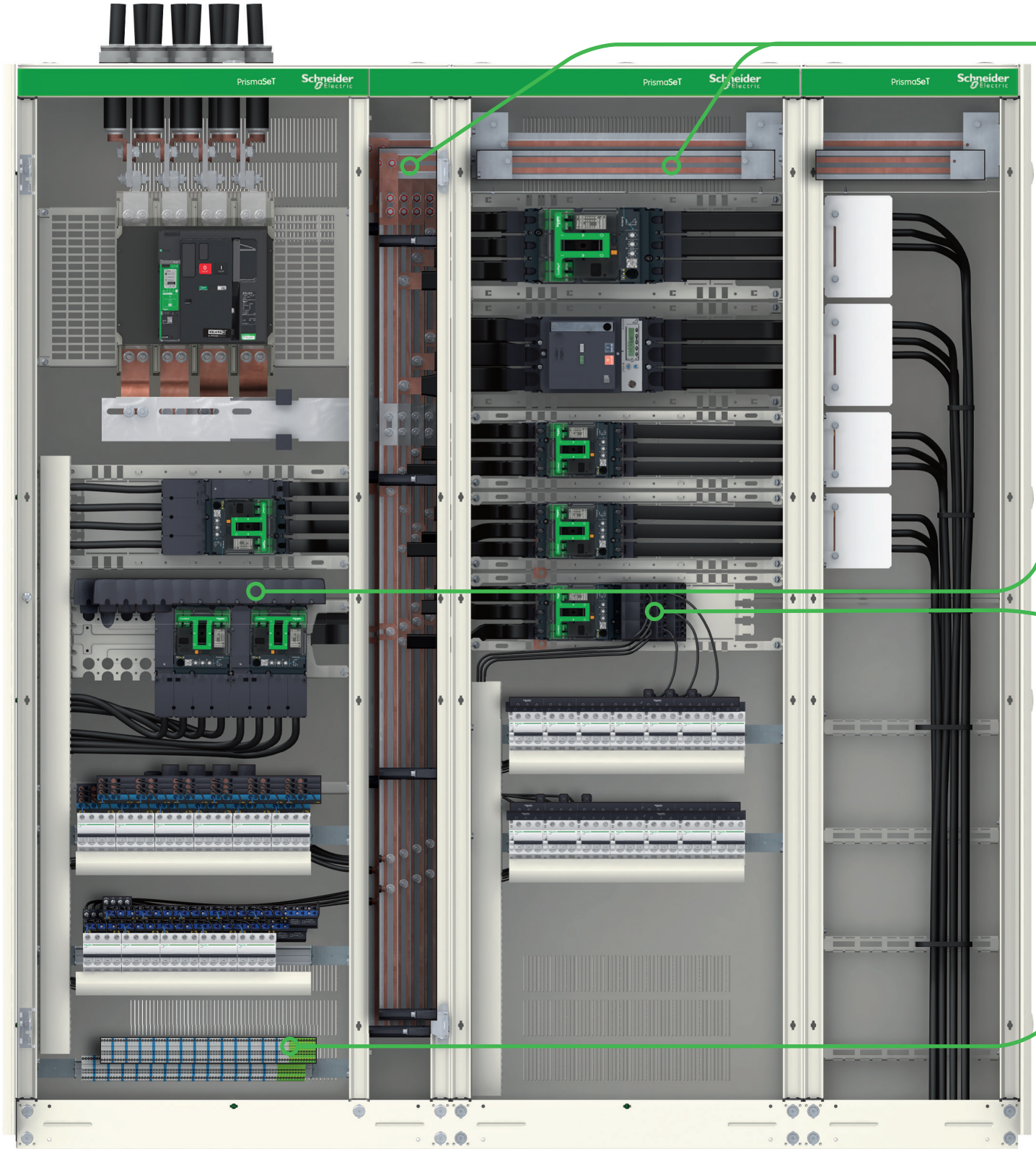


See Linergy HK “Hot plug distribution”

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



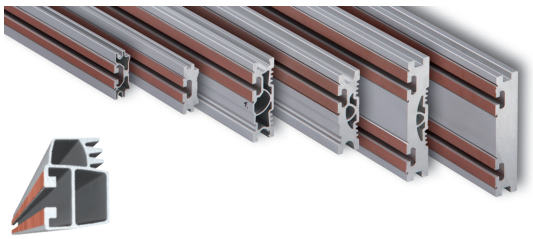
Linergy offers you smart power network



solutions for your switchboard.

Linergy LGY / LGYE / BS

Power busbars

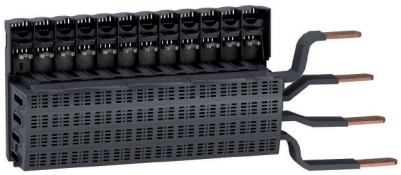


- Solutions available up to 4000 A
- Connection everywhere without drilling (with LGY and LGYE profile)

☞ *page G-2 to G-5*

Linergy FC

Quick distribution blocks

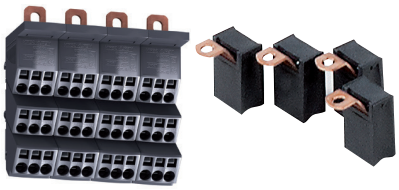


- Compact NSXm (4 x 4P / 5 x 3P) solution
- Compact NSX (3 x 4P / 4 x 3P) solution
- Reliable connection
- Quick connection system dedicated to Compact NSXm up to 160A / Compact NSX up to 250 A

☞ *pages G-18, G-20*

Linergy DP

Distribution blocks

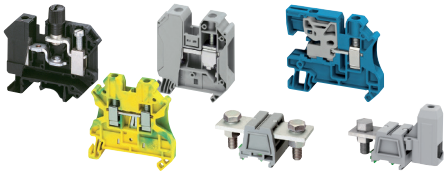


- Simplicity of use
- Quick connection system dedicated to Compact NSXm up to 160A / Compact NSX up to 250 A

☞ *pages G-16, G-17*

Linergy TR

Terminal blocks and bars



- Simplicity of use
- Consistency and cross-functionality guaranteed

☞ *page G-42*

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 equipement 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 60364-4-4-44 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 operarting 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

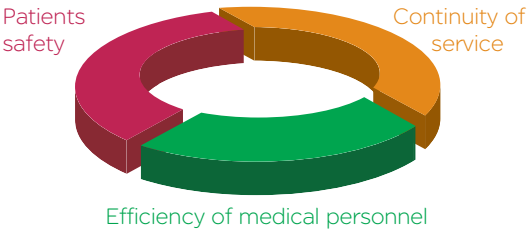
Ensuring the satisfactory operation of operating room is essential for a hospital.

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

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Standards and tested switchboards

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Standards types C-3

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Properties of metal enclosures C-7

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Thermal management of switchboards
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Specific application

PrismaSeT P Seismic
Specific application C-17
Seismic kit C-18
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C

Standards
Regional standardization systems



Standards and tested switchboards

IEC international standards

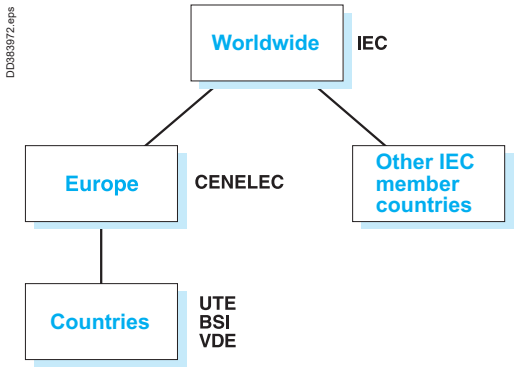
IEC member countries

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	Yugoslavia
Japan	
Korea (Rep. of)	

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

The object of the IEC is to promote international cooperation on all questions concerning standardisation in the electrical and electronic fields.
To that end, the IEC publishes International Standards.
Their preparation is entrusted to technical committees and any IEC National Committee interested in the subject dealt with may participate in the preparatory work.

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

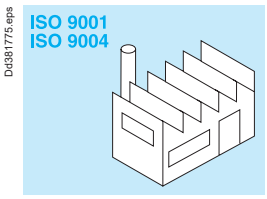
Standards
Standards types



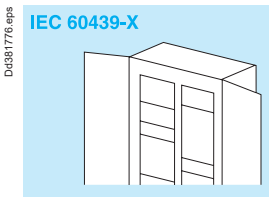
Standards and tested switchboards

The different types of standards

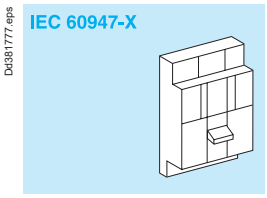
There are different types of standards, including:
- management standards
- installation standards
- product standards.



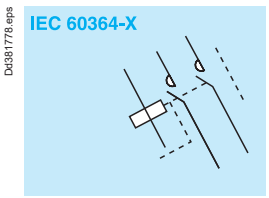
Design and manufacture.



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.

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

In addition to providing proof of the conformity of its quality-management system, a product manufacturer can demonstrate the quality of products by providing proof that the design and manufacture comply with the requirements in the applicable standard.
Proof of conformity may be a declaration by the manufacturer or a certificate supplied by an independent organisation.

Standards



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.

CE

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



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.

C

1st numeral			2nd numeral	
	Protection of persons	Protection against ingress of solid objects		Protection against ingress of water
1	Protected against access with back of hand	Protection against solid foreign objects larger than 50 mm	1	Protected against vertically dripping water (condensation)
2	Protected against access with a finger	Protection against solid foreign objects larger than 12.5 mm	2	Protected against dripping water up to 15° from vertical
3	Protected against access with a tool	Protection against solid foreign objects larger than 2.5 mm	3	Protected against spraying water up to 60° from vertical
4	Protected against access with a wire	Protection against solid foreign objects larger than 1 mm	4	Protected against splashing water from all directions
5	Protected against access with a wire	Protected against dust (dust protected)	5	Protected against water jets from all directions
6	Protected against access with a wire	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

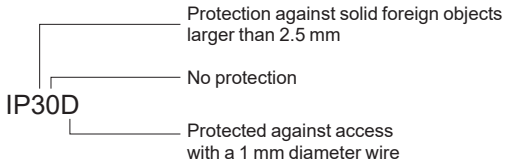
Additional letter

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 catalogue are valid for the enclosures as presented. However, the indicated degree of protection is guaranteed only when installation and device mounting are carried out in accordance with professional standards that conserve the initial degree of protection.

IK code

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

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

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

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

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 cataphoresis 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

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

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-perchlorethylene							

Film intact.

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

Thermal management of switchboards
General

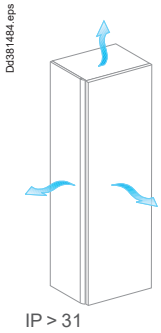
Thermal characteristics of switchboards

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.

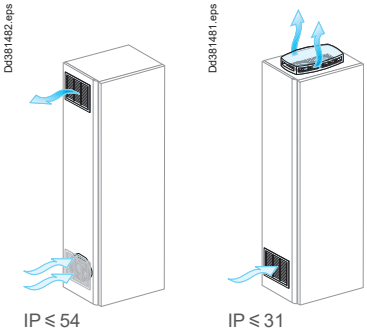
Convection



IP > 31 IP ⩽ 31

Ensured naturally in PrismaSeT P enclosures.

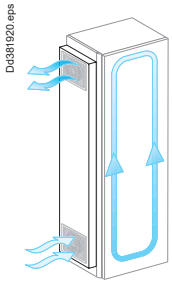
Forced-air ventilation



IP ⩽ 54 IP ⩽ 31

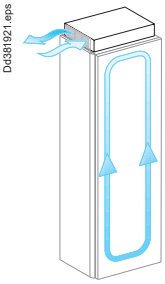
Using fans, it significantly increases the thermal capacity of an enclosure.

Forced-air ventilation with air-air exchanger



IP > 31
On special request.

Forced convection and cooling



IP > 31

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

Heating
The means employed to raise the internal temperature in a switchboard is a resistor-based heater, used to:
- avoid condensation by limiting variations in temperature
- ensure that the switchboard does not freeze.

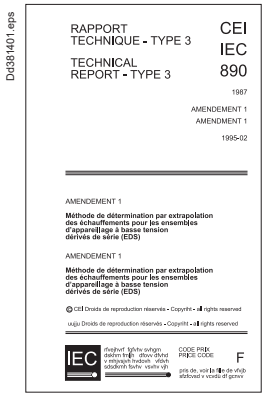
Thermal characteristics of switchboards

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.

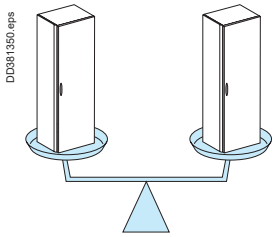
Important note

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) ⩽ the P(W) that the enclosure can handle.

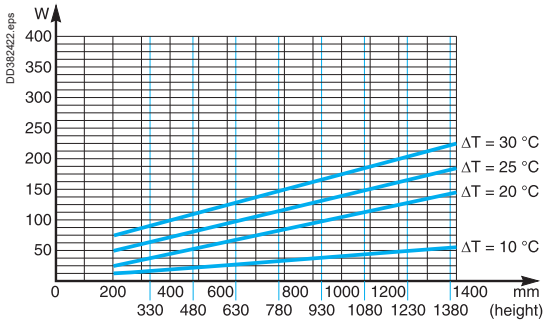


Method defined by IEC 890 technical report
This IEC guide for switchboards proposes a calculation method to determine three levels of internal temperature, depending on the dissipated power of the devices and distribution blocks installed in the switchboard.
Users can consult this document when it is 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 en 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

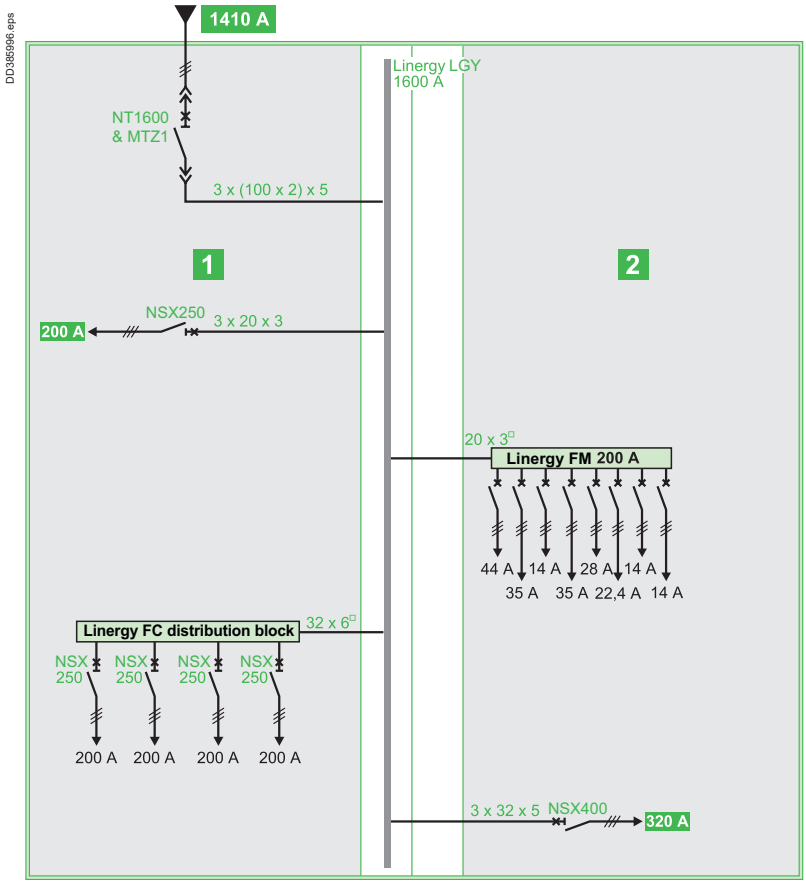
Two cubicles with busbar compartment, 800 mm wide, 400 mm deep, IP30

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



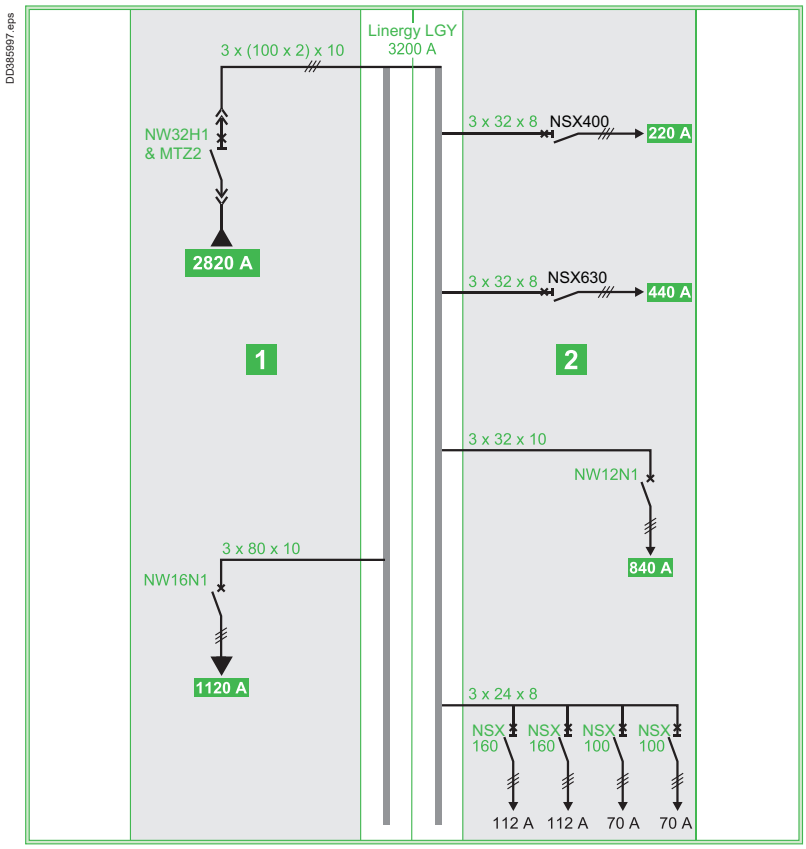
Two cubicles with busbar compartment, 800 mm wide, 1000 mm deep, two 300 mm wide ducts, IP30

Diversity factor: 0.7

Ambient temperature around the switchboard: 35 °C

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

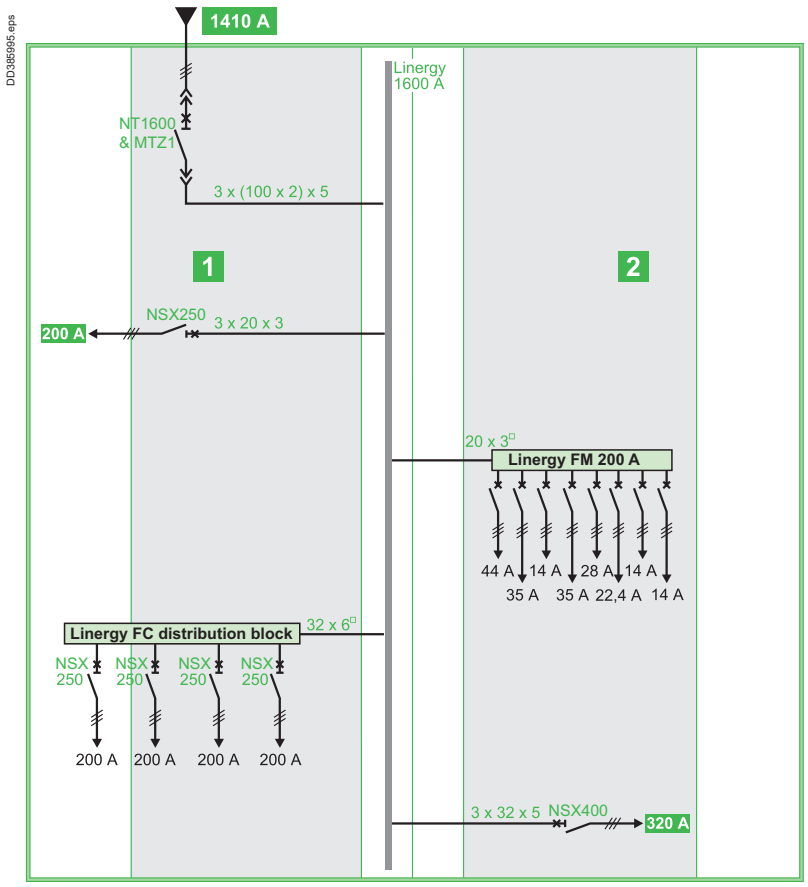
Cubicle 2: P(W) of device zone = 330 W



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 Linergy FM: 8 outgoers ➡ K div. = 0.7
- Linergy FC: 4 outgoers ➡ K div. = 0.8
- Compact NSX400.

1 Compact NSX250 + 1 Linergy FM 200 A + 1 Linergy 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 x 460 = 138 W.
Power of circuit breaker + connections = 460 + 138 = 598 W at 1600 A.
For I^2 (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 x 42 = 12.6 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 Linergy FC and its four Compact NSX250 circuit breakers:

4 x 35 W (same calculation as above) = 140 W

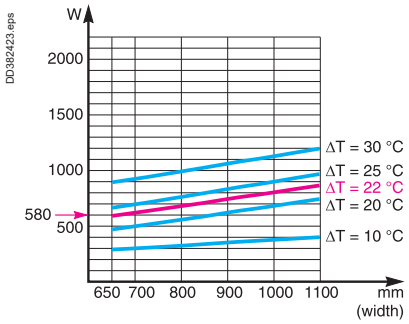
Sum of the dissipated power in the incoming cubicle:

P(W) = 405 + 35 +140 = **580 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 °C + 22 °C = 57 °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.

C

Thermal management of switchboards
Charts

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

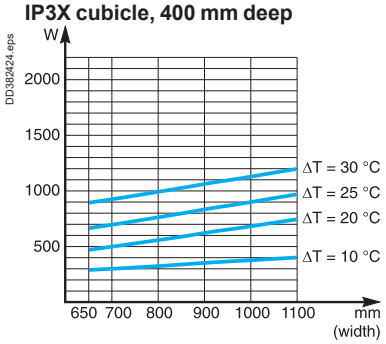
K = 5.5 W/m² °C for painted sheet metal.

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

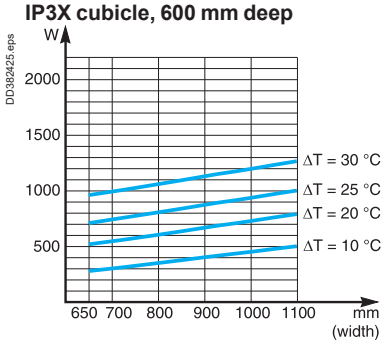
Thermal characteristics of switchboards

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.

IP3X cubicle, 400 mm deep

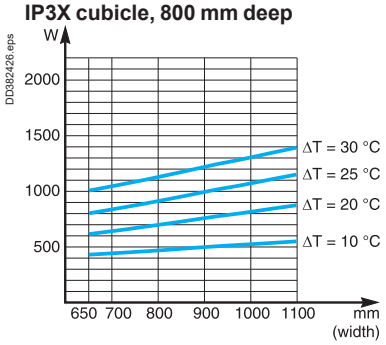


IP3X cubicle, 600 mm deep

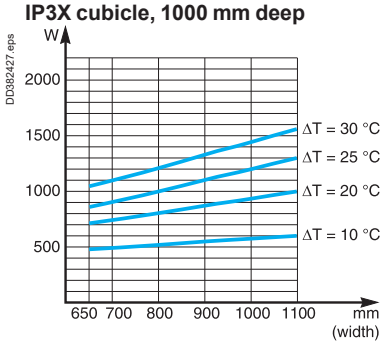


PrismaSeT P has been tested in a laboratory for a seismic withstand. The switchboards have been tested according to the standards IEC60068-3-3 & 2-57.

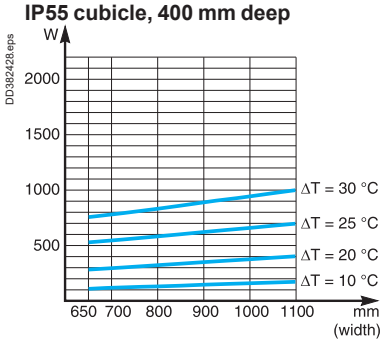
IP3X cubicle, 800 mm deep



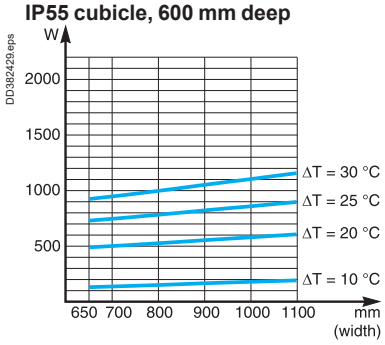
IP3X cubicle, 1000 mm deep



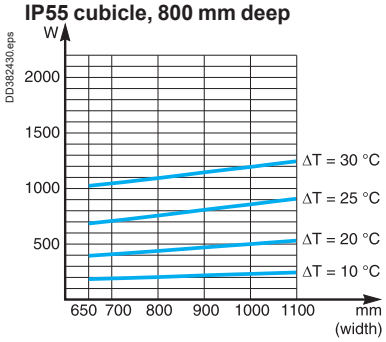
IP55 cubicle, 400 mm deep



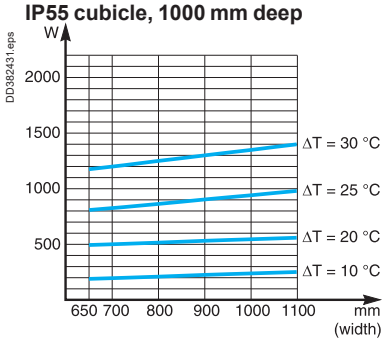
IP55 cubicle, 600 mm deep



IP55 cubicle, 800 mm deep



IP55 cubicle, 1000 mm deep



Thermal 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:

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

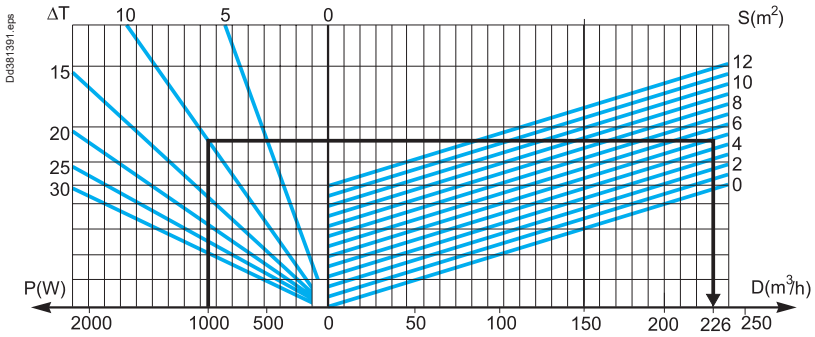
The chart below can be used to determine the necessary throughput, based on the dissipated power, the difference in temperature (internal - external) and the exposed surface area of the enclosure.

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 ΔT is equal to 60 - 50 = 10 °C.
The exposed surface of the cubicle (non adjacent to a wall or other cubicle) is 4.46 m².
(back = 1.3 m², front = 1.3 m², roof = 0.26 m², side panels = 1.6 m²).
What is the necessary throughput of the ventilation system?
The throughput can be calculated as:

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

D = 234 m³/h.
In the range of PrismaSeT P accessories, select a system with a throughput of 300 m³/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)
ΔTm = Tm – Te
ΔT = Ti– Te
S: total free surface area of the enclosure (expressed in m²)
K: thermal-conduction coefficient of the material (W/m² °C)
K = 5.5 W/m² °C for painted sheet metal
D: ventilation throughput (in m³/h)

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

Thermal 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: Pr = (ΔT x S x 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)

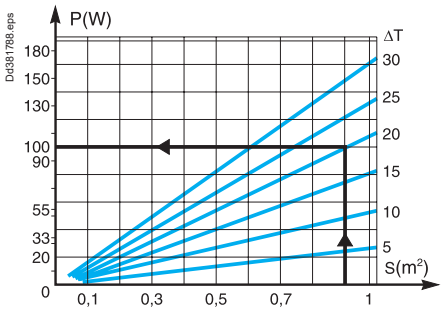
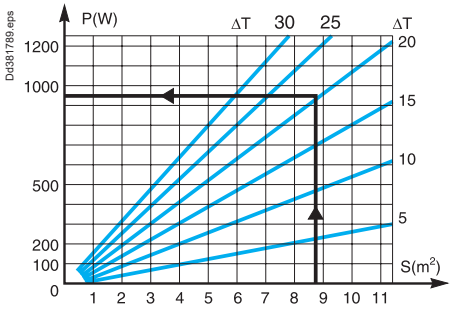


Chart to determine the heating resistor for all types of enclosures and cubicles



Calculation data
P: power dissipated by the devices, connections and busbars (in Watts)
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)
Δ**Tm** = Tm – Te
Δ**T** = Ti– Te
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).

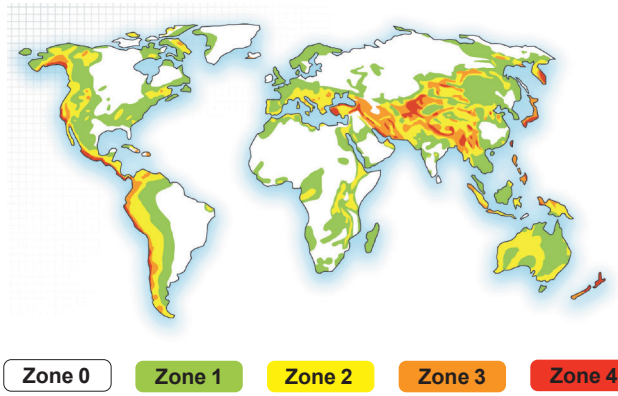
Note: The dissipated power of each device is provided by the manufacturer. Add approximately 30 % to account for the connections and the busbars.

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).



C

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.

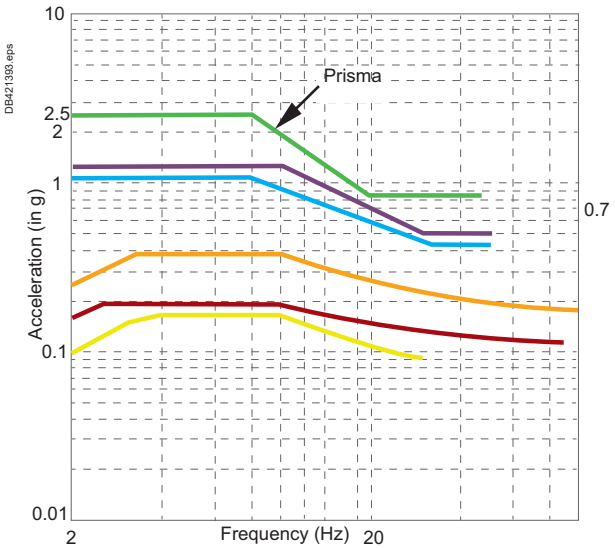
Classification

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

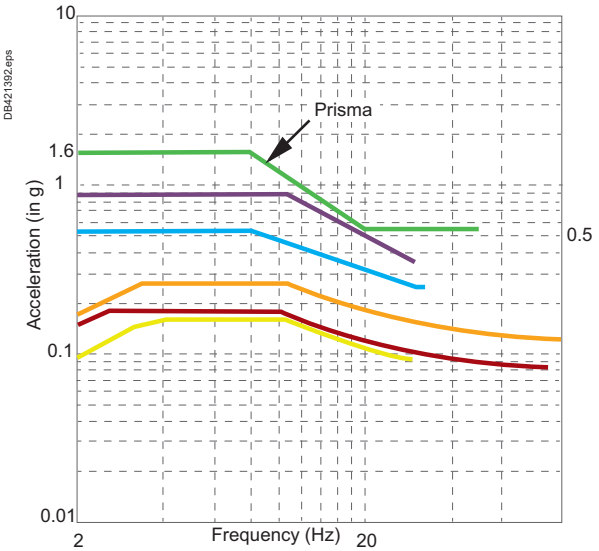
IEC 60068 -3-3 Ground acceleration	Seismic characteristics			
References	General description	Richter scale magnitude	MSK Intensity	UBC Zone
AG2	Intensity from weak to average	< 5 .5	< VIII	0 1
AG3	Intensity from average to strong	5.5 to 7.0	VIII to IX	2 3
AG5	Intensity from strong to very strong	> 7.0	> 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.

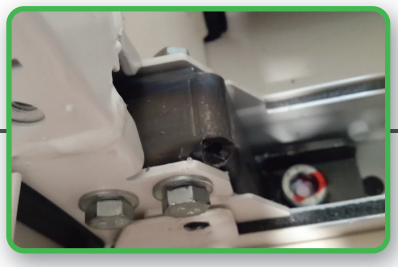
Reinforced side panels

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

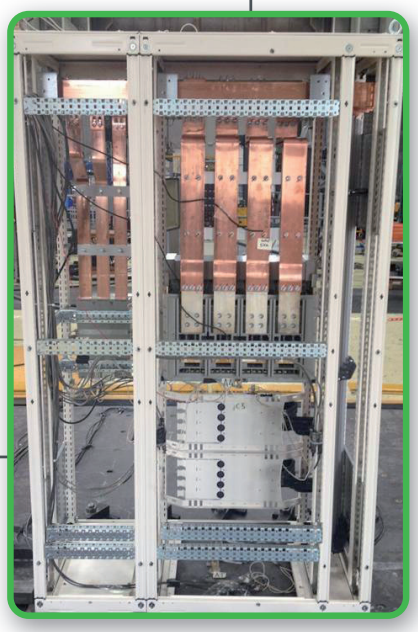
With ducts 150 mm & 300 mm = cross-members not needed
With duct 400 mm without devices = cross-members not needed

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.



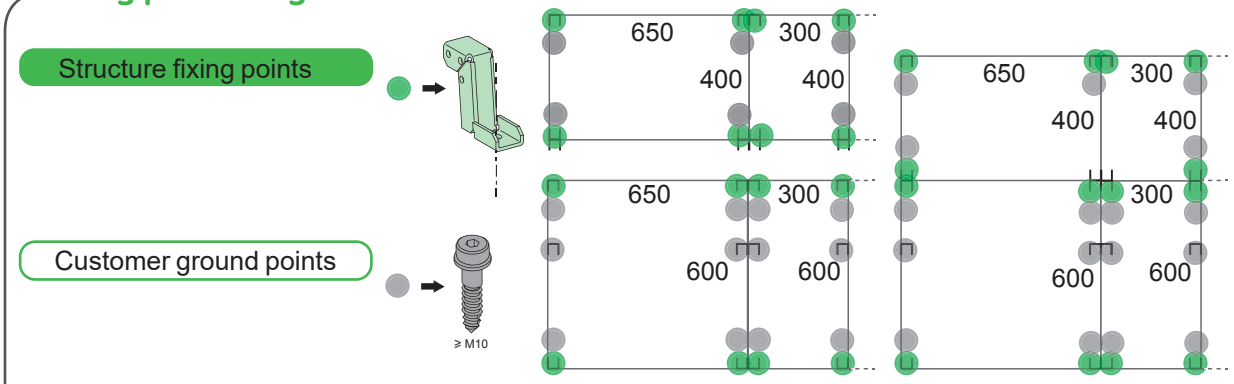
PrismaSeT P Seismic
Installation conditions

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



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:

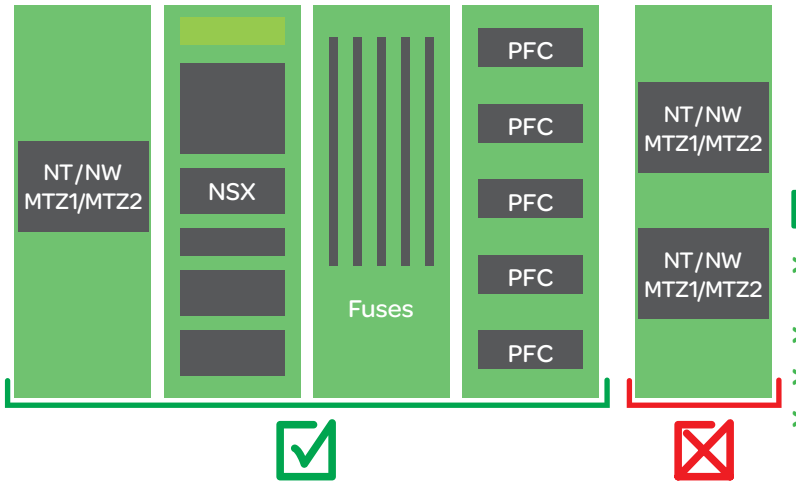
> Minimum switchboard width (1) = 1200 mm
> Minimum cubicle depth = 400 mm
> Height = 2000 mm

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

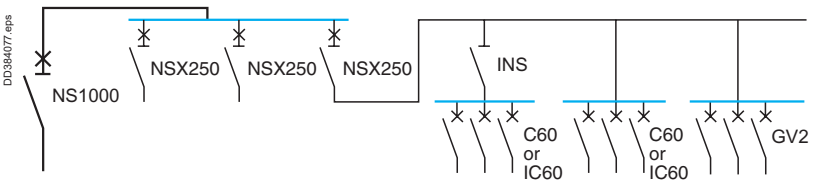
Version : 8.0 - 10/04/2021
160E4000

Contents

Select a cubicle configuration D-2

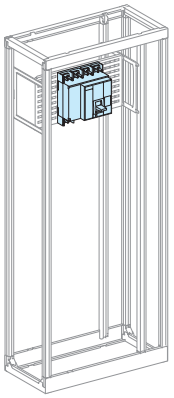
Select a cubicle configuration

Starting with the electrical diagram: IP30 switchboard



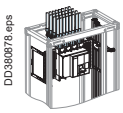
Install the incomer

See page E-2

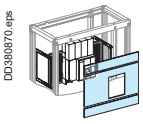


Order
- connection components
- mounting plates and front plates
- busbar connections.

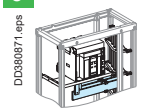
1 Front conn. using cables



2 Device installation



3 Linergy LGY BB conn.



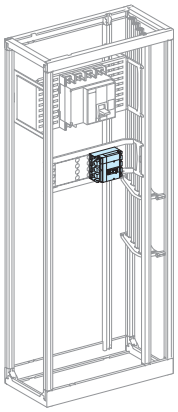
Device		Fixed device	
		NS630b/1000	NS1250/1600
Arc chute screen	3P	33596	
	4P	33597	
Vertical connection adapters	3P	33642	
	4P	33643	
Front connection cover		LVS04851	

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

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

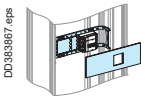
Install the Compact devices

See page E-20

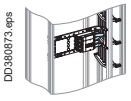


Order
- mounting plates and front plates
- busbar connections
- connection accessories.

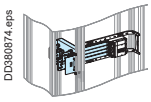
1 Installation



2 Linergy LGY BB conn.



3 Connection

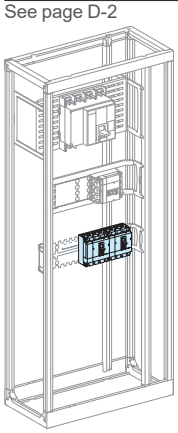


Device		Toggle	
		NSX100/250, Vigi NSX100/250	
		3P	4P
Number of device per row		1	1
No. of vertical modules		3	4
Mounting plates		LVS03411	LVS03412
Front plates [No. of vertical modules]	with cut-out	LVS03604 [3]	LVS03606 [4]

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

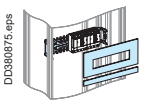
Device		Toggle		
		NSX100/160	Vigi NSX100/160	NSX250
Number of device per row		3/4	3/4	3/4
No. of vertical modules		6	8	7
Mounting plates		LVS03420	LVS03420	LVS03420
Front plates [No. of vertical modules]	with cut-out	LVS03243 [5]	LVS03241 [7]	LVS03243 [5]
	downstream	LVS03801 [1]	LVS03801 [1]	LVS03802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

See page D-2

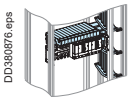


Order
- mounting plates and front plates
- distribution block
- connection accessories.

1 Installation



2 Linergy LGY BB conn.



3 Connection



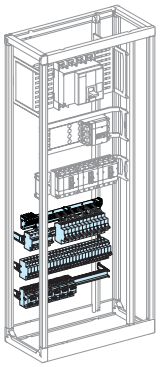
Device		Toggle			
		NSX100/160	Vigi NSX100/160	NSX250	Vigi NSX250
Number of device per row		3/4	3/4	3/4	3/4
No. of vertical modules		6	8	7	9
Mounting plates		LVS03420	LVS03420	LVS03420	LVS03420
Front plates [No. of vertical modules]	with cut-out	LVS03243[5]	LVS03241 [7]	LVS03243 [5]	LVS03241 [7]
	downstream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

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

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

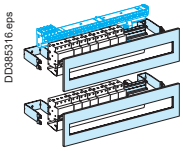
Select a cubicle configuration

Install the modular devices



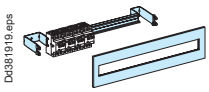
Order the mounting plates and front plates taking into account:
- supply to the rows
- cable running.

1 Acti 9
See page E-64



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

2 GV2 circuit breaker
See page E-63



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

Linergy FH comb busbar see page G-30 to G-36
Cable running see page F-27

Determine the size of the switchboard

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

32 modules

1 cubicle

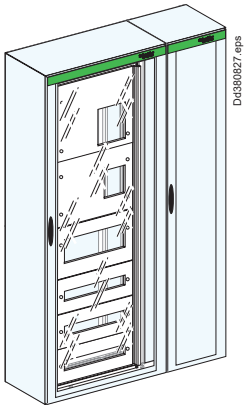
The capacity of a cubicle is 36 modules.

Plain front plate
See page F-23

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



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

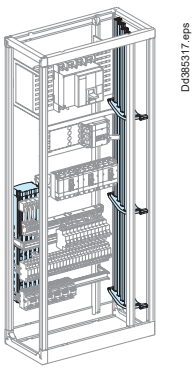
Dimensions	W = 300 mm	W = 400 mm	W = 650 mm	W = 800 mm
Rear panels	LVS08733	LVS08734	LVS08736	LVS08738

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 D = 400 mm	LVS08433	LVS08434	LVS08436	LVS08438
Plain roof D = 600 mm	LVS08633	LVS08634	LVS08636	LVS08638

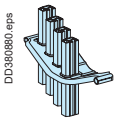
Plan the distribution system

See page G-1



Linergy LGY busbars

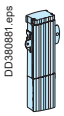
1
See page G-4



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

Designation C	at. No.
Busbar support	LVS04851

2 Linergy BW busbars
See page G-14



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

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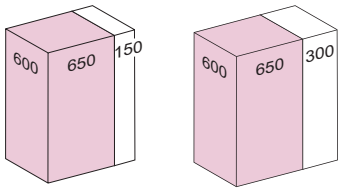
E

MasterPact MTZ2 08 to 32

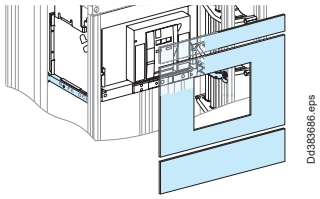
Cables connection

Fixed, withdrawable

Mounting

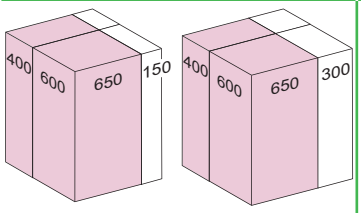


Front connection

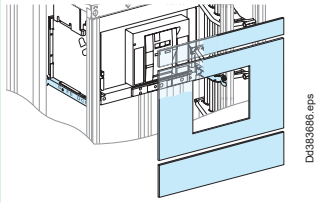


Devices		Fixed device		Withdrawable device	
		MTZ2 08/16	MTZ2 20/32	MTZ2 08/16	MTZ2 20/32
Number of devices per row		1	1	1	1
No. of vertical modules (1)		**18**	**19**	**19**	**20**
Mounting plates		**LVS03500**	**LVS03500**	**LVS03500**	**LVS03500**
Front plates [No. of vertical modules]	upstream	**LVS03804** [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

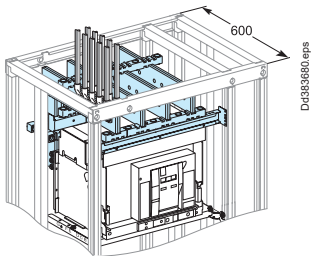


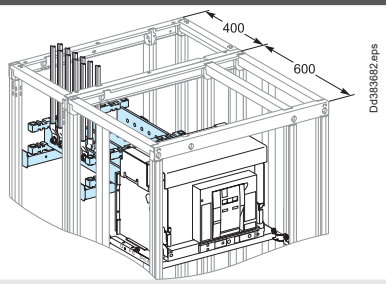
Devices		Fixed device		Withdrawable device	
		MTZ2 08/16	MTZ2 20/32	MTZ2 08/16	MTZ2 20/32
Number of devices per row		1	1	1	1
No. of vertical modules		**14**	**14**	**15**	**15**
Mounting plates		**LVS03500**	**LVS03500**	**LVS03500**	**LVS03500**
Front plates [No. of vertical modules]	with cut-out	**LVS03711**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

Connection



Upstream on incomer





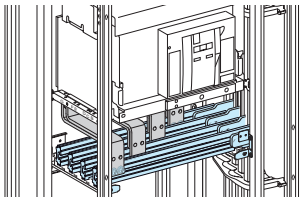
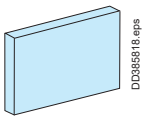
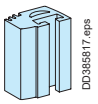
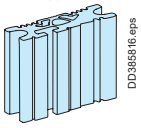
Devices		Fixed device	Withdrawable device
		MTZ2 08/32	MTZ2 08/32
Type of terminals		Vertical rear connections supplied with the device	
Connection		must be made (2)	
Front connection	bar supports	2 x **LVS04694** + **LVS04678**	
	cables cover	**LVS04861**	
Rear connection	bar supports	2 x **LVS04694**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

Distribution		Downstream on Linergy LGY, LGYE or BS busbars					
							
Devices		**Fixed and withdrawable** **MTZ2 08/16**		**Fixed and withdrawable** **MTZ2 20/25**		**Fixed and withdrawable** **MTZ2 32**	
		3P	**4P**	**3P**	**4P**	**3P**	**4P**
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 (**LVS04640**), 1 joint for busbars, W = 80/100 mm (**LVS04641**).			
	Free support	2 x **LVS04662** For Icw ≥ 75 kA rms, add an additional free support **LVS04662**.					
	Cover	**LVS04926** + **LVS04927**					
For vertical busbar Linergy LGY 	Connection	**LVS04493**	**LVS04494**	must be made according to the busbar drawings supplied by Schneider Electric.			
	Joint	**LVS04683**	**LVS04684**	-			
	Free support	-	-	2 x **LVS04662** For Icw ≥ 75 kA rms, add an additional free support **LVS04662**.			
	Cover	**LVS04925** + **LVS04928**		**LVS04926** + **LVS04927**			
For vertical busbar Linergy LGYE **(1)** 	Connection	-	-	**LVS04495**	**LVS04496**	**LVS04497 (2)**	**LVS04498 (2)**
	Joint	-	-	3 x **LVS04685**	4 x **LVS04685**	3 x **LVS04687**	4 x **LVS04687**
	Cover	**LVS04925** + **LVS04928**					

(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.

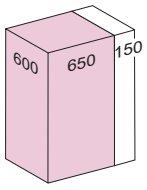
Note: to make measurements:
Install the CTs preferably upstream, on the supply terminal extension bars or install the CTs on the horizontal busbars (busbar connection). In this case, add one module and a plain front plate (**LVS03801**) or install a Micrologic control unit capable of displaying the values.
Selection of busbars: Linergy LGY *> page G-4*, Linergy LGYE *> page G-5*, Linergy BS *> page G-6*.

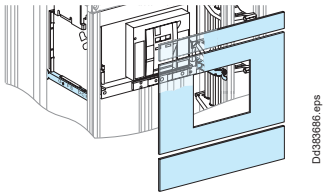
MasterPact MTZ2 08 to 32

Canalis connection

Fixed, withdrawable

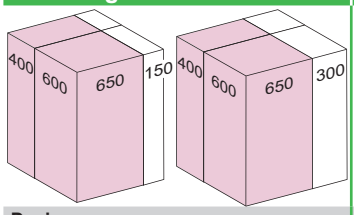
Mounting — Front connection

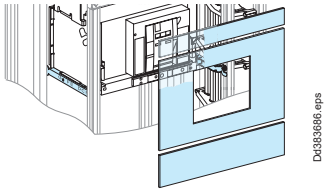




Devices		Fixed device		Withdrawable device	
		MTZ2 08/16	MTZ2 20/32	MTZ2 08/16	MTZ2 20/32
Number of devices per row		1	1	1	1
No. of vertical modules (1)		**27**	**28**	**27**	**28**
Mounting plates		**LVS03500**	**LVS03500**	**LVS03500**	**LVS03500**
Front plates [No. of vertical modules]	upstream	**LVS03805** [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

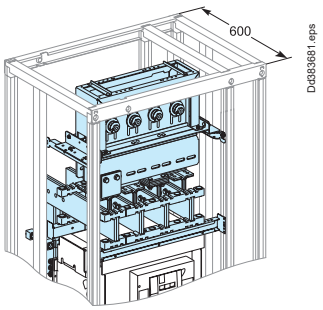


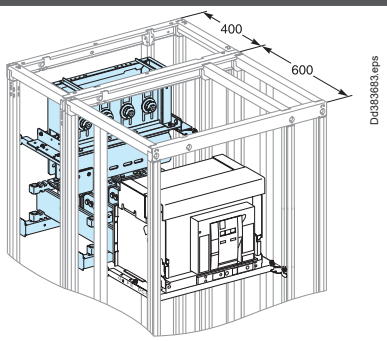


Devices		Fixed device		Withdrawable device	
		MTZ2 08/16	MTZ2 20/32	MTZ2 08/16	MTZ2 20/32
Number of devices per row		1	1	1	1
No. of vertical modules		**16**	**16**	**17**	**17**
Mounting plates		**LVS03500**	**LVS03500**	**LVS03500**	**LVS03500**
Front plates [No. of vertical modules]	upstream	**LVS03804** [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







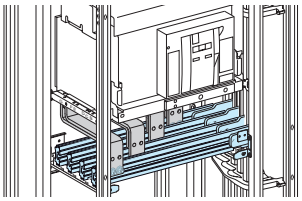
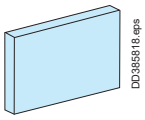
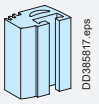
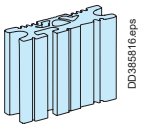
Devices		Fixed device						Withdrawable device					
		MTZ2 08/16		MTZ2 20/25		MTZ2 32		MTZ2 08/16		MTZ2 20/25		MTZ2 32	
Type of terminals		Vertical rear connections supplied with the device											
Canalis support		**LVS03561**											
Canalis interface (2)		3P	4P	3P	4P	3P	4P	3P	4P	3P	4P	3P	4P
		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.
For downstream prefabricated connection with Linergy LGYE, 1 additional module is required only for MTZ2 3200A. Select downstream plain front plate (**LVS03806**).
(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.

MasterPact MTZ2 08 to 32

Canalis connection

Fixed, withdrawable

Distribution		Downstream on Linergy LGY, LGYE or BS busbars					
		 DD385815.eps					
Fixed / withdrawable devices		**MTZ2 08/16**		**MTZ2 20/25**		**MTZ2 32**	
		3P	**4P**	**3P**	**4P**	**3P**	**4P**
Type of terminals		Front connections supplied with the device.					
For vertical busbar Linergy BS  DD385818.eps	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 (**LVS04640**), 1 joint for busbars, W = 80/100 mm (**LVS04641**).			
	Free support	2 x **LVS04662** For Icw ≥ 75 kA rms, add an additional free support **LVS04662**.					
	Cover	**LVS04926** + **LVS04927**					
For vertical busbar Linergy LGY  DD385817.eps	Connection	**LVS04493**	**LVS04494**	must be made according to the busbar drawings supplied by Schneider Electric.			
	Joint	**LVS04683**	**LVS04684**	-			
	Free support	-	-	2 x **LVS04662** For Icw ≥ 75 kA rms, add an additional free support **LVS04662**.			
	Cover	**LVS04925** + **LVS04928**		**LVS04926** + **LVS04927**			
For vertical busbar Linergy LGYE (1)  DD385816.eps	Connection	-	-	**LVS04495**	**LVS04496**	**LVS04497** (2)	**LVS04498** (2)
	Joint	-	-	3 x **LVS04685**	4 x **LVS04685**	3 x **LVS04687**	4 x **LVS04687**
	Cover	**LVS04925** + **LVS04928**					

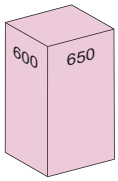
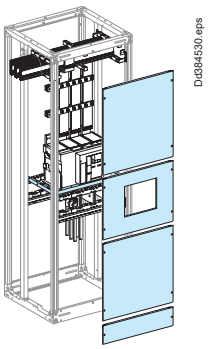
(1) For LGYE 08/25, use a duct W = 150 mm. For LGYE 32/40, use a duct W = 300 mm.
(2) One additional module is required, select **LVS03806** plain front plate for downstream.

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*.

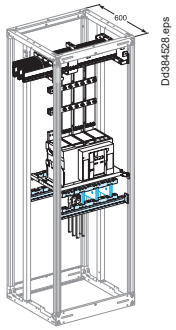
MasterPact MTZ2 08 to 40

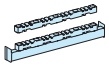
Dedicated cubicle - W = 650 mm

Fixed, withdrawable

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]	(2)	**LVS03808** [12]	(2)
	with cut-out	**LVS03711** [9]	(2)	**LVS03710** [10]	(2)
	downstream	**LVS03808** [12] + **LVS03803** [3]	(2)	**LVS03808** [12] + **LVS03802** [2]	(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:
- 1 3-module front plate + 1 plain front plate **LVS03807** (9 modules)
- 2 3-module front plates + 1 plain front plate **LVS03806** (6 modules)

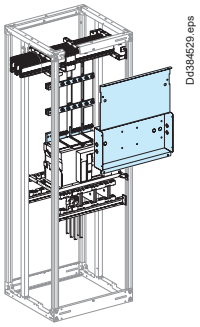
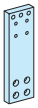
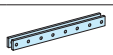
(2) Contact Schneider Electric for 4000 A dedicated cubicle.
(3) Connection to be made according to the busbar drawings supplied by Schneider Electric.

Human-switchboard interface > page E-67.

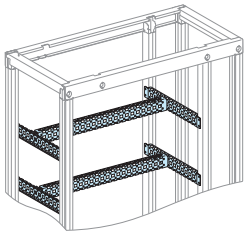
MasterPact MTZ2 08 to 40

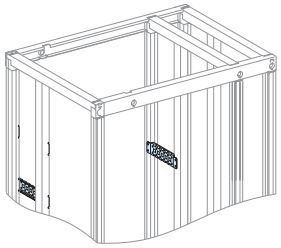
Dedicated cubicle - W = 650 mm

Fixed, withdrawable

Distribution	Downstream up links on horizontal busbars Linergy LGYE				Linergy BS		
							
Fixed / withdrawable devices	**MTZ2 08/16**	**MTZ2 20/25**	**MTZ2 32**	**MTZ2 40** (1)	**MTZ2 08/25**	**MTZ2 32**	**MTZ2 40** (1)
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	Connection must be made (2)				Connection must be made (2)		
horizontal 3200 A	-				**LVS04637** (3)	**LVS04637** (3)	-
mouting hardware	-				-	**LVS04642**	-
Busbar cover (4) 	**LVS04860**	**LVS04860**	**LVS04860**	-	**LVS04860**	**LVS04860**	-

Accessories





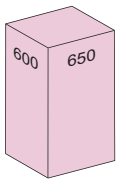
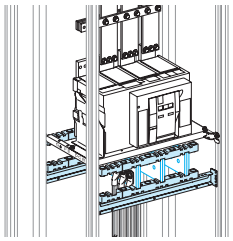
	Cross-members	
Catalogue number	**LVS03584**	**LVS03586**
Characteristics	Set of 2 For 650 mm wide and 400 mm deep cubicle	Set of 2 W = 200 mm, can be added to the 400 mm cross-members for frameworks that are 600 mm deep. They can also be installed separately

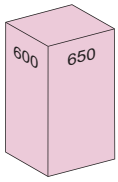
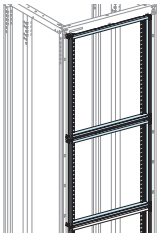
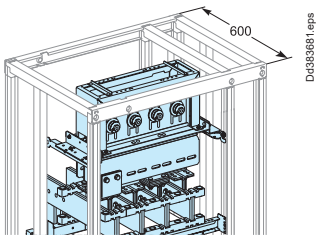
(1) Contact Schneider Electric for 4000 A dedicated cubicle.
(2) Connection to be made according to the busbar drawings supplied by Schneider Electric.
(3) Catalogue number **LVS**04637 includes 1 connection only. Order 1 connection per phase.
(4) The cover is compulsory behind front plates designed for measurement devices.

MasterPact MTZ2 08 to 32

Partial front plate support frames

Withdrawable

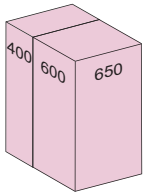
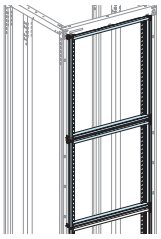
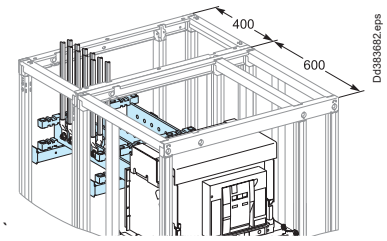
Mounting		Front connection with cables in dedicated cubicle
		 
Devices		**Withdrawable device**
		MTZ2 08/32
No. of vertical modules		**36** (3)
Mounting plates		**LVS03500**
Front plates [No. of vertical modules]	upstream	2 x **LVS03806** [12]
	with cut-out	**LVS03709** [10]
	downstream	2 x **LVS03806**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

Mounting		Canalis front connection	
		 	
Devices		**Withdrawable device**	
		MTZ2 08/16	**MTZ2 20/32**
No. of vertical modules		**27** (3)	**28** (3)
Mounting plates		**LVS03500**	**LVS03500**
Front plates [No. of vertical modules]	upstream	3 x **LVS03804** [12]	2 x **LVS03805** [10] + **LVS03802** [2]
	with cut-out	**LVS03709** [10]	**LVS03710** [10]
	downstream	**LVS03804** [4]	**LVS03804** [4]
1/3 front plate support frame		**LVS08560** (1) + 2 x **LVS08562** (2)	**LVS08560** (1) + 2 x **LVS08562** (2)
Cover		**LVS04861**	**LVS04861**

MasterPact MTZ2 08 to 32

Partial front plate support frames

Withdrawable

Mounting	Rear connection with cables
	 

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

(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.

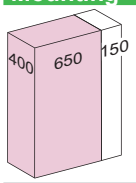
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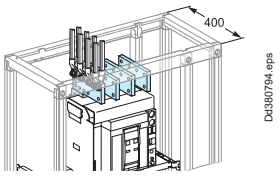
MasterPact MTZ1 06 to 16

Cables connection

Toggle, motor mechanism - Fixed, withdrawable

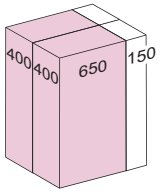
Mounting — Front connection with cables

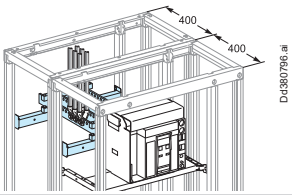




Devices		Fixed device		Withdrawable device	
		MTZ1 06/10	MTZ1 12/16	MTZ1 06/10	MTZ1 12/16
Number of devices per row		1	1	1	1
No. of vertical modules		**12**	**14**	**13**	**15**
Mounting plates		**LVS03484**	**LVS03484**	**LVS03483**	**LVS03483**
Front plates [No. of vertical modules]	upstream	**LVS03802** [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]

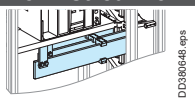
Connection — Upstream on incomer

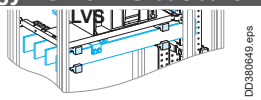


Devices		Fixed device				Withdrawable device			
		MTZ1 06/10		MTZ1 12/16		MTZ1 06/10		MTZ1 12/16	
		3P	4P	3P	4P	3P	4P	3P	4P
Front connection	type of terminals	Front connections supplied with the device							
	vert. connection adapters	**33642** (1)	**33643** (1)	**33642** (1)	**33643** (1)	**33642** (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)							
		add free supports: 2 x **LVS04662**							
Cover for busbars connection		**LVS04926**							

(1) Vertical connection adapters and cable-lug adapters and CT, are not compatible with input voltage ⩾ 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.

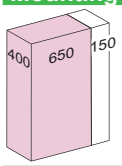
Selection of busbars: Linergy LGY > *page G-4*, Linergy LGYE > *page G-5*, Linergy BS > *page G-6*.

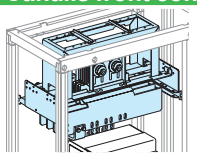
MasterPact MTZ1 06 to 16

Canalis connection

Toggle, motor mechanism - Fixed, withdrawable

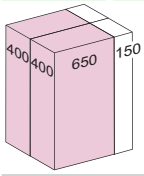
Mounting — Canalis front connection

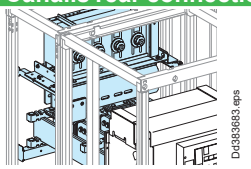




Devices		Fixed device		Withdrawable device	
		MTZ1 06/12	MTZ1 16	MTZ1 06/12	MTZ1 16
Number of devices per row		1	-	1	-
No. of vertical modules		**17**	-	**18**	-
Mounting plates		**LVS03484**	-	**LVS03483**	-
Front plates	upstream	**LVS03804** [4] **+ LVS03803** [3]	-	**LVS03804** [4] **+ LVS03803** [3]	-
[No. of vertical modules]	with cut-out	**LVS03692** [7]	-	**LVS03691** [8]	-
	downstream	**LVS03803** [3]	-	**LVS03803** [3]	-

Mounting — Canalis rear connection





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

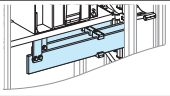
Connection — Upstream on incomer

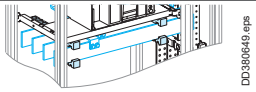


Devices		Fixed device				Withdrawable device			
		MTZ1 06/12		MTZ1 16		MTZ1 06/12		MTZ1 16	
		3P	4P	3P	4P	3P	4P	3P	4P
Canalis support		**LVS03561**						-	
Canalis interface **(1)**		**LVS04703**	**LVS04704**	**LVS04703**	**LVS04704**	**LVS04703**	**LVS04704**	**LVS04703**	**LVS04704**
Front connection	Type of terminals	Front connections supplied with the device							
	Canalis/device connection	**LVS04711**	**LVS04712**	-		**LVS04711**	**LVS04712**	-	
	Arc-chute cover	**47335**	**47336**	-		-		-	
	Canalis cover	**LVS04871 + LVS04852**		-		**LVS04871 + LVS04852**		-	
Rear connection	Type of terminals	Vertical rear connections supplied with the device							
	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	
		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)**							
		add free supports: 2 x **LVS04662**							
Cover for busbars connection		**LVS04926**							

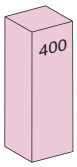
(1) To tight the screws of the Canalis interface use the special tool **87808**.
(2) Connection to be made according to the busbar drawings supplied by Schneider Electric.
Note: to make measurements: install the CTs on the horizontal busbars (busbar connection); in this case, an additional module is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

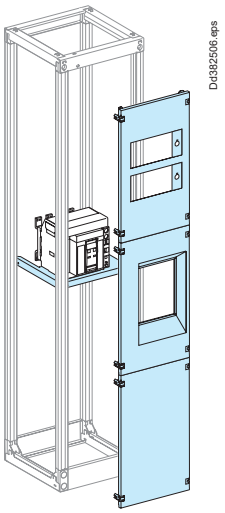
MasterPact MTZ1 06 to 16

Dedicated cubicle 3P - W = 400 mm

Fixed, withdrawable

Mounting



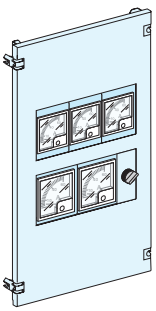


Devices		Fixed device	Withdrawable device
		MTZ1 06 to MTZ1 16	
Number of devices per cubicle		1	1
No. of vertical modules		**37**	**37**
Mounting plates		**LVS03489**	**LVS03488**
Front plates [No. of vertical modules]	with cut-out	**LVS03698** [11]	**LVS03699** [11]
	upstream **(1)** cut-out for 72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

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.

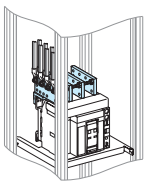
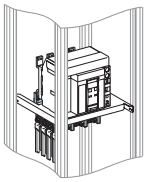
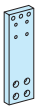
Number and type of devices per row	Metal front plate with cut-out	No. of vertical modules	Plastic mounting plates with cut-out	Blanking plate or device support
Mounting on interface with plastic mounting plates				
3 x 72 x 72 Vigirex and other devices 72 x 72 without switch		13		 To blank-off or install: - from 1 to 4 buttons Ø 16 or 22 mm - 1 device 45 x 45
			LVS03902	**LVS03900**
2 x 96 x 96 Power Meter and other devices 96 x 96 with switch				 To blank-off or install: - 1 to 4 buttons Ø 16 or 22 mm - 1 device 45 x 45 - 1 device 72 x 72
	LVS03723		**LVS03903**	**LVS03901**
Characteristics	■ 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.			

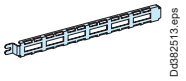
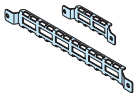
(1) Hinged or reversible (left or right-hand opening) front plates connect directly to the framework, without a front-plate support frame.

MasterPact MTZ1 06 to 16

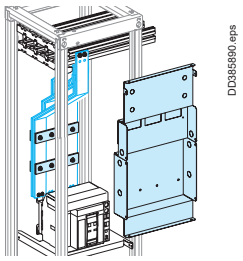
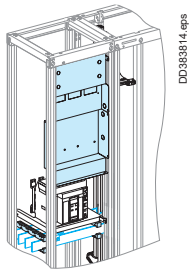
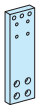
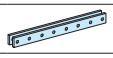
Dedicated cubicle 3P - W = 400 mm

Fixed, withdrawable

Connection	Upstream on incomer	
	 Dd382672_1.eps	 Dd382669.eps
Devices	**Fixed device**	**Withdrawable device**
	MTZ1 06 to MTZ1 16	
Type of terminals 	Front connection	Front connection
Arc-chute cover 	**47335**	-
Vert. conn. adapters	**33642** (1)	**33642** (1)
Cable-lug adapters	**33644** (1)	**33644** (1)
Spacing rods 	**LVS04691**	**LVS04691**

Accessories			
	 Dd382513.eps	 Dd382514.eps	
	W = 400	**D = 400**	**D = 600**
4 cable tie supports for framework	**LVS08774**	**LVS08794**	**LVS08794 + LVS08796**

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

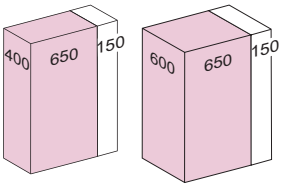
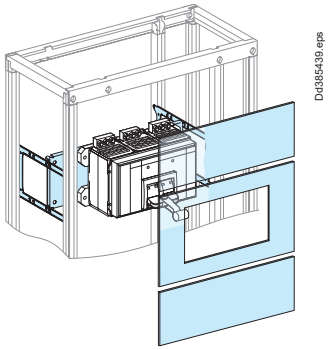
Distribution	Downstream on horizontal busbars		Downstream on vertical busbars
	Linergy LGYE	Linergy BS	Linergy LGY or BS
	 DD385890.eps		 DD383814.eps
Fixed / withdrawable devices	**MTZ1 06 to MTZ1 16**		**MTZ1 06 to MTZ1 16**
Type of terminals 	Front connection	Front connection	Front connection
Support 	2 x **LVS04692** For MTZ1 H1 & H2 3 x **LVS04692** For MTZ1 H3	2 x **LVS04692** For MTZ1 H1 & H2 3 x **LVS04692** For MTZ1 H3	**LVS04662**
Barrier (1) 	**LVS04855**	**LVS04855**	**LVS04855**
Horizontal-busbar connections	must be made (2)	must be made (2)	-
10 mm thickness bars	-	**LVS04636** (3)	-
Vertical-busbar connections	-	-	must be made (2)
Free support	-	-	**LVS04662**

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

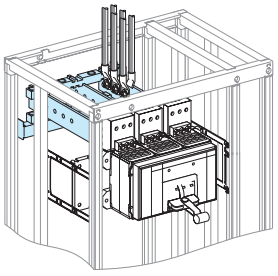
ComPacT NS1600b to 3200

Cables connection

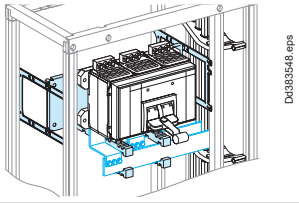
Fixed

Mounting	Front connection
 NS1600b NS2000/3200	

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 (LVS**04641**)

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.

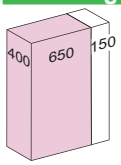
Selection of busbars: Linergy LGY > *page G-4*, Linergy LGYE > *page G-5*, Linergy BS > *page G-6*.

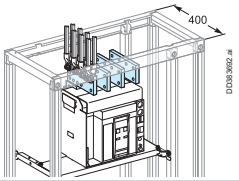
ComPacT NS630b to NS1600

Cables connection

Toggle, rotary handle, motor mechanism - Fixed, withdrawable

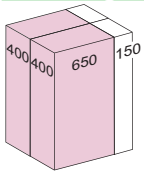
Mounting — Front connection with cables

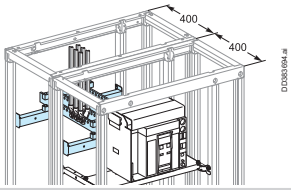




Devices		Fixed device		Withdrawable device	
		NS630b/1000	NS1250/1600	NS630b/1000	NS1250/1600
Number of devices per row		1	1	1	1
No. of vertical modules		**12**	**14**	**13**	**15**
Mounting plates		**LVS03482**	**LVS03482**	**LVS03483**	**LVS03483**
Front plates	upstream	**LVS03802** [2]	**LVS03804** [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]	**LVSS03803** [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]

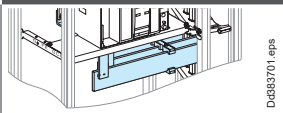
Connection — Upstream on incomer

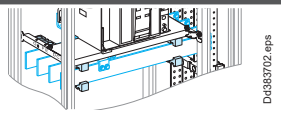


Devices		Fixed device				Withdrawable device			
		NS630b/1000		NS1250/1600		NS630b/1000		NS1250/1600	
		3P	4P	3P	4P	3P	4P	3P	4P
Front connection	Type of terminals	Front connections supplied with the device							
	Vertical connection adapters	**33642** (3)	**33643** (3)	**33642** (3)	**33643** (3)	**33642** (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







Devices	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** Can be reversed for upstream supply	**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 catalogue number **LVS03690**, with a motor mechanism catalogue 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).

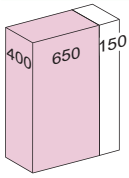
Selection of busbars: Linergy LGY > *page G-4*, Linergy LGYE > *page G-5*, Linergy BS > *page G-6*.

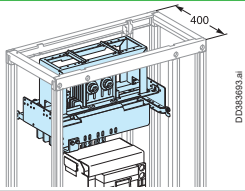
ComPacT NS630b to 1600

Canalis connection

Toggle, rotary handle, motor mechanism - Fixed, withdrawable

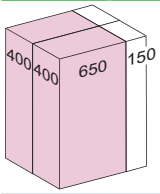
Mounting — Canalis front connection

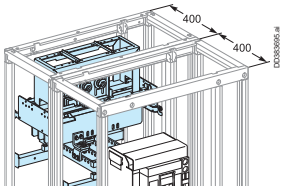




Devices		Fixed device		Withdrawable device	
		NS630b/1250	NS1600	NS630b/1250	NS1600
Number of devices per row		1	-	1	-
No. of vertical modules		**17**	-	**18**	-
Mounting plates		**LVS03482**	-	**LVS03483**	-
Front plates	upstream	**LVS03804** [4] + **LVS03803** [3]	-	**LVS03804** [4] + **LVS03803**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

Mounting — Canalis rear connection





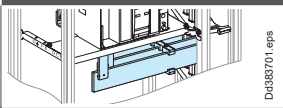
Devices		Fixed device	Withdrawable device
		NS630b/1600	NS630b/1600
Number of devices per row		1	1
No. of vertical modules		**16**	**16**
Mounting plates		**LVS03482**	**LVS03483**
Front plates	upstream	**LVS03806** [6]	**LVS03805** [5]
[No. of vertical modules]	with cut-out	**LVS03690** or **LVS03701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

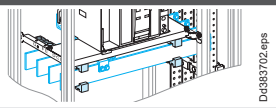
Connection — Upstream on incomer

Devices		Fixed device		Withdrawable device	
		NS630b/1600		NS630b/1600	
		3P	4P	3P	4P
Canalis support		**LVS03561**	-	-	-
Canalis interface (2)		**LVS04703**	**LVS04704**	**LVS04703**	**LVS04704**
Front connection	Type of terminals	Front connections supplied with the device			
	Canalis/device	**LVS04711**	**LVS04712**	**LVS04711**	**LVS04712**
	Arc-chute cover	**33596**	**33597**	-	
	Canalis cover	**LVS04871** + **LVS04851**		**LVS04871** + **LVS04852**	
Rear connection	Type of terminals	Vertical rear connections supplied with the device			
	Terminal extension bar support	2 x **LVS04693**			
	Extension bars	must be made (3)			
	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	
	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** Can be reversed for upstream supply	**LVS04478**	**LVS04491**	**LVSs04492**
	For Linergy BS busbars: must be made (3)							
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 catalogue number **LVS03690**, with a motor mechanism catalogue 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.

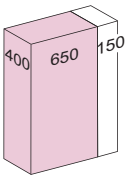
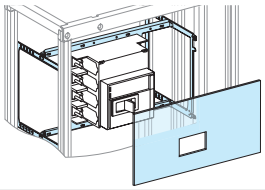
Note: to make measurements:
- install a Micrologic control unit capable of displaying the values.
- or install the CTs on the horizontal busbars; in this case, an additional module is required; add a plain front plate downstream (**LVS03801**).

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

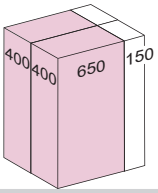
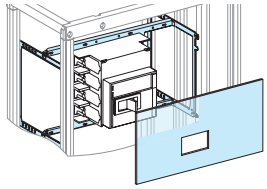
ComPacT NS630b to 1000

Horizontal mounting

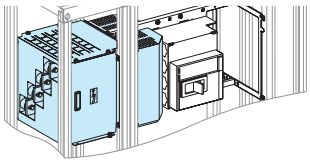
Toggle, rotary handle - Fixed

Mounting	Front connection
	

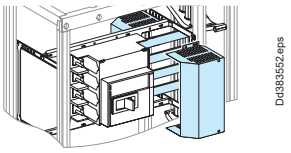
Devices	Fixed device
	NS630b/1000
Number of devices per row	1
No. of vertical modules	**7** (1)
Mounting plates	**LVS03480**
Front plates with cut-outs	**LVS03687**

Mounting	Rear connection
	

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

Connection	Upstream on incomer
	

Fixed devices		NS630b/1000	
		3P	**4P**
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		**LVS04483**	**LVS04484**
		If cubicle w300 mm then 3x300 mm², if cubicle w400 mm then 4x300 mm², same concept for 185 mm². Three 300 mm² or six 185 mm² cables can be connected per phase with lugs that are not of the two-metal type.	
Cover rear connection		**LVS04844**	

Connection	Downstream via Linergy LGY, LGYE or BS busbars
	

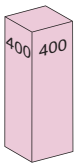
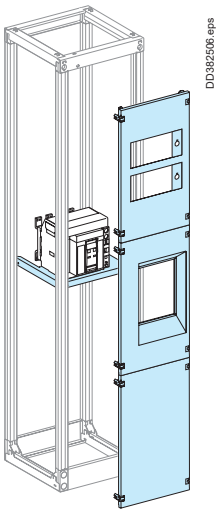
Fixed devices	NS630b/1000	
	3P	**4P**
Type of terminals	Front connections supplied with the device	
Busbars connection	For Linergy LGY busbars: prefabricated connection	
	LVS04473	**LVS04474**
	must be made. For Linergy LGYE (*> page G-13*) and Linergy BS busbars	
Cover for busbars connection	**LVS04842**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

(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

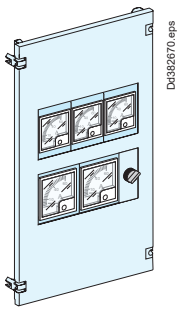
Mounting	Toggle, rotary handle and motor mechanism
	

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

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.

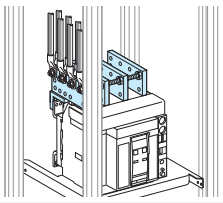
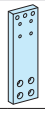
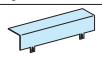
Number and type of devices per row	Metal front plate with cut-out	No. of vertical modules	Plastic mounting plates with cut-out	Blanking plate or device support
Mounting on an interface with plastic mounting plates				
3 x 72 x 72 Vigirex and other devices 72 x 72 without switch		13		 To blank-off or install: - from 1 to 4 buttons Ø 16 or 22 mm - 1 device 45 x 45
			LVS03902	**LVS03900**
2 x 96 x 96 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
	LVS03723		**LVS03903**	**LVS03901**
Characteristics	■ 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 **LVS**03900: 4 Ø 16 mm, 5 Ø 22 mm or one for a 45 x 45 mm device. Knock-outs for **LVS**03901: 4 Ø 16 mm, 5 Ø 22 mm or one for a 45 x 45 or 72 x 72 mm device.			

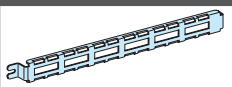
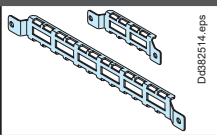
(1) Hinged or reversible (left or right-hand opening) front plates connect directly to the framework, without a front-plate support frame.

ComPacT NS630b to 1600

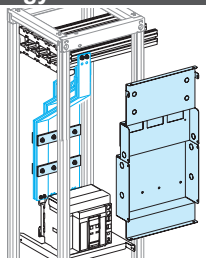
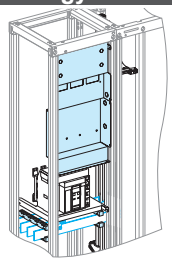
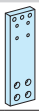
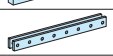
Dedicated cubicle - W = 400 mm

Fixed, withdrawable

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

Accessories			
			
	W =400	**D = 400**	**D = 600**
4 cable tie supports for framework	**LVS08774**	**LVS08794**	**LVS08794 + LVS08796**

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

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

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

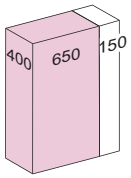
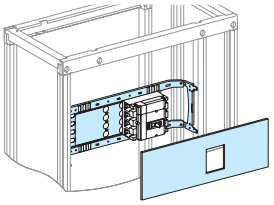
Connection device/horizontal busbar to make by customer.
Busbar selection Linergy BS to make connection: *> page G-3 and page G-6*.
Busbar selection Linergy LGYE or LGY: *> page G-2 and page G-4*.

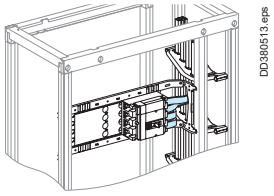
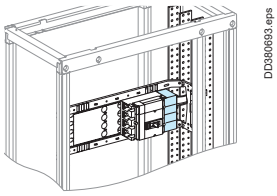
ComPacT, ComPacT Vigi (ELCB) and VigiComPacT NSX 100 to 630

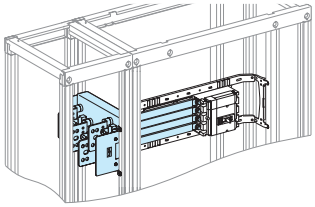
Horizontal mounting

Toggle - Fixed

Designed for PowerTag NSX
Circuit breakers

Mounting	Horizontal fixed					
						
Devices	**Toggle**					
	NSX (1) / NSX Vigi (ELCB) (1) / Vigi NSX 100/160/250		**NSX (1) / NSX Vigi (ELCB) (1) 400/630**		**Vigi NSX 400/630**	
	3P	**4P**	**3P**	**4P**	**3P**	**4P**
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			
Fixed devices	**NSX / NSX Vigi (ELCB) / Vigi NSX 100/160/250**		**NSX / NSX Vigi (ELCB) / Vigi NSX 400/630**	
	3P	**4P**	**3P**	**4P**
Linergy LGY				
				
Prefabricated connection	**LVS04423 (4)**	**LVS04424 (4)**	**LVS04453**	**LVS04454**
Linergy BS, LGYE				
				
Connection	must be made (3)			
Long terminal shields	**LV429517**	**LV429518**	**LV432593**	**LV432594**

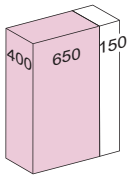
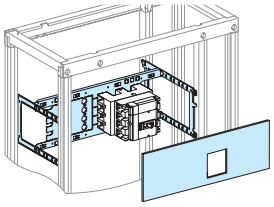
Connection	Downstream distribution							
								
Fixed devices		**NSX / NSX Vigi (ELCB) 100/250**		**Vigi NSX100/250**		**NSX / NSX Vigi (ELCB) 400/630**		**Vigi NSX400/630**	
		3P	**4P**	**3P**	**4P**	**3P**	**4P**	**3P**	**4P**
Front connection	long terminal shields	**LV429517**	**LV429518**	**LV429517**	**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)**	-	-
	long terminal shields	-	-	**LV429517**	**LV429518**	-	-	**LV432593**	**LV432594**
Rear connection	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-22*.
(4) Compatible with Linergy LGYE vertical busbar.
(5) Complete the connection with insulated flexible bars (not supplied).

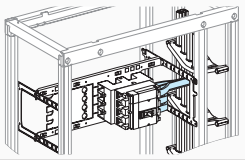
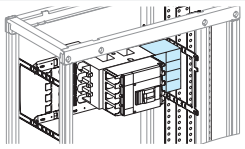
ComPacT, ComPacT Vigi (ELCB) and VigiComPacT NSX 100 to 630

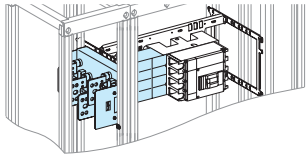
Horizontal mounting

Toggle - Plug-in

Mounting	Horizontal plug-in
	

Devices		Toggle			
		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	LVS03644

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
Linergy LGY				
				
Prefabricated connection	LVS04431 (3)	LVS04432 (3)	LVS04461	LVS04462
Short terminal shields on device	LV429515	LV429516	LV432591	LV432592
Linergy BS, LGYE				
				
Connection	must be made with insulated flexible bars > page G-22.			
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
	

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	connection adapter for plug-in base	LV429306	LV429307	LV432584	LV432585
	short terminal shields on device	LV429515	LV429516	LV432591	LV432592
	long terminal shields on plug-in base	LV429517	LV429518	LV432593	LV432594
Connection transfer assembly	connection	LVS04429 (4)	LVS04430 (4)	LVS04459 (4)	LVS04460 (4)
	connection adapter for plug-in base	LV429306	LV429307	LV432584	LV432585
	short terminal shields	LV429515	LV429516	LV432591	LV432592
	long terminal shields	LV429517	LV429518	LV432593	LV432594
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

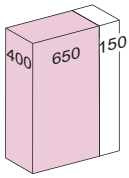
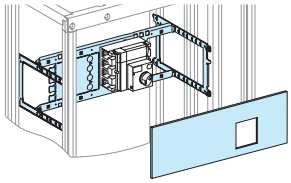
(1) Metering and signaling features (ammeter…) can be added. Mounted on a ComPacT NSX, it has the same size than a ComPacT Vigi NSX. Refer to the corresponding column.
(2) Compatible with FDM121.
(3) Compatible with Linergy LGYE vertical busbar.
(4) Complete the connection with insulated flexible bars (not supplied).

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

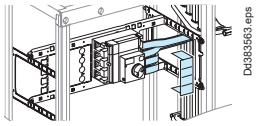
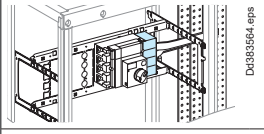
Horizontal mounting

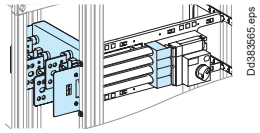
Rotary handle, motor mechanism - Fixed

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	
					rotary handle		motor mechanism		rotary handle	
	3P	4P	3P	4P	3P	4P	3P	4P	3P	4P
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	
	3P	4P	3P	4P
Linergy LGY				
				
Connection	LVS04427 (3)	LVS04428 (3)	must be made with insulated flexible bars > *page G-22* (4).	
Long terminal shields	-		LV432593	LV432594
Linergy BS, LGYE				
				
Connection	must be made with insulated flexible bars > *page G-22*.			
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)	LVS04460 (5)
Connection transfer assembly — long terminal shields	LV429517	LV429518	LV432593	LV432594
Rear connection — short terminal shields	LV429515	LV429516	LV432591	LV432592
Rear connection — short rear connectors	LV429235		LV432475	
Rear connection — long rear connectors	LV429236		LV432476	

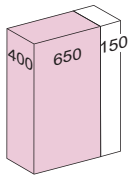
(1) Metering and signaling features (ammeter…) can be added. Mounted on a ComPacT NSX, it has the same size than a ComPacT Vigi NSX. Refer to the corresponding column.
(2) Compatible with FDM121.
(3) Compatible with Linergy LGYE vertical busbar.
(4) To be made according to the busbar drawings supplied by Schneider Electric.
(5) Complete the connection with insulated flexible bars (not supplied).

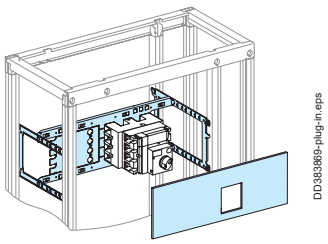
ComPacT, ComPacT Vigi (ELCB) and VigiComPacT NSX 100 to 630

Horizontal mounting

Rotary handle, motor mechanism - Plug-in

Mounting	Horizontal plug-in

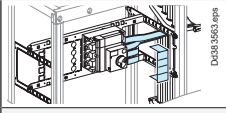




Devices		Rotary handle, motor mechanism							
		NSX (1) / NSX Vigi (ELCB) (1) 100/160/250		Vigi NSX 100/160/250		NSX (1) / NSX Vigi (ELCB) (1) 400/630		Vigi NSX 400/630 rotary handle NSX400/630 motor mechanism	
		3P	4P	3P	4P	3P	4P	3P	4P
Number of devices per row		1	1	1	1	1	1	1	1
No. of vertical modules		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

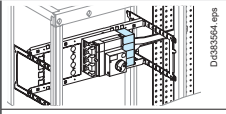
Connection	Upstream from lateral busbars			
Plug-in devices	NSX / NSX Vigi (ELCB) / Vigi NSX 100/160/250		NSX / NSX Vigi (ELCB) / Vigi NSX 400/630	
	3P	4P	3P	4P
Linergy LGY				





Connection	LVS04427 (4)	LVS04428 (4)	must be made with insulated flexible bars > *page G-22* (5)	
Short terminal shields	LV429515	LV429516	LV432591	LV432592
Long terminal shields	-		LV432593	LV432594
Connection adapter for plug-in base	LV429306	LV429307	LV432584	LV432585
Linergy BS, LGYE				

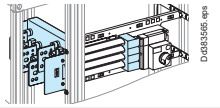




Connection	must be made with insulated flexible bars > *page G-22*.			
Short terminal shields	LV429515	LV429516	LV432591	LV432592
Long terminal shields	LV429517	LV429518	LV432593	LV432594
Connection adapter for plug-in base	LV429306	LV429307	LV432584	LV432585

Connection	Downstream distribution





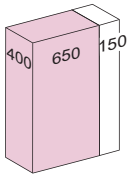
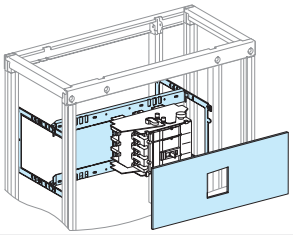
Plug-in devices		NSX / NSX Vigi (ELCB) / Vigi NSX 100/160/250		NSX / NSX Vigi (ELCB) / Vigi NSX 400/630	
		3P	4P	3P	4P
Front connection	long terminal shields	LV429517	LV429518	LV432593	LV432594
	short terminal shields	LV429515	LV429516	LV432591	LV432592
	connection adapter for plug-in base	LV429306	LV429307	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

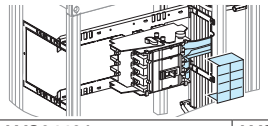
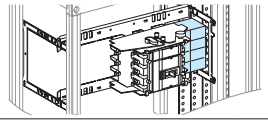
(1) Metering and signaling features (ammeter…) can be added. Mounted on a ComPacT NSX, it has the same size than a ComPacT Vigi NSX. Refer to the corresponding column.
(2) Catalogue number **LVS03460** is recommended when installing an NSX with a motor mechanism.
(3) Compatible with FDM121.
(4) Compatible with Linergy 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).

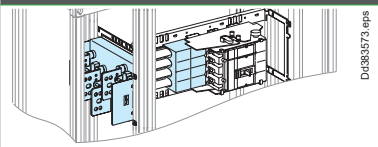
ComPacT, ComPacT Vigi (ELCB) and VigiComPacT NSX 100 to 630

Horizontal mounting

All controls - Withdrawable

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**	
	3P	**4P**	**3P**	**4P**
Linergy LGY				
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-22* **(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)**
Linergy BS, LGYE				
Connection	must be made with insulated flexible bars *> page G-22*.			
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**
Front connection — long terminal shields	**LV429517**	**LV429518**	**LV432593**	**LV432594**
Front connection — short terminal shields	**LV429515**	**LV429516**	**LV432591**	**LV432592**
Connection transfer assembly — connection	**LVS04429 (8)**	**LVS04430 (8)**	**LVS04459 (8)**	**LVS04460 (8)**
Connection transfer assembly — connection adapter for plug-in base	**LV429306**	**LV429307**	**LV432584**	**LV432585**
Connection transfer assembly — long terminal shields	**LV429517**	**LV429518**	**LV432593**	**LV432594**
Connection transfer assembly — short terminal shields	**LV429515**	**LV429516**	**LV432591**	**LV432592**
Rear connection — short terminal shields	2 x **LV429515**	2 x **LV429516**	2 x **LV432591**	2 x **LV432592**
Rear connection — short rear connectors	**LV429235**	**LV429235**	**LV432475**	**LV432475**
Rear connection — long rear connectors	**LV429236**	**LV429236**	**LV432476**	**LV432476**
Rear connection — connection adapter for plug-in base	**LV429306**	**LV429307**	**LV432584**	**LV432585**

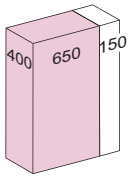
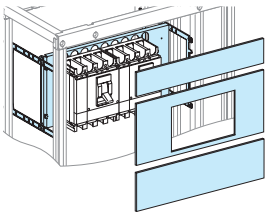
(1) Metering and signaling features (ammeter…) can be added. Mounted on a ComPacT NSX, it has the same size than a ComPacT Vigi NSX. Refer to the corresponding column.
(1) Catalogue number **LVS03460** is recommended when installing an NSX with a motor mechanism.
(3) If mounting several above one another 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

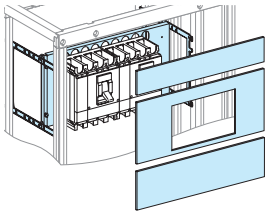
Designed for PowerTag NSX
Circuit breakers

Mounting	Vertical fixed
	

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	connection	must be made with insulated flexible bars > *page G-22*. **(2)**			
	long terminal shields	**LV432593**	**LV432594**	**LV432593**	**LV432594**
Rear connection	short terminal shields	**LV432591**	**LV432592**	**LV432591**	**LV432592**
	short rear connectors	**LV432475**		**LV432475**	
	long rear connectors	**LV432476**		**LV432476**	

Connection	Downstream distribution
	

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**	**LV432593**	**LV432594**
Rear connection **(3)**	short terminal shields	**LV432591**	**LV432592**	**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.

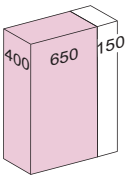
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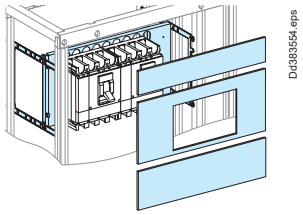
ComPacT, ComPacT Vigi (ELCB) and VigiComPacT NSX 400/630

Vertical mounting

Toggle - Plug-in

Mounting	Vertical plug-in





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
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]

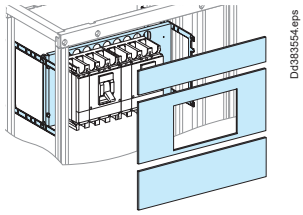
Connection	Upstream from lateral busbars - Linergy LGY, BS, LGYE



Plug-in devices		NSX / NSX Vigi (ELCB) / Vigi NSX 400		NSX / NSX Vigi (ELCB) / Vigi NSX 630	
		3P	4P	3P	4P
Front connection	connection	must be made with insulated flexible bars > page G-22.(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

Connection	Downstream distribution





Plug-in devices		NSX / NSX Vigi (ELCB) / Vigi NSX 400		NSX / NSX Vigi (ELCB) / Vigi NSX 630	
		3P	4P	3P	4P
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.

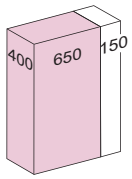
ComPacT, ComPacT Vigi (ELCB) and VigiComPacT NSX 400/630

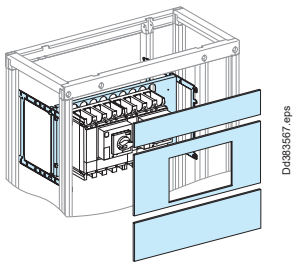
Vertical mounting

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	connection	must be made with insulated flexible bars > *page G-22* (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**
Rear connection (4)	short terminal shields	**LV432591**	**LV432592**
	short rear connectors	**LV432475**	
	long rear connectors	**LV432476**	

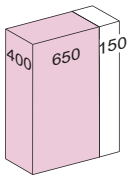
(1) Metering and signaling features (ammeter…) can be added. Mounted on a ComPacT NSX, it has the same size than a ComPacT Vigi NSX. Refer to the corresponding column.
(2) Catalogue number **LVS03460** is recommended when installing an NSX with a motor mechanism.
(3) For ammeter, take **LV429285** + **LV429318** catalogue numbers.
(4) Connection to be made according to the busbar drawings supplied by Schneider Electric.
(5) Size reduced to one module downstream.

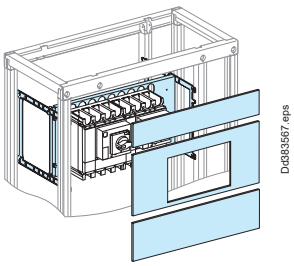
ComPacT, ComPacT Vigi (ELCB) and VigiComPacT NSX 400/630

Vertical mounting

Rotary handle, motor mechanism - Plug-in

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-22 (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	



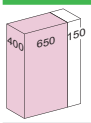
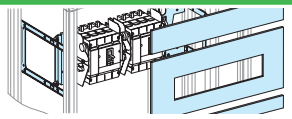
Plug-in devices		NSX / NSX Vigi (ELCB) / Vigi NSX 400/630	
		3P	4P
Front connection	long terminal shields	LV432593	LV432594
	short terminal shields	LV432591	LV432592
	connection adapter for plug-in base	LV432584	LV432585
Rear connection (5)	short terminal shields	2 x LV432591	2 x LV432592
	short rear 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) Catalogue number **LVS03460** is recommended when installing an NSX with a motor mechanism.
(3) For ammeter, take **LV429285** + **LV429318** catalogue numbers.
(4) Connection to be made according to the busbar drawings supplied by Schneider Electric.
(5) Size reduced to one module downstream.

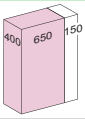
ComPacT, ComPacT Vigi (ELCB) and VigiComPacT NSX 100 to 630

Vertical mounting

All controls - Withdrawable

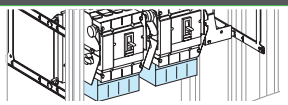
Mounting	Vertical withdrawable
	

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 100/160	Vigi NSX 250	Vigi NSX 400 toggle		Vigi NSX 400 rotary handle + motor mechanism		Vigi NSX 630 toggle		Vigi NSX 630 rotary handle + motor mechanism	
Number of devices per row		2	2	1	2	1	2	1	2	1	2
No. of vertical modules		10	11	13		13		15		15	
Mounting plates		LVS03421	LVS03421	LVS03461	LVS03461	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]	LVS03801 [1]	LVS03803 [3]
	with cut-out	LVS03244 [7]	LVS03244 [7]	LVS03297 [11]	LVS03666 [9]	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]	LVS03803 [3]	LVS03803 [3]
Collar		LV429285 + LV429284 (3)	LV429285 + LV429284 (3)	LV429285 + LV432534 (3)		LV429285		LV429285 + LV432534		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-22.			
	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 terminal shields on device	LV429515	LV429516	LV432591	LV432592
	short terminal shields 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) Catalogue number LVS**03460** is recommended when installing an NSX with a motor mechanism.
(3) For devices with toggle only.

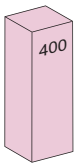
ComPacT, ComPacT Vigi (ELCB) and VigiComPacT NSX 100 to 630

Vertical mounting - W = 400 mm

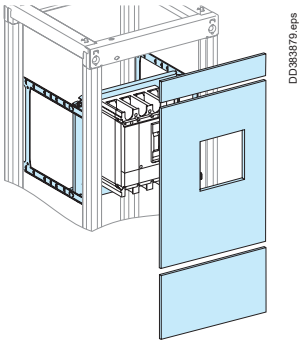
All controls - Fixed, plug-in

Designed for PowerTag NSX
Circuit breakers

Mounting



Device vertical, front connection

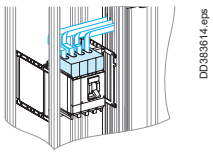


Devices		Fixed		Fixed	Fixed / Plug-in (1)	Fixed / Plug-in (1)
		NSX / NSX Vigi (ELCB) 100/250 (2)		Vigi NSX 100/250	NSX / NSX Vigi (ELCB) 400/630 (2)	Vigi NSX 400/630
		Toggle	Rotary handle Motor mechanism	Toggle	Toggle, Rotary handle Motor mechanism	Toggle
Number of devices per row		1	1	1	1	1
PowerTag NSX compatibility		✓	✓	✓	✓ (1)	✓ (1)
No. of vertical modules		9 or 10	9 or 10	11 or 12	12 or 14	14 or 16
Mounting plates		LVS03050	LVS03051	LVS03050	LVS03487	LVS03487
Adapter PrismaSeT G		LVS03596	LVS03596	LVS03596	-	-
Front plates [No. of vertical modules]	with cut-out	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



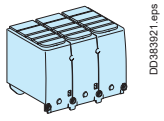


Devices		Fixed device				Plug-in device			
		NSX / NSX Vigi (ELCB) / Vigi NSX 100/160/250		400/630		NSX / NSX Vigi (ELCB) / Vigi NSX 100/160/250		400/630	
		3P	4P	3P	4P	3P	4P	3P	4P
Connection		must be made with insulated flexible bars > page G-22 and according to the drawings supplied by Schneider Electric.							
Front connection	connection adapter for plug-in base	-		-		LV429306	LV429307	LV432584	LV432585
	short terminal shields	-		-		LV429515	LV429516	LV432591	LV432592
	ong terminal shields	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
	long terminal shields	LV429517	LV429518	LV432593	LV432594	LV429517	LV429518	LV432593	LV432594
	connection adapter for plug-in base	-		-		LV429306	LV429307	LV432584	LV432585
Rear connection	short terminal shields	LV429515	LV429516	LV432591	LV432592	2 x LV429515	2 x LV429516	2 x LV432591	2 x LV432592
	short rear connectors	LV429235	LV429235	LV432475	LV432475	LV429235	LV429235	LV432475	LV432475
	long rear connectors	LV429236	LV429236	LV432476	LV432476	LV429236	LV429236	LV432476	LV432476
	connection adapter for plug-in base	-		-		LV429306	LV429307	LV432584	LV432585

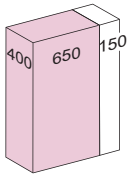
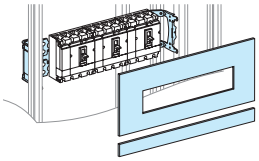
(1) PowerTag NSX is not compatible with plug-in mounting
(2) Metering and signaling features (ammeter…) can be added. Mounted on a ComPacT NSX, it has the same size than a ComPacT Vigi NSX. Refer to the corresponding column.

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

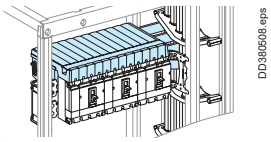
Vertical mounting

Toggle - Fixed

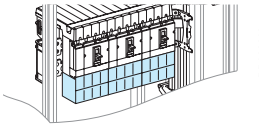
Designed for PowerTag NSX
Circuit breakers

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 [No. of vertical modules]	with cut-out	**LVS03243** [5]	**LVS03241** [7]	**LVS03243** [5]	**LVS03241** [7]
	downstream	**LVS03801** [1]	**LVS03801** [1]	**LVS03802** [2]	**LVS03802** [2]
	downstream with PowerTag NSX	**LVS03802** [2]	**LVS03802** [2]	**LVS03803** [3]	**LVS03803** [3]

Connection	Upstream from lateral busbars
	

Fixed devices		NSX / NSX Vigi (ELCB) / Vigi NSX100/160/250	
		3P	4P
Linergy FC connection to busbars			
Linergy LGY	Linergy FC distribution blocks (with connection)	**LVS04403**	**LVS04404**
Linergy BS, LGYE	Linergy FC distribution blocks (without connection) (2)	**LVS04407**	**LVS04408**
Other connections to busbars			
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**	
Accessories			
Linergy FC tooth-caps		**LVS04809**	
Divisible blanking plate		**LVS03249**	
Divisible blanking plate + electronic trip unit		**LVS03222**	

Connection	Downstream distribution
	

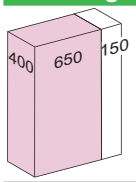
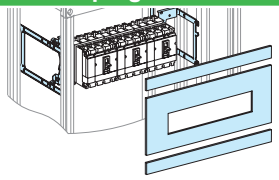
Fixed devices		NSX / NSX Vigi (ELCB) / Vigi NSX 100/160/250	
		3P	4P
Front connection	long terminal shields	**LV429517**	**LV429518**
Rear connection (4)	short terminal shields	**LV429515**	**LV429516**
	short rear connectors	**LV429235**	
	long rear connectors	**LV429236**	

(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 Linergy 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 Linergy 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.

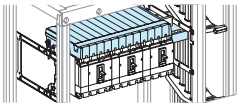
ComPacT, ComPacT Vigi (ELCB) and VigiComPacT NSX 100/160/250

Vertical mounting

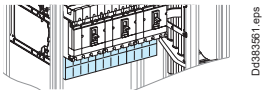
Toggle - Plug-in

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-22.	
	long terminal shields	LV429517	LV429518
	short terminal shields	LV429515	LV429516
	connection adapter for plug-in base	LV429306	LV429307
Rear connection	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) Catalogue number LVS**04924** 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.

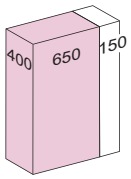
ComPacT, ComPacT Vigi (ELCB) and VigiComPacT NSX 100/160/250

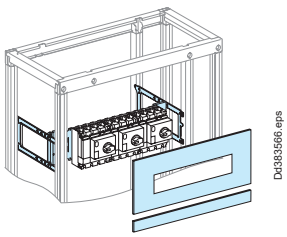
Vertical mounting

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 [No. of vert. mod.]	with cut-out	**LVS03243** [5]	**LVS03244** [7]	**LVS03243** [5]	**LVS03244** [7]
	downstream	**LVS03801** [1]	**LVS03801** [1]	**LVS03802** [2]	**LVS03802** [2]
	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
Linergy FC connection to busbars			
Linergy LGY	Linergy FC distribution blocks (with connection)	**LVS04405** (4)	**LVS04406** (4)
Linergy BS, LGYE	Linergy FC distribution blocks (without connection) (5)	**LVS04407**	**LVS04408**
Accessories			
Linergy FC tooth-caps		**LVS04809**	
Divisible blanking plate		**LVS03249**	
Blanking plate fract. + electronic trip unit		**LVS03222**	

Connection	Downstream distribution	



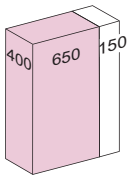
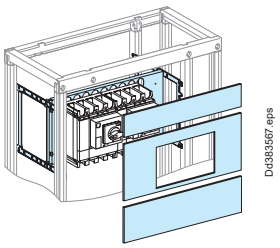
Fixed devices		NSX / NSX Vigi (ELCB) / Vigi NSX100/160/250	
		3P	4P
Front connection	long terminal shields	**LV429517**	**LV429518**
Rear connection (6)	short terminal shields	**LV429515**	**LV429516**
	short rear connectors	**LV429235**	
	long rear connectors	**LV429236**	

(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 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** catalogue numbers.
(4) Catalogue 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 - Plug-in

Mounting	Vertical plug-in
	

Devices		Rotary handle, motor mechanism			
		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)
Linergy LGY — 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**	

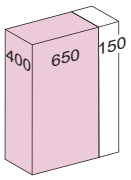
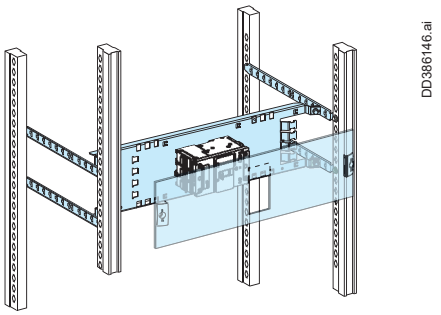
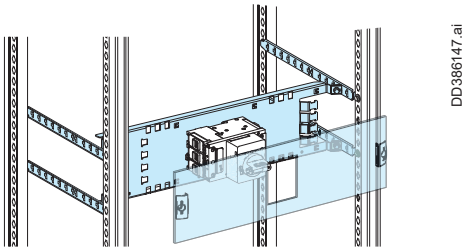
Connection	Downstream distribution	
		
Plug-in devices	**NSX / NSX Vigi (ELCB) / Vigi NSX100/160/250**	
	3P	**4P**
Front connection — long terminal shields	**LV429517**	**LV429518**
Front connection — short terminal shields	**LV429515**	**LV429516**
Front connection — connection adapter for plug-in base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

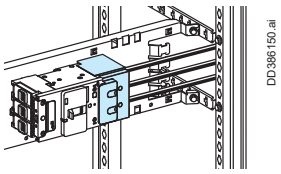
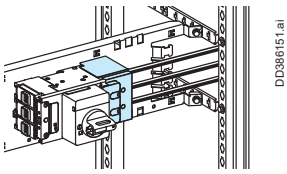
(1) Metering and signaling features (ammeter…) can be added. Mounted on a ComPacT NSX, it has the same size than a ComPacT Vigi NSX. Refer to the corresponding column.
(2) For the ComPacT NSX100/250, the number of modules indicated is for supply via a Linergy FC distribution block.
For supply via cables, two additional modules are required; add an upstream plain front plate (**LVS03802**).
(3) For ammeter, take **LV429285** + **LV429318** catalogue numbers.
(4) Catalogue 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.

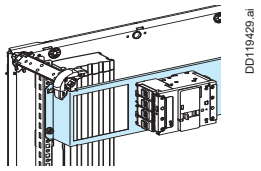
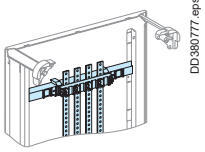
ComPacT and ComPacT Vigi (ELCB) NSXm up to 160

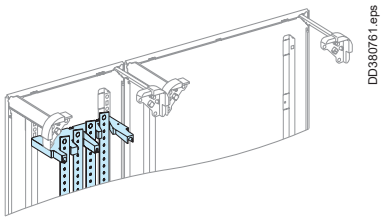
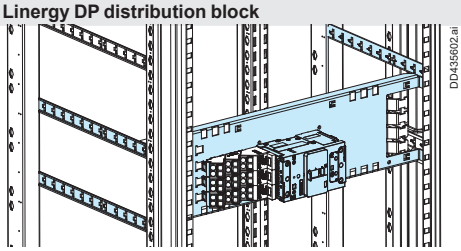
Horizontal mounting

Toggle, rotary handle - Fixed

Mounting	Horizontal fixed		
			
Devices	**Toggle**		**Direct rotary handle**
	NSXm	**NSXm Vigi (ELCB)**	**NSXm**
Number of devices per row	1 x 3P or 4P	1 x 3P or 4P	1 x 3P or 4P
No. of vertical modules	**3**	**3**	**3**
Mounting plates	**LVS03409**	**LVS03409**	**LVS03409**
Front plates with cut-out [No. of vertical modules]	**LVS03330** [3]	**LVS03330** [3]	**LVS03331** [3]

Connection	Upstream from lateral Linergy LGY, BS, LGYE busbars			
				
Devices	**Toggle**		**Direct rotary handle**	
	NSXm, NSXm Vigi (ELCB)		**NSXm**	
	3P	**4P**	**3P**	**4P**
Connection	Connections must be made		Connections must be made	
Long terminal shields	**LV426912**	**LV426913**	**LV426912**	**LV426913**

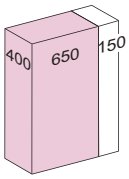
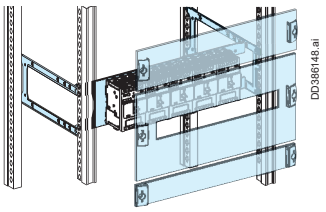
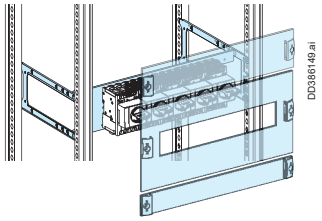
Connection	Downstream distribution	
	Insulated Linergy BW busbars	**Rear Linergy BS busbars**
		
Busbars	**Linergy BW** *> page G-16*	**LVS04191** + copper bars *> page G-27*
Prefabricated connection	**LVS04021**, **LVS04145**, **LVS04146**, **LVS04148**	**LVS04030**

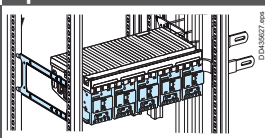
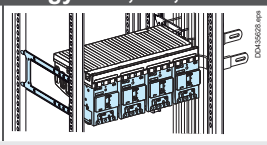
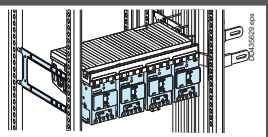
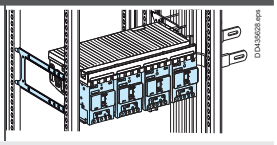
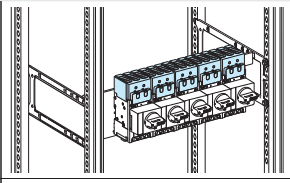
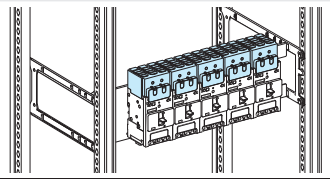
Connection	Downstream distribution	
	Linergy BS multi-stage busbars	**Linergy DP distribution block**
		
Busbars / Distribution block	**LVS04192** + copper bars *> pages G-10, G-11*	**LVS04038**, **LVS04039** *> page G-17*
Prefabricated connection	Connection must be made	

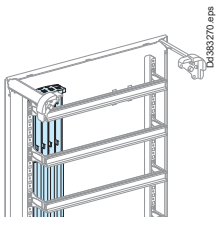
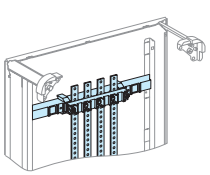
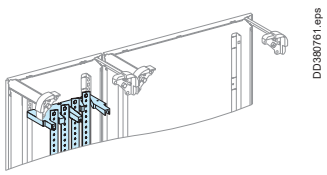
ComPacT and ComPacT Vigi (ELCB) NSXm up to 160

Vertical mounting

Toggle, rotary handle - Fixed

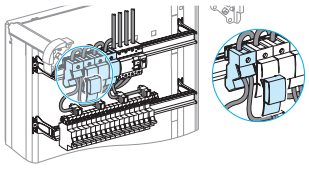
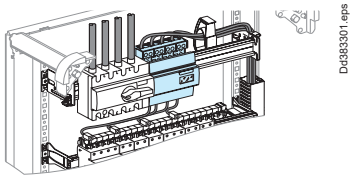
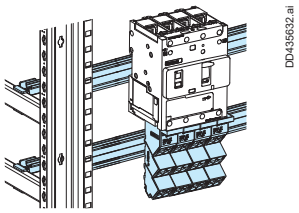
Mounting		Vertical fixed		
				
Devices		**Toggle**		**Direct rotary handle**
		NSXm	**NSXm Vigi (ELCB)**	**NSXm**
Number of devices per row		5 x 3P or 4 x 4P	4 x 3P or 4P	5 x 3P or 4 x 4P
No. of vertical modules (1)		**5**	**5**	**5**
Mounting plates		**LVS03410**	**LVS03406**	**LVS03410**
Front plates [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**

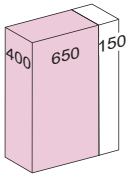
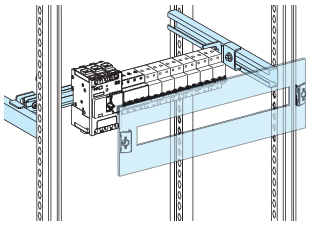
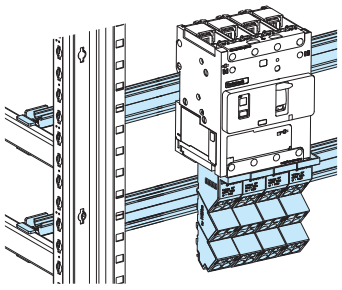
Connection	Downstream distribution		
	Insulated Linergy BW busbars	**Rear Linergy BS busbars**	**Linergy BS Multi-stage busbars in duct**
			
Busbars	**Linergy BW** *> page G-14*	**LVS04191** + copper bars *> page G-9*	**LVS04192** + copper bars *> pages G-10, G-11*
Connection	**LVS04030**, **LVS04145**, **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 (**LVS**03802).

ComPacT and ComPacT Vigi (ELCB) NSXm up to 160
Vertical mounting
Toggle, rotary handle - Fixed

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-24*	**LVS04045** *> page G-24*	**LVS04046** *> page G-24*	**LVS04038**, **LVS04039** *> page G-17*
Connection	**LVS04149**	**LVS04047**	included	
Rail				**LVS03402** (W650)

ComPacT and ComPacT Vigi (ELCB) NSXm up to 160
Modular devices 160 A

Mounting	Modular rail	
		
Devices	**Toggle**	
	NSXm	**NSXm Vigi (ELCB)**
Number of devices per row	5 x 3P or 4 x 4P	4 x 3P or 4P
No. of vertical modules	**5** (1)	**5** (2)
Rail [48 module of 9mm]	**LVS03402** (adjustable) (3)	**LVS03402** (adjustable) (3)
Modular front plates With cut out	**LVS03205**	**LVS03205**
Blanking plate Strip	**LVS03220**	**LVS03220**
Blanking plate Divisible	**LVS03221**	**LVS03221**
Connection 		
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.

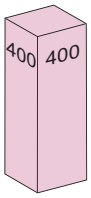
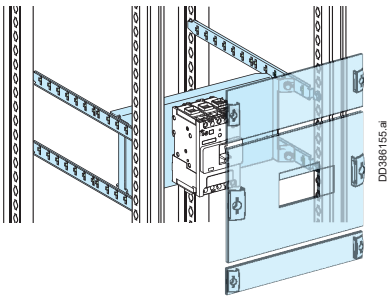
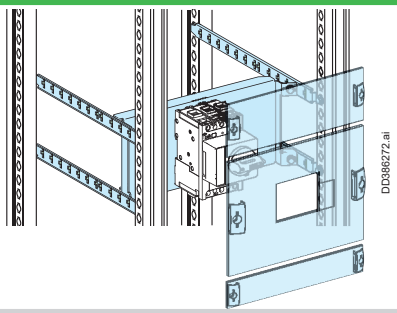
(3) Can be completed by a rail (cat no. **LVS04226**) + raiser (cat no. **LVS04225**) to install modular devices.

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

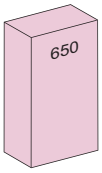
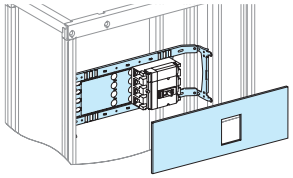
ComPacT and ComPacT Vigi (ELCB) NSXm up to 160

Vertical mounting - W = 400 mm

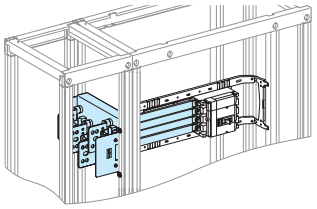
Toggle, rotary handle - Fixed

Mounting	Vertical Fixed		
			
Devices	**Toggle**		**Direct rotary handle**
	NSXm	**NSXm Vigi (ELCB)**	**NSXm**
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 [No. of vertical modules] – With cut out	**LVS03225** [5]	**LVS03225** [5]	**LVS03225** [5]
Front plates [No. of vertical modules] – Upstream	**LVS03812** [2]	**LVS03812** [2]	**LVS03812** [2]
Front plates [No. of vertical modules] – Downstream	**LVS03811** [1]	**LVS03811** [1]	**LVS03811** [1]

Easypact CVS100/630
Horizontal fixed mounting
Toggle

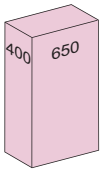
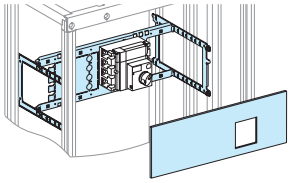
Mounting	Horizontal fixed			
				
Devices	**Toggle**			
	Easypact CVS100/250 Easypact Vigi CVS100/250		**Easypact CVS400/630 Easypact Vigi CVS400/630**	
	3P	**4P**	**3P**	**4P**
Number of devices per row	1	1	1	1
No. of vertical modules	**3**	**4**	**4**	**5**
Mounting plates	**LVS03411**	**LVS03412**	**LVS03451**	**LVS03452**
Front plates with cut-out	**LVS03611**	**LVS03612**	**LVS03651**	**LVS03652**

Connection	Upstream from lateral Linergy LGY, BS, LGYE busbars			
				
	Easypact CVS100/250 Easypact Vigi CVS100/250		**Easypact CVS400/630 Easypact Vigi CVS400/630**	
	3P	**4P**	**3P**	**4P**
Connection	must be made with insulated flexible bars *> page G-22*.			
Long terminal shields	**LV429517**	**LV429518**	**LV432593**	**LV432594**

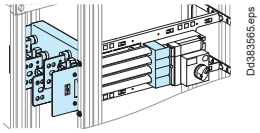
Connection	Downstream distribution							
								
	Easypact CVS100/250		**Easypact Vigi CVS100/250**		**Easypact CVS400/630**		**Easypact Vigi CVS400/630**	
	3P	**4P**	**3P**	**4P**	**3P**	**4P**	**3P**	**4P**
Front connection — long terminal shields	**LV429517**	**LV429518**	**LV429517**	**LV429518**	**LV432593**	**LV432594**	**LV432593**	**LV432594**
Connection transfer assembly — connection	**LVS04429** (1)	**LVS04430** (1)	**LVS04429** (1)	**LVS04430** (1)	**LVS04459** (1)	**LVS04460** (1)	**LVS04459** (1)	**LVS04460** (1)
Connection transfer assembly — long terminal shields	**LV429517**	**LV429518**	**LV429517**	**LV429518**	**LV432593**	**LV432594**	**LV432593**	**LV432594**
Rear connection — short terminal shields	**LV429515**	**LV429516**	**LV429515**	**LV429516**	**LV432591**	**LV432592**	**LV432591**	**LV432592**
Rear connection — short rear connectors	**LV429235**		**LV429235**		**LV432475**		**LV432475**	
Rear connection — long rear connectors	**LV429236**		**LV429236**		**LV432476**		**LV432476**	

(1) No connection.

Easypact CVS100/630
Horizontal fixed mounting
Rotary handle

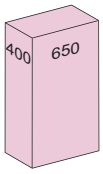
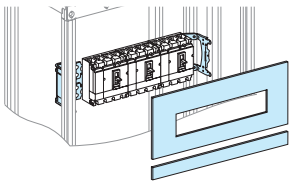
Mounting	Horizontal fixed			
				
Devices	**Rotary handle**			
	Easypact CVS100/250 Easypact Vigi CVS100/250		**Easypact CVS400/630 Easypact Vigi CVS400/630**	
	3P	**4P**	**3P**	**4P**
Number of devices per row	1	1	1	1
No. of vertical modules	**3**	**4**	**4**	**5**
Mounting plates	**LVS03413**	**LVS03414**	**LVS03453**	**LVS03454**
Front plates with cut-out	**LVS03604**	**LVS03606**	**LVS03643**	**LVS03644**
Collar (1)	**LV429285**	**LV429285**	**LV429285 + LV429527**	**LV429285 + LV429527**

Connection	Upstream from lateral Linergy LGY, BS, LGYE busbars			
				
	Easypact CVS100/250 Easypact Vigi CVS100/250		**Easypact CVS400/630 Easypact Vigi CVS400/630**	
	3P	**4P**	**3P**	**4P**
Connection	must be made with insulated flexible bars > page G-22			
Long terminal shields	**LV429517**	**LV429518**	**LV432593**	**LV432594**

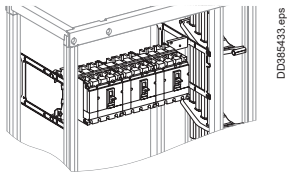
Connection		Downstream distribution			
					
		Easypact CVS100/250 Easypact Vigi CVS100/250		**Easypact CVS400/630 Easypact Vigi CVS400/630**	
		3P	**4P**	**3P**	**4P**
Front connection	long terminal shields	**LV429517**	**LV429518**	**LV432593**	**LV432594**
Connection transfer assembly	connection	**LVS04429 (2)**	**LVS04430 (2)**	**LVS04459 (2)**	**LVS04460 (2)**
	long terminal shields	**LV429517**	**LV429518**	**LV432593**	**LV432594**
Rear connection	short terminal shields	**LV429515**	**LV429516**	**LV432591**	**LV432592**
	short rear connectors	**LV429235**		**LV432475**	
	long rear connectors	**LV429236**		**LV432476**	

(1) On Vigi CVS only.
(2) No connection.

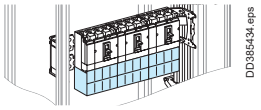
Easypact CVS100/630
Vertical fixed mounting
Toggle

Mounting	Vertical fixed
	

Devices		Toggle							
		Easypact CVS100/250		Easypact Vigi CVS100/250		Easypact CVS400/630		Easypact Vigi CVS400/630	
		3P	4P	3P	4P	3P	4P	3P	4P
Number of devices per row		4	3	4	3	1		1	
No. of vertical modules		9		11		13		15	
Mounting plates		LVS03420		LVS03420		LVS03461		LVS03461	
Front plates [No. of vertical modules]	upstream	LVS03802 [2]		LVS03802 [2]		LVS03802 [2]		LVS03801 [1]	
	with cut-out	LVS03243 [5]		LVS03241 [7]		LVS03273 [9]		LVS03276 [11]	
	downstream	LVS03802 [2]		LVS03802 [2]		LVS03802 [2]		LVS03803 [3]	

Connection	Upstream from lateral Linergy LGY, BS, LGYE busbars
	

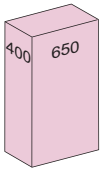
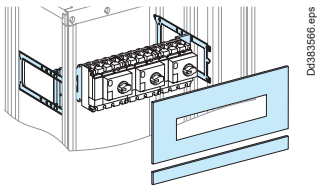
		Easypact CVS100/250		Easypact Vigi CVS100/250		Easypact CVS400/630	
		3P	4P	3P	4P	3P	4P
Number of devices per row		3/4				1	
Connection		must be made with insulated flexible bars > page G-22.					
Front connection	long terminal shields	LV429517	LV429518	LV429517	LV429518	LV432593	LV432594
Rear connection	short terminal shields	LV429515	LV429516	LV429515	LV429516	LV432591	LV432592
	short rear connectors	LV429235		LV429235		LV432475	
	long rear connectors	LV429236		LV429236		LV432476	
Divisible blanking plate		LVS03249		LVS03249		LVS03249	
Divisible blanking plate + electronic trip unit		LVS03222		LVS03222		LVS03222	

Connection	Downstream distribution
	

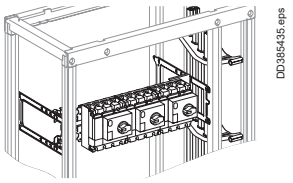
		Easypact CVS100/160, Easypact Vigi CVS100/160		Easypact CVS250, Easypact Vigi CVS250	
		3P	4P	3P	4P
Front connection	long terminal shields	LV429517	LV429518	LV429517	LV429518
Rear connection	short terminal shields	LV429515 (1)	LV429516 (1)	LV429515 (1)	LV429516 (1)
	short rear connectors	LV429235		LV429235	
	long rear connectors	LV429236		LV429236	

(1) Size reduced one module downstream.

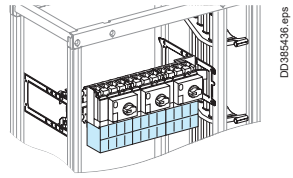
Easypact CVS100/630
Vertical fixed mounting
Rotary handle

Mounting	Vertical fixed
	

Devices		Rotary handle							
		Easypact CVS100/250		Vigi CVS100/250		Easypact CVS400/630		Easypact Vigi CVS400/630	
		3P	4P	3P	4P	3P	4P	3P or 4P	3P or 4P
Number of devices per row		4	3	4	3	1		1	2
No. of vertical modules		9		11		13		15	13
Mounting plates		LVS03422		LVS03422		LVS03461		LVS03461	LVS03461
Front plates [No. of vertical modules]	upstream	LVS03802 [2]		LVS03802 [2]		LVS03802 [2]		LVS03802 [2]	LVS03802 [2]
	with cut-out	LVS03243 [5]		LVS03244 [7]		LVS03275 [9]		LVS03297 [11]	LVS03665 [9]
	downstream	LVS03802 [2]		LVS03802 [2]		LVS03802 [2]		LVS03802 [2]	LVS03802 [2]
Collar		-		LV429285		-		-	-

Connection	Upstream from lateral Linergy LGY, BS, LGYE busbars
	

		Easypact CVS100/250		Vigi CVS100/250		Easypact CVS400/630	
		3P	4P	3P	4P	3P	4P
Number of devices per row		3/4				1	
Connection		must be made with insulated flexible bars > page G-22.					
Front connection	long terminal shields	LV429517	LV429518	LV429517	LV429518	LV432593	LV432594
Rear connection	short terminal shields	LV429515	LV429516	LV429515	LV429516	LV432591	LV432592
	short rear connectors	LV429235		LV429235		LV432475	
	long rear connectors	LV429236		LV429236		LV432476	
Divisible blanking plate		LVS03249		LVS03249		LVS03249	
Divisible blanking plate + electronic trip unit		LVS03222		LVS03222		LVS03222	

Connection	Downstream distribution
	

Fixed device		Easypact CVS100/250, Easypact Vigi CVS100/250		Easypact CVS400/630, Easypact Vigi CVS400/630	
		3P	4P	3P	4P
Front connection	long terminal shields	LV429517	LV429518	LV432593	LV432594
Rear connection	short terminal shields	LV429515 (1)	LV429516 (1)	LV432591 (1)	LV432592 (1)
	short rear connectors	LV429235		LV432475	
	long rear connectors	LV429236		LV432476	

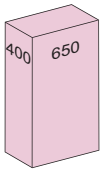
(1) Size reduced one module downstream.

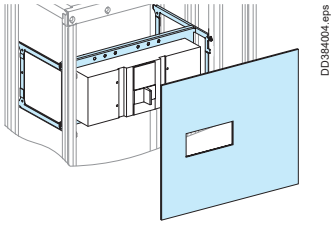
Easypact EZC100, EZC200, EZCV250, EZC400, EZC630

Horizontal / Vertical mounting

Toggle

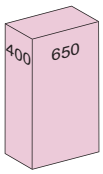
Mounting	Horizontal fixed

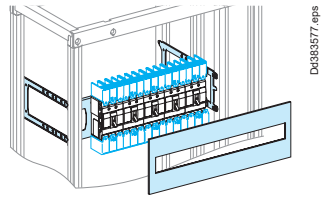




Devices		Toggle			
		Easypact EZC250 Easypact EZCV250		Easypact EZC400/630	
		3P	4P	3P	4P
Number of devices per row		1		1	
No. of vertical modules		4		4	5
Mounting plates		LVS03504	LVS03504	LVS03451	LVS03452
Front plates	with cut-out	LVS03304	LVS03304	LVS03651	LVS03652
Long terminal shields		EZETSHD3P (1)	EZETSHD4P (1)	LV432593	LV432594

Mounting	Vertical fixed





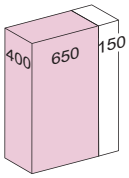
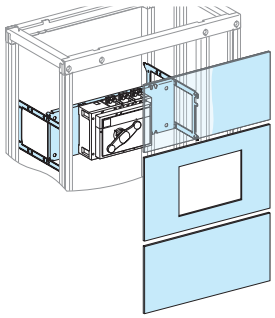
Devices		Toggle						
		Easypact EZC100			Easypact EZC250 Easypact EZCV250		Easypact EZC400/630	
		1P	3P	4P	3P	4P	3P	4P
Number of devices per row		15	5	3	4	3	1	
No. of vertical modules		5			7		13	
Mounting plates		LVS03502			LVS03504		LVS03461	
Front plates [No. of vertical modules]	upstream	-			-		LVS03802 [2]	
	with cut-out	LVS03303 [5]			LVS03305 [7]		LVS03273 [9]	
	downstream	-			-		LVS03802 [2]	
Long terminal shields		-	EZATSHD3P (1)	EZATSHD4P (1)	EZETSHD3PN (1)	EZETSHD4PN (1)	LV432593	LV432594
Divisible blanking plate		LVS03249			LVS03249		LVS03249	

(1) Set of 2.

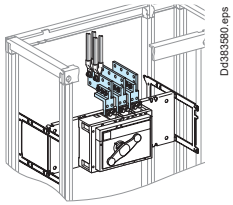
E

ComPacT INS-INV630b to 1600
ComPacT INS-INV2000-2500
Vertical fixed mounting

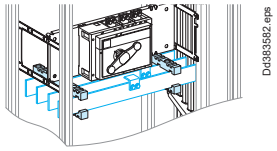
Switch-disconnectors

Mounting	Vertical fixed
	

Devices		Fixed device			
		INS-INV630b/1600		INS-INV2000/2500	
		3P	4P	3P	4P
Number of devices per row		1		1	
No. of vertical modules		**14**		**16**	
Mounting plates		**LVS03501**		**LVS03501**	
Front plates [No. of vertical modules]	upstream	**LVS03804** [4]		**LVS03803** [3]	
	with cut-out	**LVS03713** [6]	**LVS03714** [6]	**LVS03715** [10]	
	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	4P	3P	4P
Vertical connection adapters	**31301** (1)	**31302** (1)	**33975** (1)	**33976** (1)
Cable-lug adapters	**33644** (1)	**33645** (1)	-	-
Connection	-		must be made	
Terminal extension bar support	-		**LVS04694**	**LVS04694**

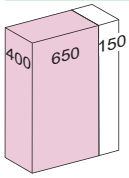
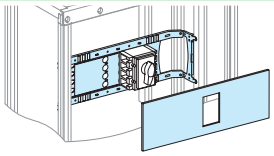
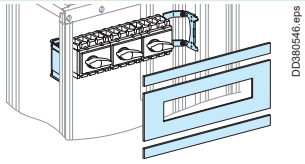
Connection	Downstream distribution via Linergy LGY, LGYE, or BS busbars
	

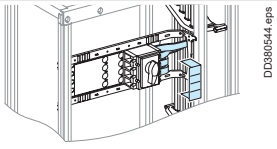
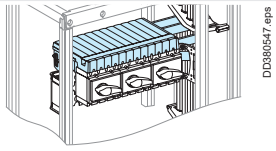
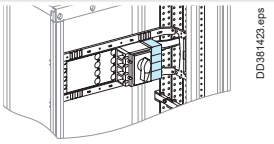
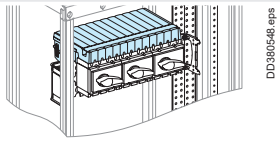
Fixed device	INS-INV630b/1600		INS-INV2000/2500	
	3P	4P	3P	4P
Connection LGY	**LVS04481**	**LVS04482**	-	
Connection BS, LGYE	must be made (3)		must be made (3)	
Cover for busbars connection	**LVS04926** (2)		**LVS04926** (2)	
Free support	-		2 x **LVS04662**	

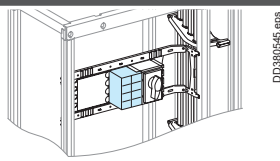
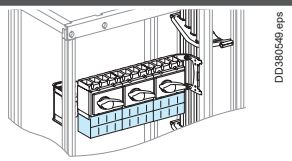
(1) Vertical connection adapters and cable-lug adapters are not compatible with input voltage ⩾ 500 V.
(2) Partitioning of devices must be made.
(3) Connection to be made according to the busbar drawings supplied by Schneider Electric.
Selection of busbars: Linergy LGY > *page G-4*, Linergy LGYE > *page 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			
						
Devices	**Fixed device**					
	INS-INV250	**INS-INV320/630**	**INS-INV250**		**INS-INV320/400**	**INS-INV500/630**
Number of devices per row	1	1	1	2/3	1	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 [No. of vertical modules] upstream	-	-	**LVS03801** [1]		-	**LVS03801** [1]
Front plates [No. of vertical modules] with cut-out	**LVS03617** [4]	**LVS03658** [5]	**LVS03248** [5]	**LVS03620** [5]	**LVS03274** [10]	**LVS03274** [10]
Front plates [No. of vertical modules] downstream	-	-	**LVS03801** [1]		-	-
Front plates [No. of vertical modules] downstream with PowerTag NSX	-	-	**LVS03802** [2]		**LVS03802** [2]	**LVS03802** [2]

Connection	Upstream via lateral busbars					
Fixed device	**INS-INV250**		**INS-INV320/630**	**INS-INV250**		**INS-INV320/630**
	3P	**4P**				
Linergy LGY						
						
Prefabricated connection	**LVS04427** (2)	**LVS04428** (2)	must be made (3)	-		must be made (3)
Distribution block Linergy FC	-			**LVS04404**		-
Long terminal shields	-		**LV432594**	-		**LV432594**
Linergy BS, LGYE						
						
Connection	must be made (3)			-		
Linergy FC distribution blocks (without connection)	-			**LVS04408**		must be made
Long terminal shields	**LV429518**		**LV432594**	-		**LV432594**
Accessories						
Linergy FC tooth-caps	-			**LVS04809**		

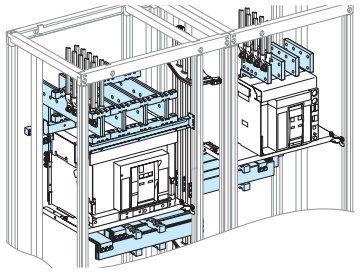
Connection	Downstream distribution			
				
Fixed device	**INS-INV250**	**INS-INV320/630**	**INS-INV250**	**INS-INV320/630**
Front connection long terminal shields	**LV429518**	**LV432594**	**LV429518**	**LV432594**
Rear connection (4) short terminal shields	**LV432516**	**LV432592**	**LV432516**	**LV432592**
Rear connection (4) short rear connectors	**LV429235**	**LV432475**	**LV429235**	**LV432475**
Rear connection (4) 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

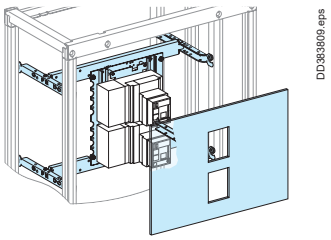
Possible combinations ComPacT NSX100/630, NS630b/1600, MasterPact NT06/16, NW08/32

Manual source-changeover

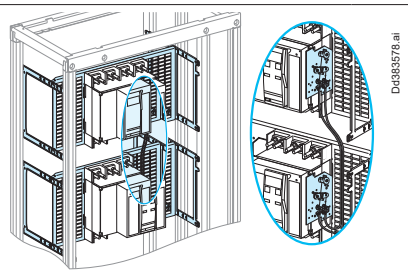


Type of device	Type of interlocking							
	Complete assembly	Toggle	Keylock	Rotary handle	On base plate	Cable-type with 2 devices side-by-side (2)	Cable-type with 3 devices side-by-side (2)	Cable-type with 2 devices one above another
INS250 (rating 100 to 250)								
INV100 to INV250 (1)								
INS320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

Remote-operated source-changeover systems - Mechanical interlocking system



Devices	Combination of ComPacT NSX "S1" and "S2" devices				
"S1"	"S2"				
	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					



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

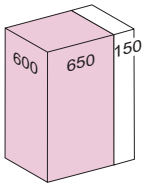
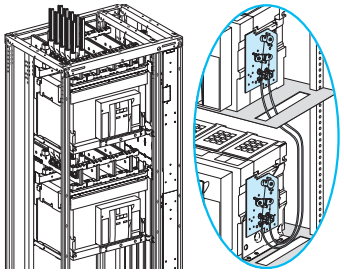
(1) Visible break function.
(2) In 2 or 3 cubicles.

Possible combinations.

Manual or remote-operated or automatic source-changeover

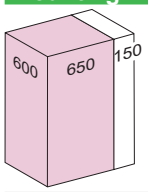
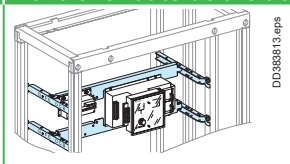
MasterPact NW08/32, front connection S1 device identical to S2 device

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		**31**	**34**	**33**	**36**
Mounting plates		**LVS03500**	**LVS03500**	**LVS03500**	**LVS03500**
		S1 device			
		NW08/16	**NW20/32**	**NW08/16**	**NW20/32**
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]	**LVS03806** [6]	**LVS03805** [5]	**LVS03806** [6]
		S2 device			
		NW08/16	**NW20/32**	**NW08/16**	**NW20/32**
Front plates [No. of vertical modules]	upstream	-	-	-	-
	with cut-out	**LVS03711** [9]	**LVS03711** [9]	**LVS03710** [10]	**LVS03710** [10]
	downstream	**LVS03804** [4]	**LVS03805** [5]	**LVS03804** [4]	**LVS03805** [5]

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

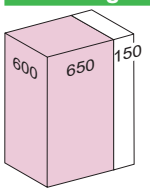
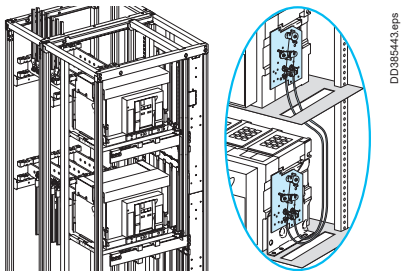
Mounting	Controller outside the device zone
	
Devices	
	UA or BA controller
Number of devices per row	1
Number of vertical modules	**4**
Mounting plates	**LVS03417**
Front plates with cut-out [No. of vertical mod.]	**LVS03671** [4]
Characteristics	When a UA, BA or UA150 automatic controller is added 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

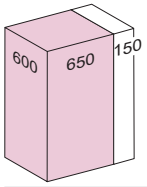
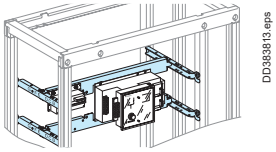
MasterPact NW08/32, rear connection S1 device identical to S2 device

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		**23**	**24**	**25**	**26**
Mounting plates		**LVS03500**	**LVS03500**	**LVS03500**	**LVS03500**
		S1 device			
		NW08/16	**NW20/32**	**NW08/16**	**NW20/32**
Front plates [No. of vertical modules]	upstream	-	-	-	-
	with cut-out	**LVS03711** [9]	**LVS03711** [9]	**LVS03710** [10]	**LVS03710** [10]
	downstream	**LVS03805** [5]	**LVS03806** [6]	**LVS03805** [5]	**LVS03806** [6]
		S2 device			
		NW08/16	**NW20/32**	**NW08/16**	**NW20/32**
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**	
		S1 device			
		NW08/16	**NW20/32**	**NW08/16**	**NW20/32**
Upstream connection		Vertical rear connections supplied with the device			
Connection		must be made **(1)**			
		S2 device			
		NW08/16	**NW20/32**	**NW06/10**	**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*.
	S1 device
Upstream connection	Front connections supplied with the device
Connection	must be made **(1)**
	S2 device
Downstream connection	Front connections supplied with the device
Connection	must be made **(1)**

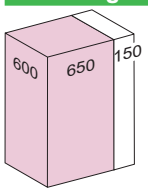
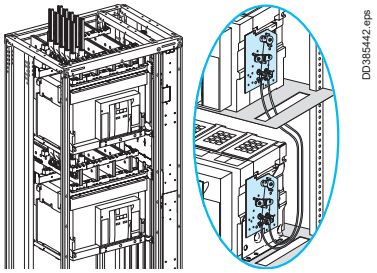
Mounting	Controller outside the device zone
	
Devices	
	UA or BA controller
Number of devices per row	1
Number of vertical modules	**4**
Mounting plates	**LVS03417**
Front plates with cut-out [No. of vertical mod.]	**LVS03671** [4]
Characteristics	When a UA, BA or UA150 automatic controller is added 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

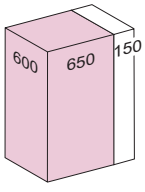
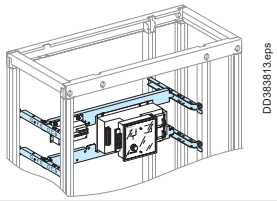
MasterPact NW08/32, front connection S1 device different to S2 device

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	**33**	**33**	**35**	**35**
Mounting plates	**LVS03500**	**LVS03500**	**LVS03500**	**LVS03500**
	S1 device			
	NW08/16	**NW20/32**	**NW08/16**	**NW20/32**
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]
	S2 device			
	NW20/32	**NW08/16**	**NW20/32**	**NW08/16**
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				
				
Devices	**Fixed device**		**Withdrawable device**	
	S1 device			
	NW08/16	**NW20/32**	**NW08/16**	**NW20/32**
Upstream connection	Vertical rear connections supplied with the device			
Connection	must be made **(1)**			
	S2 device			
	NW08/16	**NW20/32**	**NWT06/10**	**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.
	S1 device
Upstream connection	Front connections supplied with the device
Connection	must be made **(1)**
	S2 device
Downstream connection	Front connections supplied with the device
Connection	must be made **(1)**

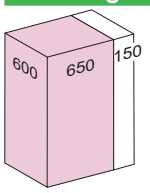
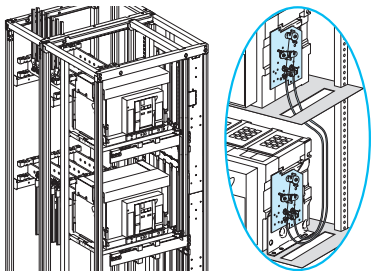
Mounting	Controller outside the device zone
	
Devices	
	UA or BA controller
Number of devices per row	1
Number of vertical modules	**4**
Mounting plates	**LVS03417**
Front plates with cut-out [No. of vertical mod.]	**LVS03671** [4]
Characteristics	When a UA, BA or UA150 automatic controller is added 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

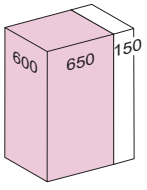
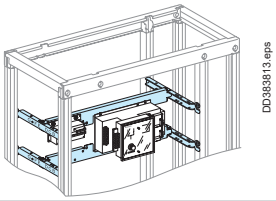
Source-changeover

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**
		S1 device			
		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]
		S2 device			
		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**	
		S1 device			
		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)**			
		S2 device			
		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*.
	S1 device
Upstream connection	Front connections supplied with the device
Connection	must be made **(1)**
	S2 device
Downstream connection	Front connections supplied with the device
Connection	must be made **(1)**

Mounting	Controller outside the device zone
	

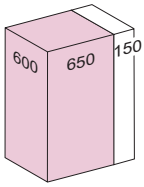
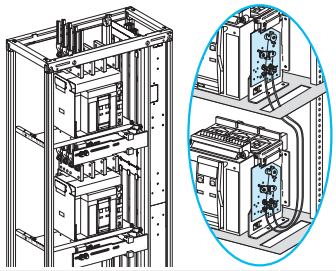
Devices		
		UA or BA controller
Number of devices per row		1
Number of vertical modules		**4**
Mounting plates		**LVS03417**
Front plates [No. of vertical mod.]	with cut-out	**LVS03671** [4]
Characteristics		When a UA, BA or UA150 automatic controller is added together with an ACP mounting plate, the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

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

Manual or remote-operated or automatic source-changeover

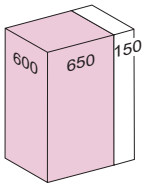
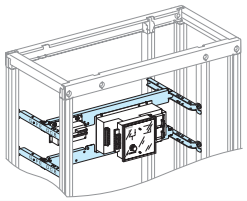
MasterPact MTZ1 06/16, front connection S1 device identical to S2 device

Source-changeover

Mounting	Front connection with cables			
				
Devices	**Fixed device**		**Withdrawable device**	
Number of devices per row	2	2	2	2
Number of vertical modules	**24**	**28**	**26**	**30**
Mounting plates	**LVS03484**	**LVS03484**	**LVS03483**	**LVS03483**
	S1 device			
	MTZ1 06/10	**MTZ1 12/16**	**MTZ1 06/10**	**MTZ1 12/16**
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]
	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

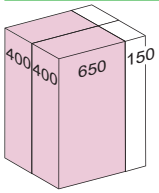
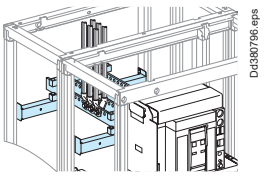
Mounting	Outside the device zone
	
Devices	
	UA or BA controller
Number of devices per row	1
Number of vertical modules	**4**
Mounting plates	**LVS03417**
Front plates [No. of vertical mod.] with cut-out	**LVS03671** [4]

E

Manual or remote-operated or automatic source-changeover

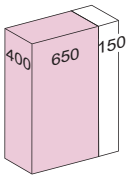
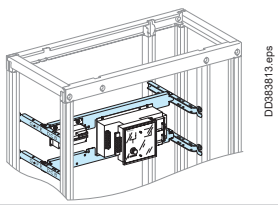
MasterPact MTZ1 06/16, rear connection S1 device identical to S2 device

Source-changeover

Mounting		Rear connection with cables	
			
Devices		**Fixed device**	**Withdrawable device**
Number of devices per row		2	2
Number of vertical modules		**22**	**22**
Mounting plates		**LVS03484**	**LVS03483**
		S1 device	
		MTZ1 06/16	**MTZ1 06/16**
Front plates [No. of vertical modules]	upstream	**LVS03801** [1]	-
	with cut-out	**LVS03692** [7]	**LVS03691** [8]
	downstream	**LVS03803** [3]	**LVS03803** [3]
		S2 device	
		MTZ1 06/16	**MTZ1 06/16**
Front plates [No. of vertical modules]	upstream	**LVS03803** [3]	**LVS03803** [3]
	with cut-out	**LVS03692** [7]	**LVS03691** [8]
	downstream	**LVS03801** [1]	-

Connection		
		
Devices	**Fixed device**	**Withdrawable device**
	MTZ1 06/16	**MTZ1 06/16**
S1 device		
Upstream connection	Vertical rear connections supplied with the device	
Connection	must be made	
S2 device		
Downstream connection	Vertical rear connections supplied with the device	
Connection	must be made	

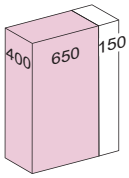
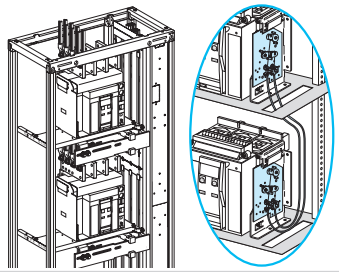
Distribution	Linergy LGY, LGYE or BS busbars
	Selection of busbars: Linergy LGY > page G-4, Linergy LGYE > page G-5, Linergy BS > page G-6.
S1 device	
Upstream connection	Front connections supplied with the device
Connection	must be made
S2 device	
Downstream connection	Front connections supplied with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

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

Source-changeover

Mounting	Front connection with cables
	

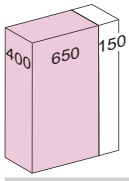
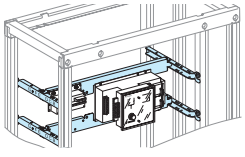
Devices		Fixed device		Withdrawable device	
Number of devices per row		2	2	2	2
Number of vertical modules		**26**	**26**	**28**	**28**
Mounting plates		**LVS03484**	**LVS03484**	**LVS03483**	**LVS03483**
		S1 device			
		MTZ1 12/16	**MTZ1 06/10**	**MTZ1 12/16**	**MTZ1 06/10**
Front plates [No. of vertical modules]	upstream	**LVS03804** [4]	**LVS03802** [2]	**LVS03804** [4]	**LVS03802** [2]
	with cut-out	**LVS03692** [7]	**LVS03692** [7]	**LVS03691** [8]	**LVS03691** [8]
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**

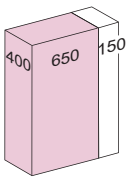
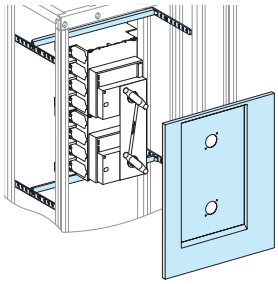
Distribution	Linergy LGY, LGYE or BS busbars
	Selection of busbars: Linergy LGY > *page G-4*, Linergy LGYE > *page G-5*, Linergy BS > *page G-6*.
S1 device	
Upstream connection	Front connections supplied with the device
Connection	must be made
S2 device	
Downstream connection	Front connections supplied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

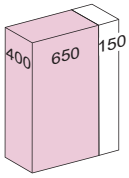
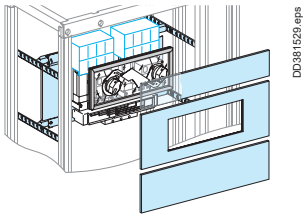
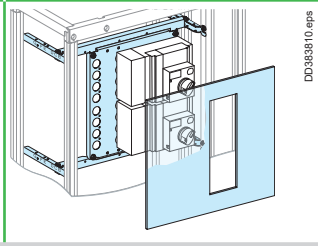
Devices			
		NS630b/1000	
		3P	4P
Number of devices per row		2	
Number of vertical modules		13	
Mounting plates		LVS03491	
Front plates [No. of vertical modules]	upstream	-	
	with cut-out	LVS03695 [13]	
	downstream	-	
Mechanical interlock		33890	33890
Characteristics		**Interlocking of direct rotary handles.** The devices are equipped with a direct rotary handle.	

Connection	Downstream distribution
	

Type of connected devices		ComPacT NS630b/1000	
		3P	4P
Front connection	long terminal shields	33628 x 2	33629 x 2

Manual source-changeover
ComPacT NSX100/630

Source-changeover

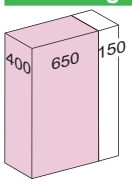
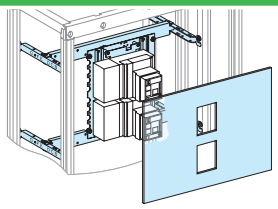
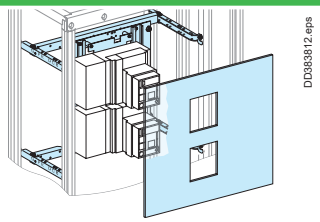
Mounting		Vertical		Horizontal	
					
Devices					
		NSX100/250		**NSX400/630**	
		3P	**4P**	**3P**	**4P**
Number of devices per row		2		2	
Number of vertical modules		**10**		**10**	
Mounting plates		**LVS03428**		**LVS03458**	
Front plates [No. of vertical modules]	upstream	**LVS03802** [2]		-	
	with cut-out	**LVS03245** [5]		**LVS03659** [10]	
	downstream	**LVS03803** [3]		-	
Mechanical interlock		**LV429369**	**LV429369**	**LV432621**	**LV432621**
Characteristics		**Interlocking of rotary handles** The devices are equipped with a rotary handle. They are mounted on a dedicated mounting plate.			

Connection		Downstream distribution			
					
Type of connected devices		**ComPacT NSX100/250**		**ComPacT NSX400/630**	
		3P	**4P**	**3P**	**4P**
Front conn.	long terminal shields	**LV429517**	**LV429518**	**LV432593**	**LV432594**
	for spreader	-	-	**LV432595**	**LV432596**
Coupling accessory		**LV429358**	**LV429359**	**LV432619**	**LV432620**
Rear conn.	short terminal shields	**LV429515**	**LV429516**	**LV432591**	**LV432592**

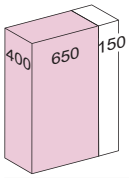
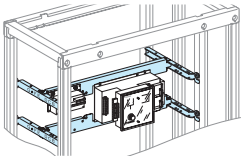
E

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	**LV429517**	**LV429518**	**LV432593**	**LV432594**
for spreader	-	-	**LV432595**	**LV432596**
Coupling accessory	**LV429358**	**LV429359**	**LV432619**	**LV432620**
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. **LV29350** for AC or **LV29351** for DC version).
(2) Order mounting plate + IVE electrical interlocking unit for NSX400/630 (cat. no. **LV32610** for AC or **LV32611** for DC version).

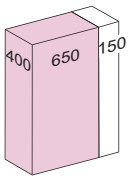
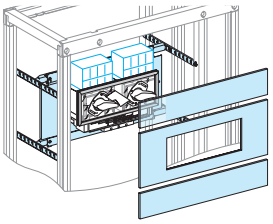
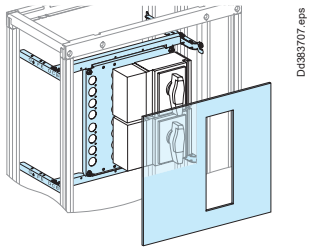
Incoming and busbar connections to be made.

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

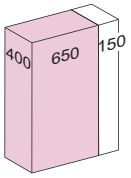
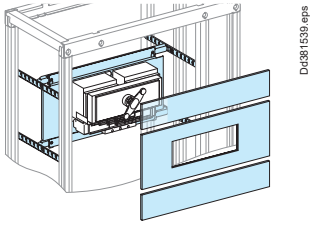
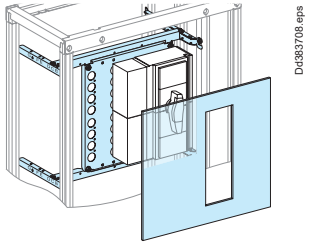


Type of connected devices		ComPacT INS-INV250		ComPacT INS-INV320/630	
		3P	**4P**	**3P**	**4P**
Front conn.	long terminal shields	2 x **LV429518**	2 x **LV429518**	-	
	long terminal shields 45 mm	-		2 x **LV432594**	2 x **LV432594**
Coupling accessory		**LV429359**	**LV429359**	**LV432620**	**LV432620**

E

Manual source-changeover
ComPacT INS-INV250 to 630
Complete assembly device

Source-changeover

Mounting	Vertical complete assembly	Horizontal complete assembly
		

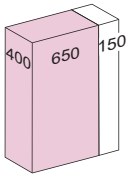
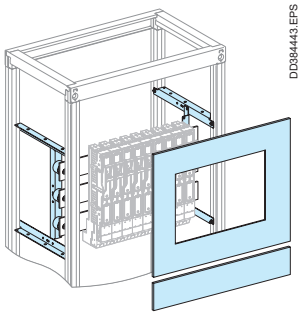
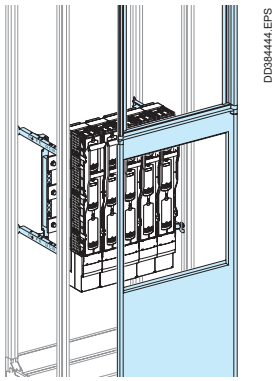
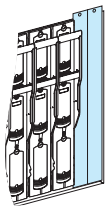
Devices		Complete source-changeover assembly	
		INS-INV250	**INS-INV320/630**
Number of devices per row		1	1
Number of vertical modules		**9**	**10**
Mounting plates		**LVS03428**	**LVS03458**
Front plates [No. of vertical modules]	upstream	**LVS03802** [2]	-
	with cut-out	**LVS03247** [5]	**LVS03661**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

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**
Complete source-changeover assembly	100 A	**31140**	**31141**		
	160 A	**31144**	**31145**		
	200 A	**31142**	**31143**		
	250 A	**31146**	**31147**		
	320 A			**31148**	**31149**
	400 A			**31150**	**31151**
	500 A			**31152**	**31153**
	630 A			**31154**	**31155**

Fupact ISFL
Vertical / 3P
Determining the busbars

Mounting	Through cut-out front plate	Through a 2/3 cut-out front plate			Accessories
					
Devices					
	ISFL160	**ISFL160**	**ISFL250/400/630**	**ISFL 1250**	
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 [No. of vertical mod.] with cut-out	**LVS03736** [11]	-	-	-	-
Front plates [No. of vertical mod.] 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	■ The fuses are installed on the horizontal bars which are in turn supported by a mounting plate ■ The front plates are secured to the hinged front plate support frame. ■ The front may be covered either by a cover frame or a plain or transparent door. ■ Current transformers can be installed behind ISFL fuse-switch-disconnectors.	■ The fuses are installed on the horizontal bars which are in turn supported by a mounting plate ■ The front of the cubicle is made up of two parts: □ 2/3 cut-out front plate allowing introduction of the fuses □ 1/3 front plate support frame (12 modules) cat. number **LVS08562** on which the functional units are mounted ■ The front may be covered either by a cover frame or a plain or transparent door. ■ Current transformers can be installed behind ISFL fuse-switch-disconnectors.			

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

Distribution	
	
Devices	
	ISFL160/630
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-57*.

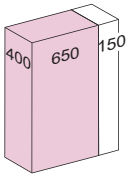
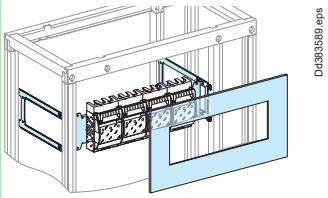
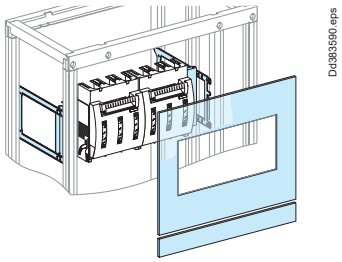
Fupact ISFT

Vertical / 3P

Installation on mounting plate or busbars

Determining the busbars

Fusegear/Switch-disconnector

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

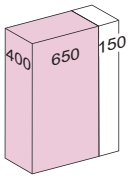
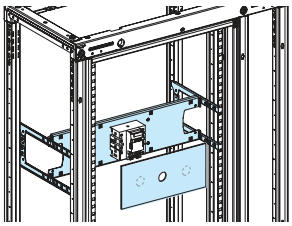
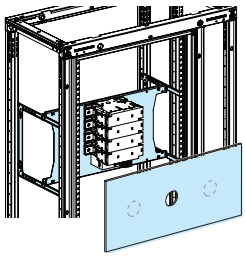
Connection	Direct							
								
Devices								
	ISFT100	**ISFT100N**	**ISFT160**	**ISFT250**	**ISFT400**	**ISFT630**	**ISFT100N**	**ISFT160**
Connection	must be made							
	Downstream, with cable or flexible bars							
Long terminal shields	-	**LV480756**	**LV480819**	**LV480824**	**LV480827**	**LV480831**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

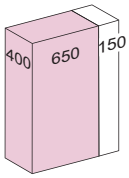
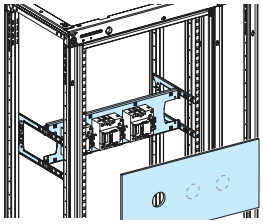
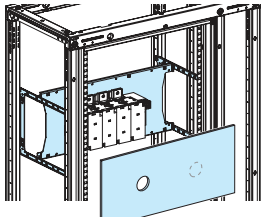
Distribution			
			
Linergy FH	for 2 devices	**49861**	**LV480811**
	for 3 devices	**49862**	**LV480812**
	for 4 devices	**49863**	**LV480813**
Set of 3 connectors (25 to 95 mm²)		**49865**	**LV480818**
Set of 3 distribution connectors 3 x 10 mm²		**49860**	**LV480814**

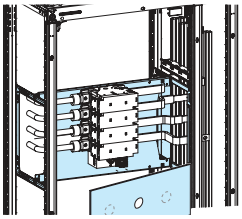
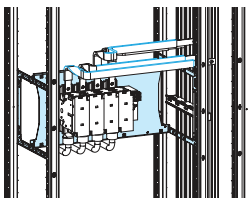
Note: for determining the busbar *> page I-57*.

Fupact GS
Horizontal / Vertical
Extended rotary handle

Fusegear/Switch-disconnector

Mounting 650+150	Horizontal				
	 DD384452.EPS		 DD384453.EPS		
Devices					
	GS32 3P/4P	**GS63 3P/4P**	**GS100/160 3P/4P**	**GS250 3P/4P**	**GS400 3P/4P**
Number of devices per row	1	1	1	1	1
Number of vertical modules	**3**	**5**	**5**	**7**	**8**
Mounting plates	**LVS03559**	**LVS03560**	**LVS03560**	**LVS03564**	**LVS03566**
Front plates with cut-out	**LVS03308**	**LVS03309**	**LVS03309**	**LVS03346**	**LVS03347**
Nb of vertical modules downstream	-	-	**LVS03801**	**LVS03801**	**LVS03801**

Mounting 650 + 150	Vertical			
	 DD381858.EPS		 DD381859.eps	
Devices				
	GS32 3P or 4P	**GS63/100/160 3P/4P**	**GS250 3P/4P**	**GS400 3P/4P**
Number of devices per row	3	2	1	1
Number of vertical modules	**3**	**5**	**6**	**6**
Mounting plates	**LVS03559**	**LVS03563**	**LVS03565**	**LVS03567**
with cut-out	**LVS03308**	**LVS03309**	**LVS03349**	**LVS03349**
downstream	-	-	-	-

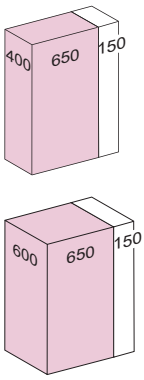
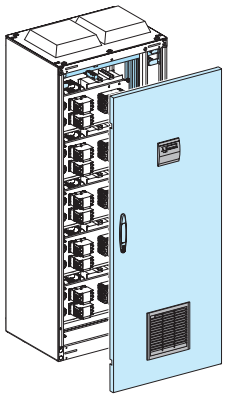
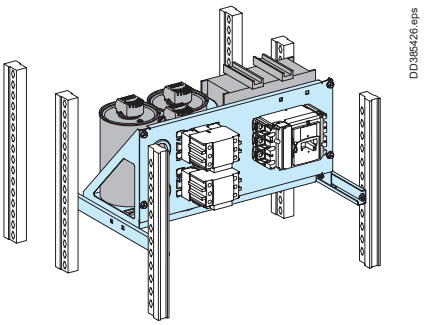
Distribution	Lateral busbars			
	 DD384454.EPS		 DD381860.EPS	
	Linergy LGYE, Linergy LGY or **Linergy BS busbars** (2)			
Busbars connection	Must be made			

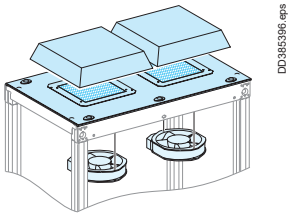
(1) Set of 1: 3 x 3P, 4 x 4P.
(2) Selection of flexible bars for the connection Fupact GS ⩽ 400 A: *> page I-57.*

E

Power factor correction equipment

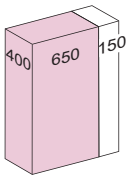
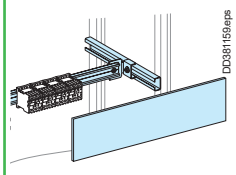
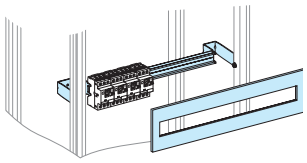
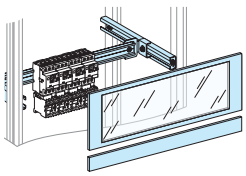
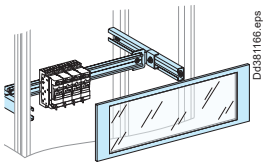
Others

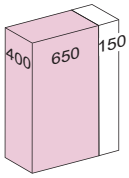
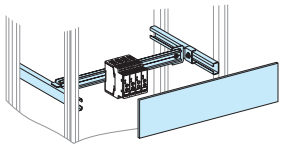
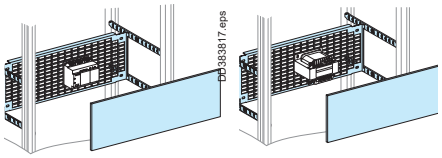
Mounting	Door with cut-outs	Mounting plate
		
Catalogue number	**LVS03970**	**LVS03979**
Characteristics	Special standard cover panels are used. However, a special IP30 door is used (W650 mm with hinges on left only) that has cut-outs, one for the VarplusLogic power factor controller and another in the 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		Fan + top hood	Top hood without fan	Outlet grill	Fan with filter	Spare filter
	D = 400 mm	D = 600 mm					
Catalogue number	**LVS08478**	**LVS08678**	**NSYCVF575M230MB**	**NSYCAC228RMB**	**NSYCAG291LPF**	**NSYCVF850M230PF**	**NSYCAF228R**
Characteristics	A roof with a cut-out ensures natural ventilation of the equipment. It can also be equipped with two fans.		**Fan characteristics** ■ Power: 85 W ■ Input voltage: 230 V ■ Throughput via outlet grill: □ with 1 outlet grill: 350 m^3/hr □ Free with filter: 575 m^3/hr ■ Noise level: 64 dB. **Top hood characteristics** ■ Material: steel ■ Finishing parts: painted with epoxy-polyester resin, textured RAL 9003, white ■ IP54 ■ Fixing to the top by means of caged nuts and special screws	■ Material: steel ■ Finishing parts: painted with epoxy-polyester resin, textured RAL 7035 grey ■ IP54 ■ Fixing to the top by means of caged nuts and special screws	■ Material: Injected thermoplastic (ASA PC). self-extinguishing according to UL 94 V-0 ■ RAL 9003, white ■ IP54	■ Power: 150/195 W ■ Input voltage: 207 V... 244 V (230 V) ■ Throughput via outlet grill: □ with 1 outlet grill (m^3/h): 718 (50 Hz) 568 (60 Hz) ■ Free with filter: 838 (50 Hz) 803 (60 Hz) ■ Noise level: 76/75 dB	For outlet grill or filter IP54, cut-out 228 x 228 mm

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

Others

Mounting	On a modular rail							
								
Devices	**Contactor**	**Circuit breaker**			**Circuit breaker + contactor**	**TeSys**		
	Series D and K ⩽ 40 A contactors	**GV2RT-GV2ME-GV2LE**	**GV2L-GV2P**	**GV3**	**GV2 + Series D and K ⩽ 40 A contactors**	**TeSys modèle U**		
Number of vertical modules	**3**	**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**	**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.						

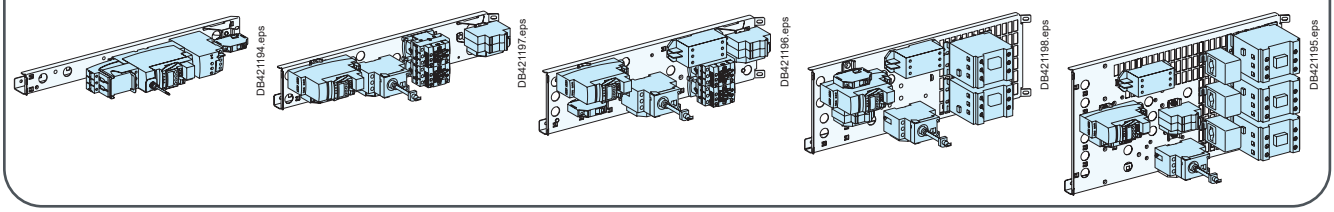
Mounting	On a modular rail				On a base plate	
						
Devices	**Soft starters ATS01**					**LV/LV transformer**
	ATS01N103/106FT	**ATS01N109/112FT ATS01N206 to 212**	**ATS01N222 to 232**	**ATS01N230LY ATS01N244LY ATS01N244Q**	**ATS01N272LY ATS01N285LY ATS01N272Q ATS01N285Q**	**ABL6-TS/TD up to 2500 VA 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.

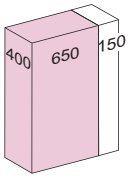
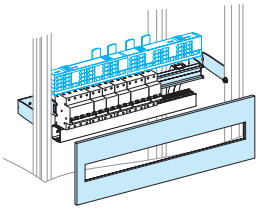
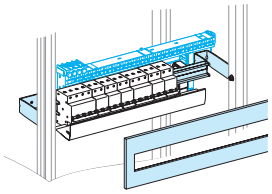
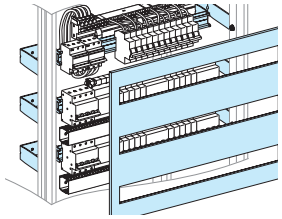
- Easy installation
- Switchboard upgradeability
- Mounting plate optimal stacking density
- Functional units reliability.

See PrismaSeT MCC catalogue DESW049EN.

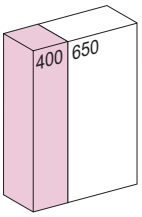
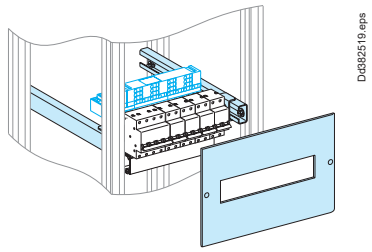


Modular devices
Acti 9 ⩽ 63 A

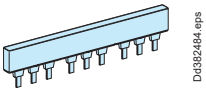
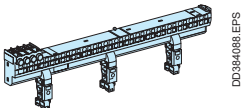
Circuit breakers

Mounting	Horizontal distances between centres: 200 mm	Horizontal distances between centres: 150 mm	
			

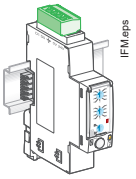
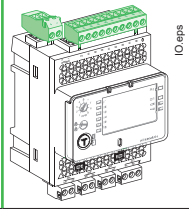
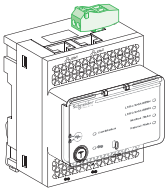
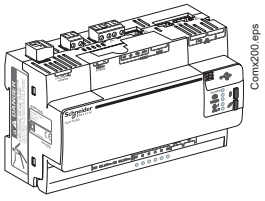
Devices		All modular devices	Modular devices ⩽ 40 A	
Rail length (modules of 9 mm)		48	48	48
No. of vertical modules		**4** (1)	**3**	**8**
Rail (48 modules of 9 mm)		**LVS03401**	**LVS03401**	3 x **LVS03401**
Modular front plates		**LVS03204**	**LVS03203**	**LVS03223**
Blanking plate	strip	**LVS03220**	**LVS03220**	**LVS03220**
	divisible	**LVS03221**	**LVS03221**	**LVS03221**

Mounting	Horizontal distances between centres: 200 mm	Horizontal distances between centres: 150 mm
		

Devices		All modular devices	Modular devices ⩽ 40 A
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	Linergy FH comb busbar	Distribution block Linergy FM 63 to 200 A row
		
Type of connected devices	**According devices**	**All type**
Comb busbars / distribution blocks	*> page G-30*	*> page G-27*

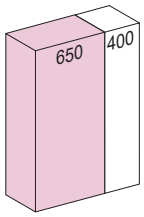
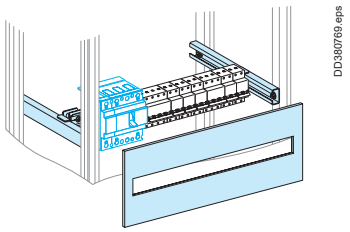
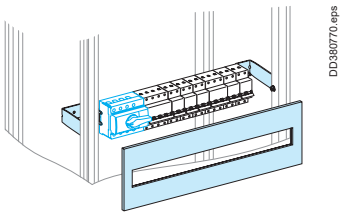
Linergy TR Terminal blocks: *> page G-42*.

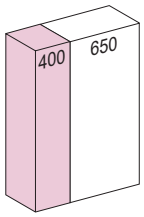
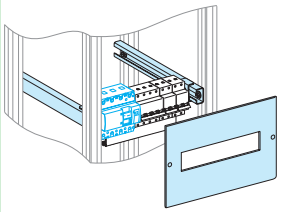
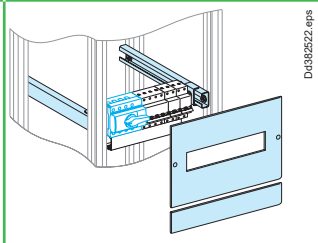
	EnerlinX devices				
	IFM	I/O module	IFE	ComX200	ComX510
					
No. of vertical modules	**4**				
Rail	**LVS03401 / LVS03404**				
Modular front plates	**LVS03204 / LVS03214**				
Characteristics	Installation by clip on a modular rail.				

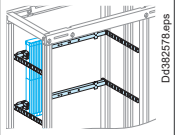
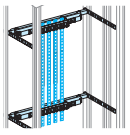
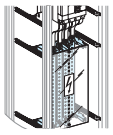
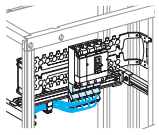
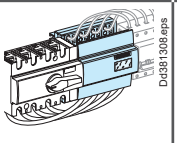
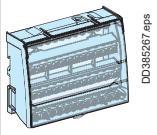
(1) For a modular row with a 160 A (half row) and 200 A Linergy FM distribution block positioned directly below a non-modular mounting-plate (ComPacT, etc.), or at the top of a switchboard, add one additional module (i.e. 4+1) and a plain upstream front plate (**LVS03801**).

Modular devices
80/160 A switchboard incomer

Circuit breakers

Mounting	Circuit breakers		Switch-disconnectors	
				
Devices	**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	
			
Devices	**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 [No. of vertical modules] modular	**LVS03214** [4]	**LVS03214** [4]	**LVS03214** [4]
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
						
Type of connected devices	**All type**	**All type**	**All type**	**All type**	**All type**	**All type**
Distribution block / busbars	*> page G-14*	*> page G-9*	*> page G-11*	*> page G-16*	*> page G-24*	*> page G-28*
Connection	*> page G-15*	must be made	must be made	*> page G-16*	*> page G-24*	must be made

(1) Can be completed by a rail + raiser (cat. no. LVS**04227**) 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.

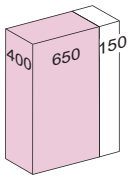
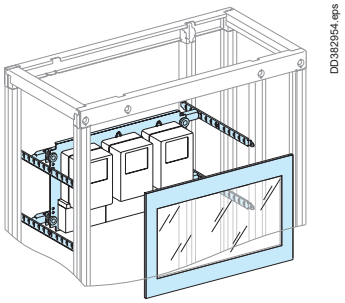
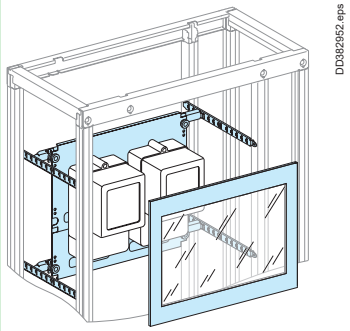
(2) Can be completed by a rail + raiser (LVS**04227**) to instal modular devices on.
Note: to mix an NSA125/160 circuit breaker with Multi 9 or Acti 9 modular devices, order (with the device) the symmetrical rail + raiser set (**28041**).
Width of devices: NSA125/160 3P: 10 modules / NSA125/160 4P: 14 modules.

Metering

Single-phase and 3-phase kilowatt-hour meters

Class 1 & 2

Others

Mounting	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		**LVS03157**	**LVS03152**
Front plates [No. of vertical mod.]	transparent	**LVS03343** [6]	**LVS03344** [9]
	or plain	**LVS03806** [6]	**LVS03807** [9]
Insulating plate		**LVS03154**	**LVS03154**
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

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.

Acti 9 iEM2000 & iEM3000 series



The Acti 9 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 Acti 9 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.

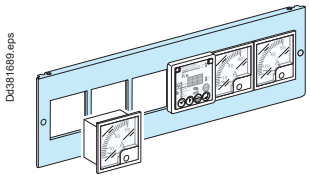
Possible installation

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. LVS**08910**) or earthing wire (cat. no. **08911**) mandatory.

Installation in a switchboard

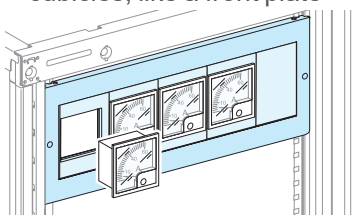
On a metal front plate with cut-outs, H = 150 mm (3 modules)



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

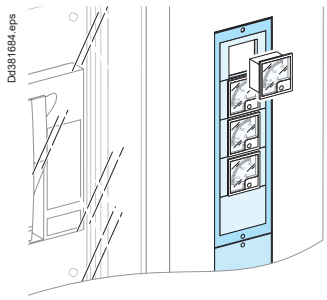
1

> 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

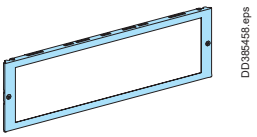
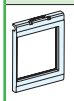
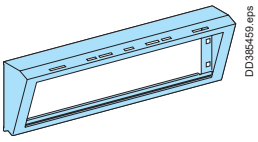
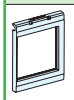
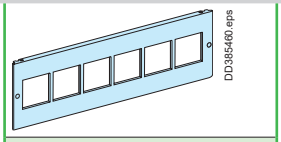
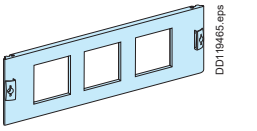
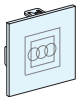
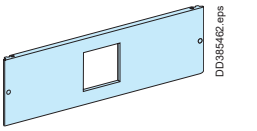
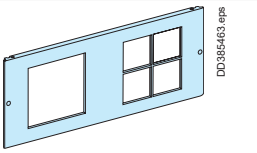
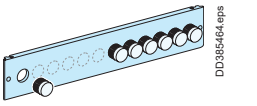
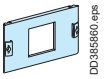
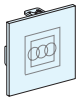


The degree of protection for installed devices is IP30.

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
W650 Mounting on an interface with plastic mounting plates				
5 x 72 x 72 Vigirex and others devices 72 x 72	 DD385458.eps	3	 DD385465.eps LVS03902	 DD385466.eps LVS03900 To blank-off or install: - 1 to 4 Ø 16 or 22 mm buttons - 1 device, 45 x 45
4 x 96 x 96 Power Meter and others devices 96 x 96	LVS03904		 DD385467.eps LVS03903	 DD385468.eps LVS03901 To blank-off or install: -1 to 4 Ø 16 or 22 mm buttons - 1 device, 45 x 45 - one 72 x 72 device
W650 Mounting on an inclined visor by 30° with plastic mounting plates				
5 x 72 x 72 Vigirex and others devices 72 x 72	 DD385459.eps	3	 DD385465.eps LVS03902	 DD385466.eps LVS03900 To blank-off or install: - 1 to 4 Ø 16 or 22 mm buttons - 1 device, 45 x 45
4 x 96 x 96 Power Meter and others devices 96 x 96	LVS03928 (1)		 DD385467.eps LVS03903	 DD385468.eps LVS03901 To blank-off or install: -1 to 4 Ø 16 or 22 mm buttons - 1 device, 45 x 45 - one 72 x 72 device
W650 Direct mounting on a metal front plate with cut-outs				
72 x 72 device				
6 x 72 x 72 Vigirex and others devices 72 x 72	 DD385460.eps LVS03910	3	Direct mounting -	 DD385469.eps LVS03907 To blank-off or install: - 1 or 2 Ø 22 mm buttons - 1 device, 45 x 45
96 x 96 device				
3x 96 x 96 Power Meter and others devices 96 x 96	 DD119465.eps LVS03911	3	Direct mounting -	 DD385470.eps LVS03908 To blank-off or install: - 1 or 2 Ø 22 mm buttons - 1 device, 45 x 45 - one 72 x 72 device
1 x 96 x 96 Power Meter and others devices 96 x 96	 DD385462.eps LVS03913	3	Direct mounting -	 DD385470.eps LVS03908 To blank-off or install: - 1 or 2 Ø 22 mm buttons - 1 device, 45 x 45 - one 72 x 72 device
144 x 144 device + 72 x 72 devices				
1 x 144 x 144 + 4 x 72 x 72 144 x 144 device + devices 72 x 72	 DD385463.eps LVS03912	4	Direct mounting -	 DD385469.eps LVS03907 To blank-off or install: - 1 or 2 Ø 22 mm buttons - 1 device, 45 x 45
W650 Pushbuttons and lamps Ø 22 mm				
12 x Ø 22 mm	 DD385464.eps LVS03914	2	Direct mounting -	- -
W400 Front plate				
1 x 96 x 96 Power Meter and others devices 96 x 96	 DD385860.eps LVS03923	3	Direct mounting -	 DD385470.eps LVS03908 To blank-off or install: - 1 or 2 Ø 22 mm buttons - 1 device, 45 x 45 - one 72 x 72 device

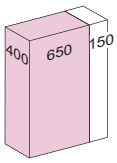
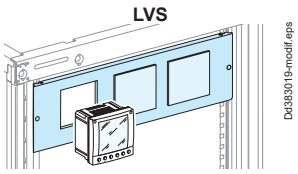
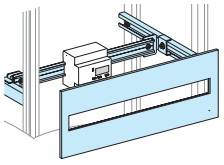
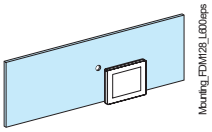
(1) The visor (cat. no. **LVS03928**) can be installed on a plain door with cut-out.

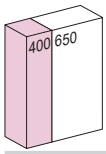
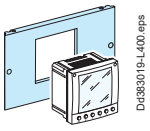
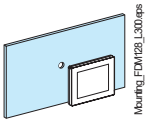
Metering and human-switchboard interface

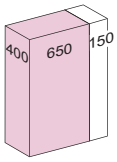
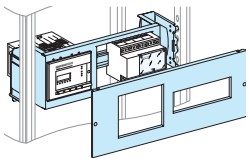
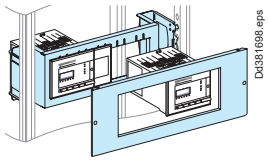
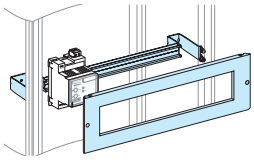
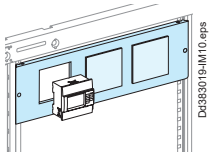
PowerLogic™ Meters

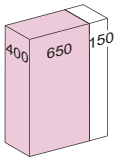
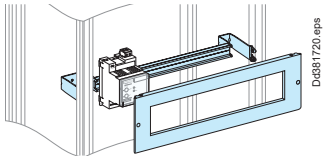
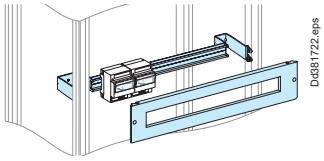
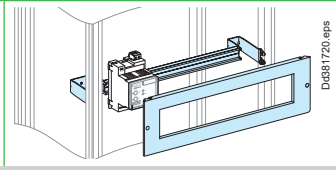
Vigilohm, Vigirex

Others

Mounting	Powerlogic system				
					
Devices					
	FDM121, PM5000 & PM8000 series (2)		**PM3000 series, IEM2000 & iEM3000 series**	**FDM128** (1)	**PM5RD, PM89RD96, PM5563RD** (3)
	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]	-	-
Front plates [No. of vert. modules] plain	-		-	**LVS03804** [4]	**LVS03804** [4]
Front plates [No. of vert. modules] 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				
	FDM121, PM5000 series, PM8000 series (2)		**FDM128** (1)	**PM5RD, PM89RD96, PM5563RD** (3)
Number of vertical mod.	**3**		**4**	**4**
DIN rail	-		-	**LVS03404**
Front plates [No. of vert. modules] with cut-out	**LVS03923** [3]		-	-
Front plates [No. of vert. modules] 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				
	IM400 with 3 **XD301** or with 1 or 2 **IFL12**	**2 x IM400**	**IM10, IM10H, IM20, IM20H HV-IM20, HV-IM400, IM9, IM9-OL**	**IM10 / IM10H IM20 / IM20H**
Number of vertical mod.	**6**	**6**	**3**	**3**
Modular rail	-		**LVS03401**	-
Mounting plates	**LVS03930**	**LVS03931**	-	-
Front plates with cut-outs	**LVS03932**	**LVS03933**	**LVS03203**	**LVS03911**
Characteristics	Installation in the device compartment			

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

(1) For 72 x 72 mm cases > page E-67.
(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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F

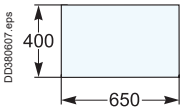
400 mm deep switchboard

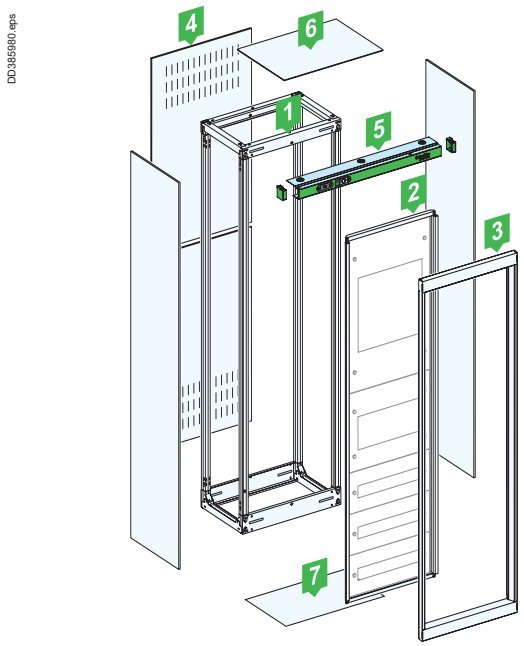
For switchboards with front connections.
- front panels

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





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

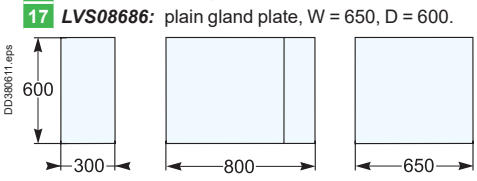
600 mm deep switchboard

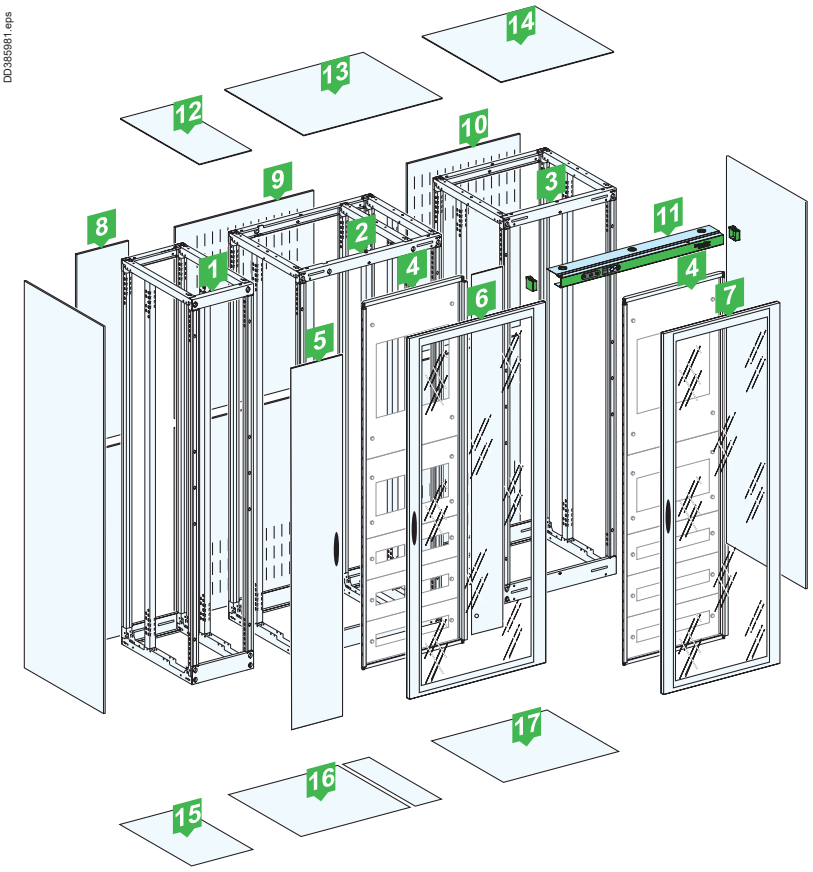
For switchboards with front connections.
- front panels

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.





Switchboard 2 - combination of IP30 cubicles with transparent doors.

800 mm deep switchboard

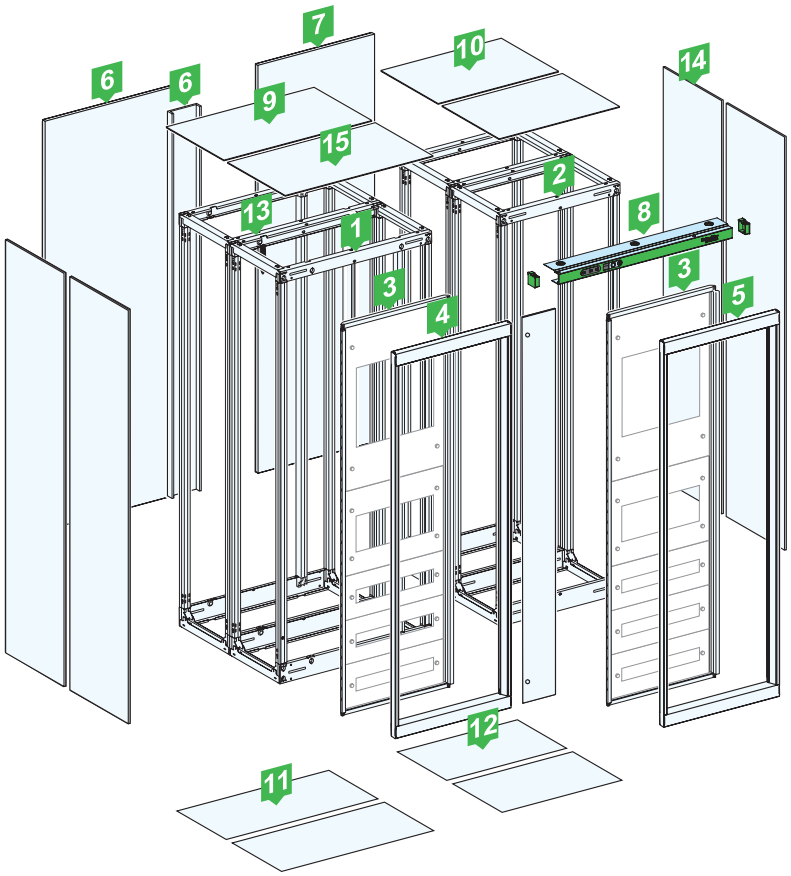
Made up of two cubicles back-to-back.
Rear connections are possible.

- 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).

DD386036.eps

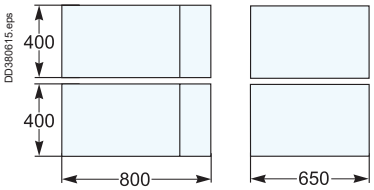


Combination of IP30 cubicles with cover frames.

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

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F

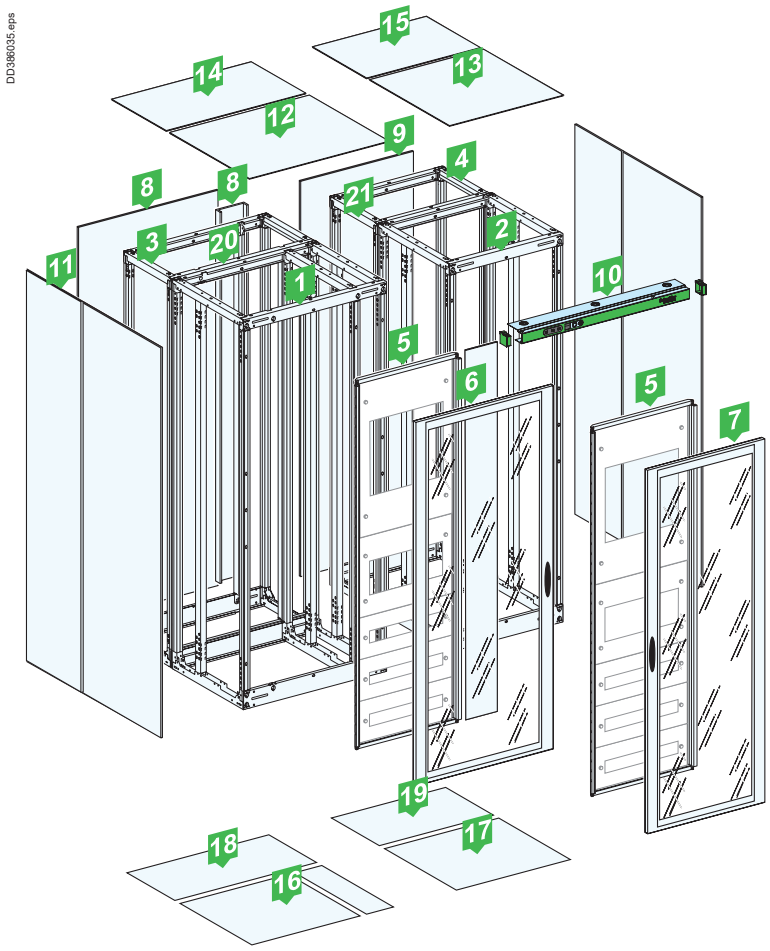
1000 mm deep switchboard

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:

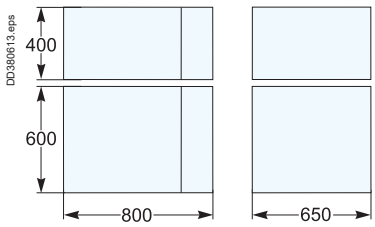
- ☐ a transparent door (IP30 or IP55)
- ☐ a plain door (IP30 or IP55)
- ☐ a fixed cover frame (IP30)
- rear panel = screw-on panel
- side panels = set of two panels
- plain roof
- gland plates (plain or in two parts).



Combination of cubicles with transparent doors.

Parts list for switchboard 4

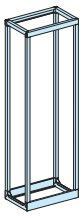
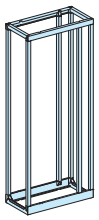
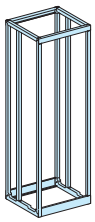
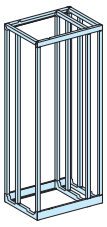
1	***LVS08607:***	framework, W = 800, D = 600, H = 2000
2	***LVS08606:***	framework, W = 650, D = 600, H = 2000
3	***LVS08407:***	framework, W = 800, D = 400, H = 2000
4	***LVS08406:***	framework, W = 650, D = 400, H = 2000
5	***LVS08566:***	front plate frame support, W = 650
6	***LVS08538:***	transparent 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:***	double depth combination kit

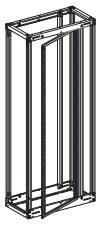


Parts list for switchboard IP55

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

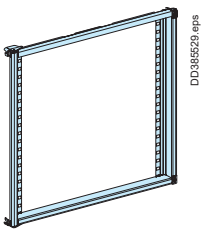
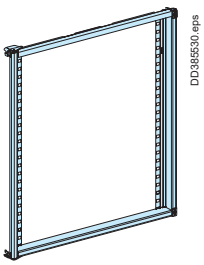
Cubicles
Frameworks

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									3 frames
	-				+ 2 additional uprights	equipped with intermediate uprights for the mounting plates				
	■ 4 cross-pieces. ■ Mounting hardware. ■ Framework combinations									
Characteristics	■ Cubicles can be combined side-by-side and back-to-back. ■ Can be equipped with IP30 or IP55 cover panels. **Note:** for the 800 mm width, the busbar compartment can be on the left or right									

Mounting	Hinged front plate frame support	
		
Width (mm)	400	650
Cat. no.	LVS08564	LVS08566
Characteristics	■ Reversible for left or right-hand opening. ■ Secured at two points. **Note:** can be mounted on 650 mm and 800 mm (650 + 150) wide cubicles.	

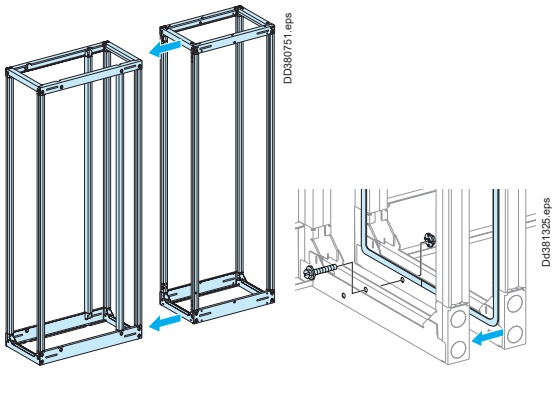
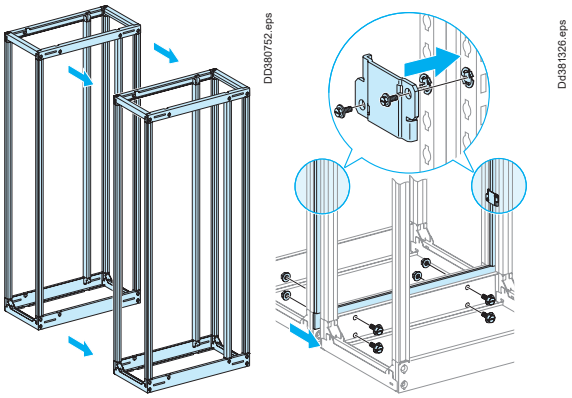
Partial hinged cover-frame supports

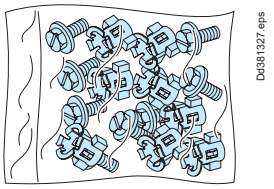
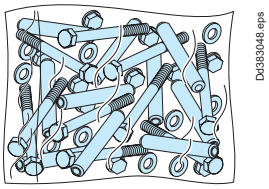
> page E-8.

Mounting	Partial hinged cover-frame supports	
		
Width (mm)	650	
	10 modules	12 modules
Cat. no.	LVS08560	LVS08562
Characteristics	■ For drawout MasterPact NW, when hinged front plate frame support is left -hand opening.	■ Use for Fupact ISFL configurations. ■ For drawout MasterPact NW, when hinged front plate frame support is left-hand opening.

F

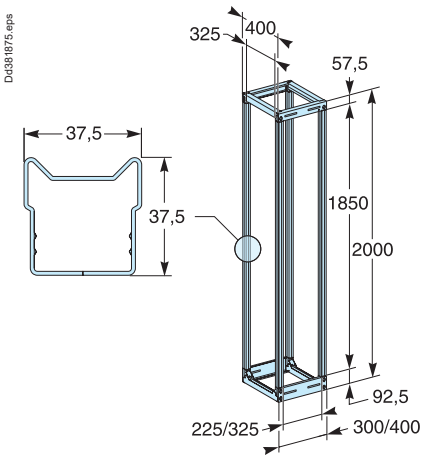
Cubicles
Frameworks

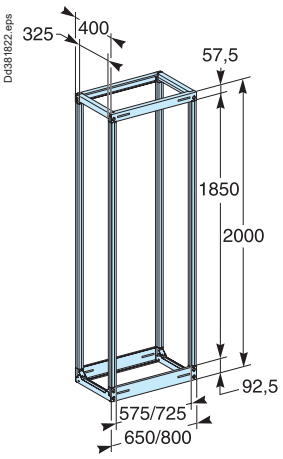
	Framework combinations	
		
Type	**Side-by-side**	**Back-to-back**
	IP55 sealing kit	**Double depth combination kit**
Cat. no.	**LVS08717**	**LVS08719**
Characteristics	The 650 and 800 mm wide frameworks are supplied with a combination kit comprising six M6 bolts. To maintain the IP55 degree of protection, an optional gasket must be installed between the combined cubicles.	The kit is made up of: ■ a set of hardware for the mechanical connections between the cross-pieces ■ two assembly plates to connect the uprights ■ the IP55 sealing kit.

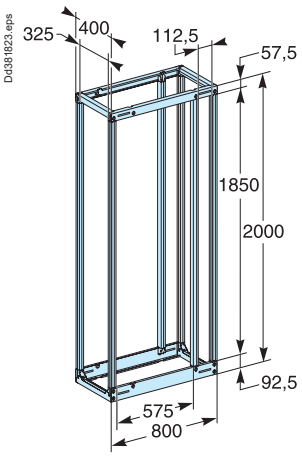
	Accessories	
		
Type	**Commodities**	
	Fixing screws and nuts	
Cat. no.	**LVS08921**	**LVS08718**
Characteristics	Set of 20 screws + wing nuts for framework	Set of 10 screws + combination accessories

Dimensions

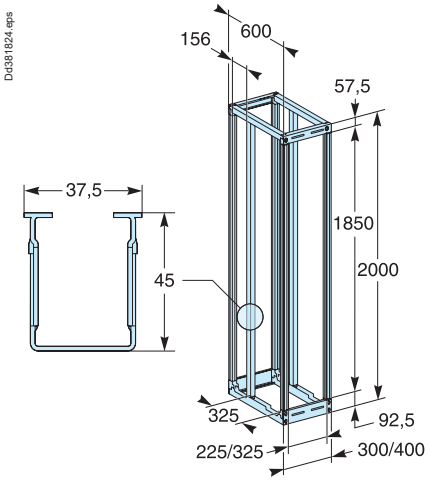
Frameworks, D = 400 mm

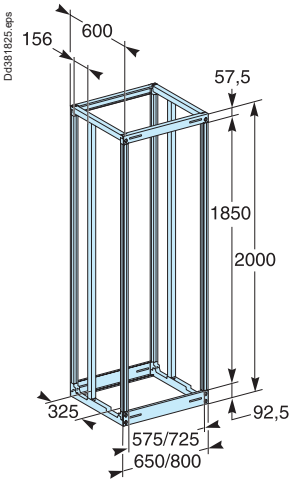


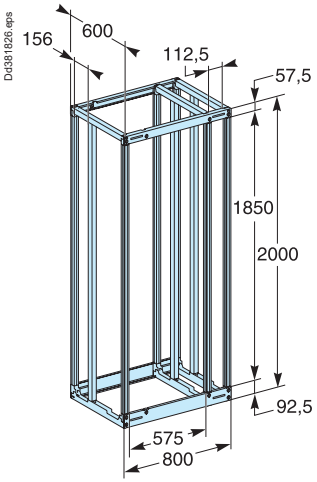


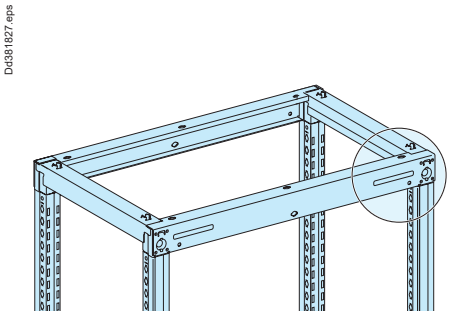


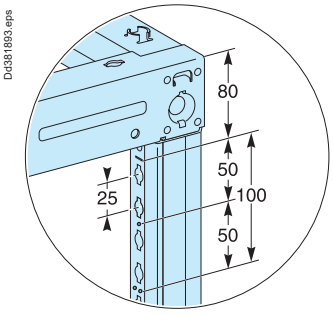
Frameworks, D = 600 mm





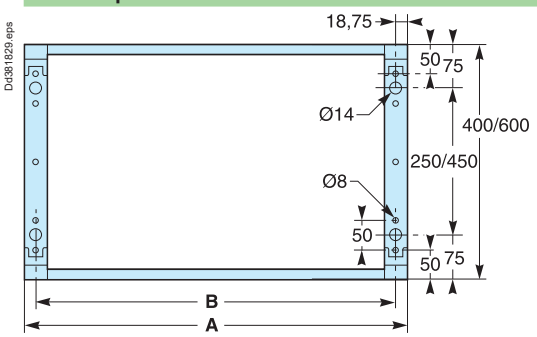




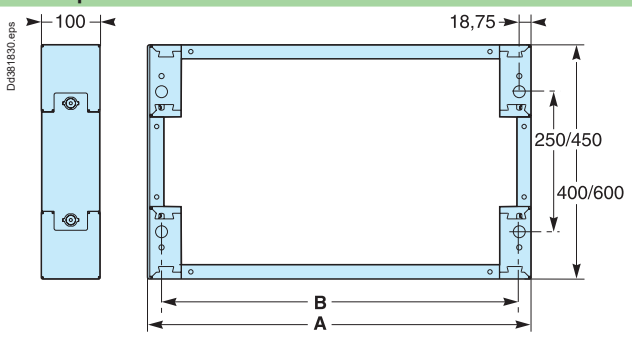


Fixing to floor

Without plinth



With plinth



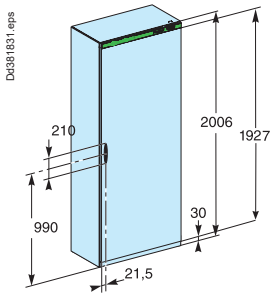
A	B
300	262.5
400	362.5
650	612.5
800	

F

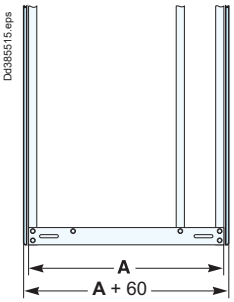
Dimensions

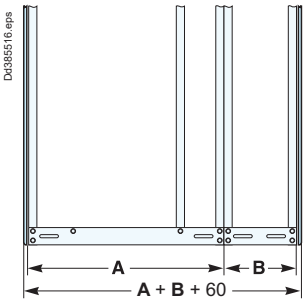
Cubicle with cover panels

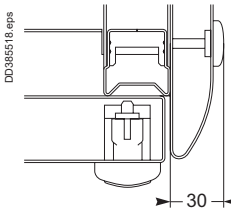
Height



Width

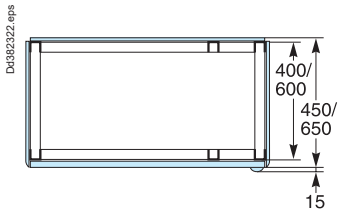


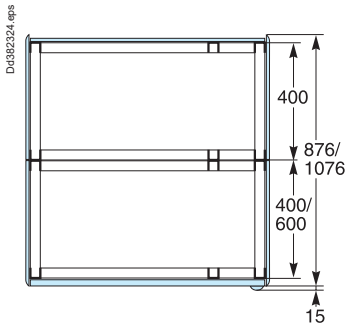




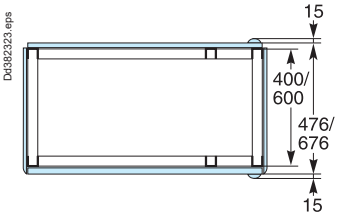
Depth

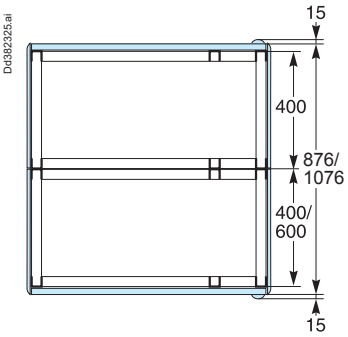
Door in front and panel in rear





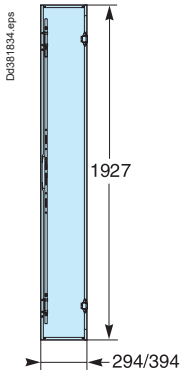
Doors front and rear

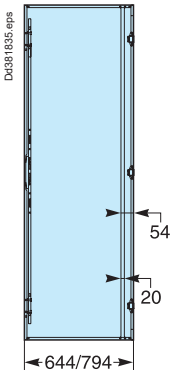




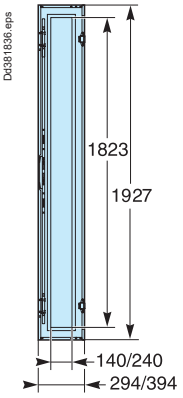
Door

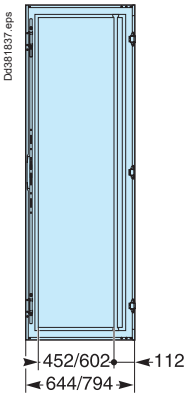
IP30 door

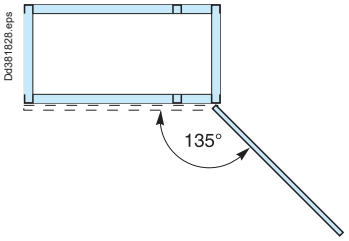




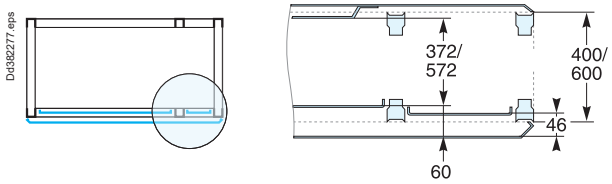
IP55 door







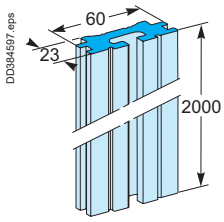
Available space behind door



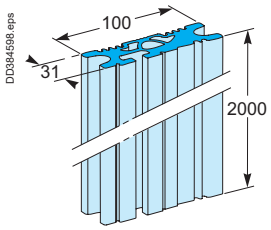
Dimensions

Linergy LGYE busbars

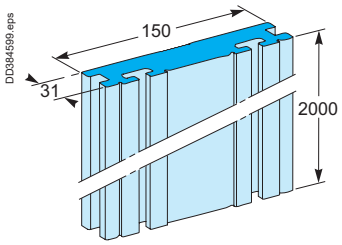
630 A - 1600 A



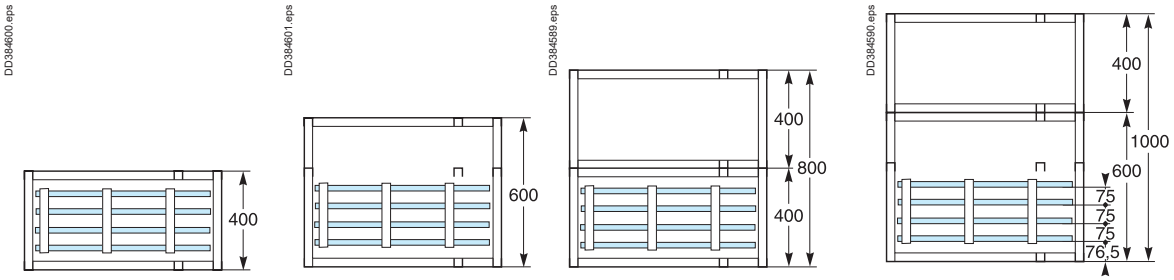
2000 A - 2500 A



3200 A - 4000 A

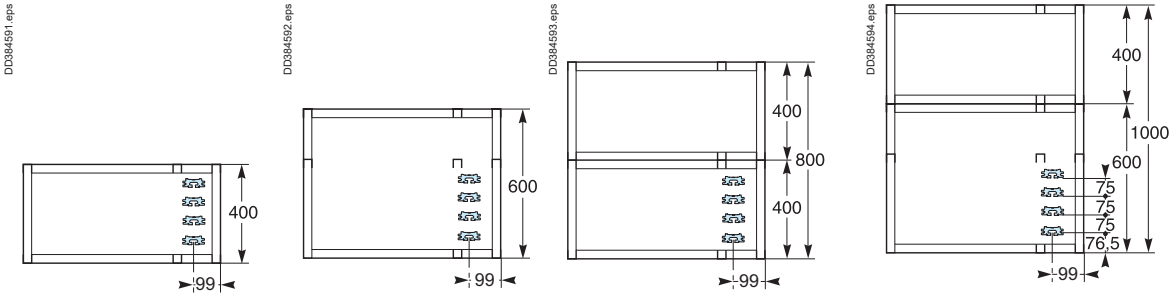


Layout of horizontal Linergy LGYE busbars

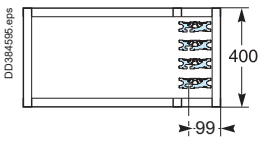


Layout of vertical Linergy LGYE busbars

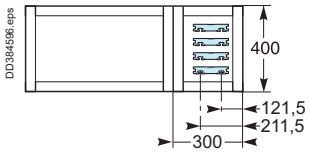
630 A - 1600 A



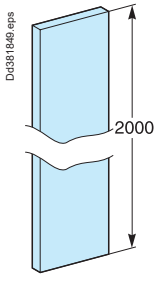
2000 A - 2500 A

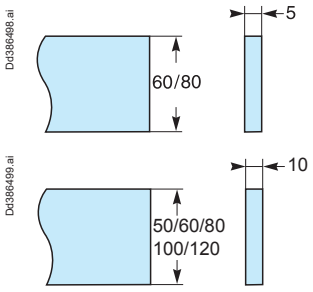


3200 A - 4000 A

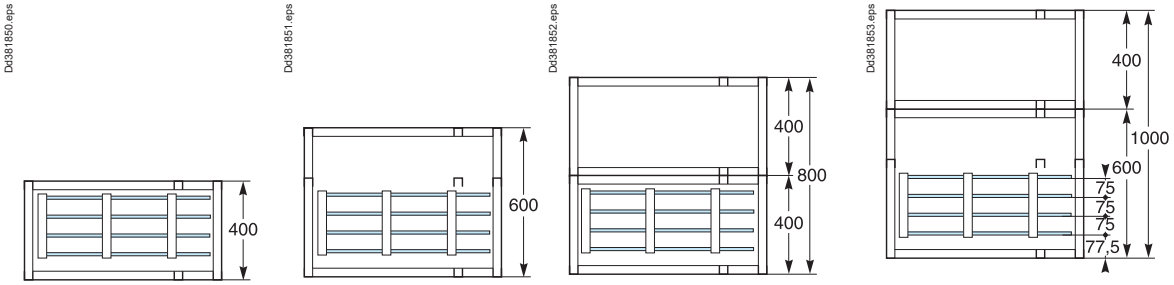


Horizontal Linergy BS busbars



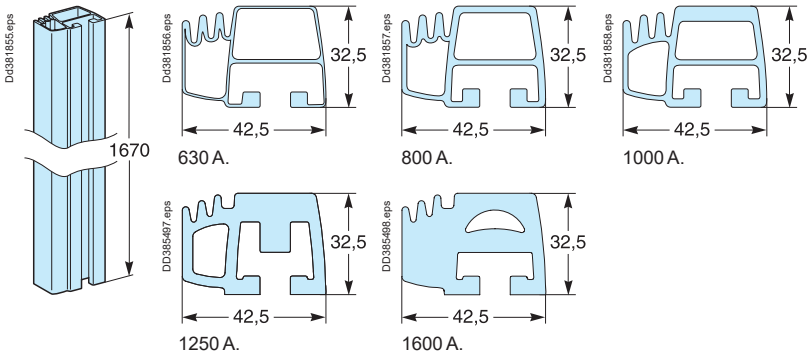


Layout of horizontal Linergy BS busbars

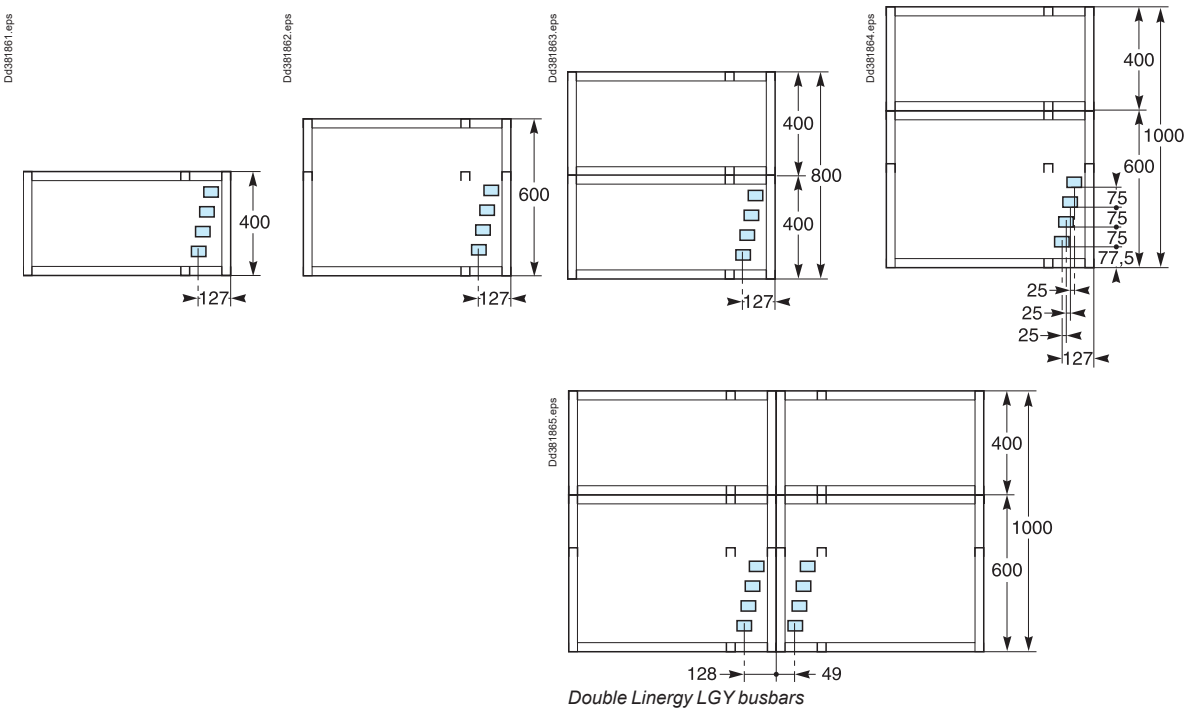


Dimensions

Vertical Linergy LGY busbars

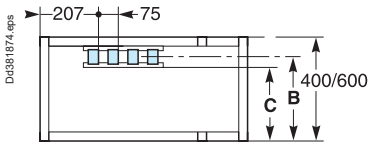


Layout of Linergy LGY busbars



Double Linergy LGY busbars

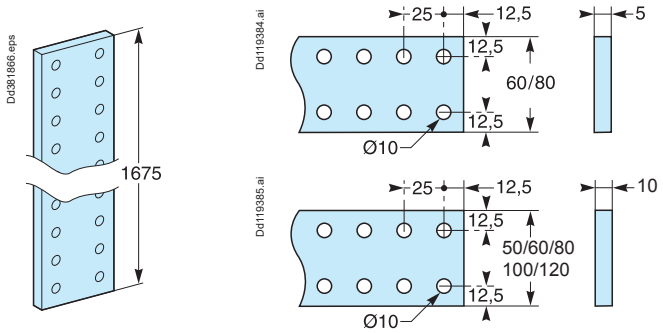
Layout of rear Linergy BS busbars



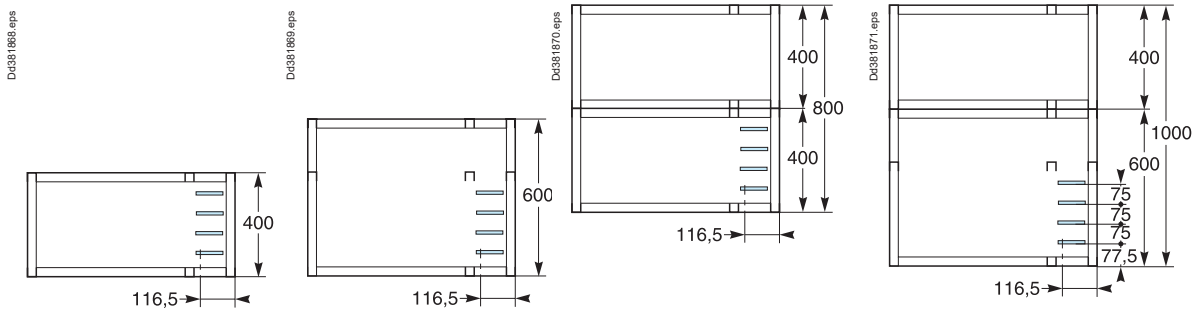
D = 400 mm	**B**	284
	C	242
D = 600 mm	**B**	484
	C	442

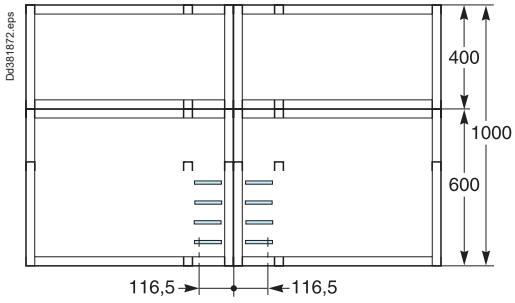
Dimensions

Vertical Linergy BS busbars



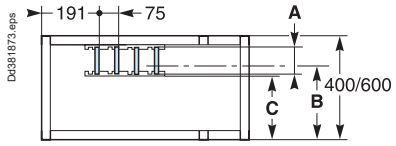
Layout of lateral Linergy BS busbars





Double Linergy BS busbars.

Layout of rear Linergy BS busbars

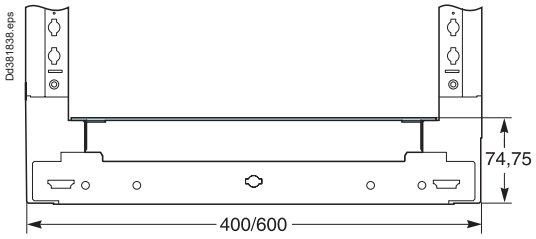


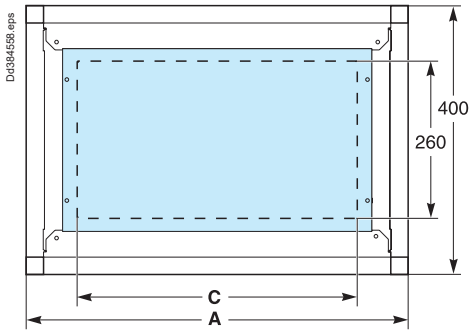
		A		
		50	60	80
D = 400 mm	B	284	274	254
	C	250	240	220
D = 600 mm	B	484	474	454
	C	450	440	420

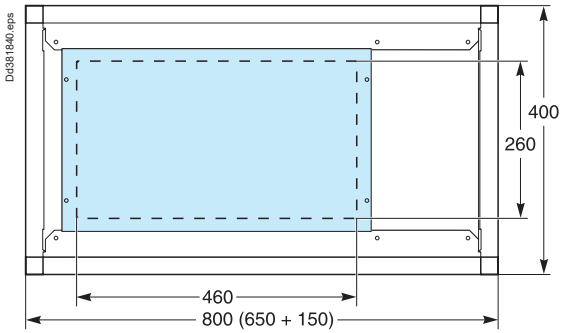
Dimensions

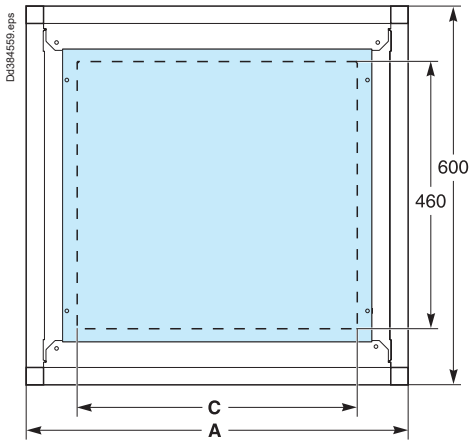
Plain gland plates

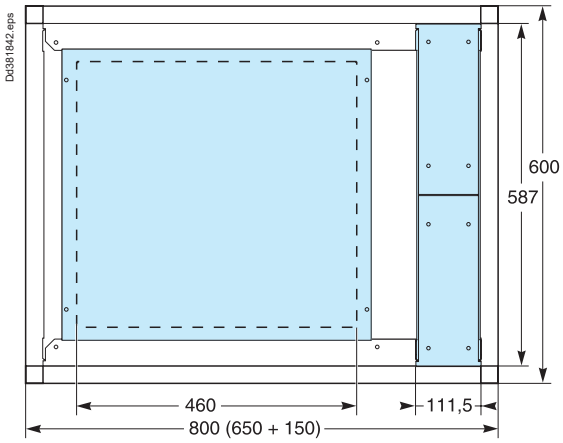
A	C
300	110
400	210
650	460
800	610





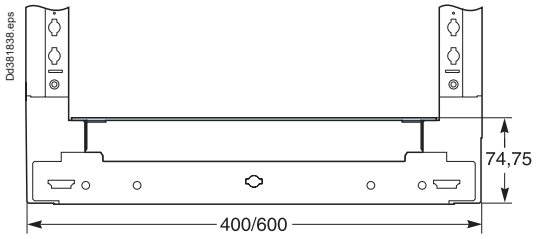


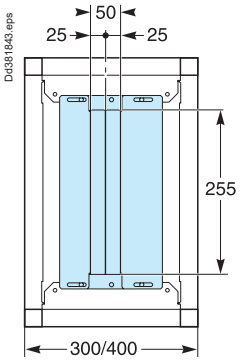


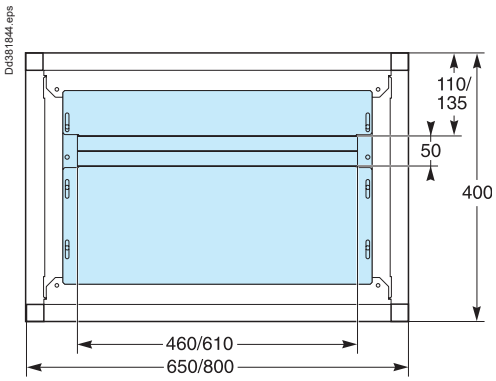


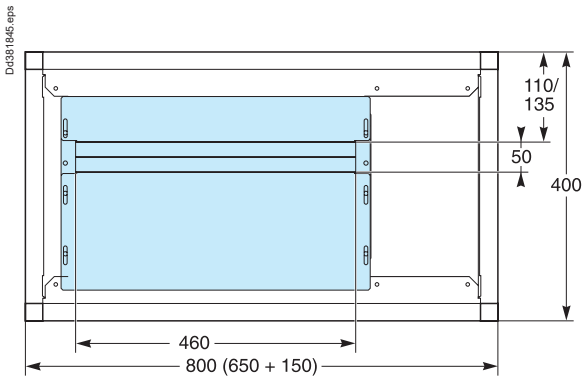
Dimensions

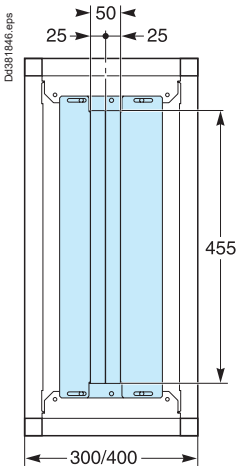
Two-part gland plates

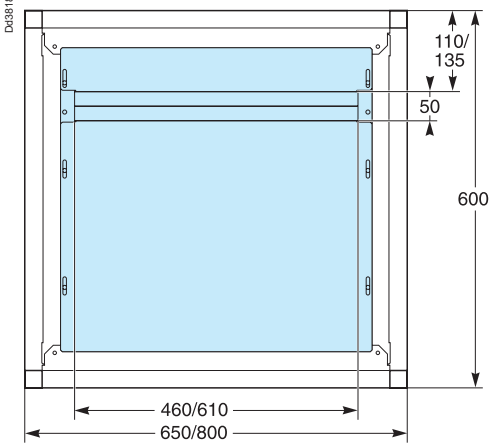


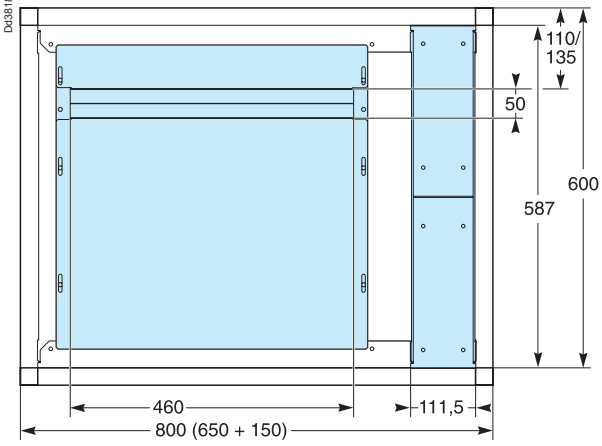






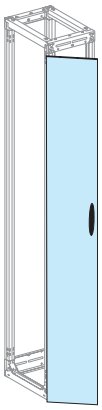
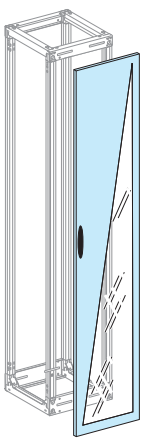
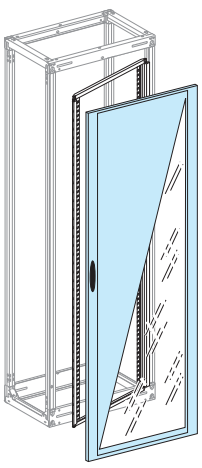
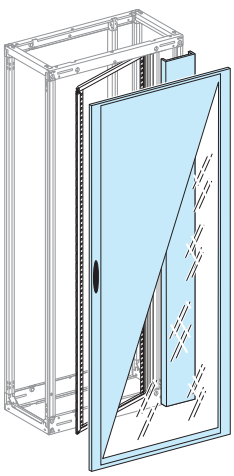


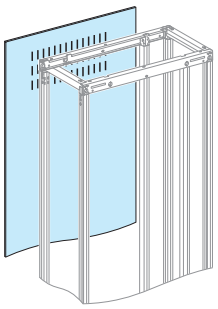
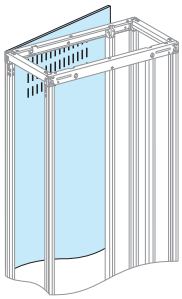




F

Cubicles
IP30/31 cover panels

Mounting	Front doors			
	 DD385485.eps	 DD119390.ai	 DD119388.ai	 DD119389.ai
Dimensions (mm)	**W = 300**	**W = 400**	**W = 650**	**W = 800**
Plain door	**LVS08513**	**LVS08514**	**LVS08516**	**LVS08518**
Transparent door	**-**	**LVS08534**	**LVS08536**	**LVS08538**
Door with cut-out	**LVS08593**	**LVS08594**	**-**	**-**
Reinforced plain door	**-**		**LVS01224**	**LVS01225**
Characteristics	■ Reversible for left or right-hand opening IP31. ■ Equipped with a handle and keylock (key 405). ■ Plain door are IK08 with 2 hinges. ■ Reinforced plain door are IK10 with 3 hinges. ■ Transparent door are IK10 with 2 hinges. For other possibilities > pagpage F-29. **Note:** the door with cut-out can be equipped with front plates for 72 x 72 or 96 x 96 instruments *> page E-67*. 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.			
Cover frame	-	**LVS08574**	**LVS08576**	**LVS08578** (1)

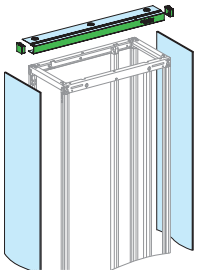
Mounting	Rear panels			
	 DD380603.eps		 Dd385486.eps	
Dimensions (mm)	**W = 300**	**W = 400**	**W = 650**	**W = 800**
Rear panel	**LVS08733**	**LVS08734**	**LVS08736**	**LVS08738**
Characteristics	■ Made up of two half panels with vents. ■ Supplied with quarter-turn fasteners.			

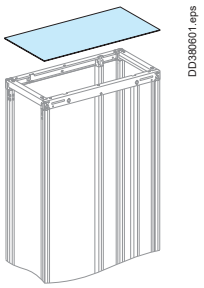
(1) For 800 mm wide frameworks, the 650 mm frame is supplied with a plain wicket door, 150 mm wide.

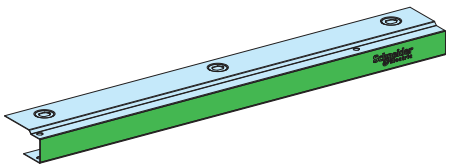
Cubicles

IP30/31 cover panels

Right angle kit

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	■ Supplied with quarter-turn fasteners for mounting on the framework ■ With markings for cut-outs, if necessary.			
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.			

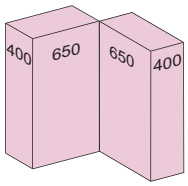
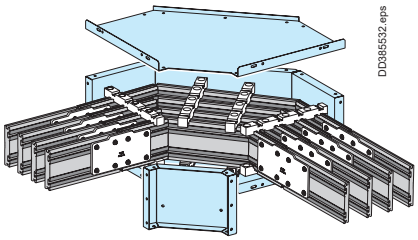
	Green Cover to fix on top of each frame			
				
Dimensions (mm)	**W = 300**	**W = 400**	**W = 650**	**W = 800**
	LVS08640	**LVS08641**	**LVS08642**	**LVS08643**
Characteristics	To cover the top of each section which does not have Voltage Presence Indicator.			

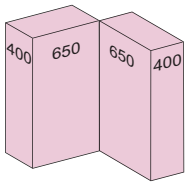
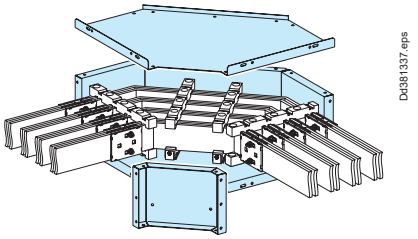
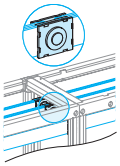
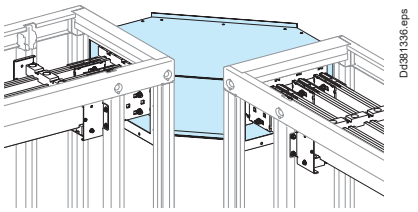
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Cubicles

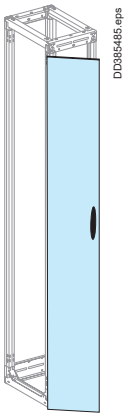
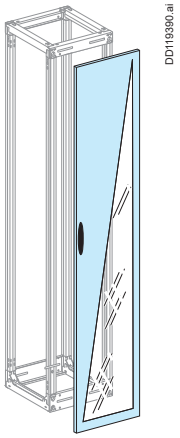
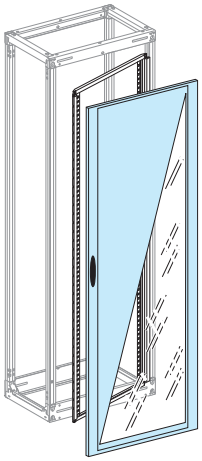
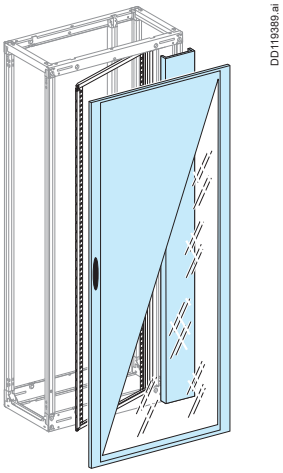
IP30/31 cover panels

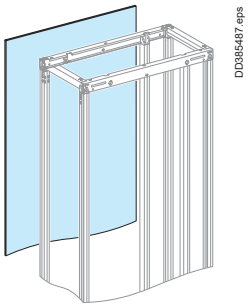
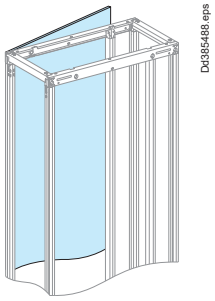
Right angle kit

kit IP30 for Linergy LGYE	Right-angle	Fish plates kit		
				
		630-1600 A	**2000-2500 A**	**3200-4000 A**
cat. number	**LVS08712**	2 x **LVS04610**	2 x **LVS04611**	2 x **LVS04613**
Characteristics	■ Metal duct with busbar supports ■ Used to create and protect the connection of horizontal busbars between two cubicles installed at right angles. ■ This kit needs a Linergy LGYE busbar of 1080 mm length.	■ Order the additional joint kit, comprising the 4 copper connections and mounting hardware:		

kit IP30 for Linergy BS	Right-angle	Fish plates kit	
			
		bars H 50/60	**bars H 80/100**
cat. number	**LVS08713**	2 x **LVS04640**	2 x **LVS04641**
Characteristics	■ Metal duct ■ Used to create and protect the connection of horizontal busbars between two cubicles installed at right angles.	Order: ■ fixed support 2 x **LVS04664** (if 100 x 10 bar, add 2 x **LVS04671**) ■ free support 2 x **LVS04662** (if 100 x 10 bar, add 2 x **LVS04671**)	
			

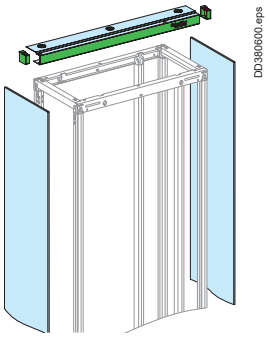
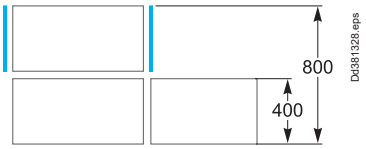
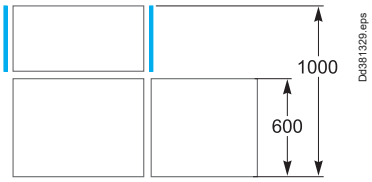
Cubicles
IP55 cover panels

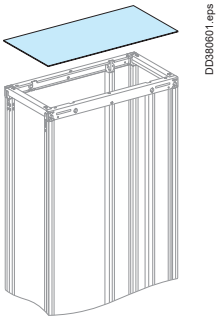
Mounting	Front doors			
				
Dimensions (mm)	**W = 300**	**W = 400**	**W = 650**	**W = 800**
Plain door	**LVS08523**	**LVS08524**	**LVS08526**	**LVS08528**
Transparent door		**LVS08544**	**LVS08546**	**LVS08548**
Characteristics	■ Equipped with a factory-mounted polyurethane (PUR) gasket, IP55. ■ Reversible for left or right-hand opening ■ Equipped with a handle and keylock (key 405). For other possibilities > page F-29. 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. **Note:** 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.			

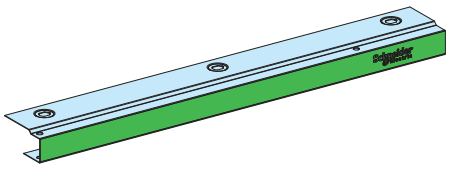
Mounting	Rear panels			
				
Dimensions (mm)	**W = 300**	**W = 400**	**W = 650**	**W = 800**
Rear panel	**LVS08743**	**LVS08744**	**LVS08746**	**LVS08748**
Characteristics	■ Equipped with a factory-mounted polyurethane (PUR) gasket ■ Supplied with mounting hardware. ■ One-piece, reinforced panel designed to ensure the degree of protection.			

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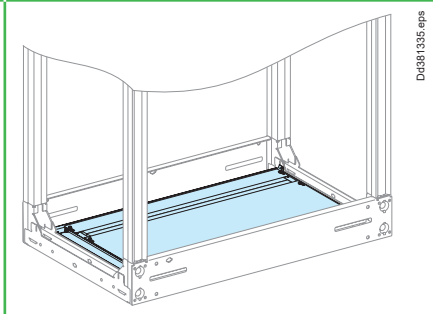
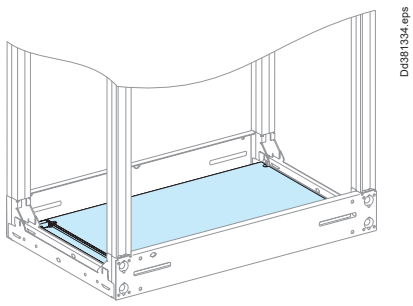
Cubicles
IP55 cover panels

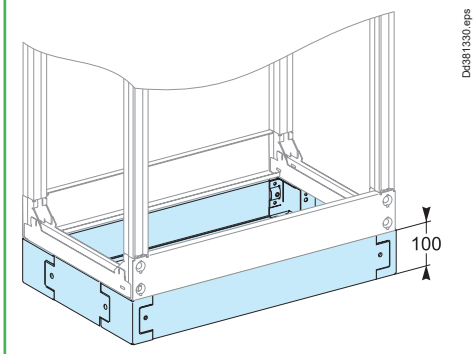
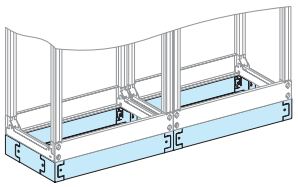
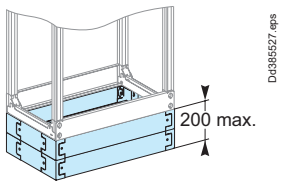
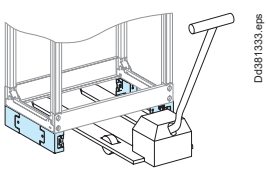
Mounting	Side panels	
		
Dimensions (mm)	**D = 400**	**D = 600**
Side panels	**LVS08755**	**LVS08765**
Characteristics	■ Equipped with a factory-mounted polyurethane (PUR) gasket ■ Supplied with mounting hardware.	
Side panels for “L” combinations	**LVS08756**	-
Characteristics	Left or right combinations of two cubicles with different depths (400 + 400 or 400 + 600). These panels simply replace the standard side panels.	
		

Mounting	Roof			
				
Dimensions (mm)	**W = 300**	**W = 400**	**W = 650**	**W = 800**
Plain roof D = 400 mm	**LVS08453**	**LVS08454**	**LVS08456**	**LVS08458**
Plain roof D = 600 mm	**LVS08653**	**LVS08654**	**LVS08656**	**LVS08658**
Characteristics	■ Equipped with a factory-mounted polyurethane (PUR) gasket ■ Supplied with mounting hardware. ■ With markings for clear identification of cable-running zones, if necessary.			

	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.			

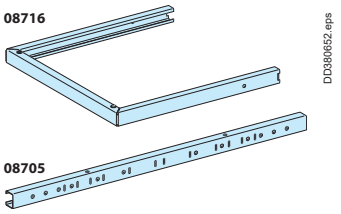
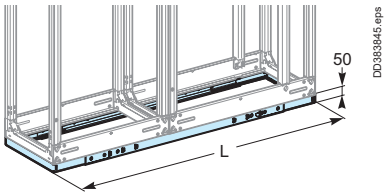
Cubicles
Plinth

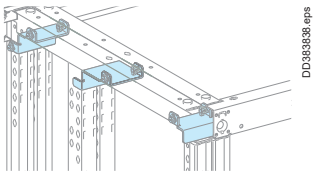
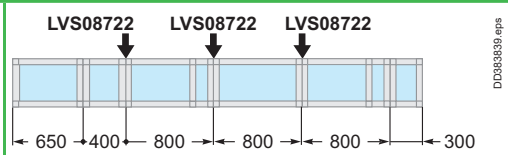
Mounting	Two-part gland plates		IP55, gland plates	
				
Degree of protection	**IP30/IP31**		**IP55**	
Dimensions (in mm)	**D400**	**D600**	**D400**	**D600**
W = 300 mm	**LVS08493**	**LVS08693**	**LVS08483**	**LVS08683**
W = 400 mm	**LVS08494**	**LVS08694**	**LVS08484**	**LVS08684**
W = 650 mm	**LVS08496**	**LVS08696**	**LVS08486**	**LVS08686**
W = 800 mm (650 + 150)	**LVS08497**	**LVS08697**	**LVS08487**	**LVS08687**
W = 800 mm	**LVS08498**	**LVS08698**	**LVS08488**	**LVS08688**

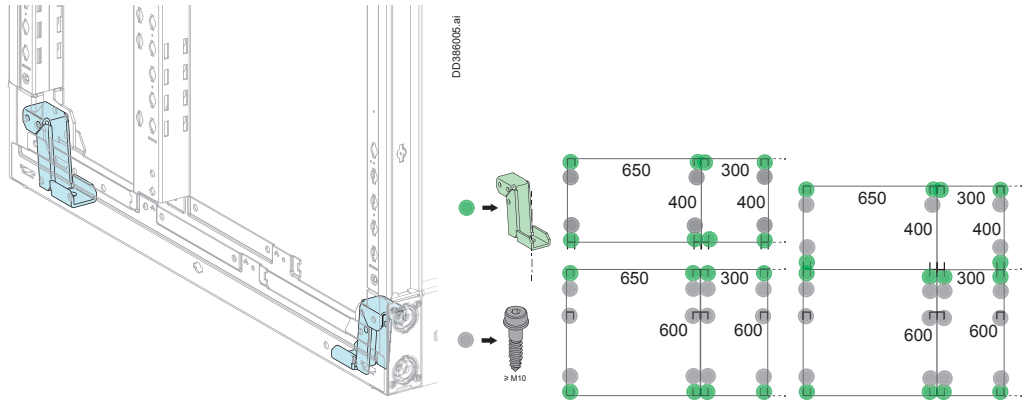
Mounting	Plinth H = 100 mm					
						
Dimensions (mm)	**W = 300**	**W = 400**	**W = 650**	**W = 800**	**D = 400**	**D = 600**
Four corner posts + two cross-pieces (front and rear)	**LVS08723**	**LVS08724**	**LVS08726**	**LVS08728**	-	-
Two side plates	-	-	-	-	**LVS08720**	**LVS08721**
Characteristics	The plinth is made up of two catalogue numbers: ■ one catalogue 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) ■ one catalogue number comprising two side plates (400 or 600 mm). Each catalogue number is supplied with the necessary hardware.					
Examples	 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.	

Cubicles

Cubicle handling and Lifting reinforcement kit

Mounting	Cubicle handling and rolling base				
					
Dimensions (mm)	**D = 400**	**D = 600**	**L1200 to L1900**	**L2000 to L2550**	**L2650 to L3050**
2 cubicle handling base end-pieces	**LVS08714**	**LVS08716**	-	-	-
Cubicle handling	-	-	**LVS08705**	**LVS08706**	**LVS08707**
Characteristics	This type of base is designed to avoid any risk of cubicle deformation during transport and handling. Five different catalogue numbers offer 27 width possibilities (1200 to 3050 mm) for 400 and 600 mm deep cubicles. ■ Two catalogue numbers each include 2 end-pieces for handling bases for 400 and 600 mm deep cubicles respectively and the corresponding mounting hardware. ■ Three catalogue 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.				

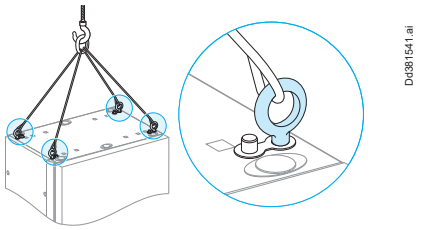
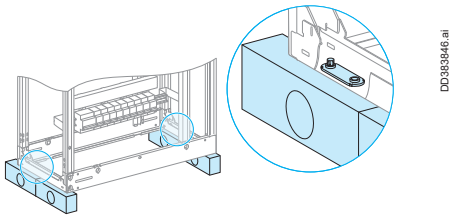
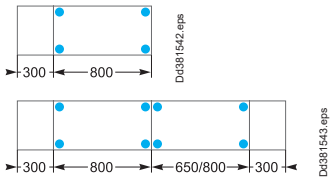
Mounting	Lifting reinforcement kit
	 
Dimensions (mm)	**D = 400, D = 600**
Lifting reinforcement kit	**LVS08722**
Characteristics	Kit LVS08722 is recommended for lifting combined cubicles and can be used together with handling base end-pieces LVS08714 or LVS08716 for severe transport or handling conditions.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

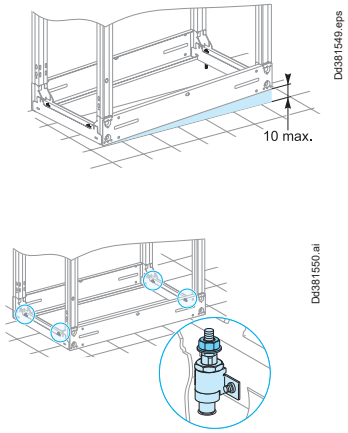
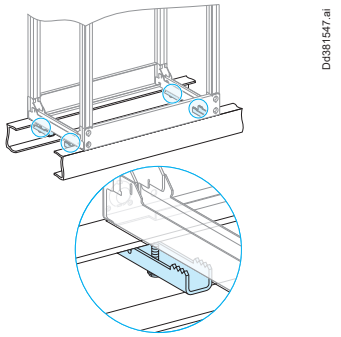
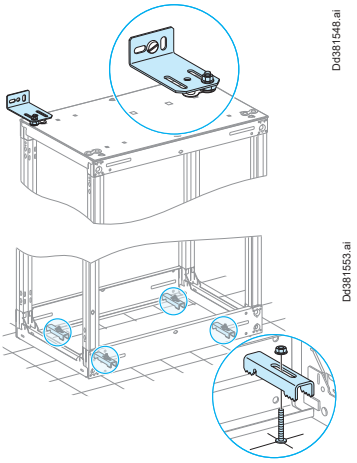
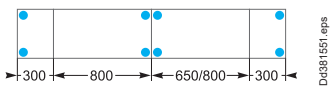
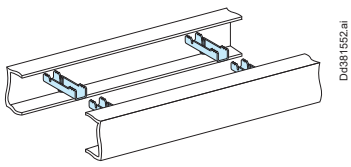
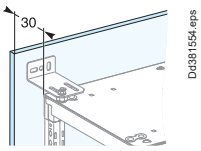
Mounting	Seismic Kit
	 Foot part to be added in each bottom angle to reinforce the structure.
Reinforcement bracket	**LVS08710**
Characteristics	Catalog number ref LVS08710 includes 1 reinforcement bracket and 4 M6 screws. ■ Plinths are not allowed with seismic kits.

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	**LVS08403**	**LVS08603**	**LVS08404**	**LVS08604**	**LVS08406**	**LVS08606**	**LVS08407**	**LVS08607**
Reinforcement bracket	**LVS08710** x 4				**LVS08710** x 4		**LVS08710** x 6	
Longitudinal cross men	**LVS08773**		**LVS08774**		**LVS03587** x 2			
Lateral cross member	**LVS03584** x 2	**LVS03584** x 2 + **LVS03586** x 2	**LVS03584** x 2	**LVS03584** x 2 + **LVS03586** x 2	**LVS03584** x 2		**LVS03584** x 2 + **LVS03586** x 2	
M10 screw (not supplied)	4	6	4	6	4		6	
Side panels IP55 mandatory for IP30 and IP55 configurations	**LVS08755**	**LVS08765**	**LVS08755**	**LVS08765**	**LVS08755**	**LVS08765**	**LVS08755**	**LVS08765**

Installation accessories

Enclosures

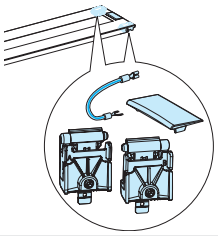
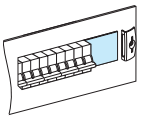
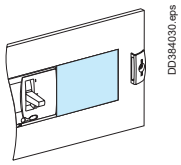
Mounting	Lifting rings	Framework stabiliser kit
		
Cat. no.	**LVS08700**	**LVS08701**
Characteristics	■ Set of four lifting rings screwed to the framework. ■ Use a set of lifting rings for each framework (W = 650 and 800 mm) containing devices. ■ When two cubicles with devices have been combined, use a lifting beam. ■ can be installed and removed without removing the roof ■ even if they are left attached, the switchboard conserves its original degree of protection.  Positions of the lifting rings for two combined cubicles containing devices. In this case, a lifting beam must be used.	■ Made up of four blocks under the framework ■ Suitable for all types of cubicles, whatever the width and depth ■ Increases the stability of the cubicle during mounting of devices ■ Makes possible cubicle handling using a pallet mover or a forklift ■ Protects the front, side and rear cover panels during handling ■ Can be reused.

Mounting	Levelling kit	False floor fixing kit	Floor/wall fixing kit
			
Cat. no.	**LVS08702**	**LVS08703**	**LVS08704**
Characteristics	■ Set of 4 fixtures ■ can be installed at any time, even when the cubicle is already in position ■ maximum adjustment range = 10 mm ■ secures the cubicle to the floor.  Recommended positions of the fixtures for combined cubicles.	■ Made up of four independent clamps ■ clamp on: □ “U” sections: H = 175 mm, W = 70 mm □ “I” sections: H = 120 mm, W = 64 mm ■ clamp travel = 11 mm. 	■ Made up of two brackets and four clamps ■ can be used to offset the switchboard fixing points for easier access ■ the wall brackets ensure sufficient wall clearance (at least 30 mm) for natural convection. 

F

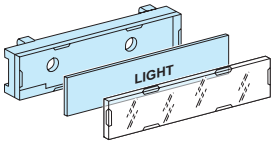
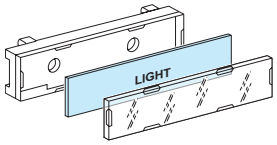
Front plate accessories

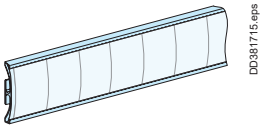
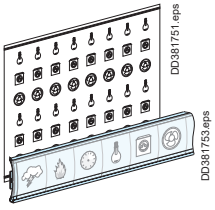
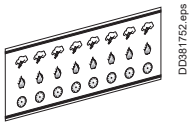
Front plate accessories, blanking plates

Used for	Front plate hinge kit	Blanking plates			
	 DD383950.eps	 DD384029.eps		 DD384030.eps	
		For modular devices		For ComPacT NSX100/250	
Cat. no.	LVS08585 (1)	LVS03220	LVS03221	LVS03249	LVS03222
Characteristics	■ Set of 2 hinges ■ 1 earthing braid	■ Strip ■ H = 46 mm, L = 1 m	■ Divisible ■ Set of 4 ■ H = 46 mm, L = 90 mm ■ White RAL 9003	■ Divisible ■ H = 85 mm, L = 147 mm ■ Blanc RAL 9003	■ Divisible + electronic trip unit

(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. LVS**08566**, LVS**08564**, LVS**08560**, LVS**08562** 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. LVS**08566**, **LVS08564**, **LVS08560**, **LVS08562** or else) must be connected to the cubicle frame, using an earthing braid (cat no. LVS**08910** or LVS**08911**). (standard NF / EN 61439-1 2011 edition).

Identification labels

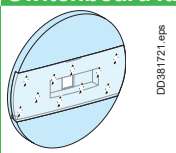
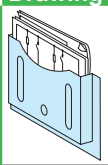
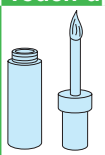
Used for	Clip-on labels			Engraving plates		
	 DD383974.eps			 Dd383975.eps		
Cat. no.	LVS08913	LVS08915	LVS08917	LVS08914	LVS08916	LVS08918
Dimensions (mm)	18 x 35	18 x 72	25 x 85	18 x 35	18 x 72	25 x 85
Characteristics	■ Set of 12. ■ The clip-on support is supplied with a paper label and a transparent cover. ■ It clips onto the front plate horizontally or vertically and can be screwed to any support (plain door, plain front plate, etc.).			■ Set of 12. ■ Simply replace the paper labels.		

Used for	Adhesive labels				Symbol sheets	
	 DD381715.eps				 DD381751.eps DD381753.eps	 DD381752.eps
Cat. no.	LVS08905	LVS08906	LVS08903	LVS08904	13735	13736
Dimensions (mm)	24 x 180	36 x 180	24 x 432	36 x 432		
Characteristics	■ Set of 12. ■ The adhesive label holders are supplied with a paper label and a transparent cover				■ Set of ten symbol sheets. ■ Standard symbols: □ loads: sockets, lights, heating units, etc. □ rooms: bedroom, bathroom, etc.	■ Set of ten symbol sheets ■ Special symbols: □ loads: lightning arrestor, gate, swimming pool, etc. □ rooms: technical room, computer room, etc

Adhesive labels for mimic diagrams

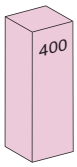
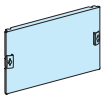
Used for	Lines	Outgoing arrows	Incoming arrows	Transformers	Earth symbols
Cat. no.	LVS01005	LVS01006	LVS01007	LVS01008	LVS01009
Characteristics	900 mm long and 7 mm thick				
	Set of 10				

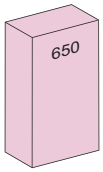
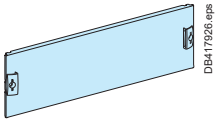
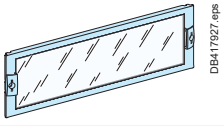
Accessories

Used for	Switchboard identification plate	Drawing holder	Touch-up accessories
	 DD381721.eps	 DD381208.eps	 DD385306.eps
Cat. no.	LVS08900	LVS08963	LVS08961
Characteristics	Color: RAL 9003	Color: RAL 9003	Color: RAL 9003

Reserve space

Others

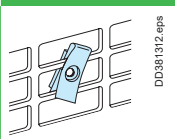
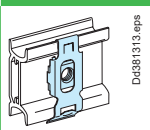
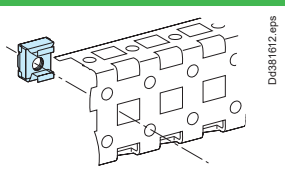
	Reserve space							
								
	Plain front plate W = 250 mm							
	H = 50 mm	**H = 100 mm**	**H = 150 mm**	**H = 200 mm**	**H = 250 mm**	**H = 300 mm**	**H = 450 mm**	**H = 600 mm**
[No. of vertical mod.]	[1]	[2]	[3]	[4]	[5]	[6]	[9]	[13]
Catalogue number	**LVS03811**	**LVS03812**	**LVS03813**	**LVS03814**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

	Reserve space							
								
	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]
Catalogue number	**LVS03801**	**LVS03802**	**LVS03803**	**LVS03804**	**LVS03805**	**LVS03806**	**LVS03807**	**LVS03808**
								
	Transparent front plate W = 500 mm							
[No. of vertical mod.]	-	-	-	[4]	-	[6]	[9]	[12]
Catalogue number	-	-	-	**LVS03342**	-	**LVS03343**	**LVS03344**	**LVS03345**

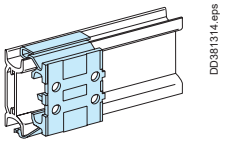
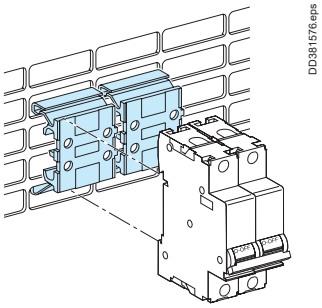
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Others

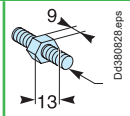
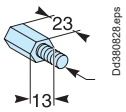
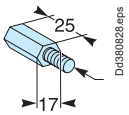
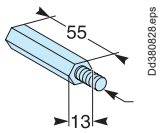
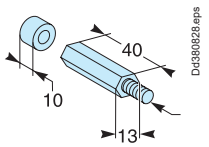
Clip-nuts

Mounting	For slotted mounting plates	For modular rails	For lateral and longitudinal cross-members
			
M4	**LVS03180**	**LVS03164**	-
M5	**LVS03181**	**LVS03165**	-
M6	**LVS03182**	**LVS03166**	**LVS03194**
Characteristics	Set of 20 Mounting of various devices	Set of 20 Mounting of various devices	Set of 20 Mounting in cubicles

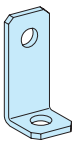
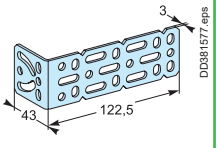
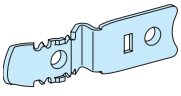
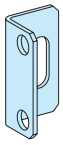
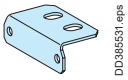
Pratic raiser

Raiser	
	 
Catalogue number	**LVS04224**
Characteristics	Set of 5 Height 10 mm, wide 27 mm Color: RAL 9003, insulating material

Hexagonal spacers

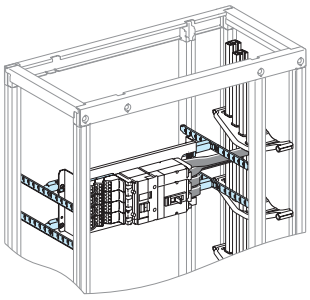
Hexagonal spacers					
					
M5	**LVS03185**	**LVS03186**	-	**LVS03187**	-
M6	**LVS03195**	**LVS03196**	**LVS03198**	**LVS03197**	-
M8	-	-	-	-	**LVS03199**
Characteristics	Height: 9 mm Set of 4	Height: 23 mm Set of 4	Height: 25 mm Set of 4	Height: 55 mm Set of 4	Height: 40 + 10 mm Set of 4

Universal angle brackets

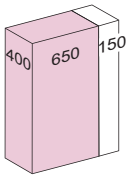
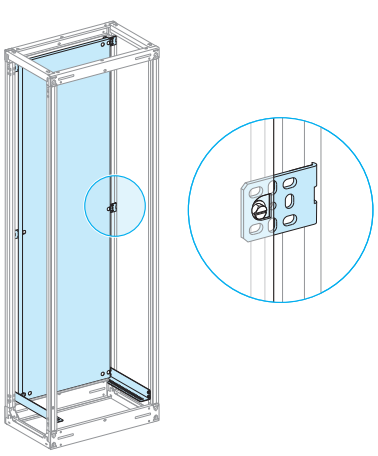
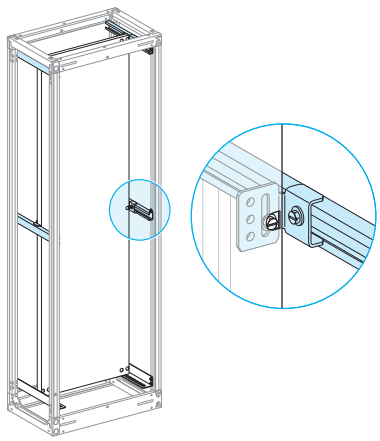
Universal angle brackets					
					
Catalogue number	**LVS03580**	**LVS03581**	**LVS03582**	**LVS03583**	**LVS04667**
Characteristics	Set of 4 + vis	Set of 2	6 universal inserts	Set of 6	Set of 2

Universal adapter
PrismaSeT G adapter
Mounting on a plain backplate

PrismaSeT G adapter

	W = 500	W = 250
	 DD381603.eps	
Catalogue number	**LVS03595**	**LVS03596**
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

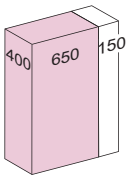
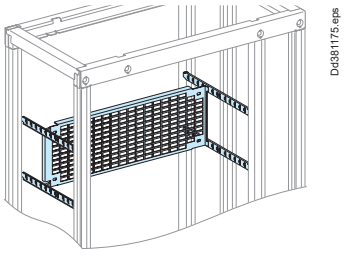
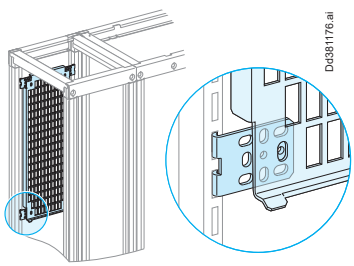
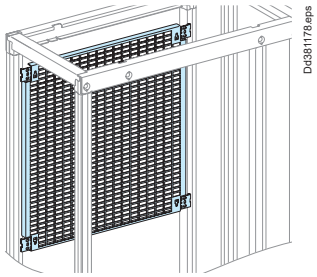
Mounting	Plain backplate		Slide rails + angle brackets
	 Dd381174.ai		 Dd381309.ai
Catalogue number	**LVS03570**	**LVS03569**	**LVS03593**
Characteristics	36 modules 510 mm wide for installation in a device compartment W = 650 mm or W = 800 mm (650 + 150)	36 modules 660 mm wide for installation for a 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).

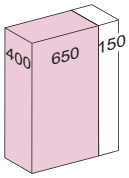
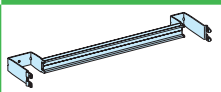
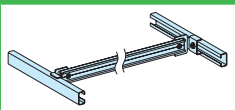
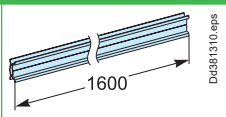
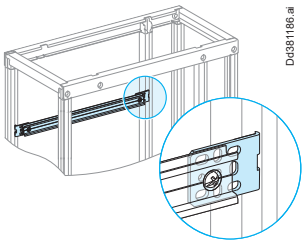
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Others devices
Mounting on a slotted plate
Mounting on a modular rail

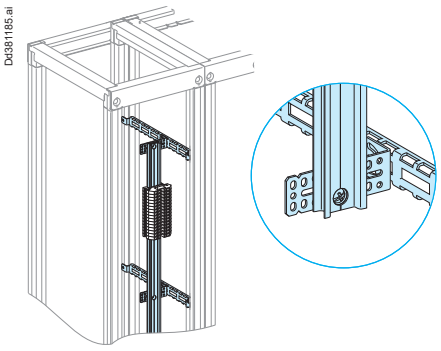
Mounting on a slotted plate

Mounting	Slotted mounting plates + lateral cross-members		Slotted mounting plate without lateral cross-members
	 		
Catalogue number	**LVS03571**	**LVS03572**	**LVS03574**
Number of vertical modules	4	6	12
Height (mm)	200	300	600
2 universal angle brackets	-	2 x **LVS03581**	-
Characteristics	**Installation** ■ either in the device zone on the four lateral cross-members (depth adjustment is possible) ■ or vertically at the rear of a cable compartment, W = 300 mm (LVS03571) or W = 400 mm (LVS03572).		Galvanised, slotted metal mounting plate Supplied with four angle brackets, they connect directly to the rear of a framework, W = 650 mm or 800 mm (650 + 150 mm) The mounting plate can also be installed using two sets of two slide rails (LVS03593 x 2) for depth adjustment.

Mounting on a modular rail

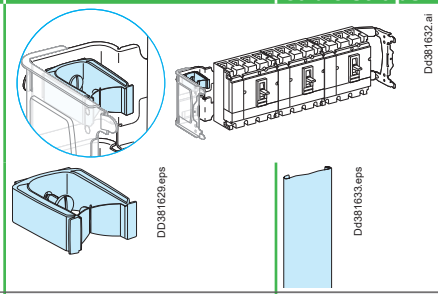
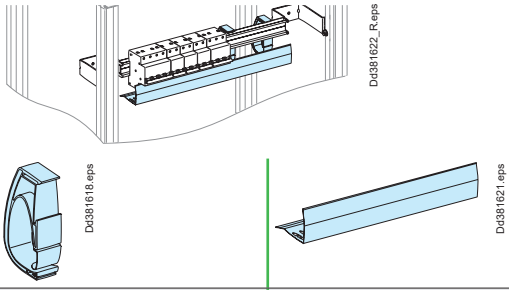
Mounting	Modular rails			Modular rail W = 650 mm
				
Catalogue number	**LVS03401**	**LVS03402**	**LVS04226** (1)	**LVS03590**
Characteristics	Useful length: 432 mm	Useful length: 432 mm Modular rail (adjustable)	Set of 2 rails, useful length: 1600 mm with 4 holes, Ø 6.4 mm, 450 mm between centres	W = 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. LVS**04226** + **LVS03581** + LVS**08794**: > *page G-40*.

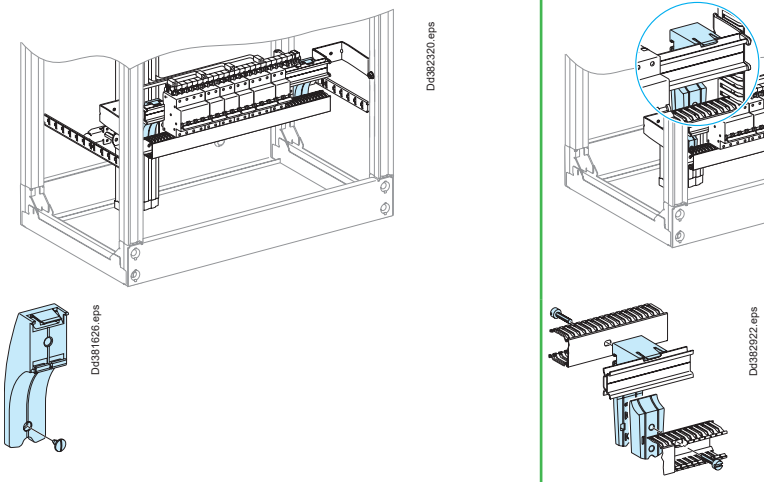
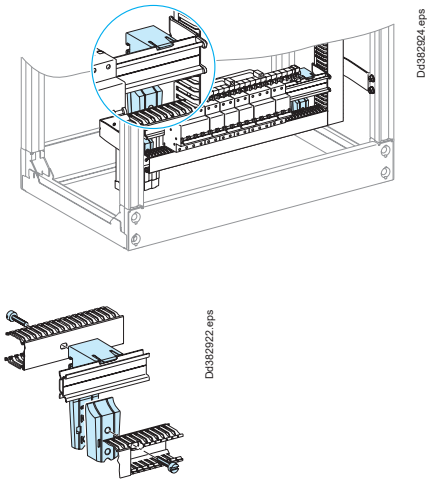


Others

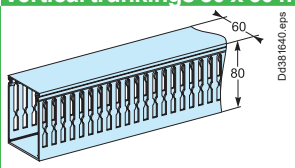
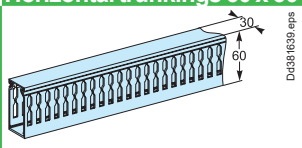
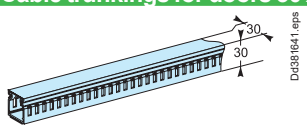
Straps and covers

Type	Vertical cable straps	Covers for vertical cable straps	Horizontal cable straps	Covers for horizontal cable straps
				
Catalogue number	**LVS04262**	**LVS04263**	**LVS04239**	**LVS04243**
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

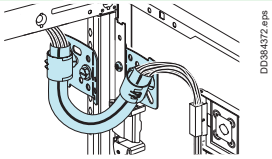
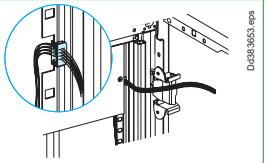
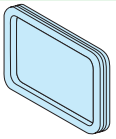
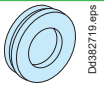
Trunking supports

Type	Horizontal trunking supports	Adaptable support for horizontal trunking
		
Catalogue number	**LVS04255**	**LVS04256**
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) **Note:** 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
			
Catalogue number	**LVS04267**	**LVS04257**	**LVS04233**
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

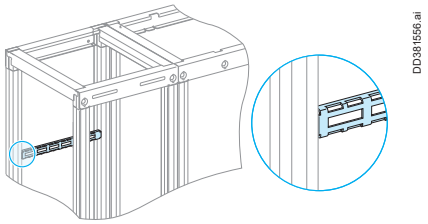
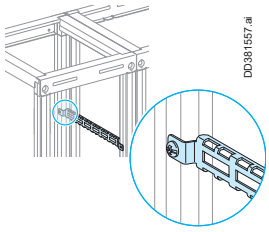
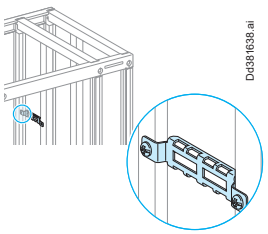
Cable trunkings for doors, grommets

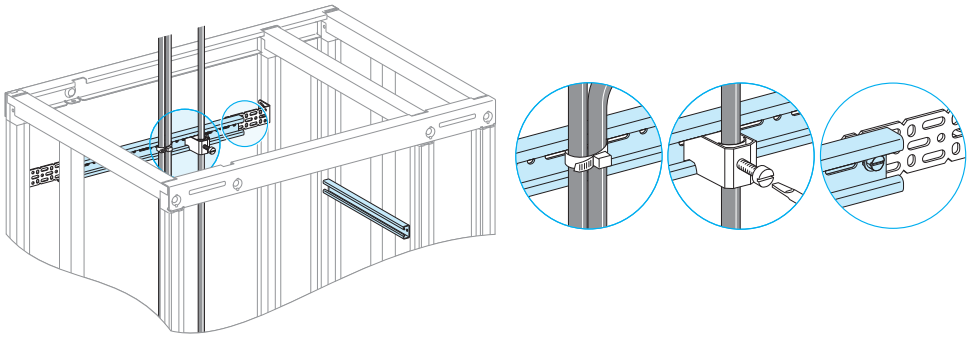
Type	Flexible trunkings for wiring to door	Grommets		
				
Catalogue number	**LVS04235**	**LVS04234**	**LVS01215**	**LVS08748**
Characteristics	W = 500 mm, inner Ø = 19 mm	Set of 10. For wiring through front.	5 square grommets 70 x 40.	50 grommets Ø22 mm.

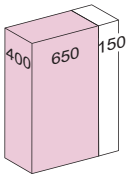
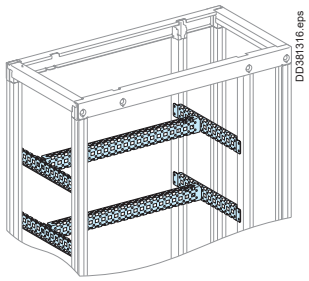
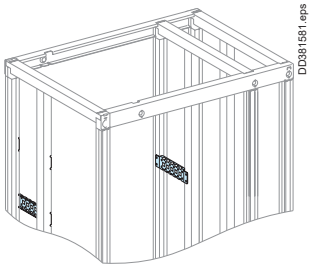
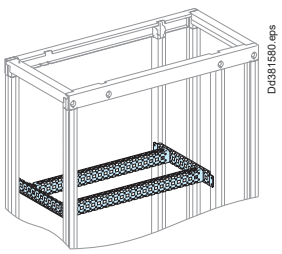
Connection accessories

Cable-tie supports, lateral and longitudinal cross-members

Others

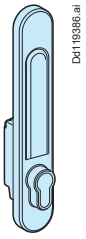
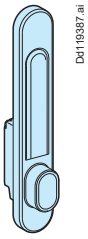
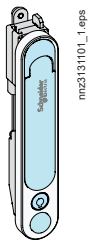
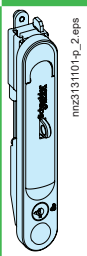
Mounting	Longitudinal cable-tie supports				Lateral cable-tie supports	
						
Catalogue number	**LVS08773**	**LVS08774**	**LVS08776**	**LVS08778**	**LVS08794**	**LVS08796**
Characteristics	W = 300 mm	W = 400 mm	W = 650 mm	W = 800 mm	D = 400 mm	D = 200 mm
	Set of 4, supplied with the necessary hardware 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
	
Catalogue number	**LVS08783**
Characteristics	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. Can be secured to: ■ universal angle bracket **LVS**03581 (for the longitudinal support) ■ universal angle bracket **LVS**03582 (for the lateral support) ■ modular rail **LVS**03593 (for depth adjustment).

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

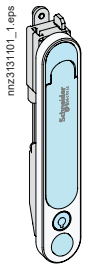
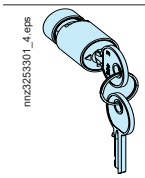
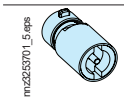
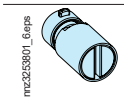
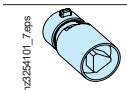
Others

Handles and padlocking

	EURO handle	ASSA/ABLOY handle	RAL 7016 rotary handle	Padlocking
				
Cat. no.	**LVS07932**	**LVS07933**	**LVS07931**	**LVS07938**
Characteristics	Supplied without barrel	Supplied without barrel	Supplied with barrel lock (key no. 405) RAL 7016	For new rotary handle

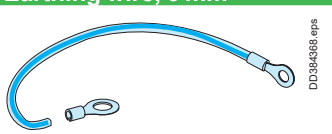
Barrel locks, inserts

The barrel locks and inserts below can be mounted on handle LVS08931 and on all the door handles of the PrismaSeT P range after removing the standard barrel lock (key no. 405).

Barrels & inserts for rotary handle			
		Characteristics	**Catalogue numbers**
		1 key no. 405	**LVS07940**
		2 keys no. 455	**LVS07941**
		2 keys no. 1242E	**LVS07942**
		2 keys no. 3113A	**LVS07943**
		2 keys no. 2433A	**LVS07944**
		2 keys no. 2432E	**LVS07956**
		DIN double bar insert	**LVS07945**
		Screwdriver slot insert	**LVS07946**
		Male triangle insert 6.5 mm	**LVS07947**
		7 mm	**LVS07948**
		8 mm	**LVS07949**
		9 mm	**LVS07950**
		Male square insert 6 mm	**LVS07951**
		7 mm	**LVS07952**
		8 mm	**LVS07953**

Earthing braid

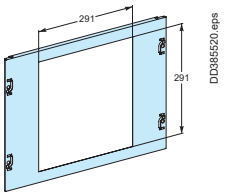
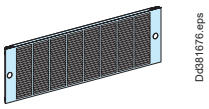
Earthing braid is used to earth a door or wicket door with devices.

	Earthing braid, 6 mm²	Earthing wire, 6 mm²
		
Catalogue numbers	**LVS08910**	**LVS08911**
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

F

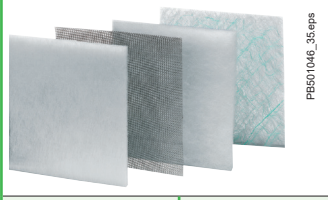
Ventilation accessories
Panel installation

Others

Front plate	For fan and grill	Ventilated front plate	
			
Cat. no.	**LVS03890**	**LVS03891**	**LVS03895**
Height	7 modules H = 350 mm	1 vertical module, H = 50 mm	3 vertical modules, H = 150 mm
Characteristics	Front plate with cut-out. Degree of protection: IP30.	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^2	250 cm^2

Forced-air ventilation		38 m^3/hr	85 m^3/hr	165 m^3/hr	300 m^3/hr	560 m^3/hr	850 m^3/hr
							
Cat. no.		**NSYCVF38M230PF**	**NSYCVF85M230PF**	**NSYCVF165M230PF**	**NSYCVF300M230PF**	**NSYCVF560M230PF**	**NSYCVF850M230PF**
Unimpeded throughput via filter (m^3/hr)	50 Hz	38	85	165	300	562	838
	60 Hz	39	98	193	350	586	803
Throughput via outlet grill (m^3/hr)	50 Hz	25	63	153 (1)	260	473	718
	60 Hz	26	72	171 (1)	307	477	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.	**NSYCAG92LPF**	**NSYCAG125LPF**	**NSYCAG223LPF**	**NSYCAG223LPF**	**NSYCAG291LPF**	**NSYCAG291LPF**

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

EMC cover						
Cat. no.	-	**NSYCAP125LE**	**NSYCAP223LE**	**NSYCAP223LE**	**NSYCAP291LE**	**NSYCAP291LE**

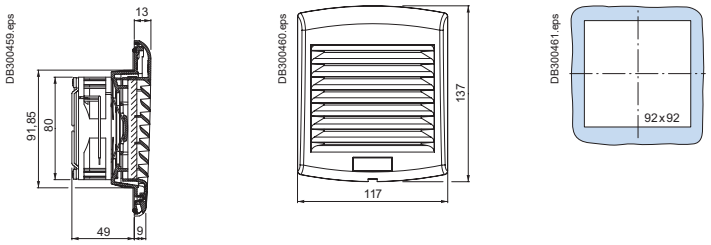
(1) For 2 outlet grills 161 (50 Hz) / 175 (60 Hz).
Nota : For other usage voltage like 50V or 110V, see Universal Enclosures catalog, cat. no. UE12MK01EN.

Ventilation accessories
Panel installation

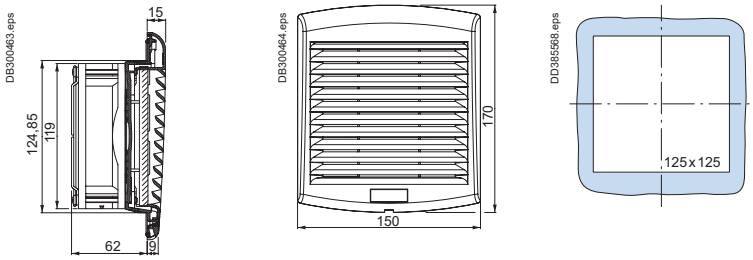
Others

Dimensions

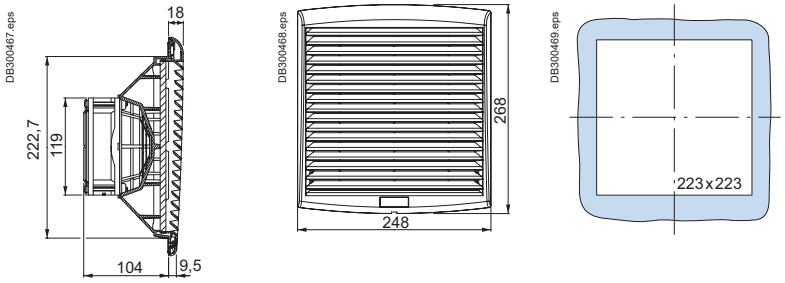
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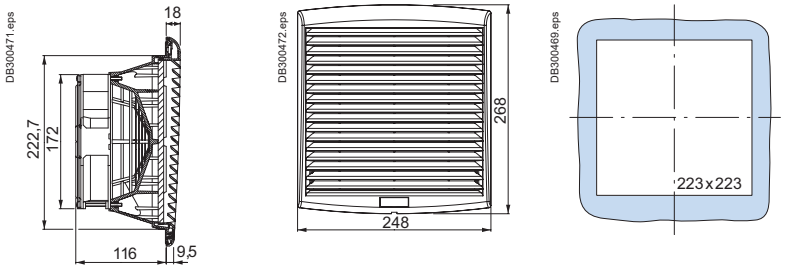
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NSYCVF165M230PF

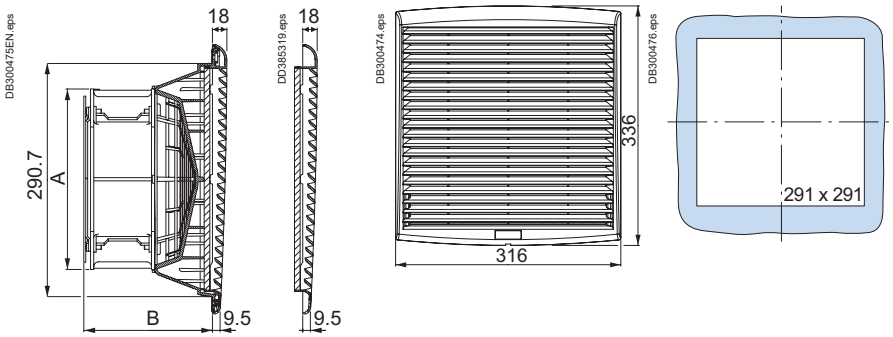


NSYCVF300M230PF



NSYCVF560M230PF - NSYCVF850M230PF

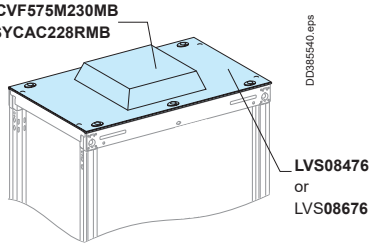
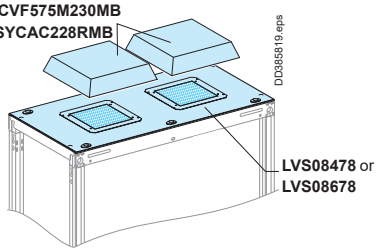
A	B	Cat. no.
225	160.5	**NSYCVF560M230PF**
280	192	**NSYCVF850M230PF**



F

Ventilation accessories
Roof installation

Others

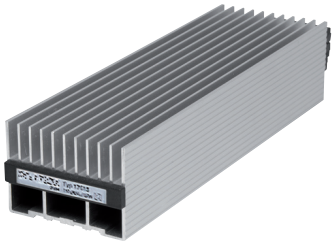
Roof ventilation	Width 650, IP31		Width 800, IP54	
	NSYCVF575M230MB or NSYCAC228RMB  		2 x NSYCVF575M230MB or 2 x NSYCAC228RMB  	
Roof with a cut-out	**D = 400 mm**	**D = 600 mm**	**D = 400 mm**	**D = 600 mm**
Catalogue numbers	**LVS08476**	**LVS08676**	**LVS08478**	**LVS08678**
Characteristics	IP31	IP31	IP54	IP54
Forced ventilation top hood with fan				
Catalogue numbers	**NSYCVF575M230MB**			
Characteristics	**Fan characteristics** ■ Power: 85 W ■ Input voltage: 230 V ■ Throughput via outlet grill : □ with 1 outlet grill: 350 m^3/hr □ Free with filter: 575 m^3/hr □ Finishing parts: painted with epoxy-polyester resin, textured RAL 9003 white ■ Noise level: 64 dB.			
Natural ventilation top hood without fan				
Catalogue numbers	**NSYCAC228RMB**			
Characteristics	■ Material: steel ■ Finishing parts: painted with epoxy-polyester resin, textured RAL 9003 white ■ IP54 ■ Fixing to the top by means of caged nuts and special screws			
Air-flow cross section = 304 cm^2 without electrical fan			2 x 304 cm^2	

Others

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	
	 PB501146_32.eps					 PB501025.eps	
	Power cord		Terminal block			Terminal block	
Cat. no.	NSYCR10WU2	NSYCR20WU2	NSYCR55WU2	NSYCR100WU2	NSYCR150WU2	NSYCR250W230VV	NSYCR400W230VV
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	■ Vertical mounting. ■ Aluminium case with fins. ■ Temperature: □ turns off at 60 °C, □ turns on at 25-30 °C (temperature of the resistor itself). ■ Equipped with a symetrical					■ Vertical mounting. ■ Aluminium case with fins. ■ Temperature: □ turns off at 60 °C, □ turns on at 25-30 °C (temperature of the resistor itself). ■ Equipped with a symetrical	

Thermofan

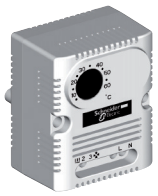
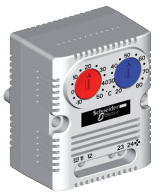
	Thermofan
	 PB501154_R.eps
	Terminal block
Cat. no.	NSYCRP1W230VTVC
Power rating (W)	400/550
Voltage (V)	230 AC
Characteristics	■ Combination of a resistance heater and an axial motor to ensure uniform heating of the enclosure. ■ Fixing by clip on a DIN rail. ■ Thermostat adjustable from 0…+60 °C. ■ Visual operation indicator.

F

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.

	Mecanical thermostats		Electronical thermostats		
	 PB501172_R.eps	 PB501162_30.eps	 PB502513.eps		
	Thermostat with OF contact	**Double thermostat**	**Electronical thermostat**	**Electronic hygrotherm**	**Electronic hygrostat**
Cat. no.	**NSYCCOTHI**	**NSYCCOTHD**	**NSYCCOTH230VID**	**NSYCCOHYT230VID**	**NSYCCOHY230VID**
Colour of the button	Black	■ Red: with normally closed contact (NC) for controlling the resistance heaters. ■ Blue: with normally open contact (NO) for controlling the fans, signalling systems or alarms.	-	-	-
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 mm² terminals	Six 2.5 mm² terminals	2 x 2.5 mm² (input voltage) + 2 relays (2 x 2.5 mm² + 2 x 2.5 mm²)	2 x 2.5 mm² (input voltage) + 2 relays (2 x 2.5 mm² + 2 x 2.5 mm²)	2 x 2.5 mm² (input voltage) + 1 relay (2 x 2.5 mm²)
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	■ Ingress protection rating: IP20. ■ Contact resistance: < 10 mΩ. ■ Service life: > 100 000 cycles. ■ Fixing:by clip on a 35-mm DIN rail ■ Case : plastic UL 94 V-0, light grey. ■ Operating temperature : -20...+80 °C (-4...+176 °F). ■ Display : °C/°F. ■ Max. command intensity: (NC) 5 A (NO) 10 A.		■ Ingress protection rating: IP20. ■ Certification : UL/UR. ■ Fixing: 4 different methods: on DIN rail, Spacial SF profile, on VDI cross-rail or on mounting plate ■ Boîtier : plastique UL 94 V-0, gris clair. ■ Operating temperature : -40 °C…+80 °C. ■ Display : °C/°F. ■ Max. command intensity: 8 (5) A 230 V AC / 5 A 30 V DC.		

	PTC external temperature sensor (double insulation)
	 PB501175_R.eps
Cat. no.	**NSYCCASTE**
Characteristics	■ Sensor operation or reading range: -30 °C…+80 °C. ■ IP67. ■ 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. ■ Hygrostat installation tips: the hygrostat should be installed at the bottom of the enclosure. 60 % RH is the optimum value in the enclosure.

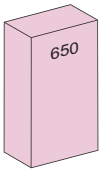
Thermal management of switchboards

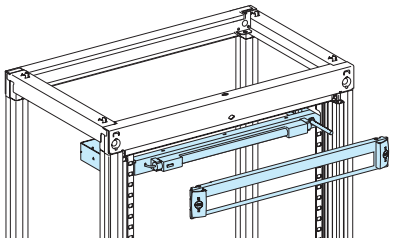
> page C-9.

Others

Lighting system

Fixed lighting

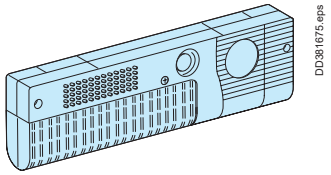




Catalogue number	**LVS08964**
Presentation	This system is generally used to illuminate the front of a switchboard. ■ The kit is made up of: □ a base □ a neon tube □ a front plate with cut-out (1 module) □ a door contact.
Characteristics	■ Supply voltage: 220/240 V ■ Power rating: 8 W ■ Height: 1 vertical module (50 mm)

Switchboard portable lamp

Switchboard portable lamp



Catalogue number	**LVS08965**
Presentation	■ Lamp with a magnetic base for installation behind a door or directly on the cubicle framework. ■ Supplied without a power cord. ■ H x W x D: 90 x 345 x 42
Characteristics	■ Supply voltage: 220/240 V ■ Power rating: 11 W ■ Lamp: picoline OSRAM 8W (supplied) ■ Class 2 ■ IP20

F

Linergy distribution systems

Contents

Power busbars

Linergy LGYE
Horizontal profiles up to 4000 A G-2

Linergy BS
Horizontal busbars up to 4000 A G-3

Linergy LGY
Lateral profiles up to 3200 A G-4

Linergy LGYE
Lateral profiles up to 4000 A G-5

Linergy BS
Lateral flat busbars up to 4000 A G-6

Linergy LGY
Rear profiles up to 1600 A G-7

Linergy BS
Rear busbars up to 1600 A G-8

Linergy BS
Rear busbars up to 630 A G-9
Multi-stage busbars up to 630 A G-10
Multi-stage distribution block up to 630 A G-11
Incomer accessories up to 630 A G-12

Linergy Busbars
Accessories G-13

Linergy BW
Insulated busbars up to 630 A G-14

Distribution blocks

Linergy DP
Quick distribution blocks - ComPacT NSX and INS-INV up to 250 A G-16
Quick distribution blocks - ComPacT NSXm up to 160 A G-17

Device feeders

Linergy FC
Feeders for ComPacT NSX and INS-INV up to 250 A G-18
Feeders for ComPacT NSXm up to 160 A G-20

Secondary distribution

Insulated flexible bars **G-22**

Distribution blocks

Linergy DX
Quick distribution blocks G-24

Device feeders

Linergy FM
Quick device feeders G-26

Distribution blocks

Linergy DS
Screw distribution blocks G-28

Device feeders

Linergy FH
Comb busbar for 27 mm pitch for C120, NG125 G-30
Comb busbar for 18 mm pitch for Acti 9 G-32
Comb busbar for 9 mm pitch for Acti 9, C60 G-33
Comb busbar for 9 mm pitch for Acti 9 G-34
Horizontal comb busbar for 18 mm pitch for Domae G-35
Horizontal biconnect comb busbar for 18 mm pitch G-36

Terminal blocks and lines

Linergy TA
Auxiliary connections G-37

Linergy TB
Earth bars G-38
PE conductor G-39

Secondary distribution

Linergy TB terminal block support **G-40**

Electrical characteristics

Designing connection ⩽ 630 A
Auxiliary connections G-41

Linergy TR
Terminal blocks G-42

G

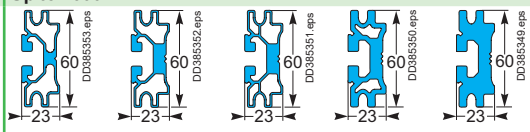
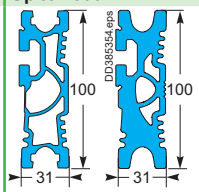
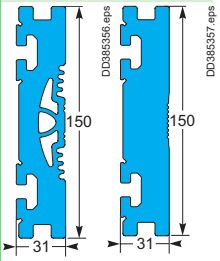
Linergy LGYE

Horizontal profiles up to 4000 A

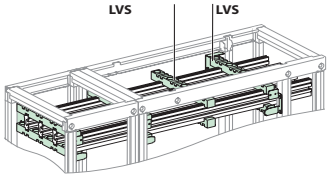
400 mm deep installation

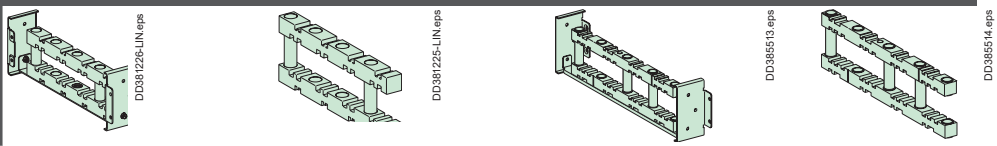
Power busbars

Linergy LGYE profiles

Installation		Up to 1600 A					Up to 2500 A		Up to 4000 A	
Linergy profiles, 2000 mm length										
		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
Number of profiles per phase		1								
Total number of vertical modules (50 mm)		3					3		4	
Catalogue numbers		**LVS04560**	**LVS04561**	**LVS04562**	**LVS04563**	**LVS04564**	**LVS04565**	**LVS04566**	**LVS04567**	**LVS04568**

Busbar supports

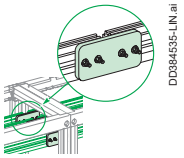
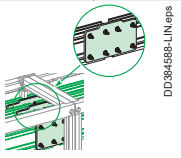
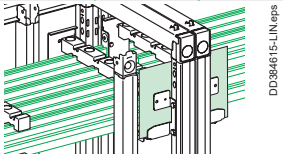




Fixed support **LVS04664** — Free support **LVS04662** — Fixed support **LVS04665** — Free support **LVS04678**

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. **Note:** in case of 600 mm depth with 115 mm between centers, replace LVS**04664** fixed support by LVS**04665** and LVS**04662** free support by LVS**04678**.							
In cubicle W = 650 or W = 650+150 busbar supports 75 mm between centres	Number of supports depending on Icw (kA rms/1 s)	⩽ 15	2							
		⩽ 25	2							
		⩽ 30	2							
		⩽ 40	-	2						
		⩽ 50	-		2					
		⩽ 60	-		2+1		2			
		⩽ 65	-			2+1				
		⩽ 75	-			2+1				
		⩽ 85	-			2+1				
		⩽ 100	-				2+2			
	Catalogue numbers	Fixed support	**LVS04664**				**LVS04664** + **LVS04671** (1) (hardware)		**LVS04664** + **LVS04646** (2) (hardware)	
		Free support	**LVS04662**				**LVS04662** + **LVS04671** (1) (hardware)		**LVS04662** + **LVS04646** (2) (hardware)	
In duct W = 300 busbar supports 75 mm between centres	Number of supports depending on Icw (kA rms/1 s)	⩽ 60	1							
		⩽ 85	1 + 1							
		⩽ 100	-				1 + 1			
	Catalogue numbers	Fixed support	**LVS04664**				**LVS04664** + **LVS04671** (1) (hardware)		**LVS04664** + **LVS04646** (2) (hardware)	
		Free support	**LVS04662**				**LVS04662** + **LVS04671** (1) (hardware)		**LVS04662** + **LVS04646** (2) (hardware)	
In duct W = 400 busbar supports 75 mm between centres	Number of supports depending on Icw (kA rms/1 s)	⩽ 50	1							
		⩽ 85	1 + 1							
		⩽ 100	-				1 + 1			
	Catalogue numbers	Fixed support	**LVS04664**				**LVS04664** + **LVS04671** (1) (hardware)		**LVS04664** + **LVS304646** (2) (hardware)	
		Free support	**LVS04662**				**LVS04662** + **LVS04671** (1) (hardware)		**LVS**04662 + **LVS04646** (2) (hardware)	

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**
	 *LVS04620*		 *LVS04623*			 *LVS04624*			
Catalogue numbers	3 x **LVS04620** (3P) 4 x **LVS04620** + **LVS04624** (4P)					3 x **LVS04621** (3P) 4 x **LVS04621** + **LVS04624** (4P)		3 x **LVS04623** (3P) 4 x **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.

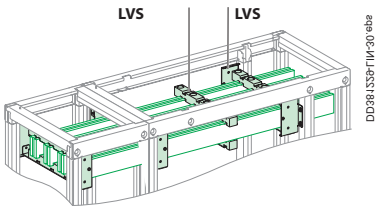
Linergy BS
Horizontal busbars up to 4000 A
400 mm deep installation

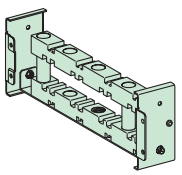
Power busbars

Flat bars

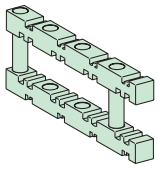
Installation		Up to 1600 A				Up to 4000 A							
Copper without holes, 2000 mm length													
Permissible current for an ambient temperature of 35 °C around the switchboard	IP ≤ 31	800 A	1000 A	1400 A	1800 A	1200 A	1400 A	1800 A	2050 A	2300 A	2820 A	3300 A	3760 A
	IP > 31	750 A	900 A	1250 A	1600 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
Catalogue numbers		**LVS04536**	**LVS04538**	**LVS04536**	**LVS04538**	**LVS04525**	**LVS04526**	**LVS04548**	**LVS04545**	**LVS04546**	**LVS04548**	**LVS04550**	**LVS04552**

Busbar supports

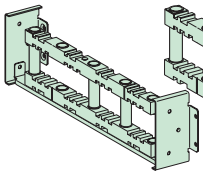




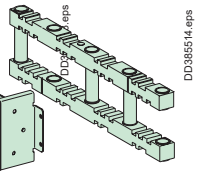
Fixed support **LVS04664**



Free support **LVS04662**



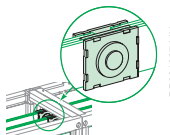
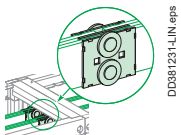
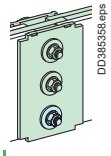
Fixed support **LVS04665**



Free support **LVS04678**

In cubicle W = 650 or W = 650+150 busbar supports 75 mm between centres	Characteristics		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. **Note:** in case of 600 mm depth with 115 mm between centers, replace **LVS04664** fixed support by **LVS04665** and **LVS04662** free support by **LVS04678**.		
	Number of supports depending on Icw (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
	Catalogue numbers Fixed support		**LVS04664**	**LVS04664**	**LVS04664** + **LVS04671** (1) (hardware)
	Catalogue numbers Free support		**LVS04662**	**LVS04662**	**LVS04662** + **LVS04671** (1) (hardware)
In duct W = 300 busbar supports 75 mm between centres	Number of supports depending on Icw (kA rms/1 s)	≤ 30	1		
		≤ 50	1 + 1	1	
		≤ 85	-	1 + 1	
	Catalogue numbers Fixed support		**LVS04664**	**LVS04664**	**LVS04664** + **LVS04671** (1) (hardware)
	Catalogue numbers Free support		**LVS04662**	**LVS04662**	**LVS04662** + **LVS04671** (1) (hardware)
In duct W = 400 busbar supports 75 mm between centres	Number of supports depending on Icw (kA rms/1 s)	≤ 25	1		
		≤ 40	1 + 1	1	
		≤ 50	1 + 1		
		≤ 85	-	1 + 1	
	Catalogue numbers Fixed support		**LVS04664**	**LVS04664**	**LVS04664** + **LVS04671** (1) (hardware)
	Catalogue numbers Free support		**LVS04662**	**LVS04662**	**LVS04662** + **LVS04671** (1) (hardware)

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*	
Catalogue numbers (1 joint per phase)	**LVS04640**	**LVS04641**	**LVS04640**	**LVS04641**	**LVS04641**	**LVS04640**	**LVS04640**	**LVS04641**	**LVS04641**	**LVS04643**
Note	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.

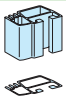
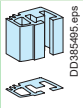
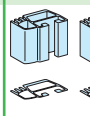
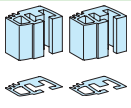
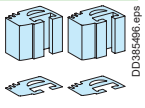
Linergy LGY

Lateral profiles up to 3200 A

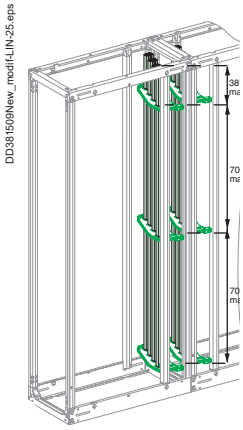
400 mm deep installation

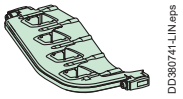
Power busbars

Linergy LGY profiles

		Up to 1600 A (simple busbars)					Up to 3200 A (double busbars)		
In duct		**W150**					**2 x W150**		
Linergy profiles, 1670 mm length		 DD381233-LIN-7.eps	 DD381234-LIN-7.eps	 DD381235-LIN-7.eps	 DD385495.eps	 DD385496.eps	 DD381235-LIN-7.eps	 DD385495.eps	 DD385496.eps
		630 A	**800 A**	**1000 A**	**1250 A**	**1600 A**	**2 x 1000 A**	**2 x 1250 A**	**2 x 1600 A**
Permissible current for an ambient temperature of 35 °C around the switchboard	IP ≤ 31	680 A	840 A	1040 A	1290 A	1650 A	2000 A	2500 A	3200 A
	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		
Catalogue numbers		**LVS04502**	**LVS04503**	**LVS04504**	**LVS04505**	**LVS04506**	**LVS04504**	**LVS04505**	**LVS04506**

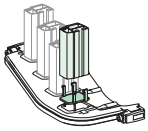
Busbar supports


DD381509New_modif-LIN-25.eps


DD380741-LIN.eps

Fixed support LVS**04651**

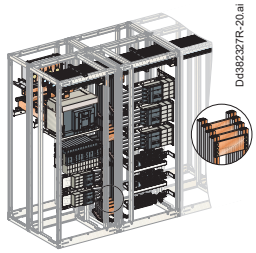
Characteristics


DD380742-LIN-12.eps

An end stop must be installed on the bottom support: LVS**01109** (set of 12).

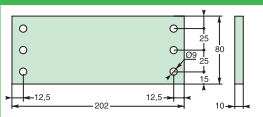
Number of supports depending on Icw (kA rms/1 s)	≤ 25	3					2 x 3
	≤ 30	-	3				2 x 3
	≤ 40	-		3			2 x 3
	≤ 50	-			4		2 x 3
	≤ 60	-			5		2 x 4
	≤ 65	-				5	2 x 4
	≤ 75	-				7	2 x 5
	≤ 85	-				8	2 x 5
Catalogue numbers	Fixed support	**LVS04651**					
	Chock	**LVS01109**					

Equipotential links


Dd382327R-20.ai

3 equipments must be installed between the busbars.

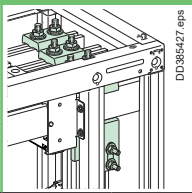
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DD382576-LIN-30.eps

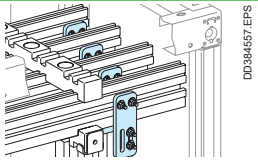
Connection made with a flat 80 x 10 mm busbar between 2 W150 ducts

Connections to the horizontal Linergy BS busbars


DD385427.eps

Characteristics			Mounting hardware supplied. Order 1 link per phase		
Cat. no. according to horizontal busbar size	Thickness 5 mm		**LVS04634** (1000 A)	**LVS04635** (1600 A)	**-**
	Thickness 10 mm	W ≤ 80 mm	**LVS04636**		2 x **LVS04636**
		W 100 mm	**LVS04636** + **LVS04642** (2)		2 x **LVS04636** + 2 x **LVS04642**
		W 120 mm	**LVS04638**		2 x **LVS04638**

Connections to the horizontal Linergy LGYE busbars


DD384557.EPS

≤ 1600 A

Characteristics	Supplied with mounting hardware. Catalogue numbers include 1 connection only: 1 connection per phase.
Cat. no. according to horizontal busbar size	**LVS04602** (vertical connection) **LVS04603** (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.

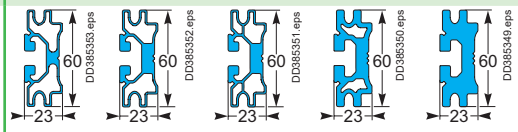
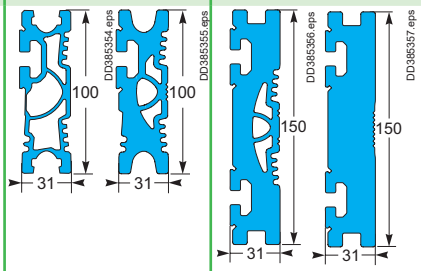
Linergy LGYE

Lateral profiles up to 4000 A

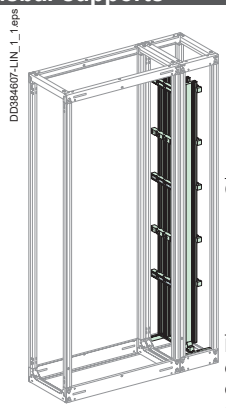
400 mm deep installation

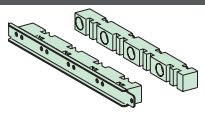
Power busbars

Linergy LGYE profiles

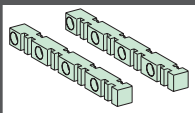
		Linergy profile, 2000 mm length (1)					Linergy profile, 1625 mm length			
In duct		**W150**					**W150**		**W300**	
Linergy profile										
		630 A	**800 A**	**1000 A**	**1250 A**	**1600 A**	**2000 A**	**2500 A**	**3200 A**	**4000 A**
Permissible current for an ambient temperature of 35 °C around 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								
Catalogue numbers		**LVS04560**	**LVS04561**	**LVS04562**	**LVS04563**	**LVS04564**	**LVS04507**	**LVS04508**	**LVS04509**	**LVS04510**

Busbar supports

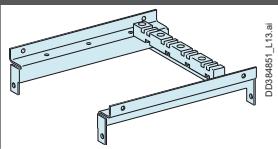




Fixed support **LVS04661**



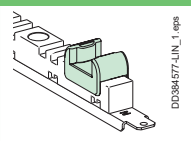
Free support **LVS04662**



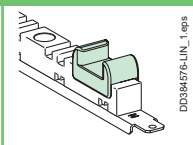
Bottom support **LVS04666**

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. **Note:** in case of 600 mm depth with 115 mm between centers, replace **LVS04661** fixed support by **LVS04668**, free support **LVS04662** by **LVS04678** and bottom support **LVS04663** or **LVS04666** by **LVS04673**.								
Number depending on Icw (kA rms/1 s)	≤ 30	3								
	≤ 40	-		3+2			3			
	≤ 50	-			3+2		3			
	≤ 60	-			3+2				3	
	≤ 65	-				3+2				
	≤ 75	-				3+4			3+2	
	≤ 85	-				3+4				
	≤ 100	-						3+6		
In duct W150, W = 300 busbar supports 75 mm between centres	**Catalogue 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 **LVS04658**



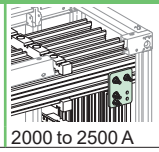
Chocks installed on a bottom support **LVS04659**

Characteristics		The bottom support maintains the sections in position. It is not considered a busbar support.		
In duct W150, W = 300	**Catalogue numbers** Bottom support	**LVS04663**		**LVS04666** + **LVS04661**
	Chocks	**LVS04658**	**LVS04659**	

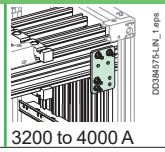
Connections to the horizontal Linergy LGYE busbars



630 to 1600 A



2000 to 2500 A



3200 to 4000 A

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

(1) Linergy 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

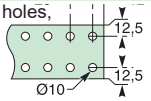
Linergy BS

Lateral flat busbars up to 4000 A

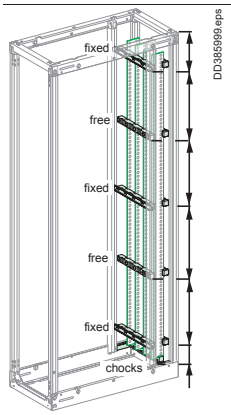
400 mm deep installation

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		2		1			2					
Catalogue 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: 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.
Note: In case of 600 mm depth with 115 mm between centers, replace **LVS**04661 fixed support by **LVS04668** and **LVS04662** free support by **LVS04678** and **LVS04663** or **LVS04666** bottom support by **LVS04673**.

| Number of supports depending on Icw (kA rms/1 s) | | | | | | | | | | | |

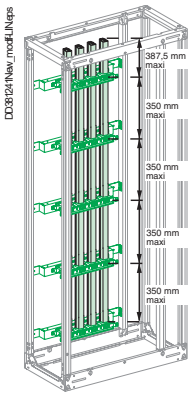
Linergy LGY
Rear profiles up to 1600 A

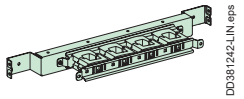
Power busbars

Linergy LGY profiles

		Up to 1600 A				
At the rear of the cubicle		**W650**				
Linergy profile, 1670 mm length		 DD381233-LIN-7.eps	 DD381234-LIN-7.eps	 DD381235-LIN-7.eps	 DD385495.eps	 DD385496.eps
		630 A	**800 A**	**1000 A**	**1250 A**	**1600 A**
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				
Catalogue numbers		**LVS04502**	**LVS04503**	**LVS04504**	**LVS04505**	**LVS04506**

Busbar supports

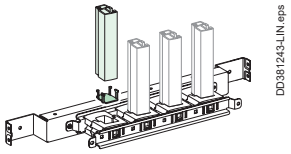



DD381242-LIN.eps

Fixed support **LVS04652**

Number of supports depending on Icw (kA rms/1 s)	⩽ 25	3			
	⩽ 30	-	4		
	⩽ 40	-		5	
	⩽ 50	-			7

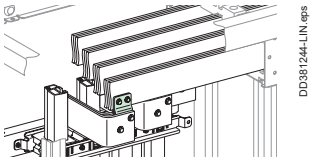
Characteristics


DD381243-LIN.eps

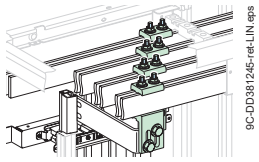
Stop to be installed on the bottom support. **LVS01109** (set of 12).

Catalogue numbers	Fixed support	**LVS04652**
	Chock	**LVS01109**

Connections to the horizontal Linergy BS flat busbars


DD381244-LIN.eps

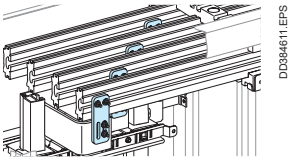
Connection **LVS04635** to horizontal busbars
5 mm thick.


9C-DD381245-ret-LIN.eps

Connection **LVS04636** to horizontal busbars
10 mm thick.

Characteristics			Mounting hardware supplied, order 1 connection per phase. For part of the connection, flexible insulated busbars are needed.
Cat. no. according to horizontal busbar size	Thickness 5 mm		**LVS04635**
	Thickness 10 mm	W ⩽ 80 mm	**LVS04636**
		W > 80 mm	**LVS04636 + LVS04642**

Connections to the horizontal Linergy LGYE flat busbars


DD384611.EPS

Connection **LVS04602** to horizontal Linergy LGYE busbars
5 mm thick.

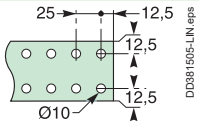
Characteristics	Mounting hardware supplied, order 1 connection per phase. For part of the connection, flexible insulated busbars are needed.
Catalogue numbers	**LVS04602**

G

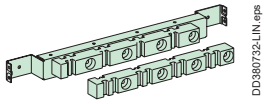
Linergy BS
Rear busbars up to 1600 A

Power busbars

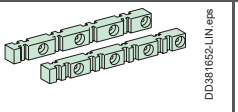
Flat bars

			Up to 1600 A					
At the rear of the cubicle			L650					
Copper with holes, 1670 mm length								
			800 A	**1000 A**	**1400 A**	**1800 A**	**1000 A**	**1200 A**	**1600 A**
Permissible current for an ambient temperature of 35 °C around the switchboard	IP ≤ 31		800 A	1000 A	1400 A	1800 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		
Catalogue numbers			**LVS04516**	**LVS04518**	**LVS04516**	**LVS04518**	**LVS04525**	**LVS04526**	**LVS04528**

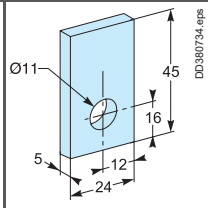
Busbar supports



Fixed busbar supports **LVS04653**

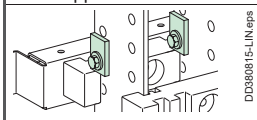
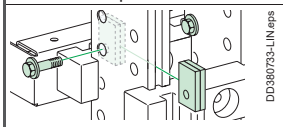


Free busbar supports **LVS04662**



Mounting chocks **LVS04669**

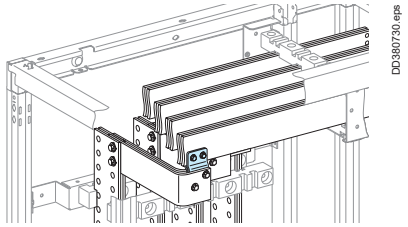


Characteristics		Three fixed supports cat. no. LVS04653 are required to maintain the busbars. If more than three supports are required, use additional free supports cat. no. **LVS**04662. A metal mounting chock, cat. no. LVS04669 (set of 100) 5 mm thick, is screwed to the bar. It rests on a fixed support and maintains the position of the bar.
		 Chock: 1 bar/phase
		 Chock: 2 bars/phase

Number of supports depending on Icw (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	-		-	

Catalogue numbers	**LVS04653** (fixed) + **LVS04662** (free) + **LVS04669** (chock)

Connections to the horizontal Linergy BS flat busbars



Connection **LVS04636** to horizontal busbars. Thickness 5 mm

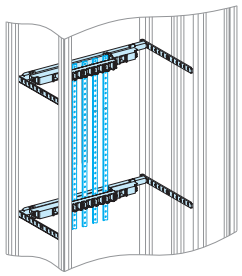
Connection **LVS04636** to horizontal busbars Thickness 10 mm

Characteristics			For part of the connection, flexible insulated busbars are needed. Catalogue 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.
Cat. no. according to horizontal busbar size	Thickness 5 mm		**LVS04635**
	Thickness 10 mm	W ≤ 80 mm	**LVS04636** (1)
		W > 80 mm	**LVS04636** + **LVS04642** (1)

(1) To be made.

Linergy BS
Rear busbars up to 630 A

Power busbars

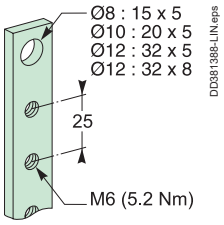


IEC 61439-1 & 2

Description

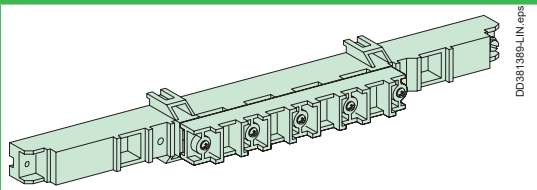
The busbar can be 3-pole or 4-pole with ratings between 160 A and 630 A.
2 lengths are available: 1000 and 1400 mm, which can be cut as required.
The number of supports depends on the installation maximum rated current.
The insulating supports can receive a fifth bar, 15 x 5 mm or 20 x 5 mm, to create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

160 to 400 A copper busbars



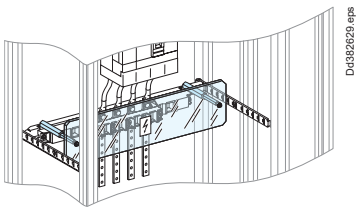
		160 A	250 A	400 A	630 A
Rated peak withstand current	(Ipk)	30 kÂ	40 kÂ	55 kÂ	77 kÂ
Rated insulation voltage	(Ui)	1000 V AC	1000 V AC	1000 V AC	1000 VAC
Rated short-time current	(Icc)	150 kA	150 kA	150 kA	150 kA
Thermal stress	(I²t)	1.000 x 10^8	1.690 x 10^8	6.250 x 10^8	1.225 x 10^8
Conductor cross-section		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 mm² flexible cables with crimped lugs			
Set of		4			
Length (mm)		**1000** / **1400**	**1000** / **1400**	**1000** / **1400**	**1400**
Catalogue numbers		**LVS04161** / **LVS04171**	**LVS04162** / **LVS04172**	**LVS04163** / **LVS04173**	**LVS04174**

Insulating busbar support



Distance between supports depending on Icw/Ipk (1)	≤ 10 kA eff / 1 s	450 mm	450 mm	450 mm	450 mm
	≤ 13 kA eff / 1 s	-	450 mm	450 mm	450 mm
	≤ 15 kA eff / 1 s	-	450 mm	450 mm	450 mm
	≤ 20 kA eff / 1 s	-	-	300 mm	300 mm
	≤ 25 kA eff / 1 s	-	-	225 mm	225 mm
	≤ 30 kA eff / 1 s	-	-	-	225 mm
	≤ 35 kA eff / 1 s	-	-	-	175 mm
Installation		On the rear uprights Screwed onto a solid or pre-slotted plate (fixing centres 450 x 200 mm)			
Catalogue numbers		**LVS04191**	**LVS04191**	**LVS04191**	**LGY4193**

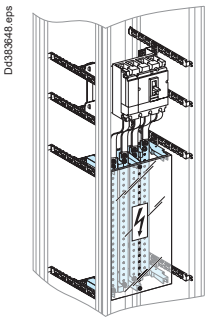
IPxxB insulating protective shield



Length	470 mm
Height	100 mm
Composition	Supplied with fixings.
Catalogue numbers	**LVS04198**

Note: electrical characteristics > *page G-41*.
(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. LVS0**4191** at the top and bottom.

Linergy BS
Multi-stage busbars up to 630 A

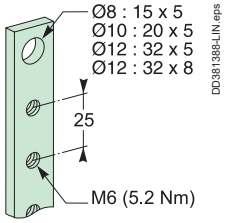


IEC 61439-1 & 2

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.

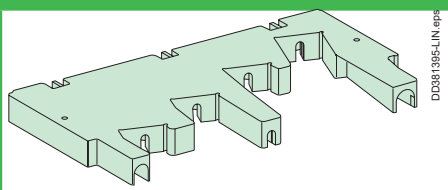
160 to 630 A copper busbars



		160 A	250 A	400 A	630 A
Rated peak withstand current	(Ipk)	30 kÂ	40 kÂ	55 kÂ	55 kÂ
Rated insulation voltage	(Ui)	750 V AC	750 V AC	750 V AC	750 V AC
Rated short-time current	(Icc)	150 kA	150 kA	150 kA	150 kA
Thermal stress	(I^2.t)	1.000 x 10^8	1.690 x 10^8	4.000 x 10^8	6.250 x 10^8
Supply at incoming terminals		Connection by: 16 to 50 mm^2 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			

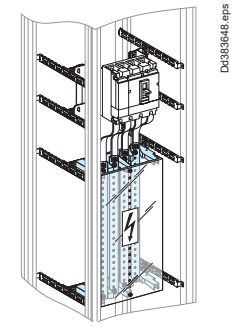
Width (mm)	**1000**	**1400**	**1000**	**1400**	**1000**	**1400**	**1000**	**1400**
Catalogue numbers	**LVS04161**	**LVS04171**	**LVS04162**	**LVS04172**	**LVS04163**	**LVS04173**	To be made	**LVS04174**

Insulating busbar support



Distance between supports depending on Icw/Ipk	⩽ 10 kA rms/ 1 s / 30 kÂ	450 mm	450 mm	450 mm	450 mm
	⩽ 13 kA rms/ 1 s / 40 kÂ	-	450 mm	450 mm	450 mm
	⩽ 15 kA rms/ 1 s / 40 kÂ	-		450 mm	450 mm
	⩽ 20 kA rms/ 1 s / 45 kÂ	-	-	300 mm	300 mm
	⩽ 25 kA rms/ 0.6 s / 55 kÂ	-	-	300 mm	-
	⩽ 25 kA rms/ 1 s / 55 kÂ	-	-	-	300 mm
Installation		Installation on functional uprights of duct (PrismaSeT). Screwed onto a solid or pre-slotted plate (450 x 200 mm fixing centres)			
Catalogue numbers		**LVS04192**	**LVS04192**	**LVS04192**	**LVS04192**

IPxxB insulating protective shield

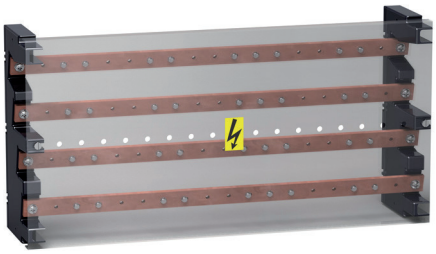


Width	250 mm
Height	1500 mm
Composition	Fixing accessories supplied with support cat. no. **LVS04192.**
Catalogue numbers	**LVS04197**

Note: electrical characteristics *> page G-41.*

Linergy BS
Multi-stage distribution block up to 630 A

PB502514_60.eps

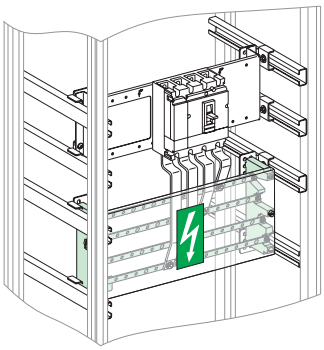


IEC 61439-1 & 2

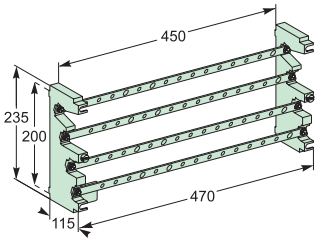
Description

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



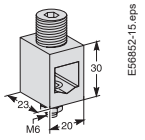
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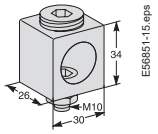
		160 A	250 A	400 A	630 A
Rated peak withstand current	(Ipk)	30 kÂ	40 kÂ	55 kÂ	55 kÂ
Rated insulation voltage	(Ui)	750 V AC			
Rated operational voltage	(Ue)	440 V AC			
Rated impulse withstand voltage	(Uimp)	8 kV			
Rated short-time current	(Icc)	150 kA	150 kA	150 kA	150 kA
Thermal stress	(I²t)	1.000 x 10^8	1.690 x 10^8	4.000 x 10^8	6.250 x 10^8
Total connection capacity		4 incomers per phase: Ø12.2 mm clearance holes 13 outgoers per phase 16 to 50 mm²: M6 tapped holes			
Busbar cross-section		15 x 5 mm	20 x 5 mm	32 x 5 mm	32 x 8 mm
Dimensions (mm)					
Installation		Screwed onto a solid or pre-slotted plate (fixing centres 450 x 200 mm) Screwed to an adapter cat. no. **LVS03595**.			
Composition		2 multi-stage supports made of an insulating material 4 slanted copper busbars, with holes every 25 mm 1 pack of 36 M6 x 16 screws + contact washers 1 IPxxB front insulating shield			
Catalogue numbers		**LVS04052**	**LVS04053**	**LVS04054**	**LVS04055**

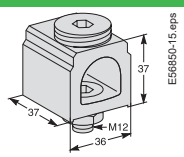
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Incomer accessories

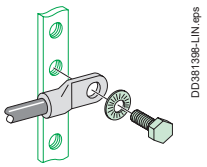






	Connectors for copper or aluminium cables		
Rated operational current at 40 °C (Ie)	160 A	250 A	400 A
Supply at incoming terminals	70 mm² Cables	16 - 185 mm² Cables	70 - 300 mm² Cables
Composition	Supplied with fixings at busbar end.		
Set of	4		
Catalogue numbers	**LVS07051**	**LVS07052**	**LVS07053**

Outgoer accessories

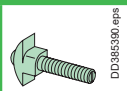
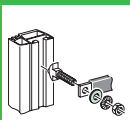
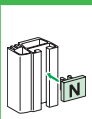
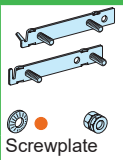
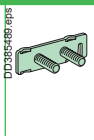
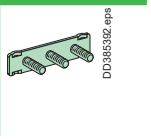


	Class 8.8 fixing accessories	
Composition	20 M6 x 20 screws + 20 nuts + 40 contact washers	40 M6 x 16 screws + 40 contact washers
Catalogue numbers	**LVS04194**	**LVS04195**

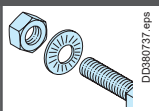
Note: electrical characteristics *> page G-41*.

Linergy Busbars
Accessories

Accessories

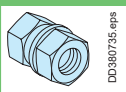
	 Linergy connection hardware		 Steel flat washers			 Brass flat washers	Markers	 Screwplate		
Cat. no.	**LVS04766**	**LVS04767**	**LVS04772**	**LVS04773**	**LVS04774**	**LVS04775**	**LVS04794**	**LVS01130**	**LVS04768**	**LVS04769**
Characteristics	L 25 mm	L 39 mm	20 mm ext. Ø	24 mm ext. Ø	28 mm ext. 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 mm² 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



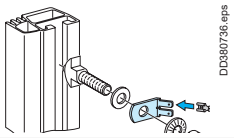
Linergy BS, 20 bolts class 8.8	Characteristics		Set of 20 bolts + 20 nuts + 40 contact washers.
	Catalogue numbers	M8 x 20	**LVS04782**
		M8 x 25	**LVS04783**
		M8 x 30	**LVS04784**
		M8 x 35	**LVS04785**
		M8 x 40	**LVS04786**
		M8 x 45	**LVS04787**
		M8 x 50	**LVS04788**

Torque nuts



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.
	Catalogue numbers	**LVS04759**

Voltage tap-offs



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.
	Catalogue numbers	**LVS04229**

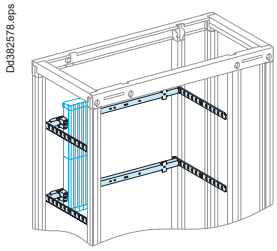
Connections on Linergy LGYE & LGY

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 BW
Insulated busbars up to 630 A

Power busbars



Description

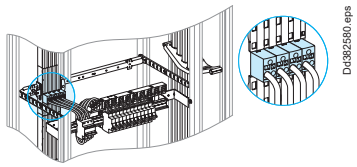
- ComPacT busbar, **IPxxB**, ready for installation (supplied complete with supports and end caps)
- Shaped busbar, threaded M6 with 25-mm pitch, can be cut with 200-mm pitch (150 mm for the 125 A)
- Busbar installed on insulating supports, screwed onto the rear uprights
- Wide selection of tested pre-wired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

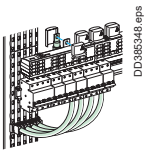
Linergy BW (160 to 630 A) is fully compatible with seismic constraints. Just add a seismic kit (**LVS04130**) to Linergy BW 160/250/400.

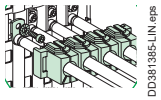
Linergy BW busbars

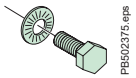
		125 A (1)		160 A		250 A		400 A		630 A	
Rated peak withstand current	(Ipk)	20 kÂ		30 kÂ		30 kÂ		52.5 kÂ		52.5 kÂ	
Rated insulation voltage	(Ui)	500 V AC		750 V AC		750 V AC		750 V AC		1000 V AC	
Rated impulse withstand voltage	(Uimp)	8 kV		8 kV		8 kV		8 kV		8 kV	
Rated short-time current	(Icc)	50 kA		150 kA		150 kA		150 kA		150 kA	
Thermal stress	(I^2.t)	7.225×10^7		1.000×10^8		1.690×10^8		4.000×10^8		6.250×10^8	
Width (mm)		**450**	**750**	**1000**	**1400**	**1000**	**1400**	**1000**	**1400**	**1000**	**1400**
Catalogue numbers	**3P**	**LVS04103**	**LVS04107**	**LVS04111**	**LVS04116**	**LVS04112**	**LVS04117**	**LVS04113**	**LVS04118**	**LVS04114**	**LVS04119**
	4P	**LVS04104**	**LVS04108**	**LVS04121**	**LVS04126**	**LVS04122**	**LVS04127**	**LVS04123**	**LVS04128**	**LVS04124**	**LVS04129**

Accessories



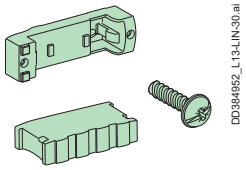




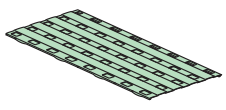


	IPxxB tap-off terminals		**200 A connections**	**IPxxB insulating covers**	**Class 8.8 fixing accessories**
	12 terminals For 6 mm² (32 A max.) and 10 mm² cable (40 A max.) Ui: 750 V In: 55 A max.(2)	12 terminals For one 1 to 16 mm² cable Ui: 750 V In: 55 A max. with one cable		Covers which can be clipped on and cut to size are used to isolate the connectors of a connection with cables of cross-section 10 to 25 mm².	M6 x 12 + 20 M6 contact washers.
Used for connecting	■ All switchgear equipped with enclosed terminals ■ Linergy FM 160/200 A	■ All switchgear equipped with enclosed terminals ■ Linergy FM 63/80/160/200 A	■ Linergy FM 200 A		
Set of	12	12	4	8	20
Cat. no.	**LVS04151**	**LVS04152**	**LVS04021**	**LVS04150**	**LVS04158**

Spare parts



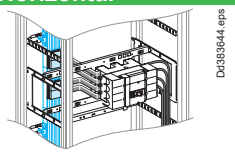
		Busbar supports Linergy BW				
Rated operational current at 40 °C	(Ie)	125 A	160 A	250 A	400 A	630 A
Composition		2 busbar supports + 2 end caps + packet of fixing accessories.				
Catalogue numbers		-	**LVS01210**	**LVS01210**	**LVS01210**	**LVS01211**



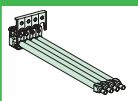
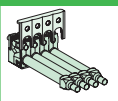
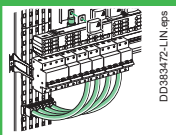
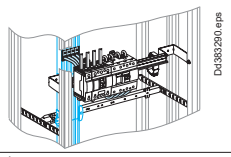
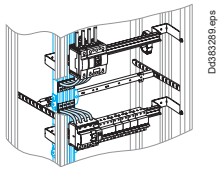
	IPxxB clip-on covers				
Width (mm)	200				
Set of	2				
Catalogue numbers	-	**LVS01201**	**LVS01201**	**LVS01201**	**LVS01201**

Note: electrical characteristics *> page G-41*.
(1) Not compatible with seismic kit *> page C-17*,"Seismic Kit", page F-20
(2) Imax = 55 A for connected cables.

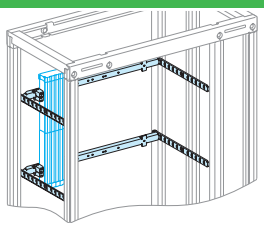
Linergy BW
Insulated busbars up to 630 A

Mounting	Vertical					Horizontal		
								
	Universal power supply units without connection		Connections for universal power supply block			Universal power supply units with connections		
Devices	**Fixed** ■ NSX100/250 horizontal rotary handle or motor mechanism ■ Fupact GS100/160 vertical, Fupact ISFT100/250	**Fixed** ■ NSX400/630 with or without Vigi in cubicle ■ INS-INV320/630	**Fixed** ■ NSX100/250 toggle in cubicle ■ INS-INV250 vertical	**Fixed** ■ NSX100/250 with or without Vigi in duct ■ INS-INV250 vertical in duct	**Fixed** ■ NSX400/630 with or without Vigi in duct ■ INS-INV320/630 in duct	**Fixed** ■ NSX100/250 horizontal with or without Vigi ■ INS-INV250 horizontal	**Fixed** ■ NSX400 horizontal ■ INS-INV320/400 horizontal	**Fixed** ■ NSX630 horizontal ■ INS-INV500/630 horizontal
Cat. no.	**LVS04061**	**LVS04074**	**LVS04062**	**LVS04064**	**LVS04073**	**LVS04060**	**LVS04070**	**LVS04071**
Devices	**Plug-in base** ■ NSX100/250 horizontal rotary handle or motor mechanism ■ Fupact GS100/160 vertical, Fupact ISFT100/250	**Plug-in base** ■ NSX400/630 with or without Vigi in cubicle ■ INS-INV320/630	To be made Insulated flexible bars			**Plug-in base** ■ NSX100/250 horizontal rotary handle or motor mechanism in cubicle ■ Fupact GS100/160 vertical, Fupact ISFT100/250	**Plug-in base** ■ NSX400/630 with or without Vigi in cubicle ■ INS-INV320/630 in cubicle	Insulated flexible bars To be made
Cat. no.	**LVS04061**	**LVS04074**	*> page G-22*			**LVS04061**	**LVS04074**	*> page G-22*
Devices	**Withdrawable** ■ NSX100/250 horizontal rotary handle or motor mechanism in cubicle ■ Fupact GS100/160 vertical, Fupact ISFT100/250	**Withdrawable** ■ NSX400/630 with or without Vigi in cubicle ■ INS-INV320/630 in cubicle	To be made Insulated flexible bars			**Withdrawable** ■ NSX100/250 horizontal rotary handle or motor mechanism in cubicle ■ Fupact GS100/160 vertical, Fupact ISFT100/250	**Withdrawable** ■ NSX400/630 with or without Vigi in cubicle ■ INS-INV320/630 in cubicle	Insulated flexible bars To be made
Cat. no.	**LVS04061**	**LVS04074**	*> page G-22*			**LVS04061**	**LVS04074**	*> page G-22*

Prefabricated connections

					
	Connections		**IPxxB 3/4P monobloc conn.**	**IPxxB 3/4P monobloc conn.**	**Connections**
	35 mm² ferrule + 45° angled	45 mm² ferrule + connectors	Quick connection on the busbar equipped with a male ferrule for enclosed terminals. Neutral identified by the colour blue.		-
Rated operational (Ie) current at 40 °C	125 A	160 A	160 A	160 A	200 A
Width	230 mm	250 mm	440 mm	150 mm	-
Used for connecting	■ NG125, INS-INV with enclosed terminals cat. no. **28947** or **28948**	■ INS-INV160, NG125, NG160	■ NG160 (located on left-hand side), Vigi NG160 (located in the middle), ■ NG125, INS-INV160, C120, iC120 	■ NG160 (located on left-hand side), NG125, INS160, C120, iC120 	■ Linergy FM 200 A
Set of	4	4	1	1	4
Catalogue numbers	**LVS04145**	**LVS04146**	**LVS04148**	**LVS04147**	**LVS04021**

Adaptation



Characteristics	PrismaSeT G adapter W = 500 mm
Catalogue numbers	2 x **LVS03595**

Seismic kit for Linergy BW 160 up to 400 A (1)

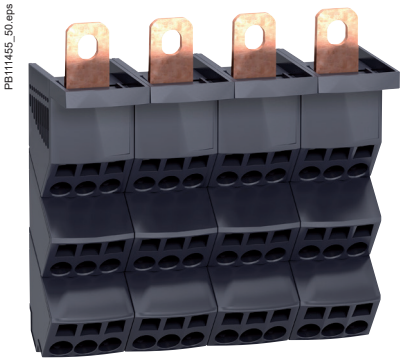


	Use the seismic kit **LVS04130** when using Linergy BW
Catalogue numbers	**LVS04130**

Note: electrical characteristics *> page G-41*.
Note: the adapter **LVS03595** can be used for all mounting plates, except **LVS3030**.
(1) Not compatible with Linergy BW 125 A.

Linergy DP

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



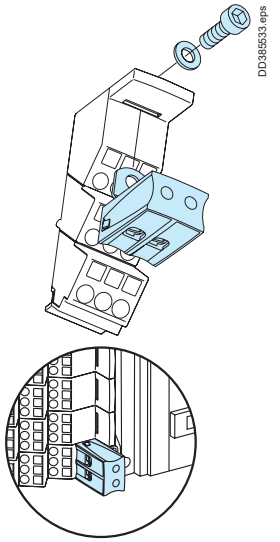
IEC 60947-7-1, IEC 61439-1 and 2

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

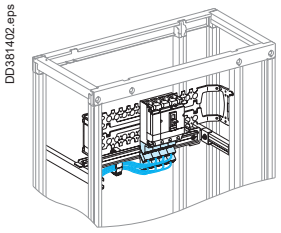
- It is quick to mount in the horizontal position. Electrical connections are made directly to the device terminals.
- It is the same width as the devices and does not take up any additional space in the switchboard.
- The connection terminals are slanted to facilitate cable entry and avoid exceeding the bending radius of the flexible and rigid cables.

Quick distribution blocks for ComPacT devices				Additional block	
Number of poles		**3P**	**4P**	**3P/4P**	
		 PB111454-15-r.eps	 PB111455-15-r.eps	 PB502519-11_r.eps	 DD385533.eps
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	($I^2.t$)	7.225 x 10^7	7.225 x 10^7		
Total connection capacity, outgoing terminals		27 connections: 6 x 10^2/phase 3 x 16^2/phase	36 connections: 6 x 10^2/phase 3 x 16^2/phase	2 connections: 2 x 35^2/pole	
Incomer terminals		1 cable lug 120 mm² per pole			
Dimensions (H x W x D)		105 x 138 x 63	140 x 138 x 64		
Installation		On mounting plate or DIN rail		On mounting plate	
Product certifications		ASEFA			
Standard for installation inside PrismaSeT		IEC 61439-1-2			
Glow-wire 60695-2-11		960 °C			
Catalogue numbers		**LVS04033**	**LVS04034**	**LVS04155 (3P)** **LVS04156 (4P)**	

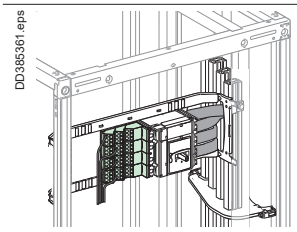
Technical Data

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

Installation



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.



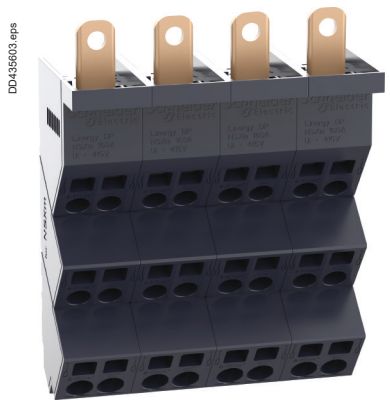
Directly on the mounting plates of horizontally mounted **ComPacT NSX100/250 and ComPacT INS-INV250** devices in the enclosures.

For details on mounting plates, refer *pages E-20, E-21, E-22, E-23,* and *E-24*.

Note: Electrical characteristics *> page G-41*.

Linergy DP

Quick distribution blocks - ComPacT NSXm up to 160 A



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.

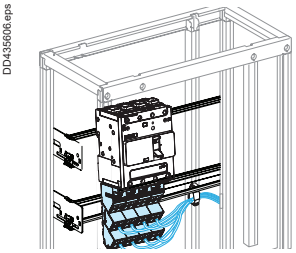
Quick distribution blocks for ComPacT devices

Number of poles		3P	4P
		 DD435604.eps	 DD435605.eps
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	(I^2t)	4.7 x 10^6 A^2S	4.7 x 10^6 A^2S
Total connection capacity, outgoing terminals		18 connections: 4 x 10^2/phase 2 x 16^2/phase	24 connections: 4 x 10^2/phase 2 x 16^2/phase
Incomer terminals		1 cable lug 70 mm^2 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**

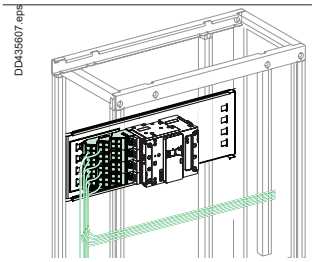
Technical Data

Common characteristics		
Rated conditional short-circuit current of an assembly	(Isc)	The reinforced breaking capacity due to cascading in circuit-breaker combinations is maintained. The worst-case situations have been tested.
Rated insulation voltage	(Ui)	800 V AC
Rated operational voltage	(Ue)	690 V AC
Rated impulse withstand voltage	(Uimp)	8 kV
Network frequency		50/60 Hz
Degree of protection		IPxxB
Degree of pollution		3
Overvoltage category		III
Additional technical characteristics		
Reference temperature		40 °C
Operating temperature		-25 °C to 55 °C

Installation



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.



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-41*.

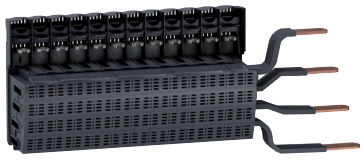
Linergy FC

Feeders for ComPacT NSX and INS-INV up to 250 A

PB502507-48_r.eps



PB502363-48_r.eps

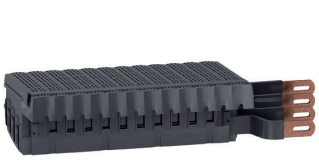


IEC 61439-1 and 2

Description

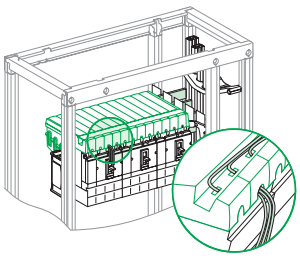
Linergy FC is an insulated horizontal distribution block. It connects directly to the mounting plate and can supply:

- 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, fixed, ComPacT NSX100/250 - All controls, withdrawable**		**ComPacT NSX100/250 & INS-INV250 - All controls, fixed and withdrawable**	
	PB502507-48_r.eps 		DD435608.eps 		PB502508-32_r.eps 	
	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.					
Mounting plates						
Toggle, Fixed, NSX100/250	**LVS03420**	**LVS03420**	**-**	**-**	**LVS03420**	**LVS03420**
Toggle, Plug-in, NSX100/250	**-**	**-**	**LVS03423**	**LVS03423**	**LVS03423**	**LVS03423**
Rotary handle, motor mechanism, Fixed, NSX100/250	**-**	**-**	**LVS03422**	**LVS03422**	**LVS03422**	**LVS03422**
Cat. no.	**LVS04403**	**LVS04404**	**LVS04405**	**LVS04406**	**LVS04407 (2)**	**LVS04408 (2)**

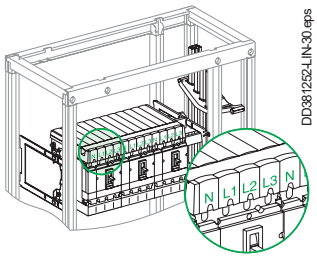
Implementation

DD381251-LIN-30.eps



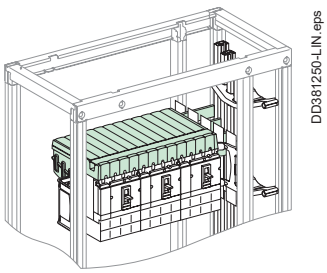
Auxiliary wires running in the built-in trunking.

DD381252-LIN-30.eps



Phase marking on the front of the distribution block.

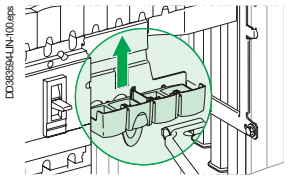
DD381250-LIN.eps



(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

Accessories





Tooth caps

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

Catalogue numbers	LVS04809

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	(I^2t)	2.500×10^7
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

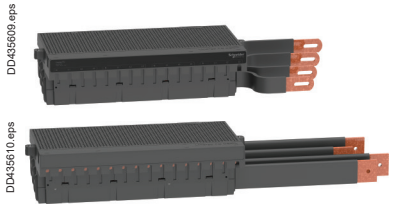
For most installations, the temperature around the switchboard is 40 °C, corresponding to an average temperature of 60 °C inside the switchboard.
Under certain conditions, the temperature inside the switchboard may be different.

(A) Rated operational current as a function of the temperature inside the switchboard								
Temperature (°C)		40	45	50	55	60	65	70
I_{nc} (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

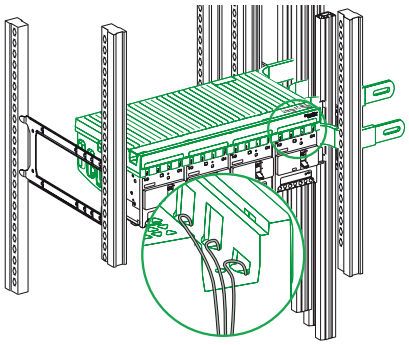
Description

Linergy FC is an insulated horizontal distribution block. It connects directly to the mounting plate and can supply:

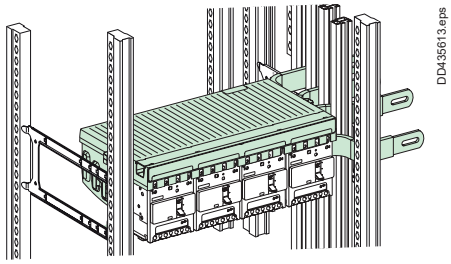
- Four 4P and five 3P ComPacT NSXm circuit breakers (four 3P and 4P for ComPacT NSXm Vigi), whatever the ratings (63, 100 or 160 A) with toggle and direct rotary handle operating mechanism.
- The design and small size blend thoroughly with the devices.
- It can be supplied by Linergy BS, Linergy LGYE 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)			
	 DD435609.eps		 DD435610.eps		 DD435611.eps	
	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** **LVS04416** (3)	**LVS04411**	**LVS04412** **LVS04417** (3)	**LVS04413**	**LVS04419** (3) **LVS04418** (3) (4)	**LVS04420** (3)

Implementation



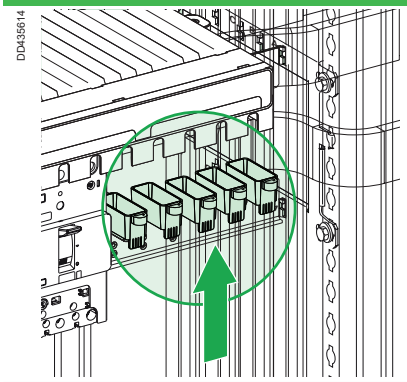
Auxiliary wires running in the built-in trunking.

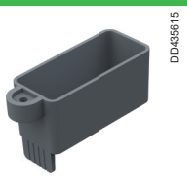


(1) The connection of a Linergy FC distribution block using pre-wired connectors or insulated flexible bars is not compatible with Form 2 partitioning (**LVS04924**). In this case, use the form 2 restoration kit (**LVS04924**).
(2) Linergy FC configuration having NSXm with Vigi can mount four devices 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

Accessories





Tooth caps

The caps block off the reserve terminals on a Linergy FC distribution block.
Made of an insulating material, they simply clip on 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	(I^2t)	$4.5 \times 10^6 A^2S$
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.

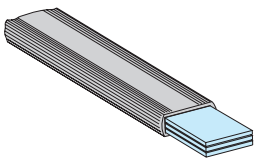
Linergy FC selection table for special cases

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



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

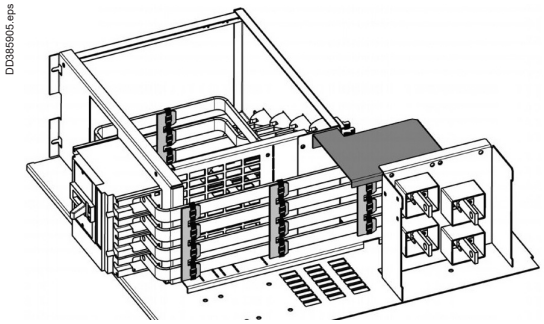
Length	1800 mm
Rated insulation voltage (Ui)	1000 V
Maximum withstand temperature for the insulating material	125 °C

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.

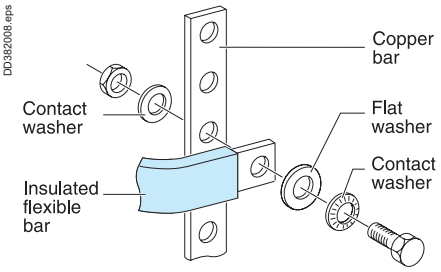
Devices	Size (mm)	Catalogue number
NSX100	20 x 2	**LVS04742**
NSX160/250	20 x 3 (1)	**LVS04743**
NSX400	32 x 5	**LVS04751**
NSX630	32 x 8 (2)	**LVS04753**
NSX100 ELCB	20 x 2	**LVS04742**
NSX160/250 ELCB	20 x 3 (1)	**LVS04743**
NSX400 ELCB	32 x 5	**LVS04751**
NSX630 ELCB	32 x 8 (2)	**LVS04753**
INS-INV125/160	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**
Easypact CVS100	20 x 2	**LVS04742**
Easypact CVS160/250	20 x 3 (1)	**LVS04743**
Easypact CVS400	32 x 5	**LVS04751**
Easypact CVS630	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*.



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.

Ie (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-22.

G

Linergy DX
Quick distribution blocks

PB104499-7.eps



PB111415-19_r.eps



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
		 PB104500-6.eps	 PB104499-6.eps
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	($I^2.t$)	9.03×10^6	9.03×10^6
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
Catalogue numbers		**LVS04040**	**LVS04041**

Accessories

Catalogue numbers		-	-

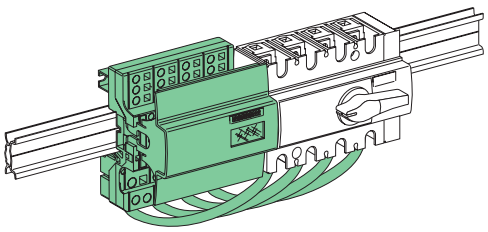
Linergy DX
Quick distribution blocks

Advantages

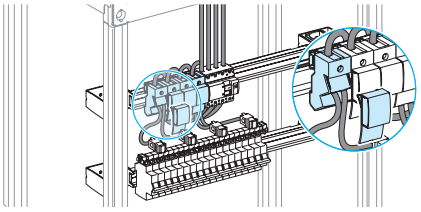
- A reliable electrical connection, no maintenance required (tightness guaranteed over time).
- Quick connection.
- Easy phase balancing.
- Ease of rewiring if the switchboard is expanded or modified.

	4P		1P
	 PB111415-19_r.eps	 DD386251.eps	 PB111453-8-r.eps
	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 10^7	2.025 x 10^7	3.025 x 10^7
	50/60 Hz	50/60 Hz	50/60 Hz
	IPxxB	IPxxB	IPxxB
	1 tunnel terminal 35²/phase	Supplied with a prefabricated flexible connection equipped with tunnel terminals (for INS-INV100/160 use adaptator **28947** (3P) **28948** (4P)	1 tunnel terminal 70²/phase
	52 connections: 7 x 4²/phase 3 x 6²/phase 2 x 10²/phase 1 x 16²/phase (screw terminal)	52 connections: 7 x 4²/phase 3 x 6²/phase 2 x 10²/phase 1 x 16²/phase (screw terminal)	6 connections: 6 x 16²/phase
	127 x 108 x 48 12 x 9 mm pitch	127 x 108 x 48 12 x 9 mm pitch	95 x 36 x 70 4 x 9 mm pitch
	Screwed to plain or slotted backplate or onto DIN rail	Screwed to plain or slotted backplate or onto DIN rail	Onto DIN rail
	Possible to combine 2 terminal blocks (2nd terminal block supplied from enclosed terminals in the 1st, Imax of 2nd terminal block: 80 A)		
	IEC 61439-2	IEC 61439-2	IEC 61439-2
	960 °C	960 °C	960 °C
	3	3	3
	LVS04045	**LVS04046** (1)	**LVS04031**
	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 mm² end fittings for tunnel terminals.
	LVS04047 (1)	-	**LVS04149**

PB502270-55.eps

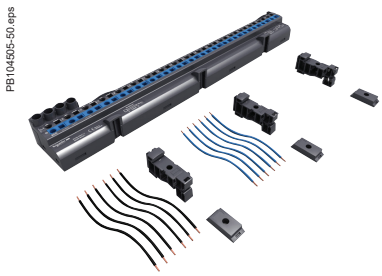


Dd383654.eps



Note: electrical characteristics > *page G-41*.
(1) To be adapted with reference **28947** and **28948** fir INS-INV160.

Linergy FM
Quick device feeders


PB104605-50.eps

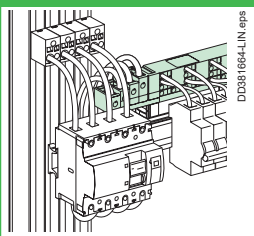
Description

- 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 ≥ 160 A: clipped onto the back of a modular rail or screwed onto a solid or pre-slotted plate.

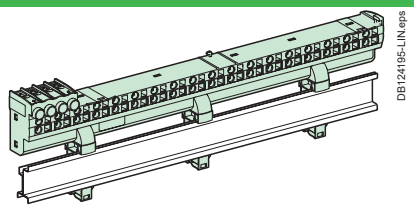
Distribution blocks

Number of poles			4P	4P
			 PB502496-31_r.eps	 PB104501-52-r.eps
			63 A	**80 A**
Rated peak withstand current		(Ipk)	15 kA	16 kA
Rated conditional short-circuit current of an assembly		(Isc)	The cascading reinforced breaking capacity when combining circuit breakers is maintained. The worst-case scenarios have been tested. The characteristics are exactly right for the connected devices. Circuit breakers and switches still have their temperature derating curves, and their whole performance is maintained. 150 kA with upstream protection of 150 kA Icc	
Rated insulation voltage		(Ui)	500 V AC	500 V AC
Rated voltage		(Ue)	440 V AC	440 V AC
Rated impulse withstand voltage		(Uimp)	6 kV	6 kV
Maximum current		(Imax)	-	-
Thermal stress		($I^2.t$)	9.03×10^6	9.03×10^6
Rated operational frequency			50/60 Hz	
Degree of protection			IPxxB	IP20
Width	9 mm modules		24	48
	18 mm modules		12	24
Supply at incoming terminals			Enclosed terminals for cables up to 25 mm^2	Enclosed terminals for cables up to 25 mm^2
Downstream connection capacity, cable to be used without ferrules	Max. 4 mm^2	Phase	2	-
		Neutral	4	-
	Max. 6 mm^2	Phase	2	-
		Neutral	4	-
	Max. 10 mm^2	Phase	-	18
		Neutral	-	18
Accessories included	Pre-stripped copper connections		10 x 4 mm^2 + 6 x 6 mm^2 (W = 100 mm)	12 blue + 12 black
	Protection cover		-	-
	Fixings		-	-
Catalogue numbers			**LVS04008**	**LVS04000**

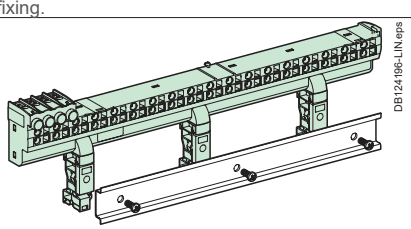
Installation


DD381664-LIN.eps

Clipped onto the back of a modular rail, or screw fixing.

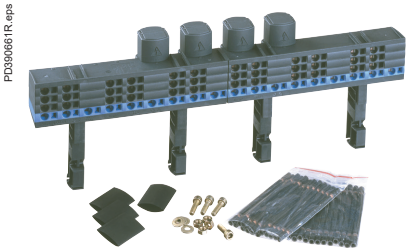

DB124195-LIN.eps

Clipped onto the back of a modular rail, or screw fixing.


DB124196-LIN.eps

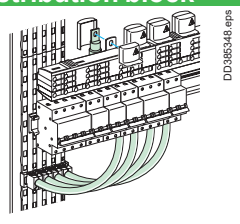
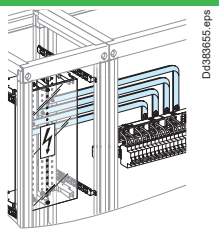
Can be mounted in Pragma Evolution enclosures and in PrismaSeT Pack 160.

Linergy FM
Quick device feeders



	4P	1P+N	3P	4P	4P
	 PB502500-18_r.eps	 PB502499-23_r.eps	 PB502498-27_r.eps	 PB502497-27-r.eps	 PB502501-27_r.eps
	160 A	**200 A**	**200 A**	**200 A**	**200 A**
	27 kA	25 kA	25 kA	30 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
	690 V AC	690 V AC	690 V AC		690 V AC
	8 kV	8 kV	8 kV		8 kV
	50 A for feeder for 10 mm² cable/63 A for feeder for 2 10 mm² cables				
	3600 x 10^7	3600 x 10^7	3600 x 10^7		3600 x 10^7
	50/60 Hz				
	IPxxB				
	24	48			72
	12	24			36
	Direct onto the row by cable 50 mm² with crimped lug, or flexible bar 20 x 3 from busbar with prefabricated connection				-
	-	-			-
	-	-			-
	-	-			-
	-	-			-
	6	12			-
	6	18			-
	20 x 4 mm² + 6 x 6 mm² (W = 100 mm)				-
	For rows (IPxxB)	-			-
	For rows	-			-
	LVS04018 (1)	**LVS04012** (1) (2)	**LVS04013** (1)	**LVS04014** (1) (2)	**LVS04026** (1)

Connections to the distribution block

	 DD386348.eps	 Dd383855.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	Linergy BS busbar	Rear Linergy BS busbar	Devices
Catalogue numbers	**LVS04021**	**LVS04024**	**LVS04029**	**LVS04030**

Spare parts

	 PB502502-8_r.eps
	4 covers for 160/200 A Linergy FM rows
Catalogue numbers	**LVS01202**

Note: electrical characteristics > *page G-41*.
(1) Cable to be used without tip.
(2) Use Linergy FM 200 (**LVS04012** and **LVS04014**) in Direct Current is possible. It is mùandatory 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

PB111254-30_1.eps



PB111253-30_1.eps



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
		 PB111250-20_1.eps	 PB111251-20_1.eps	 PB111252-20_1.eps	 PB111243-20_1.eps
Rating		125 A	160 A	250 A	100 A
Total connection capacity		10	13	14	4 x 7
Terminal capacity					
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 (Ipk)	Ipk/60 ms	25 kÂ	36 kÂ	60 kÂ	14 kÂ
	Ipk/6 ms	-	-	-	24 kÂ
Rated short-time withstand current (Icc) (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)		-	-	-	**LGYN1007**
Catalogue numbers		**LGY112510**	**LGY116013**	**LGY125014**	**LGY410028**

Linergy DS
Screw distribution blocks

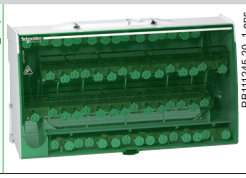
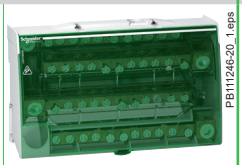
DB406005_1.eps



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

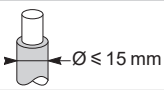
Technical data

Common characteristics	
In compliance with IEC/EN 60947-7-1 and IEC/EN 61439-1 & 2	
Rated insulation voltage (Ui)	500 V AC
Rated operational voltage (Ue)	230 V AC (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
Overvoltage category	III
Additional technical characteristics	
Reference temperature	40 °C
Operating temperature	-25 °C to 55 °C
Dielectric withstand (IEC/EN 60947-1)	2500 V AC

				Neutral terminal strip		
	 PB111244-20_1.eps	 PB111245-20_1.eps	 PB111246-20_1.eps	 PB111247-20_1.eps	 PB111248-20_1.eps	 PB111249-20_1.eps
	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 kÂ	18 kÂ	22 kÂ	-	-	-
	26 kÂ	28 kÂ	36 kÂ	-	-	-
	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**

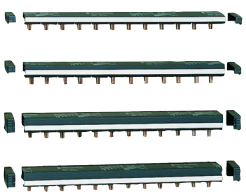
Terminal technical data

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 mm²	1.5 to 16 mm²	1.5 to 16 mm²	1.5 to 16 mm²	2.5 to 25 mm²	6 to 35 mm²	10 to 35 mm²	10 to 35 mm²
Section flexible cable or with ferrule	1.5 to 10 mm²	1.5 to 10 mm²	1.5 to 10 mm²	1.5 to 10 mm²	1.5 to 16 mm²	4 to 25 mm²	4 to 25 mm²	6 to 35 mm²
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 mm²	1.5 to 50 mm²	25 to 70 mm²	 Ø ≤ 15 mm	35 to 120 mm²
Section flexible cable or with ferrule	6 to 35 mm²	1.5 to 35 mm²	16 to 50 mm²		25 to 95 mm²
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



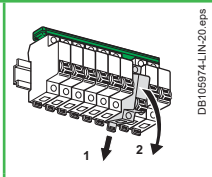
IEC 60664-1

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.

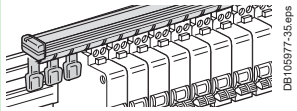
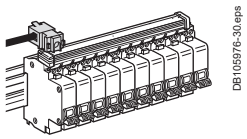
C120, NG125	27 mm poles, cuttable			
Number of poles	**1P**	**2P**	**3P**	**4P**
				
	Each com busbar reference includes: ■ 1 x single or 2 pole comb busbar + 8 tooth-caps + 2 side plates ■ 1 x 3 or 4 pole comb busbar + 4 tooth-caps + 2 side plates To insulate teeth that have been left free can be insulated 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)			
Use				
	Power supply by connector recommended			
Number of 27 mm modules	16	16	15	16
Set of	1			
Catalogue numbers	**14811**	**14812**	**14813**	**14814**

Installation

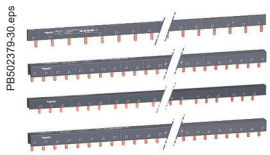


Comb busbars allow dismountability of switchgear.

Accessories

Number of poles	**1P, 2P, 3P, 4P**	
		
	Tooth caps	**Insulated connector**
		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
Use		
		For 25 mm^2 semi-rigid cable
Set of	20	4
Catalogue numbers	**14818**	**14885**
Installation		
		

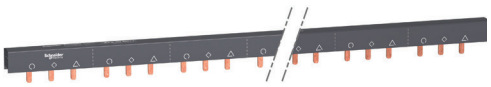
Linergy FH
Comb busbar for 18 mm pitch for Acti 9


PB502379-30.eps

IEC 60947-7-1, IEC 61439-2

Description

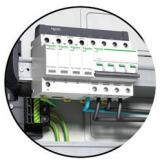
Comb busbars make it easier to install Acti 9 circuit breakers.
- Can be sawn and cut in a single pass, with a metal saw (the end-caps are compulsory after cutting).
- Supplied with two lateral end-caps to reinforce copper bars insulating (IP2) except for 57 module references.The side plates are compulsory 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)**
	 PB110252-65.eps										
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)										
Use											
	Power supply by connector recommended										
Type	L1…	L1L2…	L1L2L3…	NL1L2L3…	NL1NL2… …NL3	AuxL1…	AuxL1L2…	AuxL1L2L3	AuxNL1… …L2L3	AuxL1… …AuxL2… …AuxL3	AuxL1… …AuxL2… …AuxL3
Set of	1	1	1	1	1	1	1	1	1	1	1
Catalogue numbers											
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

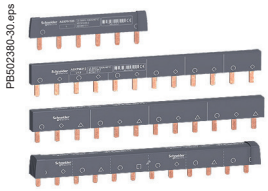
Number of poles	**1P**	**2P**	**3P**	**4P**	**-**	**-**	**-**
	 DB404806.eps				 DB404808.eps	 PB110258-7.eps	 PB110259-7.eps
	Side plates				**Tooth covers**	**Connectors**	
						Monoconnect	**Double terminals**
	Lateral end-caps providing IP20 protection				To insulate teeth that have been left free	Comb busbar power supply. Horizontal incomer on each side. For 35 mm² cable. Tightening torque 4 N.m  PB108139-20.eps	
Set of	10	10	10	10	20	4	4
Catalogue numbers	**A9XPE110**	**A9XPE210**	**A9XPE310**	**A9XPE410**	**A9XPT920**	**A9XPCM04**	**A9XPCD04**

Linergy FH

Comb busbar for 18 mm pitch for Acti 9

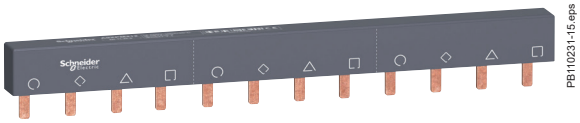
Device feeders

IEC 60947-7-1, IEC 61439-2



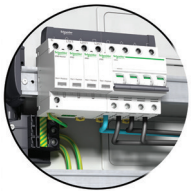
Description

- 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)**
	 PB110231-15.eps				
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)				
Use					
	Power supply by connector recommended				
Type	L1	L1L2	L1L2L3	NL1L2L3	NL1NL2NL3
Set of	1	1	1	1	1
Catalogue numbers 12 modules of 18 mm	**A9XPM112**	**A9XPM212**	**A9XPM312**	**A9XPM412**	**A9XPM512** (1)

Installation



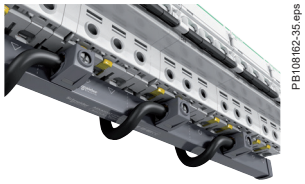


Accessories







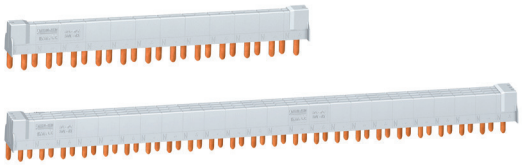
	Tooth caps	**Connectors**	
		Monoconnect	**Double terminals**
	To insulate teeth that have been left free	Comb busbar power supply	
Use			
		Horizontal incomer on each side For 35 mm² cable Tightening torque 4 N.m	
Set of	20	4	4
Catalogue numbers	**A9XPT920**	**A9XPCM04**	**A9XPCD04**
Installation			
	 PB108162-35.eps	 PB108164-35.eps	

(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

PB502382-70.eps



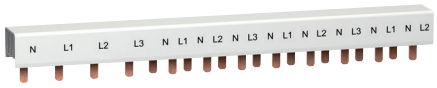
IEC 60439-1

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.

Acti 9 L + N		**9 mm poles, cuttable**					
Number of poles		**1P + N**			**3P + N**		
		 DB123729.eps 21501			 DB123730.eps 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
Catalogue numbers		**21501**	**19512**	**21503**	**21505**	**19516**	**21507**
Comb busbars alone							
Number of 18 mm modules	Comb busbar	48			48		
Catalogue numbers		**21089**			**21093**		

C60/ID Group Feeder comb busbars alone				
Number of poles		**3P + N**		
		 PB502506-60-r.eps		
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
Catalogue numbers		**10545**	**10546**	**10547**

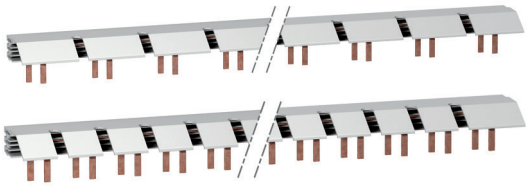
Accessories					
Number of poles	**1P + N**	**3P + N**			
	 DB123732.eps		 DB123733.eps		 DB123731.eps
	Side plates		**Tooth caps (3 x 18-mm modules)**	**Tooth caps (1 x 18-mm modules)**	**Connectors (grey)**
Set of	40		12	10	4
Catalogue numbers	**21094**	**21095**	**21096**	**10405**	**21098**

G

Linergy FH

Comb busbar for 9 mm pitch for Acti 9

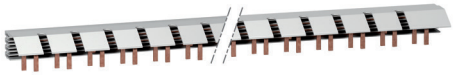
PB502383-10.eps

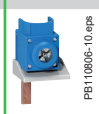


IEC 60439-1

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.

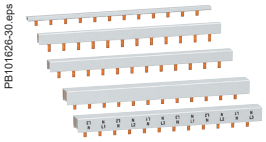
Acti 9		9 mm poles, cuttable			
Number of poles		**1P + N**	**3P + N**	**1P + N**	**3P + N**
		 PB110601-10.eps			
		A9N21036			
		Comb busbars		**DPN Vigi comb busbars**	
Rated operational current to 40 °C	(Ie)	63 A			
Rated conditional short-circuit current of an assembly	(Isc)	Compatible with the 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
Catalogue numbers		**A9N21035**	**A9N21036**	**A9N21037**	**A9N21038**

Accessories					
Number of poles	**1P + N**	**3P + N**			
	 PB110604-10.eps		 PB110605-10.eps	 PB110606-10.eps	 PB110607-10.eps
	Side plates		**Connectors (grey)**	**Neutral connectors (blue)**	**Tooth cap (1 x 18 mm module)**
Set of	20		10	10	10
Catalogue numbers	**A9N21039**	**A9N21040**	**A9N21041**	**A9N21042**	**A9N21050**

Linergy FH

Horizontal comb busbar for 18 mm pitch for Domae

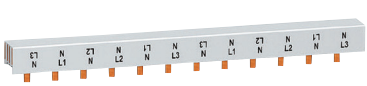
IEC 60439-1, IEC 60664


PB101626-30.eps

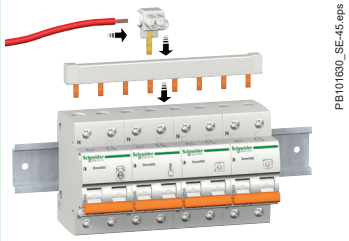
Description

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).
- A re 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)**
			 PB502372.eps								
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 mm² semi-rigid cables or 10 mm² flexible cables								
			By connector								
Number of 18 mm modules			12	57	12	57	12	57	12	57	57
Catalogue numbers			**10387**	**10388**	**10389**	**10390**	**10391**	**10392**	**10393**	**10394**	**10395**

Installation


PB101630_SE-45.eps

G

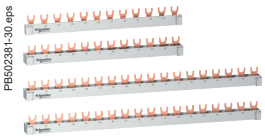
Accessories

	 PB502373.eps	 PB101632-10.eps		 PB502376-40.eps	 PB110898-25.eps
Type	**Connectors (4 x 35 mm²)**	**Side plates (2 phases)**	**Side plates (3 phases)**	**Side plates (4 phases)**	**Tooth caps**
Set of	1	10	10	10	10
Catalogue numbers	**10397**	**10398**	**10399**	**10405**	**10396**

Linergy FH

Horizontal biconnect comb busbar for 18 mm pitch

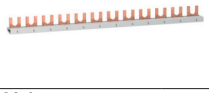
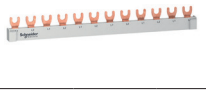
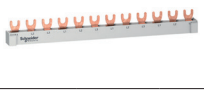
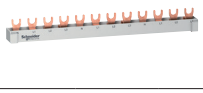
Device feeders



IEC 60664-1

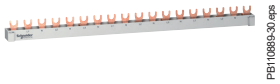
Description

- 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)											
Use												
	Power supply: directly on terminal (25 mm² rigid or 16 mm² flexible) or by connector (35 mm² rigid or 25 mm² 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
Catalogue 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)		
Use			
Type	NL1L2L3L4 - NL1NL2NL3	NL1NL2NL3	
Number of 18 mm modules	18	18	57
Set of	1	1	1
Catalogue numbers	**R9XFH518G**	**R9XFH518**	**R9XFH557**

Installation



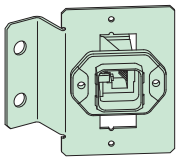
Accessories

Number of poles	1P	2P	3P	4P		
						
	Side plates				**Tooth caps**	**Connectors**
Set of	10				20	4
Catalogue numbers	**R9XE110**	**R9XE210**	**R9XE310**	**R9XE410**	**R9XT20**	**R9XFC04**

Connectors

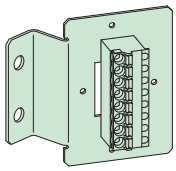
For plug & play interconnection between electrical switchboard for control and communication wires.

DD388864.ai



RJ45 female-female connector with mounting plate		
Connector type		8 wires RJ45; 1 Gbps
For ethernet cable		CAT5e SFTP (IEC 11801) or higher
Degree of protection		IP67 for direct mount
Dimensions (H x W x D)	(mm)	75 x 70 x 45
Catalogue number		**LGY4230**

DD388855.ai



8P male-female connector with mounting plate		
Rated operational current at 40 °C	(Ie)	12 A
Rated operational voltage	(Ue)	320 V
Rated impulse withstand voltage	(Uimp)	4 kV
Connection method		Push-in spring connection
Connection capacity	Input	8
	Output	8
Dimensions (H x W x D)	(mm)	75 x 70 x 45
Wire size		0.2 to 2.5 mm^2
Catalogue number		**LGY4231**

XB5_633_CPSCT16028A_24.eps

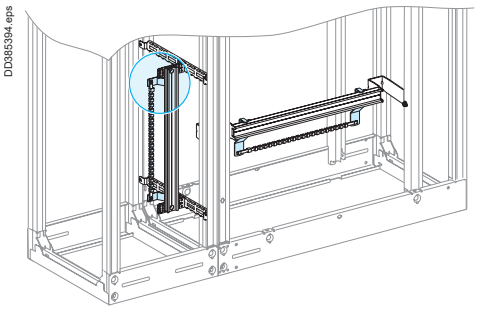


ZBSP2_24.ai



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
Catalogue number	**XB5PUSB3**	**XB5PRJ45**	**ZBSP1**	**ZBSP2**	**ZBSP3**

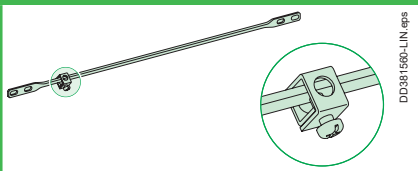
G



Description

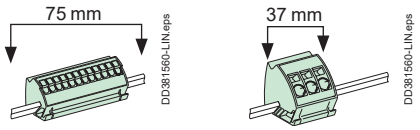
This range of earth bars is installed:
- in the duct which can constitute a dedicated area, completely separate from the equipment
- or in the switchgear compartment, at the top or the bottom .

Fast-connecting earth bar



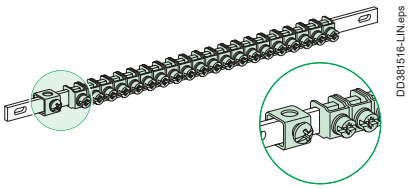
	Copper earth bar
Cross-section (mm)	12 x 3
Effective length (mm)	330
Total length (mm)	450
Composition	Copper bar with 1 terminal 16 to 35 mm²
Catalogue numbers	**LVS04201**

Accessories



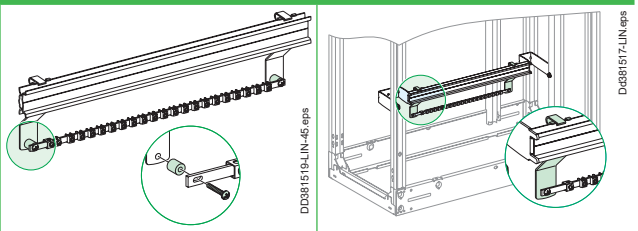
	Earth blocks with terminals	
	Spring-fixing (clip onto the earth bar)	
Total connection capacity	12 x 4 mm²	3 x 16 mm²
Composition	4 earth blocks	4 earth blocks
Catalogue numbers	**LVS04214**	**LVS04215**

Accessories



	Copper earth bar with jumper	
Total connection capacity	40 x 2.5 to 16 mm²	20 x 2.5 to 16 mm²
Cross-section (mm)	12 x 3	12 x 3
Length (mm)	450	200
Composition	40 jumpers and a terminal (16 to 35 mm²)	20 jumpers and a terminal (16 to 35 mm²)
Catalogue numbers	**LVS04200**	**LVS04202**

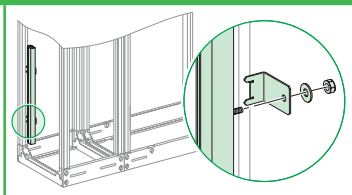
Accessories

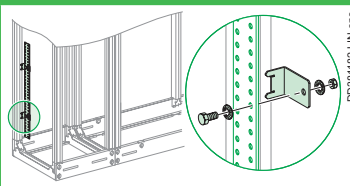


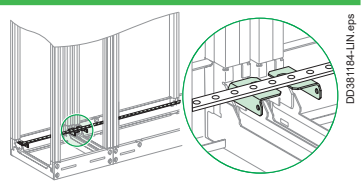
	Neutral bar	Earth bar
	Converts an earth bar to a neutral bar	
Composition	2 insulating spacers	2 supports for earth bar on modular rail
Catalogue numbers	**LVS04210**	**LVS04205**

Linergy TB
PE conductor

PE conductor





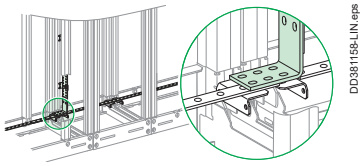


		Vertical PE conductor with Linergy LGY profile (W = 1670 mm)			Vertical PE conductor with Linergy BS busbar (W = 1675 mm)		Horizontal PE conductor with Linergy BS busbar	
Rated short-time current	(Isc)	≤ 65	> 65... ≤ 80	= 100	≤ 40	> 40	≤ 40	> 40
Permissible current	(A)	630	800	1250	400	600	400	600
Bar 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)		
Catalogue numbers		**LVS04502**	**LVS04503**	**LVS04505**	**LVS04512**	**LVS04515**	**LVS04512**	**LVS04515**

Support selection

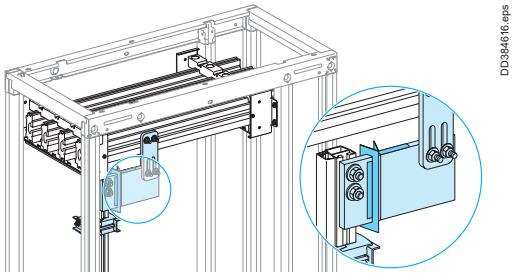
	Three supports for one vertical PE (supplied with PE marking) to secure to the framework	Three supports for one vertical PE (supplied with PE marking) to secure to the framework	Two supports for one horizontal PE
Catalogue numbers	**LVS04657**	**LVS04657**	**LVS04667**

Connection between PE conductors



	Connection plates for horizontal/vertical PE bars	Linergy connection hardware
Composition	2 copper angle brackets	20 M8 bolts (W = 25 mm) + 20 nuts + 20 contact washers for connection to cable lugs or flexible bars
Catalogue numbers	**LVS04672**	**LVS04766**

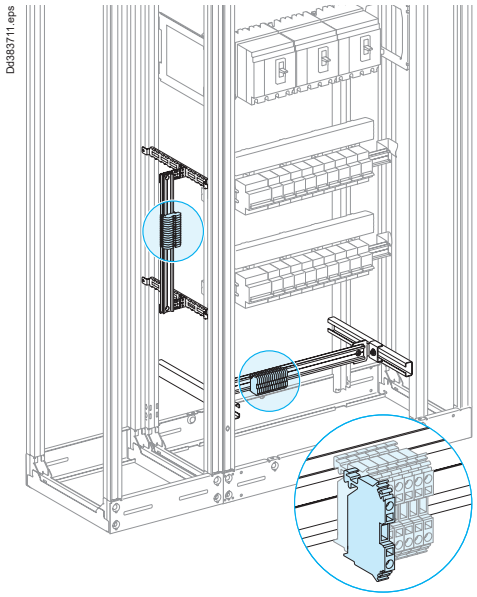
PEN conductor



	Linergy TB PEN installation kit with LGY vertical profile	1600 A connection 10 mm horizontal busbar with Linergy LGY profile	Linergy LGYE vertical connection 1600 A
Catalogue numbers	**LVS04656**	**LVS04636**	**LVS04602**

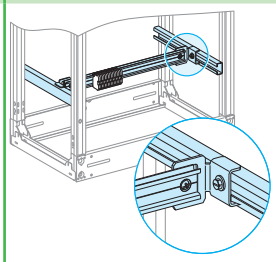
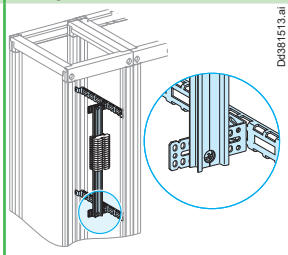
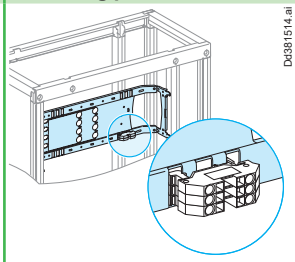
Note: for further details *> page I-10*.

Linergy TB terminal block support



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)	**LVS03402**	**-**	**-**
2 modular rails W = 1600 mm	**LVS04226**	**LVS04226**	**-**
2 universal angle brackets	**LVS03581**	**LVS03581**	**-**
Set of two lateral cross-members W = 400 mm	**LVS03584**	**-**	**-**
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 (mm²)	4	6	10	16
Width of terminal block (mm)	6	8	10	12

Height required in switchboard				
Max. cable CSA (mm²)	4	6	10	16
No. of vertical modules	3	3	5	6
Plain front plate	**LVS03803**	**LVS03803**	**LVS03805**	**LVS03806**

Designing connection ⩽ 630 A
Auxiliary connections

Electrical characteristics

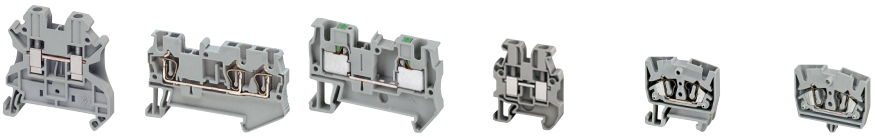
Device	Ambient temperature around the switchboard											
	25°C		30°c		35°C		40°C		45°C		50°C	
	IP ⩽ 31	IP > 31	IP ⩽ 31	IP > 31	IP ⩽ 31	IP > 31	IP ⩽ 31	IP > 31	IP ⩽ 31	IP > 31	IP ⩽ 31	IP > 31
	Rated current of a circuit I_{nc} (A)											
Linergy BW												
Insulated bus bar Linergy BW 125A	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	■
Linergy BS												
Rear flat busbars 160 A	171	160	166	154	160	148	154	142	148	135	142	■
Rear flat busbars 250 A	267	250	259	241	250	231	241	222	231	211	222	■
Rear flat busbars 400 A	428	400	414	385	400	370	385	355	370	338	355	■
Rear flat busbars 630 A	673	630	652	607	630	583	607	558	583	532	558	■
Linergy BS												
Multi-stage busbars 160 A	171	160	166	154	160	148	154	142	148	135	142	■
Multi-stage busbars 250 A	267	250	259	241	250	231	241	222	231	211	222	■
Multi-stage busbars block 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	■
Linergy BS												
Multi-stage distribution block 160 A	171	160	166	154	160	148	154	142	148	135	142	■
Multi-stage distribution block 250 A	267	250	259	241	250	231	241	222	231	211	222	■
Multi-stage distribution block 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	■
Linergy DX												
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	■
Linergy DP												
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	■
Linergy FM												
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.

G

Linergy TR
Terminal blocks

Secondary distribution



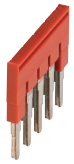
			Connection technology					
Type of terminal block	**Cross section area**	**Color**	**Screw tech** 	**Spring tech** 	**Push-in tech** 	**Miniature screw for 15 mm DIN rail**	**Miniature spring for 15 mm DIN rail**	**Miniature spring for direct mount**
Passthrough	2.5 mm² (2 pts)	Grey	**NSYTRV22**	**NSYTRR22**	**NSYTRP22**	**NSYTRV22M**	**NSYTRR22M**	**NSYTRR22MF**
		Blue	**NSYTRV22BL**	**NSYTRR22BL**	**NSYTRP22BL**	**NSYTRV22MBL**	**NSYTRR22MBL**	**NSYTRR22MFBL**
		Orange	**NSYTRV22AR**	**NSYTRR22AR**	**NSYTRP22AR**	-	-	**NSYTRR22MFF***
	2.5 mm² (3 pts)	Grey	**NSYTRV23**	**NSYTRR23**	**NSYTRP23**	-	-	-
		Blue	**NSYTRV23BL**	**NSYTRR23BL**	**NSYTRP23BL**	-	-	-
		Orange	-	**NSYTRR23AR**	**NSYTRP23AR**	-	-	-
	2.5 mm² (4 pts)	Grey	**NSYTRV24**	**NSYTRR24**	**NSYTRP24**	-	**NSYTRR24M**	**NSYTRR24M**
		Blue	**NSYTRV24BL**	**NSYTRR24BL**	**NSYTRP24BL**	-	**NSYTRR24MBL**	**NSYTRR24MBL**
	2.5 mm² (4 pts, 2 levels)	Grey	**NSYTRV24D**	**NSYTRR24D**	**NSYTRP24D**	-	-	-
		Blue	**NSYTRV24DBL**	**NSYTRR24DBL**	**NSYTRP24DBL**	-	-	-
	2.5 mm² (6 pts, 3 levels)	Grey	**NSYTRV26T**	**NSYTRR26T**	**NSYTRP26T**	-	-	-
		Blue	**NSYTRV26TBL**	**NSYTRR26TBL**	**NSYTRP26TBL**	-	-	-
	4 mm² (2 pts)	Grey	**NSYTRV42**	**NSYTRR42**	**NSYTRP42**	**NSYTRV42M**	-	-
		Blue	**NSYTRV42BL**	**NSYTRR42BL**	**NSYTRP42BL**	**NSYTRV42MBL**	-	-
		Orange	**NSYTRV42AR**	**NSYTRR42AR**	-	-	-	-
	4 mm² (3 pts)	Grey	**NSYTRV43**	**NSYTRR43**	**NSYTRP43**	-	-	-
		Blue	**NSYTRV43BL**	**NSYTRR43BL**	**NSYTRP43BL**	-	-	-
	4 mm² (4 pts)	Grey	**NSYTRV44**	**NSYTRR44**	**NSYTRP44**	-	-	-
		Blue	**NSYTRV44BL**	**NSYTRR44BL**	**NSYTRP44BL**	-	-	-
	4 mm² (4 pts, 2 levels)	Grey	**NSYTRV44D**	**NSYTRR44D**	-	-	-	-
		Blue	**NSYTRV44DBL**	**NSYTRR44DBL**	-	-	-	-
	6 mm² (2 pts)	Grey	**NSYTRV62**	**NSYTRR62**	-	-	-	-
		Blue	**NSYTRV62BL**	**NSYTRR62BL**	-	-	-	-
	10 mm² (2 pts)	Grey	**NSYTRV102**	**NSYTRR102**	-	-	-	-
		Blue	**NSYTRV102BL**	**NSYTRR102BL**	-	-	-	-
	16 mm² (2 pts)	Grey	**NSYTRV162**	**NSYTRR162**	-	-	-	-
		Blue	**NSYTRV162BL**	**NSYTRR162BL**	-	-	-	-
Earth protection	2.5 mm² (2 pts)	Green/Yellow	**NSYTRV22PE**	**NSYTRR22PE**	**NSYTRP22PE**	**NSYTRV22MPE**	**NSYTRR22MPE**	-
	2.5 mm² (3 pts)	Green/Yellow	**NSYTRV23PE**	**NSYTRR23PE**	**NSYTRP23PE**	-	-	-
	2.5 mm² (4 pts)	Green/Yellow	**NSYTRV24PE**	**NSYTRR24PE**	**NSYTRP24PE**	-	-	-
	4 mm² (2 pts)	Green/Yellow	**NSYTRV42PE**	**NSYTRR42PE**	**NSYTRP42PE**	**NSYTRV42MPE**	-	-
	4 mm² (3 pts)	Green/Yellow	**NSYTRV43PE**	**NSYTRR43PE**	**NSYTRP43PE**	-	-	-
	4 mm² (4 pts)	Green/Yellow	**NSYTRV44PE**	**NSYTRR44PE**	**NSYTRP44PE**	-	-	-
	6 mm² (2 pts)	Green/Yellow	**NSYTRV62PE**	**NSYTRR62PE**	-	-	-	-
	10 mm² (2 pts)	Green/Yellow	**NSYTRV102PE**	**NSYTRR102PE**	-	-	-	-
	16 mm² (2 pts)	Green/Yellow	**NSYTRV162PE**	**NSYTRR162PE**	-	-	-	-
Knife Disconnect	2.5 mm² (2 pts)	Grey	**NSYTRV22SC**	**NSYTRR22SC**	**NSYTRP22SC**	-	-	-
		Orange	**NSYTRV22ST** (1)	**NSYTRR22SCAR**	-	-	-	-
	2.5 mm² (3 pts)	Grey	-	**NSYTRR23SC**	**NSYTRP23SC**	-	-	-
		Orange	-	**NSYTRR23SCAR**	-	-	-	-
	2.5 mm² (2 levels)	Grey	**NSYTRV24SCD**	**NSYTRR24SCD**	-	-	-	-
Fuse Disconnect	4 mm² (2 pts) 5 x 20 mm fuse	Black	**NSYTRV42SF5**	-	-	-	-	-
		Black (12 V)	**NSYTRV42SF5LD** (2)	-	-	-	-	-
		Black (230 V)	**NSYTRV42SF5LA** (2)	-	-	-	-	-
Basic Disconnect (3)	4 mm² (2 pts)	Grey	**NSYTRV42TB**	**NSYTRR42TB**	**NSYTRP42TB**	-	-	-
Measuring transducer	6 mm² (2 pts) Disconnect	Grey	**NSYTRV62TTD**	-	-	-	-	-
	6 mm² (2 pts)	Grey	**NSYTRV62TT**	-	-	-	-	-
	6 mm² (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





	Accessories					Cable ends compatible with all technologies	
	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	Wires corss section area	References
	NSYTRR22MP	NSYTRAC22	NSYTRACR22	NSYTRACR22	NSYTRAL22	NSYTRABF510	0.5 mm²	DZ5CE005
	NSYTRR22MPBL	NSYTRAC22BL	NSYTRACR22BL	NSYTRACR22BL	NSYTRAL23	NSYTRABF520		DZ5CA005
	-	-	-		NSYTRAL24	NSYTRABF530	0.75 mm²	DZ5CE007
	-	NSYTRAC23	NSYTRACR23	NSYTRACR23	NSYTRAL25	NSYTRABF540		DZ5CA007
	-	-	NSYTRACR23BL	NSYTRACR23BL	NSYTRAL210	NSYTRABF550	1 mm²	DZ5CE010
	-	-	-	-	NSYTRAL210BL	NSYTRAB560		DZ5CA010
	NSYTRR24MP	NSYTRAC24	NSYTRACR24	NSYTRACR24	NSYTRAL210GR	NSYTRAB570	1.5 mm²	DZ5CE015
	NSYTRR24MPBL	-	NSYTRACR24BL	NSYTRACR24BL	NSYTRAL220	NSYTRAB580		DZ5CA015
	-	NSYTRACE24	NSYTRACRE24	NSYTRACRE24		NSYTRAB590	2.5 mm²	DZ5CE025
	-	-	-	-		NSYTRAB5100		DZ5CA025
	-	NSYTRACE26	NSYTRACRE26	NSYTRACPE26		NSYTRAB51100	4 mm²	DZ5CE042
	-	-	-	-				DZ5CA042
	-	NSYTRAC22	NSYTRACR42	NSYTRACR42	NSYTRAL42	NSYTRAB610	6 mm²	DZ5CE062
	-	NSYTRAC22BL	-	-	NSYTRAL43	NSYTRAB620		DZ5CA062
	-	-	-	-	NSYTRAL44	NSYTRAB630	10 mm²	DZ5CE102
	-	NSYTRAC23	NSYTRACR43	NSYTRACP43	NSYTRAL45	NSYTRAB640		DZ5CA102
	-	-	-	-	NSYTRAL410	...	16 mm²	DZ5CE162
	-	NSYTRAC24	NSYTRACR44	NSYTRACP44	NSYTRAL410BL	NSYTRAB690		DZ5CA162
	-	-	-	-	NSYTRAL410GR	NSYTRAB6100	25 mm²	DZ5CE252
	-	NSYTRACE24	NSYTRACRE44	-	NSYTRAL420	NSYTRAB61100		DZ5CA253
	-	-	-	-			35 mm²	DZ5CE352
	-	NSYTRAC22	NSYTRACR62	-	NSYTRAL62	NSYTRAB810		DZ5CA352
	-	NSYTRAC22BL	-	-	NSYTRAL65	NSYTRAB820	50 mm²	DZ5CE502
	-	NSYTRAC22	NSYTRACR102	-	NSYTRAL102	NSYTRAB1010		DZ5CA502
	-	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	-	-				

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

G

Functional partitioning

Version : 8.0 - 10/04/2021
160E8000

Contents

Main distribution

IS Service Indices
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Form partitioning
Presentation H-3

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Form 3 partitioning **H-6**

Form 4 partitioning **H-7**

Other partitions **H-8**

H

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.

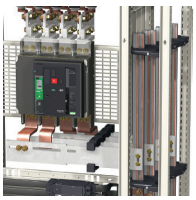
Note: The service index may be different in the same switchboard, for incomers or outgoings, in order to meet the customer needs.

	1st digit Exploitation The exploitation includes all the operations on the installation likely to be carried out by personnel electrician or non-electrician.	**2nd digit** Maintenance 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** Upgrade 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.
1	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.
2	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.
3	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 Plus P

IS 211
Fixed



IS 211
functional unit equipped with fixed circuit breakers

IS 231 or 232
Plug-in base



IS 231
functional unit equipped with a plug-in circuit-breaker



IS 232
reserve functional unit equipped with an empty plug-in base

IS 331 or 332
Withdrawable on chassis



IS 331
functional unit equipped with a withdrawable circuit breakers on chassis



IS 332
reserve functional unit equipped with an empty chassis

IS 223
Scalable system under power



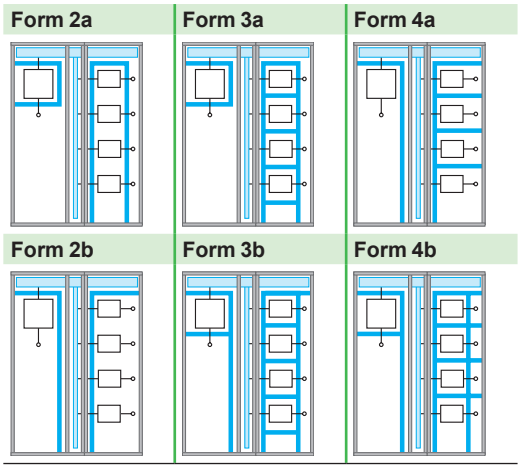
IS 233
possible under conditions. Consult us

Forms partitioning
Presentation

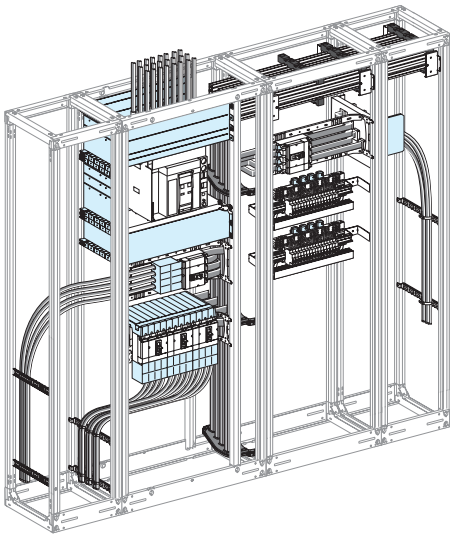
What are the forms?

- 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.

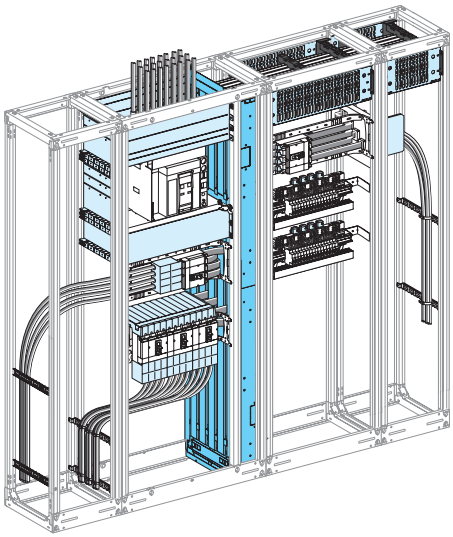
PrismaSeT P offers solutions for forms 1, 2a, 2b, 3a, 3b, 4a, 4b.



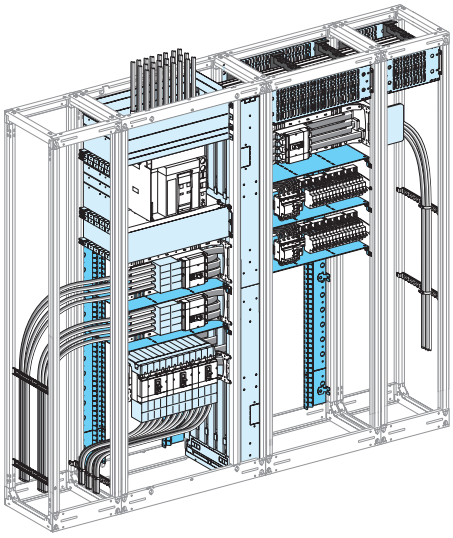
Form 1
No internal separation



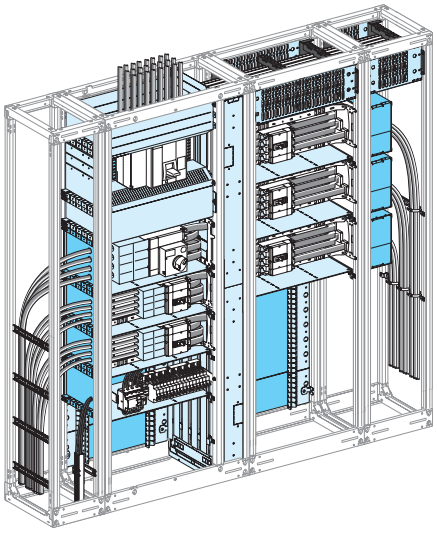
Form 2
Separation between horizontal busbars, vertical busbars and functional units



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



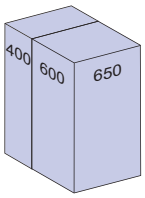
H

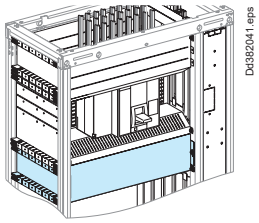
Form 1 partitioning

Covering the supply terminals on the incoming device

Main distribution

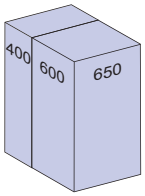
Covering of the connection between an incoming device and lateral busbars

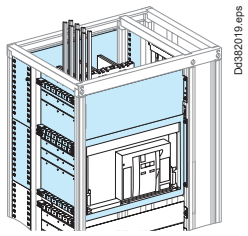




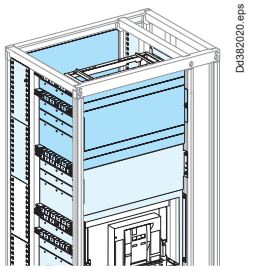
	MasterPact MTZ2	MasterPact MTZ1	ComPacT NS630b/1600	ComPacT NS1600b/3200 (1)	ComPacT INS-INV630b/2500
Cover with copper connection	LVS04926	LVS04926	LVS04926	LVS04926	LVS04926
Additional cover	LVS04927	-	-	-	-
Cover with Linergy LGYE connection	LVS04925	LVS04925	-	-	-
Additional cover	LVS04928	-	-	-	-

Front connection with cables



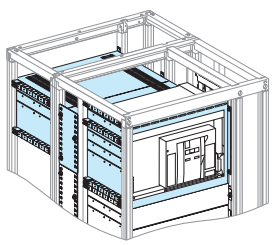


Canalis front connection

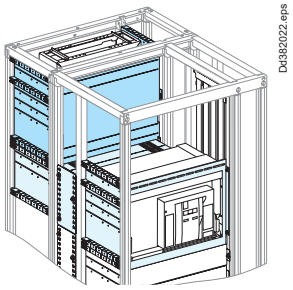


Devices	Fixed or withdrawable device		Fixed	With-drawable	Fixed or withdrawable device		Fixed	With-drawable
	MasterPact		ComPacT		MasterPact		ComPacT	
	MTZ2	MTZ1	NS630b/1600	NS630b/1600	MTZ2	MTZ1	NS630b/1600	NS630b/1600
Cover	LVS04861	LVS04852	LVS04851	LVS04852	LVS04861	LVS04852	LVS04851	LVS04852
Canalis additional cover	-	-	-	-	LVS04871	LVS04871	LVS04871	LVS04871

Rear connection with cables



Canalis rear connection



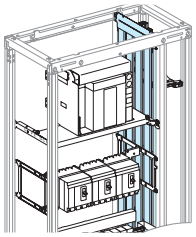
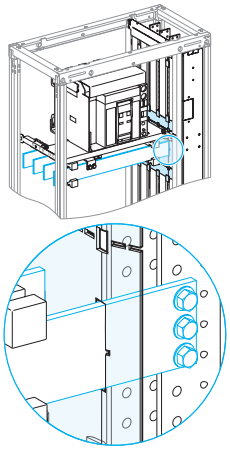
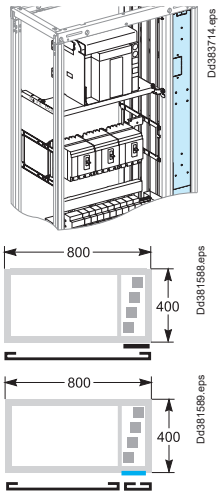
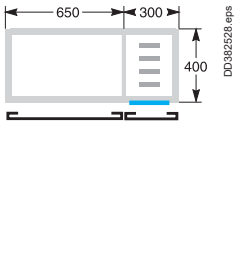
Devices	Fixed or withdrawable device		Fixed	With-drawable	Fixed or withdrawable device		Fixed	With-drawable
	MasterPact		ComPacT		MasterPact		ComPacT	
	MTZ2	MTZ1	NS630b/1600	NS630b/1600	MTZ2	MTZ1	NS630b/1600	NS630b/1600
Cover	LVS04863	LVS04854	LVS04853	LVS04854	LVS04863	LVS04854	LVS04853	LVS04854
Canalis additional cover	-	-	-	-	LVS04871	LVS04871	LVS04871	LVS04871

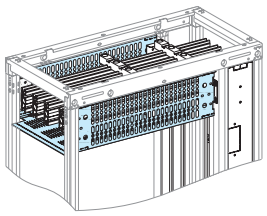
(1) For more information > *page E-14*.

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
Characteristics	■ Vertical barrier made of insulating slats ■ can be installed on both sides of Linergy BS or Linergy LGY busbars ■ The space between the slats is sufficient for prefabricated connections (one copper bar, 5 or 10 mm thick, or insulated flexible bars) or for cables up to 35 mm², while maintaining the degree of protection IP2X	■ This kit enables passage of the connection between a device > 1600 A (MTZ2, INS-INV) and lateral vertical busbars. ■ 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. ■ Has to be use with MTZ2 interlocking mounting plate	Can be installed in the front and rear of the busbar compartment. Protects against direct contact with the busbars. This barrier is not required in front when the cubicle is equipped with a plain or transparent door. □ For 800 mm cubicles : □ the door is systematically supplied with a barrier. □ the cover frame is supplied with a wicket door, W = 150 mm, on which devices can be mounted. A front barrier is indispensable. ■ A barrier is required at the rear of the busbar compartment in cubicles that are 600,800 and 1000 mm deep.	
Catalogue number	**LVS04922**	**LVS04924**	**LVS04921**	**LVS04920**



Horizontal partitioning

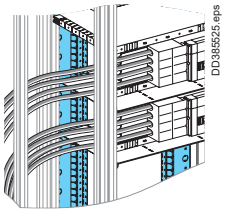
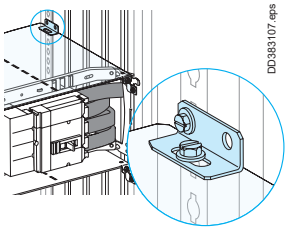
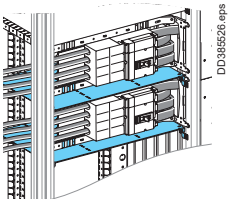
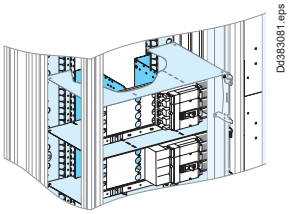
- Set of two barriers (front and rear), plus a slotted rear panel for efficient natural convection in the switchboard.
- The set can be used to partition horizontal busbars installed at the top or bottom of the cubicle.
- The space required for the busbars is not increased.

		Linergy LGYE				Linergy BS		
		Top position		Bottom position		Top position		Bottom position
	In	⩽ 2500 A	⩾ 3200 A	⩽ 2500 A	⩾ 3200 A	⩽ 3200 A	4000 A	⩽ 3200 A
Nb of module		3	4	3	4	3	4	3
D400								
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**
D600								
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**.

Main distribution

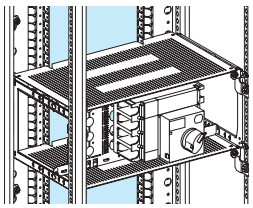
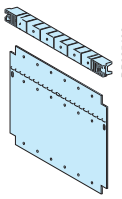
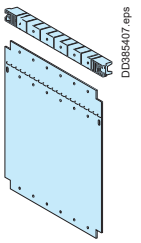
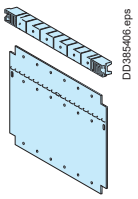
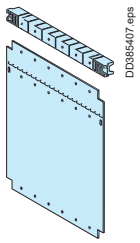
Form 3 partitioning

	Front connection			Rear connection	
					
	Rear support for partitions W = 650 mm	**6 universal angle brackets**	**Horizontal metal partition W = 650 mm**	**Rear connection**	
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
Catalogue numbers	**LVS04943**	**LVS03583**	**LVS04901**	**LVS04955**	**LVS04956**

Main distribution

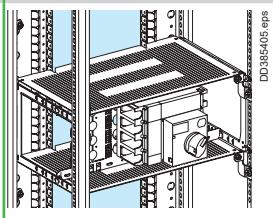
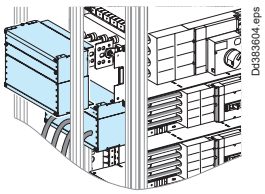
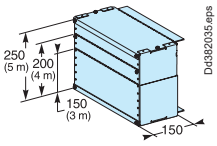
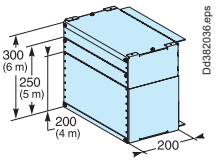
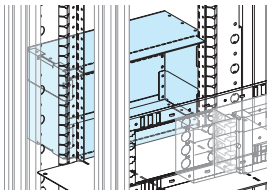
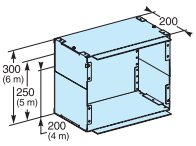
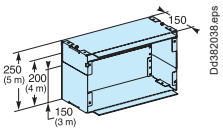
Form 4a partitioning

Forme 4 - direct connection to the device

	Front connection			Rear connection	
					
	Backplate	**Gland plate**			
Characteristics	■ 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	■ a plastic gland plate that can be easily cut out (one for each functional unit) and is mounted on the framework.		■ a gland plate at the rear of each functional unit. It is connected directly to the rear supports for Form 3 partitions	
		3 to 4 modules	5 to 6 modules	3 to 5 modules	4 to 6 modules
Catalogue numbers	**LVS04946**	**LVS04951**	**LVS04952**	**LVS04951**	**LVS04952**

Form 4b partitioning

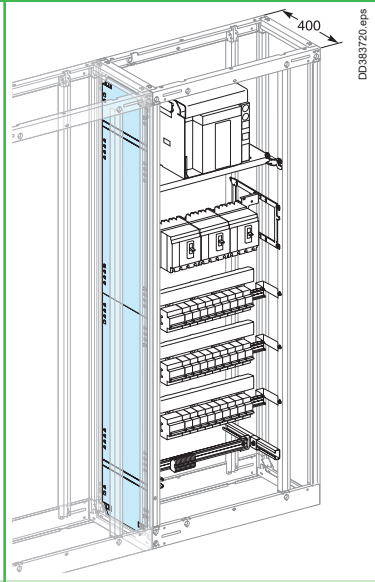
Forme 4b - connection transfer

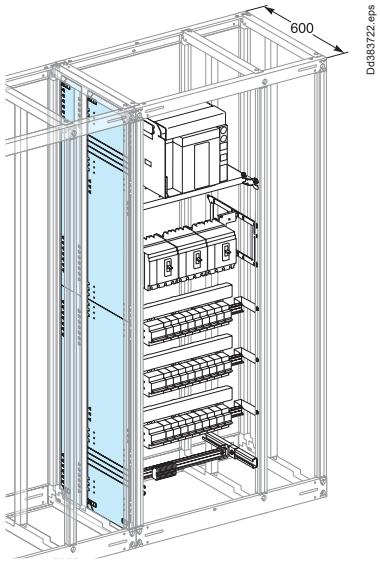
	In a lateral compartment			At the rear of the cubicle	
		 		 	
	Backplate	**Cover**			
Characteristics	■ a backplate (one cat. no. per cubicle) made up to two metal half panels mounted on the rear supports for Form 3 partitions. This backplate is not indispensable for 400 mm deep frameworks	■ a cover with plastic gland plates that can be easily cut out on the side and bottom.		■ It comprises two height-adjustable metal flanges and plastic gland plates that can be easily cut out at the rear and bottom.	
		3 to 5 modules W150	4 to 6 modules W200	3 to 5 modules	4 to 6 modules
Catalogue numbers	**LVS04946**	**LVS04953**	**LVS04954**	**LVS04953**	**LVS04954**

H

Main distribution

Inter-cubicle partition





	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.	
Catalogue numbers	**LVS04911**	**LVS04911 + LVS04931**

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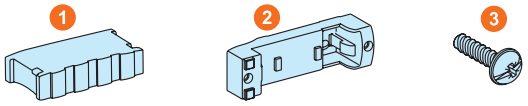
After-sales accessories

Spare parts

Linergy BW busbar accessories

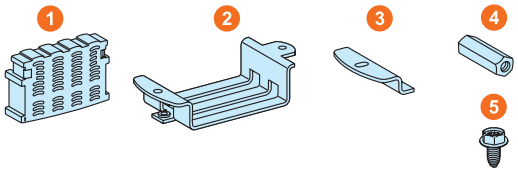
Linergy BW accessories, 160/400 A — **LVS01210**

DD385483.eps



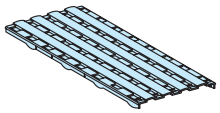
1. 2 end plugs
2. 2 angle brackets support
3. 2 screws

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

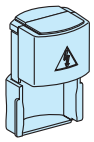
2 IPxxB clipon covers for Linergy BW, 160 to 400 A — **LVS01201**



Linergy FM busbar accessories (IP30)

4 terminal covers for 200 A Linergy FM — **LVS01202**

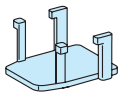
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Linergy busbar accessories (IP30)

12 chocks for Linergy busbars — **LVS01109**

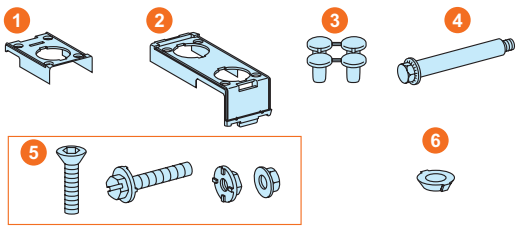
DD384574.EPS



Framework accessories

Framework accessories — **LVS01104**

DD384562.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

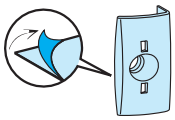
After-sales accessories

Spare parts

Front-plate accessories

20 self adhesive front plate grips — **LVS01093**

DD384564.EPS



10 sets of 2 grips quarter turn — **LVS01094**

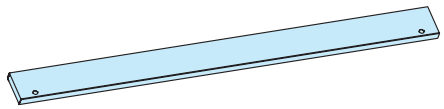
DD384582.eps



Accessory

Plain wicket door, W = 150 mm — **LVS01110**

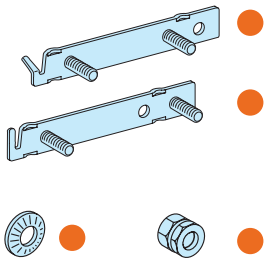
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Linergy LGYE busbar accessories

Linergy LGYE connection screwplate kit — **LVS01130**

DD386489.eps

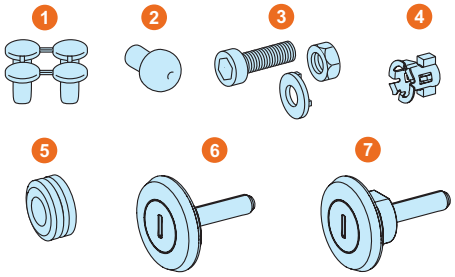


1. 4 plates for 2000 - 4000 A joint
2. 4 flat plates for 3200 - 4000 A connection
3. 16 conical contact washer Ø8
4. 16 torque nut M8

Rear accessories

Accessories IP55 — **LVS01101**

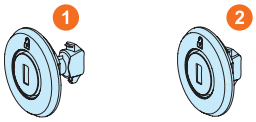
DD385379.eps



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**

DD385977.eps



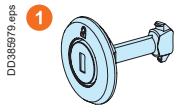
1. 8 IP30 rear panel fixing systems
2. 2 IP30 roof and rear panel fixing systems

After-sales accessories

Spare parts

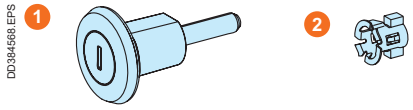
Side panel accessories

Side panel accessories — **LVS01100**



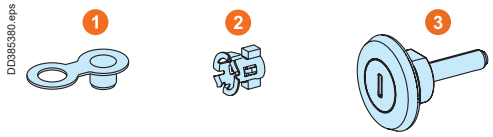
1 16 fixing system IP30

Accessories for IP55 side panel — **LVS01102**



1 16 fixing system IP55
2 16 cage nuts

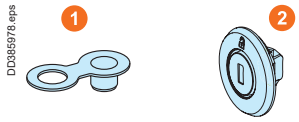
Accessories for IP55 roof — **LVS01103**



1 4 lifting ring plugs
2 6 cage nuts
3 6 mounting sets of screw fixing IP55 for roof

Roof accessories

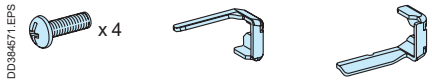
Roof accessories — **LVS01112**



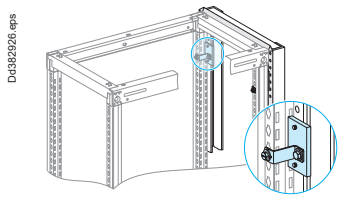
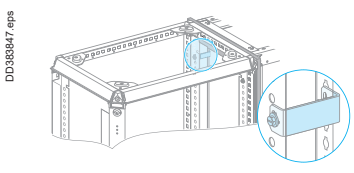
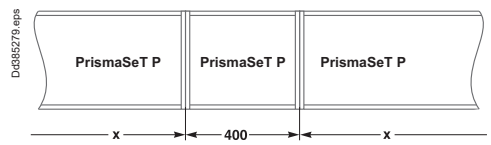
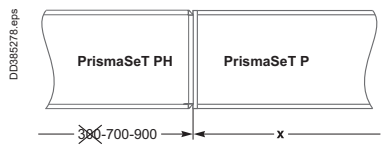
1 4 lifting ring plugs
2 6 IP30 roof and rear panel fixing systems

Front plate support frames

Front plate support striker kit for LVS08564 - LVS08566 — **LVS01123**



Side-by-side combination kit

	PrismaSeT P/PrismaSeT P	PrismaSeT P/PrismaSeT PH
		
Catalogue number	**LVS01199**	**LVS01198**
Characteristics	■ To add a PrismaSeT P cubicle to an existing PrismaSeT 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 (LVS**08717**) together with the side-by-side combination kit (LVS**01198**). 

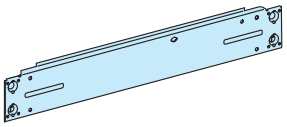
After-sales accessories

Spare parts

Framework accessories

Framework accessories

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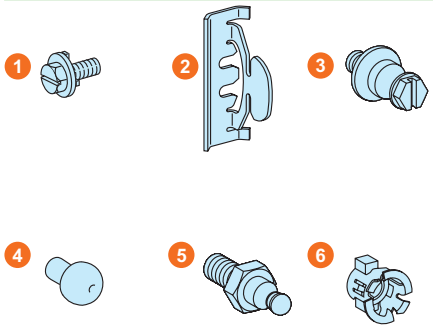
Frame bottom cross-member W400 to use with LVS08564	**LVS01119** (1)
Frame bottom cross-member W650 to use with LVS08566	**LVS01120** (1)
Frame bottom cross-member W150+650 to use with LVS08566	**LVS01121** (1)
Frame bottom cross-member W650+150 to use with LVS08566	**LVS01122** (1)

(1) Spare parts on stock in RAL 9003 only.

Door accessories

Closing accessories — LVS01105

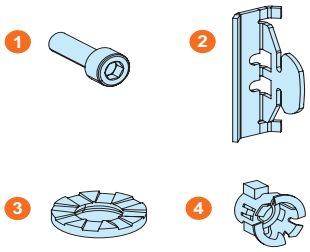
DD384617.eps



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

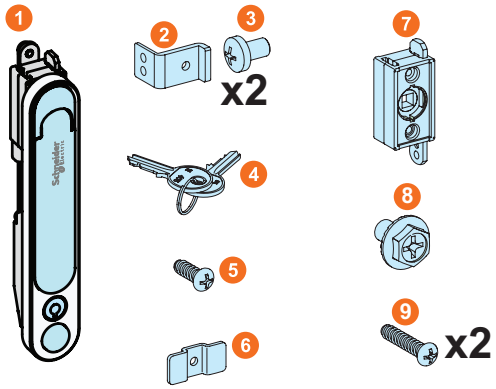
DD435601.eps



1. 4 screws MSC HXG SK M6 x 20
2. 4 door strike stoppers
3. 4 washers
4. 4 captive nuts for frame

Rotary handle — LVS01219

DD385874.eps

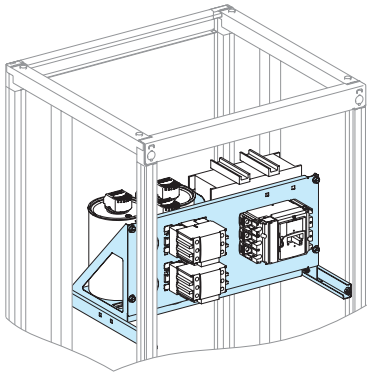


1. Handle housing block
2. P adapter link part, T = 3mm
3. Screw, pan head, M5x8
4. The key of 405
5. 1 crosshead screw
6. Omega fix part, T = 2mm
7. Driver block
8. Hex locking screw, M6x10
9. Self tapping screw, pan head, ST4.2x20

Optimise electrical networks
Improving power quality

To improve power quality, Schneider Electric proposes two power-factor correction systems, VarplusCan. Both are designed for optimum installation in PrismaSeT P.

DD385373.eps



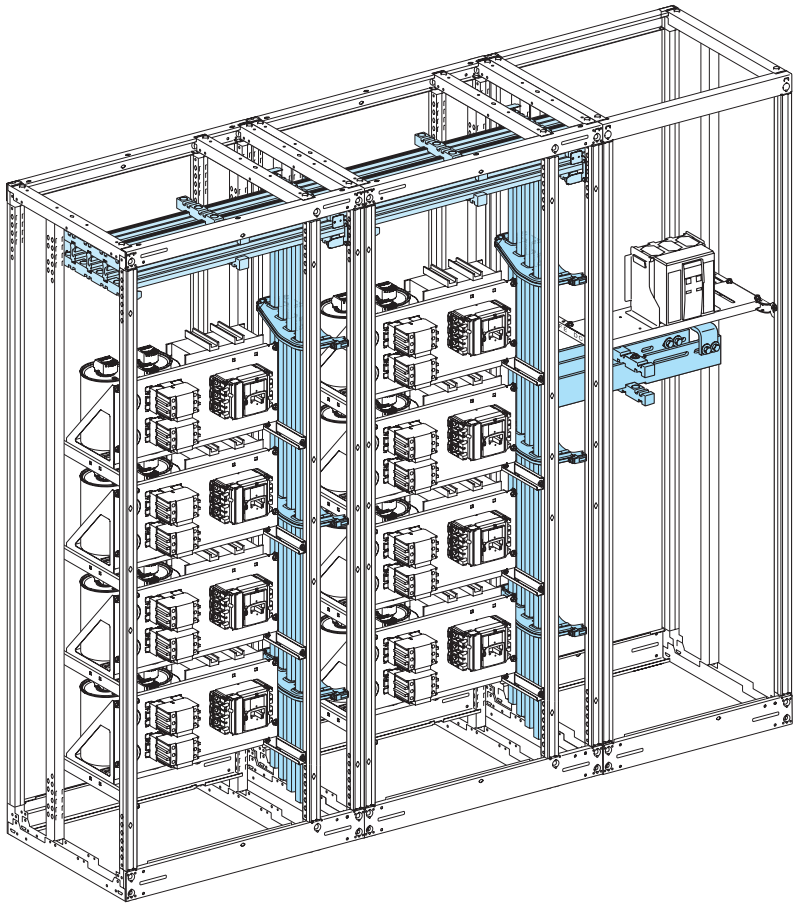
PrismaSeT P enclosures are designed for installation of the new VarplusCan power factor correction modules that improve the quality of the electrical distribution system and reduce consumption of reactive energy.
The modules are made up of capacitors, contactors and devices protecting against internal faults.

Installation

> page E-62 for information on installation in the enclosure.

The modules can be supplied by vertical busbars, e.g. Linergy.

DD385374.EPS

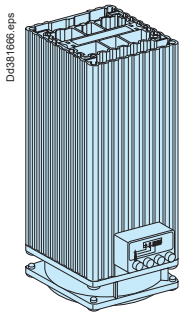


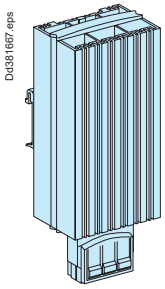
Optimise electrical networks

Additional equipment to optimise electrical installations

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



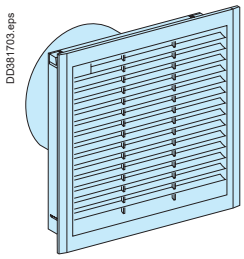


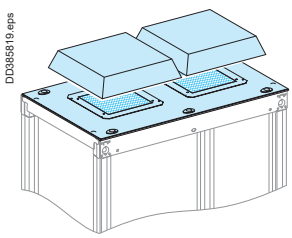
Heaters contribute to equipment optimisation by limiting condensation, corrosion and, above all, leakage currents along surfaces.

Installation and characteristics

> page F-33

Fans



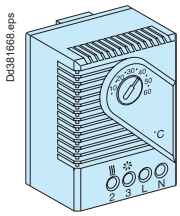


Several types of fans are available: enclosure wall or roof-mount versions. They are particularly useful for switchboards installed in temperate environments or when the degree of protection of the enclosure is high (IP55).

Installation and characteristics

> page F-32.

Thermostat

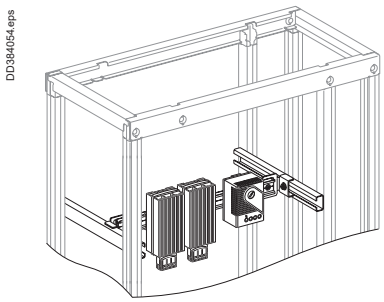


Thermostats are used to limit the temperature inside switchboards when heaters and fans are installed, thus reducing heat losses.

Installation and characteristics

> page F-34.

Installation



Heaters and thermostats simply clip onto a modular rail.

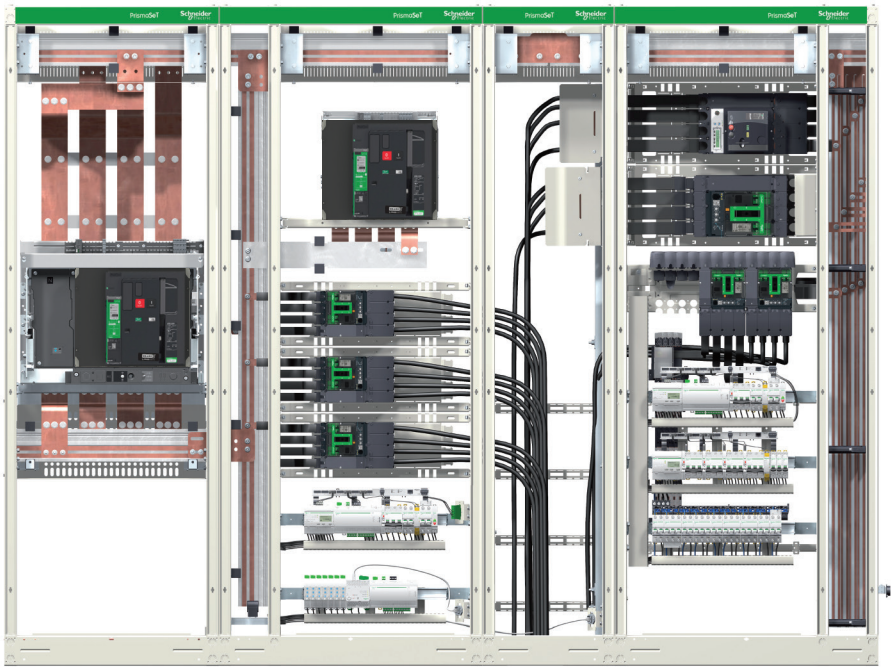
See Universal Enclosures catalog, cat. no. **UE12MK01EN**.

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).

PB116588.eps



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.

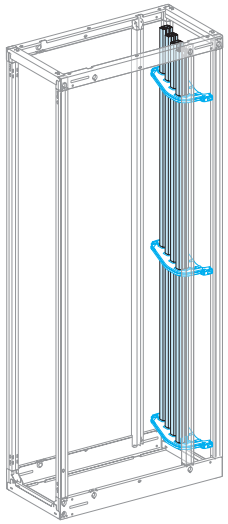
Number of circuits	Diversity factor
2 and 3	0,9
4 and 5	0,8
6 and 9	0,7
10 and more	0,6

- the degree of protection IP.
- the ambient temperature around the switchboard.

Designing PrismaSeT P power circuits
Presentation and approach

Busbars

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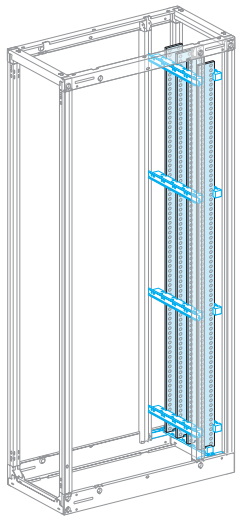


The maximum load current for a set of busbars is a function of the thermal environment.
The type and the size of the conductors must be determined in view of carrying the required currents taking into account the temperatures reached in the switchboard. These conductors are subjected to additional heat 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 **Linergy LGY busbars** or **Linergy LGYE** required
> pages I-12, I-14 and I-15.
They can be used to determine:
- the type of Linergy LGY busbars or Linergy LGYE, as a function of:
  - the current
  - the IP value
  - the ambient temperature around the switchboard
  - ICW/1s.

- Linergy LGY busbars: I ⩽ 1600 A
- Double Linergy LGY busbars: 1600 A < I ⩽ 3200 A
- Linergy LGYE busbars: ⩽ 4000 A.

DD381460.eps



To determine the required Linergy BS busbars:
horizontal busbars *> page I-13*
vertical busbars *> page I-16*.
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.

- Linergy BS copper busbars 5 mm thick: I ⩽ 1600 A.
- Linergy BS copper busbars 10 mm thick: I ⩽ 3200 A.

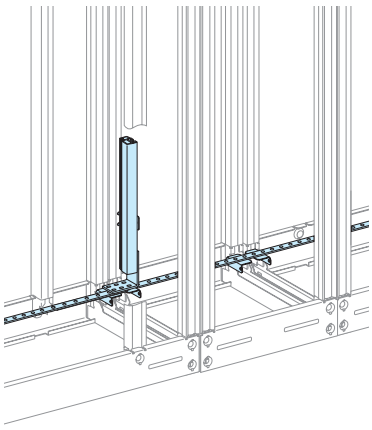
Connection of devices ⩾ 630 A and busbar connections

To determine the size of upstream and downstream connections for devices
> page I-39.
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 the PE protective conductor

DD381471.eps



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:

$$S_{PE} = \frac{\sqrt{I^2 t}}{k}$$

- SPE: cross-sectional area of the PE in mm²
- I: value of the phase-to-earth fault current = 60 % of the value of the phasetophase 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:

- IIsc = 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 x 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:

$$S_{PE} = \frac{\sqrt{21600^2 \times 0{,}5}}{143} = 106{,}8\ mm^2$$

The PE conductor must therefore be a 25 x 5 mm bar (= 125 mm2).

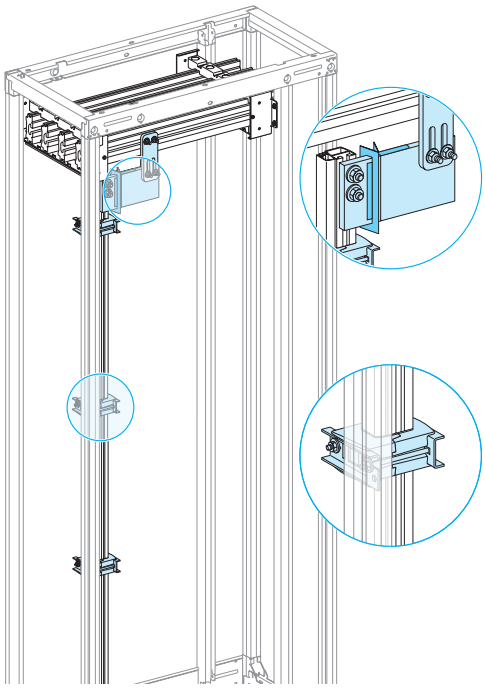
Simplified method (based on the equation above)

Use the table below to determine the size of the PE conductor as a function of device short-circuit current Isc.

Size of PE conductor	All Schneider Electric devices	
Icc ≤ 40 kA	1 Linergy BS bar, 25 x 5 mm	
Icc ≤ 65 kA	1 Linergy BS bar, 50 x 5 mm	Linergy LGY 630 - **LVS04502**
Icc > 65 kA but < 80 kA	1 Linergy BS bar, 50 x 5 mm	Linergy LGY 800 - **LVS04503**
Icc = 100 kA	1 Linergy BS bar, 50 x 5 mm	Linergy LGY 1000 - **LVS04505**

Implementing the PEN protective conductor

DD384616.eps



The size of the PEN is determined in the same manner as a neutral conductor, i.e.:
- for copper single-phase circuits or sized ≤ 16mm², it must be the same size as the phase conductors
- for copper three-phase circuits sized > 16 mm², 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-39

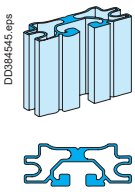
Designing horizontal busbars
Linergy LGYE

Permissible current and selection of Linergy LGYE busbars
Up to 4000 A

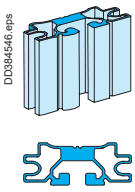
Linergy LGYE section

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
Linergy LGYE 630	680	580	650	550	630	530	590	500	550	470	520	■
Linergy LGYE 800	860	740	830	710	800	680	750	630	700	600	660	■
Linergy LGYE 1000	1080	920	1040	884	1000	850	940	790	880	750	830	■
Linergy LGYE 1250	1350	1150	1300	1100	1250	1050	1170	1000	1100	930	1020	■
Linergy LGYE 1600	1730	1580	1690	1530	1650	1480	1550	1380	1450	1300	1350	■
Linergy LGYE 2000	2200	1810	2100	1730	2000	1650	1900	1560	1810	1480	1720	■
Linergy LGYE 2500	2640	2230	2540	2160	2440	2100	2310	2000	2240	1930	2120	■
Linergy LGYE 3200	3400	3020	3300	2900	3200	2800	3040	2660	2890	2520	2750	■
Linergy LGYE 4000	3800	3510	3710	3430	3620	3350	3450	3180	3280	3020	3120	■

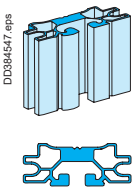
■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.



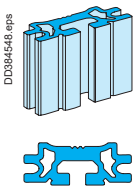
Section 630 A.
Cat. No. LVS04560.



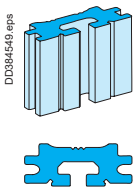
Section 800 A.
Cat. No. LVS04561.



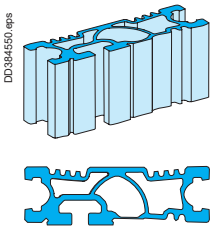
Section 1000 A.
Cat. No. LVS04562.



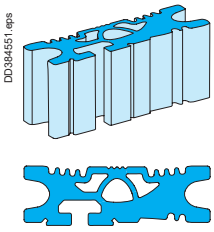
Section 1250 A.
Cat. No. LVS04563.



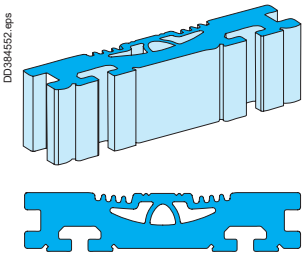
Section 1600 A.
Cat. No. LVS04564.



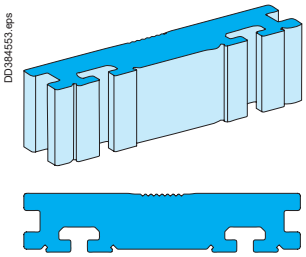
Section 2000 A.
Cat. No. LVS04565.



Section 2500 A.
Cat. No. LVS04566.



Section 3200 A.
Cat. No. LVS04567.



Section 4000 A.
Cat. No. LVS04568.

Designing horizontal busbars
Linergy BS

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

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, 50 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	■
2 Linergy BS bars, 100 x 10	3650	3280	3490	3100	3300	2900	3130	2720	2950	2510	2750	■
2 Linergy 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
Linergy LGY

Permissible current and selection of Linergy LGY busbars

The goal is to optimise busbar size according to the installation and operating criteria.

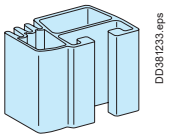
Up to 3200 A

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	■
Linergy LGY 2000 (2 x 1000)	2200	2000	2100	1900	2000	1820	1900	1720	1820	1620	1720	■
Linergy LGY 2500 (2 x 1250)	2740	2500	2620	2380	2500	2260	2380	2120	2260	2020	2120	■
Linergy LGY 3200 (2 x 1600)	3480	3200	3340	3060	3200	2920	3060	2780	2920	2640	2780	■

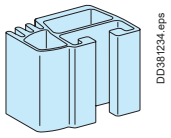
■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Example:
A Linergy 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.



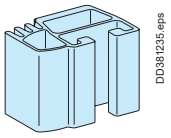


Section 630 A.
Cat. No. LVS04502.



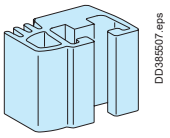


Section 800 A.
Cat. No. LVS04503.



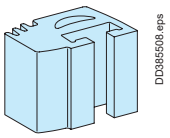


Section 1000 A.
Cat. No. LVS04504.





Section 1250 A.
Cat. No. LVS04505.





Section 1600 A.
Cat. No. LVS04506.

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

Designing vertical busbars
Linergy LGYE

Electrical characteristics

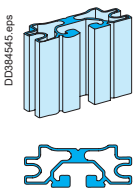
Permissible current and selection of Linergy LGYE busbars

Up to 4000 A

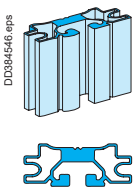
Linergy LGYE section

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
Linergy LGYE 630	680	580	650	550	630	530	590	500	550	470	520	■
Linergy LGYE 800	860	740	830	710	800	680	750	630	700	600	660	■
Linergy LGYE 1000	1080	920	1040	884	1000	850	940	790	880	750	830	■
Linergy LGYE 1250	1350	1150	1300	1100	1250	1050	1170	1000	1100	930	1020	■
Linergy LGYE 1600	1730	1580	1690	1530	1650	1480	1550	1380	1450	1300	1350	■
Linergy LGYE 2000	2200	1810	2100	1730	2000	1650	1900	1560	1810	1480	1720	■
Linergy LGYE 2500	2640	2230	2540	2160	2440	2100	2310	2000	2240	1930	2120	■
Linergy LGYE 3200	3400	3020	3300	2900	3200	2800	3040	2660	2890	2520	2750	■
Linergy LGYE 4000	3800	3510	3710	3430	3620	3350	3450	3180	3280	3020	3120	■

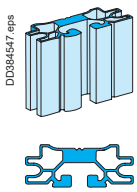
■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.



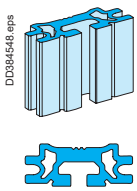
Section
630 A.
Cat. No. LVS04560.



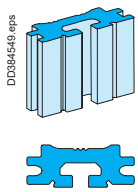
Section 800 A.
Cat. No. LVS04561.



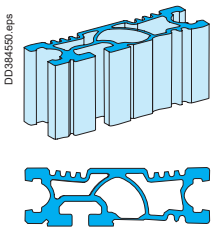
Section 1000 A.
Cat. No. LVS04562.



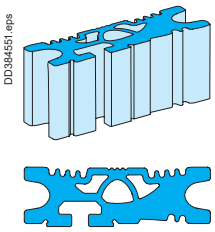
Section 1250 A.
Cat. No. LVS04563.



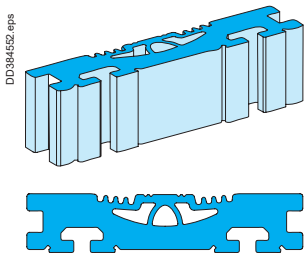
Section 1600 A.
Cat. No. LVS04564.



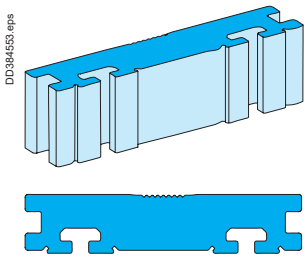
Section 2000 A.
Cat. No. LVS04565.



Section 2500 A.
Cat. No. LVS04566.



Section 3200 A.
Cat. No. LVS04567.



Section 4000 A.
Cat. No. LVS04568.

Designing vertical busbars
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 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	■
1 Linergy BS bar, 100 x 10	2370	2150	2260	2030	2150	1900	2030	1780	1900	1650	1780	■
2 Linergy BS bars, 50 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	■
2 x 1 Linergy BS bar, 80 x 10	3540	3200	3370	3020	3200	2820	3020	2650	2840	2450	2650	■
2 Linergy BS bars, 100 x 10	3650	3280	3490	3100	3300	2900	3130	2720	2950	2510	2750	■
2 Linergy 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	■

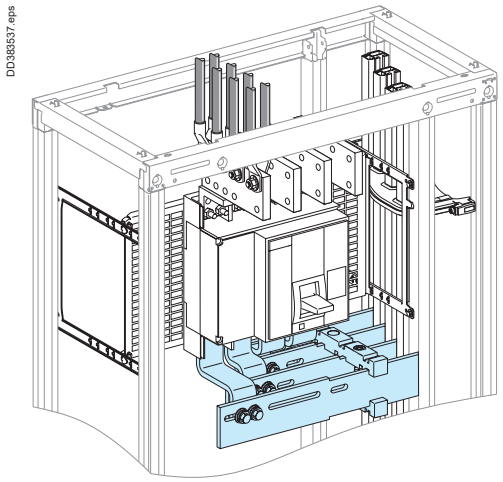
■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

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

ComPacT NS630b to NS1600
Vertical mounting

Front or rear connection
Top or bottom incoming
Vertical busbars on the left or right
Linergy 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 Linergy 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	■
	4P cat. no. **LVS04486**												
NS800	3P cat. no. **LVS04485**	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	■
	4P cat. no. **LVS04486**												
NS1250	3P cat. no. **LVS04485**	1250	1250	1250	1250	1250	1250	1250	1200	1250	1150	1200	■
	4P cat. no. **LVS04486**												
NS1600	3P cat. no. **LVS04487**	1600	1550	1600	1500	1550	1450	1500	1400	1450	1350	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	■
	4P cat. no. **LVS04478**												
NS800	3P cat. no. **LVS04477**	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	■
	4P cat. no. **LVS04478**												
NS1250	3P cat. no. **LVS04477**	1250	1250	1250	1250	1250	1250	1250	1200	1250	1150	1200	■
	4P cat. no. **LVS04478**												
NS1600	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 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 (**LVS**04488) is 1450 A.

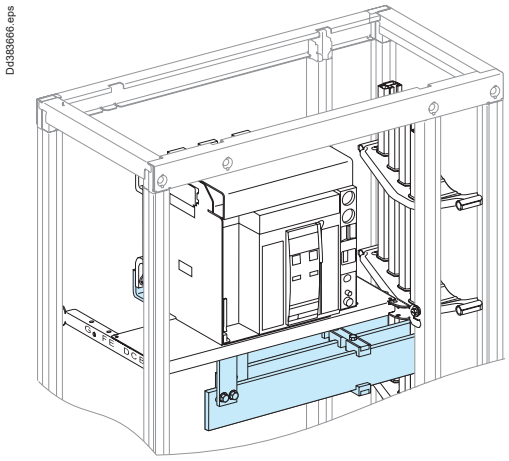
Designing connections between a device and busbars

Prefabricated connections for MasterPact 06-16

Electrical characteristics

MasterPact NT 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
Linergy LGY busbars



Using the data below, it is possible to determine the permissible current for a prefabricated connection between a vertical MasterPact NT06/NT16, fixed or drawout, and Linergy 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** 4P cat. no. **LVS04476**	630	630	630	630	630	630	630	630	630	630	630	■
NT08 & MTZ1	3P cat. no. **LVS04475** 4P cat. no. **LVS04476**	800	800	800	800	800	800	800	800	800	800	800	■
NT10 & MTZ1	3P cat. no. **LVS04475** 4P cat. no. **LVS04476**	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	■
NT12 & MTZ1	3P cat. no. **LVS04475** 4P cat. no. **LVS04476**	1250	1250	1250	1250	1250	1250	1250	1200	1250	1150	1200	■
NT16 & MTZ1	3P cat. no. **LVS04489** 4P cat. no. **LVS04490**	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.

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** 4P cat. no. **LVS04478**	630	630	630	630	630	630	630	630	630	630	630	■
NT08 & MTZ1	3P cat. no. **LVS04477** 4P cat. no. **LVS04478**	800	800	800	800	800	800	800	800	800	800	800	■
NT10 & MTZ1	3P cat. no. **LVS04477** 4P cat. no. **LVS04478**	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	■
NT12 & MTZ1	3P cat. no. **LVS04477** 4P cat. no. **LVS04478**	1250	1250	1250	1250	1250	1250	1250	1200	1250	1150	1200	■
NT16 & MTZ1	3P cat. no. **LVS04491** 4P cat. no. **LVS04492**	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.

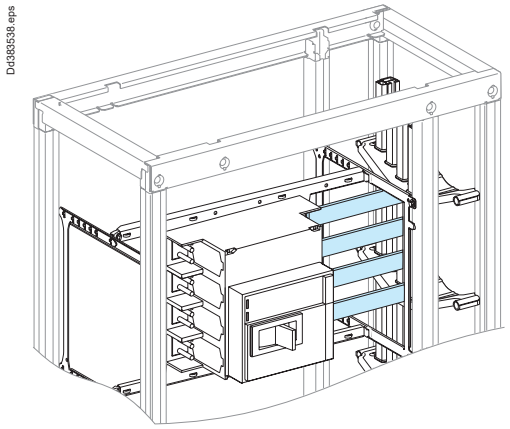
Example:
For a drawout MasterPact NT16 , 4P, where the ambient temperature around the switchboard is 35°C and the IP > 31: the maximum permissible current for the prefabricated connection (**LVS**04492) is 1380 A.

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

ComPacT NS630b à NS1000
Horizontal mounting

Front or rear connection
Left or right incoming
Linergy 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 Linergy 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. **LVS04473**	630	630	630	630	630	630	630	630	630	630	630	■
	4P cat. no. **LVS04474**												
NS800	3P cat. no. **LVS04473**	800	800	800	800	800	800	800	800	800	800	800	■
	4P cat. no. **LVS04474**												
NS1000	3P cat. no. **LVS04473**	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	■
	4P cat. no. **LVS04474**												

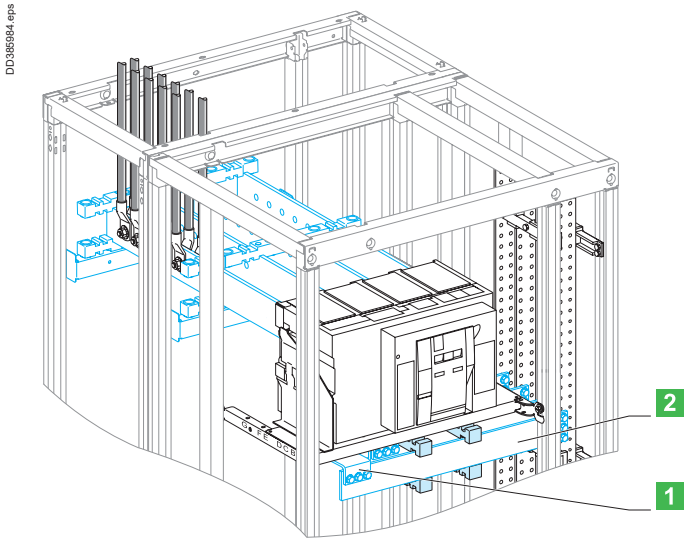
■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

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

Designing connections between a device and busbars
Fixed MasterPact 08-16

MasterPact NW 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 NW08/16, 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

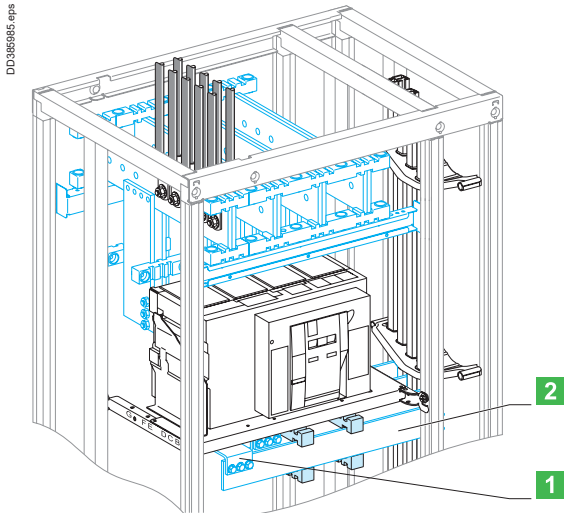
Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
NW08 & MTZ2	Size per phase	1b 80 x 5	1b 80 x 5	1b 80 x 5	1b 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

MasterPact NW 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 NW08/32, 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	■
	I (A)	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	■
	I (A)	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	■
	I (A)	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	■
	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	■
	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	■
	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	■
	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	■
	I (A)	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	■
	I (A)	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	■
	I (A)	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	■
	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	■
	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	■
	I (A)	2500	2500	2500	2500	2500	2460	2500	2380	2500	2300	2460	
NW32 & MTZ2	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)	3200	3000	3170	2910	3080	2820	3000	2730	2910	2630	2820	

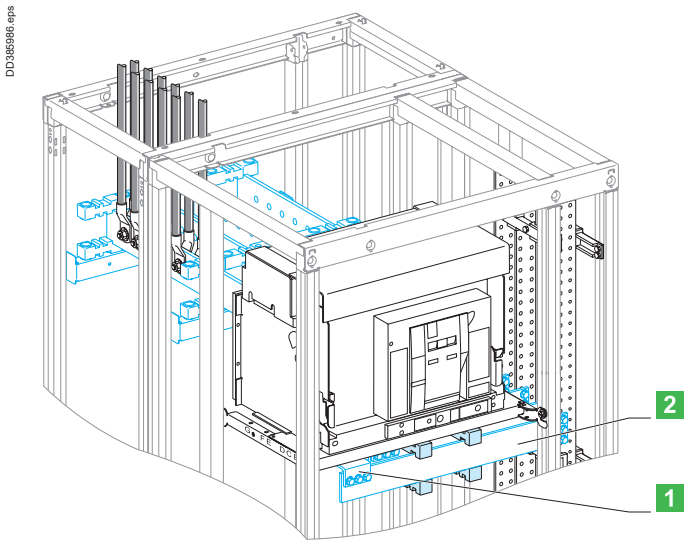
■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

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

Designing connections between a device and busbars
Drawout MasterPact 08-16

MasterPact NW 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 NW08/16, 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.

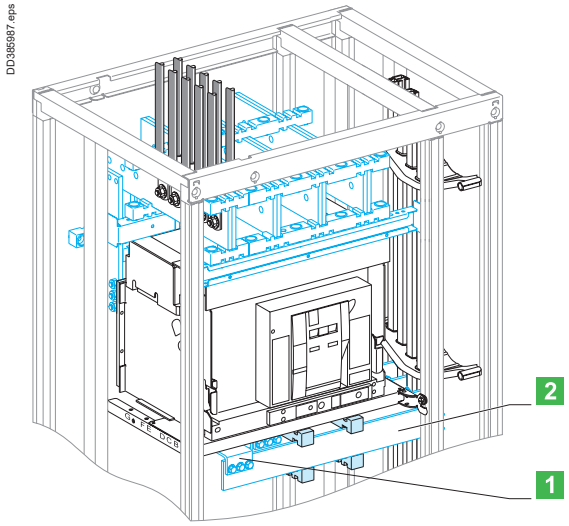
Note: the values indicated above have been validated for PrismaSeT P switchboards.

Designing connections between a device and busbars
Drawout MasterPact 08-32

Electrical characteristics

MasterPact NW 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 NW08/32, 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	■
	I (A)	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	■
	I (A)	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	■
	I (A)	1250	1250	1250	1210	1250	1180	1210	1140	1180	1100	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	■
	I (A)	1560	1480	1520	1430	1480	1380	1430	1330	1380	1280	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	■
	I (A)	2000	2000	2000	1950	2000	1900	1950	1830	1900	1760	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	■
	I (A)	2470	2280	2410	2210	2350	2140	2280	2070	2210	2000	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	■
	I (A)	2960	2730	2890	2630	2820	2530	2730	2450	2630	2370	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	■
	I (A)	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	■
	I (A)	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	■
	I (A)	1250	1250	1250	1210	1250	1180	1210	1140	1180	1100	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	■
	I (A)	1560	1480	1520	1430	1480	1380	1430	1330	1380	1280	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	■
	I (A)	2000	2000	2000	1950	2000	1900	1950	1830	1900	1760	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	■
	I (A)	2470	2280	2410	2210	2350	2140	2280	2070	2210	2000	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	■
	I (A)	2960	2730	2890	2630	2820	2530	2730	2450	2630	2370	2530	

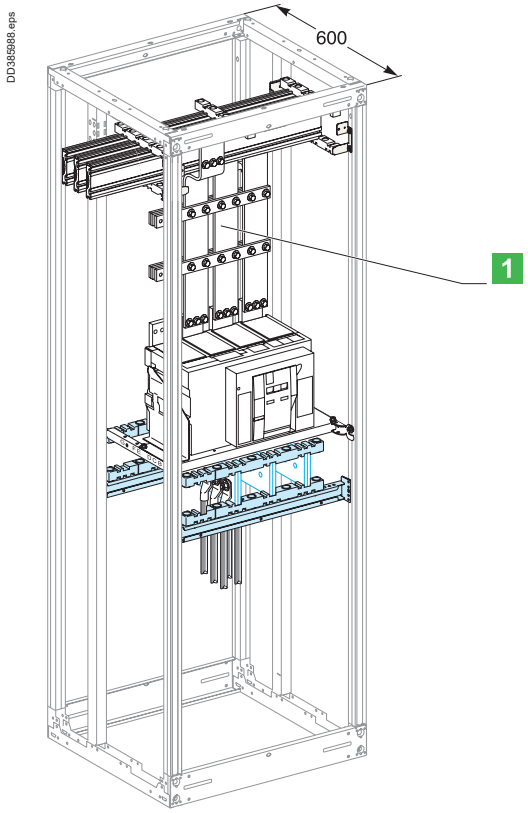
■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

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

MasterPact NW 08 to 32
MasterPact MTZ2 08 to 32
Fixed

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	■
	I (A)	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	■
	I (A)	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	■
	I (A)	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	■
	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	■
	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	■
	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	■
	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.

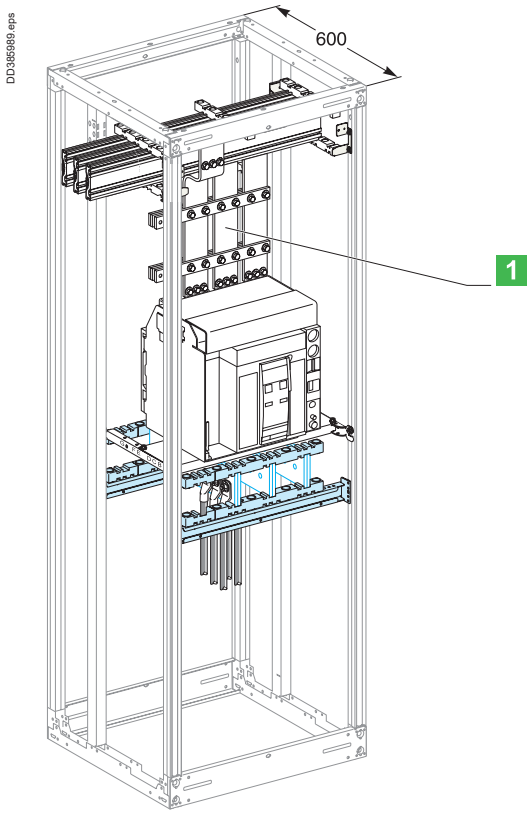
Note: contact Schneider Electric for 4000 A dedicated cubicle

Designing connections between a device and busbars
Dedicated cubicle
Drawout MasterPact 08-32

Electrical characteristics

MasterPact NW 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	■
	I (A)	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	■
	I (A)	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	■
	I (A)	1250	1250	1250	1210	1250	1180	1210	1140	1180	1100	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	■
	I (A)	1560	1480	1520	1430	1480	1380	1430	1330	1380	1280	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	■
	I (A)	2000	2000	2000	1950	2000	1900	1950	1830	1900	1760	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	■
	I (A)	2470	2280	2410	2210	2350	2140	2280	2070	2210	2000	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	■
	I (A)	2960	2730	2890	2630	2820	2530	2730	2450	2630	2370	2530	

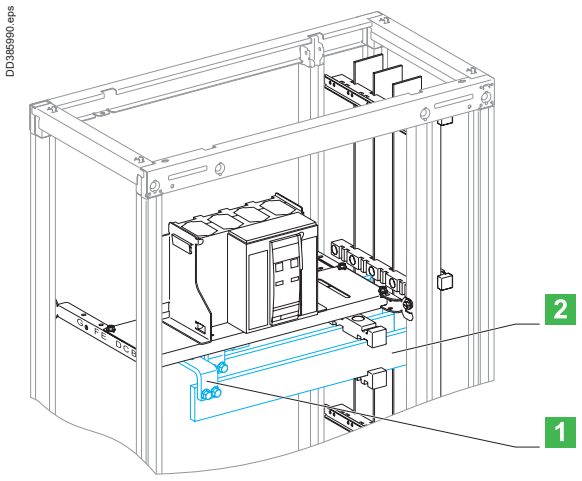
■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Note: contact Schneider Electric for 4000 A dedicated cubicle

Designing connections between a device and busbars
Fixed MasterPact 06-16

MasterPact NT 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 NT06/NT16, 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

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	■
	I (A)	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	■
	I (A)	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	■
	I (A)	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	■
	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	■
	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

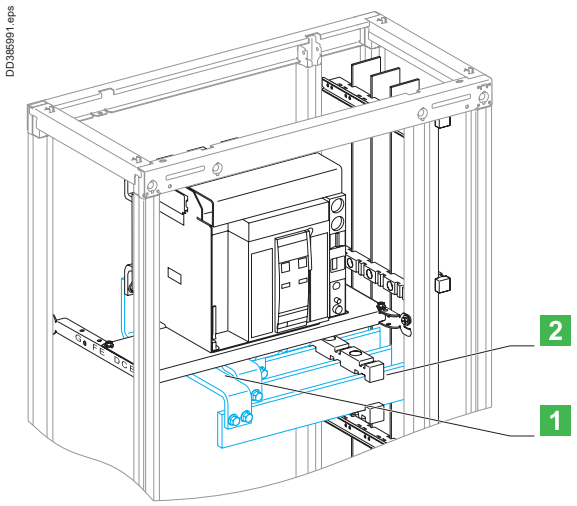
Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
NT06 & MTZ1	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	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	■
	I (A)	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	■
	I (A)	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	■
	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	■
	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	■
	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

MasterPact NT 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 NT06/NT16, 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

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	■
	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	■
	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	■
	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	■
	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	■
	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

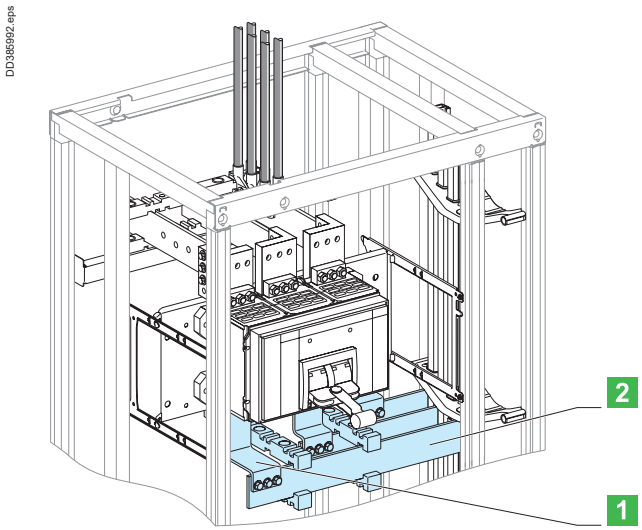
Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
NT06	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 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	■
	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	■
	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	■
	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	■
	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	■
	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

ComPacT NS1600b/3200 Fixed

Vertical busbars on the left or right
Linergy LGY busbars, BS
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 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

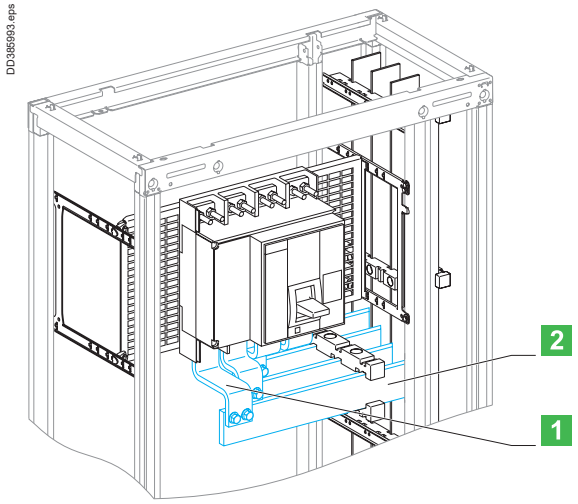
Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
NS1600b	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 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	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)	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

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

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	970	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	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1180	1230	1130	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	■
	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, 10 mm thick

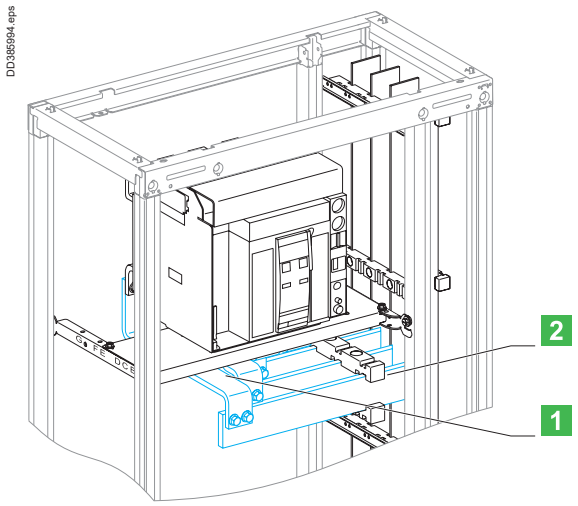
Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
NS630b	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 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	970	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	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1180	1230	1130	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	■
	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 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

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

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 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 x 10	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	
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	■
	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

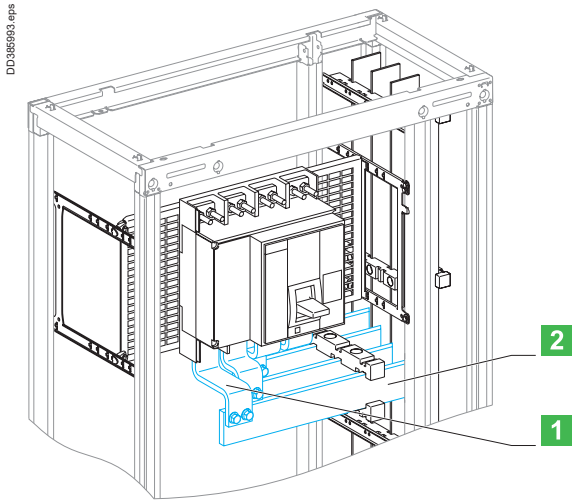
Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
NS630b	Size per phase	1b 50 x 10	1b 50 x 10	1b 50 x 10	1b 50 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	970	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	■
	I (A)	1250	1250	1250	1250	1250	1210	1250	1160	1210	1110	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	■
	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 INS-INV630b to 2500

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	■
	I (A)	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	■
	I (A)	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	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	970	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	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1200	1250	1150	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	■
	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
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	■
	I (A)	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	■
	I (A)	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	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	970	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	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1200	1250	1150	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	■
	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.

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

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	■
	I (A)	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	■
	I (A)	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	■
	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	■
	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	■
	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	■
	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	■
	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	■
	I (A)	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	■
	I (A)	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	■
	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	■
	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	■
	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	■
	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	■
	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.

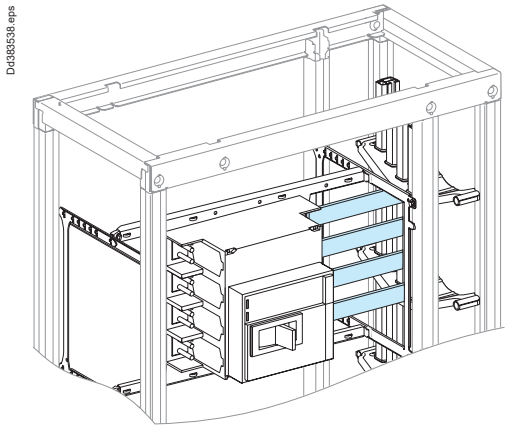
Designing connections between a device and busbars

Horizontal, fixed

ComPacT NS630b to NS1000

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	■
	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	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	
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	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.

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 Isc 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 Ui = 1000 V
- ■ impulse withstand voltage Uimp = 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	Linergy FM 200 A	Linergy FC 3P	Linergy FC 4P
S (mm)	20 x 3	32 x 8	32 x 8

Connection of disconnectors, Linergy 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 (1)

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
IP ⩽ 31							
NSX100 TMD-TMG	Size per phase	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2
	I_{nc} (A)	100	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_{nc} (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_{nc} (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_{nc} (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_{nc} (A)	100	100	100	100	100	100
NSX160 STR	Size per phase	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3
	I_{nc} (A)	160	160	160	160	160	160
NSX250 (3) STR	Size per phase	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3
	I_{nc} (A)	250	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_{nc} (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_{nc} (A)	400	390	380	370	360	350
NSX400B/F/N/H/S/L withdrawable	Size per phase	32 x 5	32 x 5	32 x 5	32 x 5	32 x 5	32 x 5
	I_{nc} (A)	400	390	380	370	360	350
NSX630B/F/N/H/S/L fixed	Size per phase	32 x 6	32 x 6	32 x 6	32 x 6	32 x 6	32 x 6
	I_{nc} (A)	630	615	600	585	570	550
NSX630B/F/N/H/S/L with Vigi or withdrawable 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_{nc} (A)	570	550	535	520	505	490
IP > 31							
NSX100 TMD-TMG	Size per phase	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2
	I_{nc} (A)	100	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_{nc} (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_{nc} (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_{nc} (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_{nc} (A)	100	100	100	100	100	100
NSX160 STR	Size per phase	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3
	I_{nc} (A)	160	160	160	160	160	160
NSX250 (3) STR	Size per phase	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3
	I_{nc} (A)	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_{nc} (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_{nc} (A)	400	390	380	370	360	350
NSX400B/F/N/H/S/L withdrawable	Size per phase	32 x 5	32 x 5	32 x 5	32 x 5	32 x 5	32 x 5
	I_{nc} (A)	400	390	380	370	360	350
NSX630B/F/N/H/S/L fixed	Size per phase	32 x 6	32 x 6	32 x 6	32 x 6	32 x 6	32 x 6
	I_{nc} (A)	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_{nc} (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 In values by 0.9 .
(3) For a withdrawable NSX250 equipped with Vigi or NSX Vigi 250 (ELCB) or an insulation-monitoring module, multiply the In 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 ⩽ 630 A
ComPacT circuit breakers NSX100 to NSX250
Copper cable

Cables: pratical 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 ⩽ 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 ⩾ 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
IP ⩽ 31							
NSX100 TMD-TMG	Size per phase	50 mm²	50 mm²	50 mm²	50 mm²	50 mm²	50 mm²
	I_{nc} (A)	100	100	100	97.5	95	92.5
NSX125 TMD-TMG	Size per phase	70 mm²	70 mm²	70 mm²	70 mm²	70 mm²	70 mm²
	I_{nc} (A)	125	125	125	122	119	115
NSX160 (1) TMD-TMG	Size per phase	95 mm²	95 mm²	95 mm²	95 mm²	95 mm²	95 mm²
	I_{nc} (A)	160	160	160	156	152	148
NSX250 (1) TMD-TMG	Size per phase	120 mm²	120 mm²	120 mm²	120 mm²	120 mm²	120 mm²
	I_{nc} (A)	250	244	238	231	225	219
NSX100 STR	Size per phase	50 mm²	50 mm²	50 mm²	50 mm²	50 mm²	50 mm²
	I_{nc} (A)	100	100	100	100	100	100
NSX160 STR	Size per phase	95 mm²	95 mm²	95 mm²	95 mm²	95 mm²	95 mm²
	I_{nc} (A)	160	160	160	160	160	160
NSX250 (2) STR	Size per phase	120 mm²	120 mm²	120 mm²	120 mm²	120 mm²	120 mm²
	I_{nc} (A)	250	245	237	230	225	220
IP > 31							
NSX100 TMD-TMG	Size per phase	50 mm²	50 mm²	50 mm²	50 mm²	50 mm²	50 mm²
	I_{nc} (A)	100	100	100	97.5	95	92.5
NSX125 TMD-TMG	Size per phase	70 mm²	70 mm²	70 mm²	70 mm²	70 mm²	70 mm²
	I_{nc} (A)	125	125	125	122	119	115
NSX160 (1) TMD-TMG	Size per phase	95 mm²	95 mm²	95 mm²	95 mm²	95 mm²	95 mm²
	I_{nc} (A)	160	160	160	156	152	148
NSX250 (1) TMD-TMG	Size per phase	120 mm²	120 mm²	120 mm²	120 mm²	120 mm²	120 mm²
	I_{nc} (A)	237	230	225	220	215	210
NSX100 STR	Size per phase	50 mm²	50 mm²	50 mm²	50 mm²	50 mm²	50 mm²
	I_{nc} (A)	100	100	100	100	100	100
NSX160 STR	Size per phase	95 mm²	95 mm²	95 mm²	95 mm²	95 mm²	95 mm²
	I_{nc} (A)	160	160	160	160	160	160
NSX250 (2) STR	Size per phase	120 mm²	120 mm²	120 mm²	120 mm²	120 mm²	120 mm²
	I_{nc} (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 In 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 In 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-40*.

Designing connections ⩽ 630 A
ComPacT circuit breakers NSXm up to 160
Copper cable

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
IP ⩽ 31							
NSXm100	Size per phase (mm²)	50	50	50	50	50	50
	I_{nc} (A)	100	100	96	94	90	87
NSXm125	Size per phase (mm²)	70	70	70	70	70	70
	I_{nc} (A)	125	125	120	117	113	109
NSXm160	Size per phase (mm²)	95	95	95	95	95	95
	I_{nc} (A)	160	155	149	144	139	133
NSXm 100 ELCB	Size per phase (mm²)	50	50	50	50	50	50
	I_{nc} (A)	100	100	100	100	96	93
NSXm 160 ELCB	Size per phase (mm²)	95	95	95	95	95	95
	I_{nc} (A)	160	155	150	145	140	135
IP > 31							
NSXm100	Size per phase (mm²)	50	50	50	50	50	50
	I_{nc} (A)	100	100	96	94	90	87
NSXm125	Size per phase (mm²)	70	70	70	70	70	70
	I_{nc} (A)	125	120	117	113	109	104
NSXm160	Size per phase (mm²)	95	95	95	95	95	95
	I_{nc} (A)	160	155	149	144	139	133
NSXm 100 ELCB	Size per phase (mm²)	50	50	50	50	50	50
	I_{nc} (A)	100	100	100	100	96	93
NSXm 160 ELCB	Size per phase (mm²)	95	95	95	95	95	95
	I_{nc} (A)	160	155	150	145	140	135

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

Designing cable connections
Tubular lugs

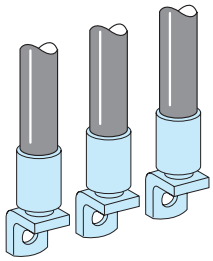
Electrical characteristics

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 mm²	240 mm²	185 mm²
In-duct incoming connection block for ComPacT NSX630 supplied via the top or the bottom cat. no. LVS04076	240 mm²	300 mm²	300 mm²

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Narrow bimetal lugs

Cat. no. selection

Cat. no.	*Cable size (mm²)*	*Quantity*
Lugs for aluminium cable (1)		
29504	150	3
29505	150	4
29506	185	3
29507	185	4
32504	240	3
32505	240	4
32506	300	3
32507	300	4

Customer connection of devices ⩾ 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 NT/NW and NT devices.

	Cable size (mm²)	*Quantity*
Size and number of cables		
Copper lugs	300	12
Bimetal lugs	240	12

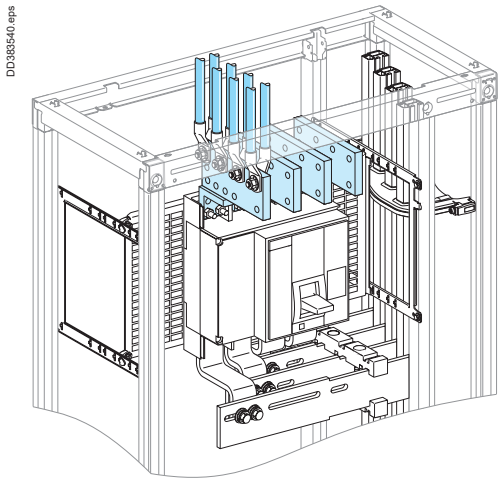
(1) Supplied with 2 or 3 interphase barriers.

Designing customer connections

Prefabricated connections for ComPacT NS630b to NS1600

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. **33642**	630	630	630	630	630	630	630	630	630	630	630	■
	4P cat. no. **33643**												
NS800	3P cat. no. **33642**	800	800	800	800	800	800	800	800	800	800	800	■
	4P cat. no. **33643**												
NS1000	3P cat. no. **33642**	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	■
	4P cat. no. **33643**												
NS1250	3P réf.**33642 + 33644**	1250	1250	1250	1250	1250	1250	1250	1200	1250	1150	1200	■
	4P réf.**33643 + 33645**												
NS1600	3P réf.**33642 + 33644**	1600	1550	1600	1500	1550	1450	1500	1400	1450	1350	1400	■
	4P réf.**33643 + 33645**												

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Withdrawable

Prefabricated connections

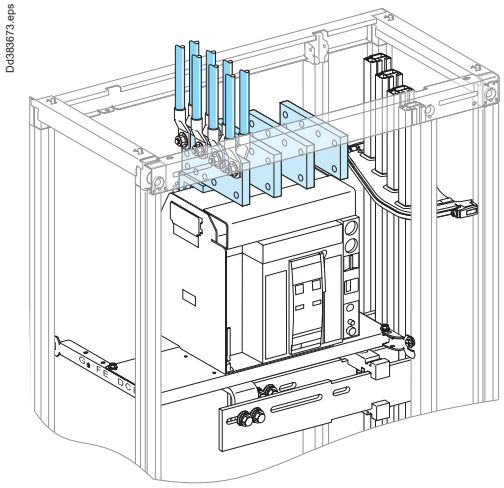
Device and cat. no.		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
NS630b	3P cat. no. **33642**	630	630	630	630	630	630	630	630	630	630	630	■
	4P cat. no. **33643**												
NS800	3P cat. no. **33642**	800	800	800	800	800	800	800	800	800	800	800	■
	4P cat. no. **33643**												
NS1000	3P cat. no. **33642**	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	■
	4P cat. no. **33643**												
NS1250	3P réf.**33642 + 33644**	1250	1250	1250	1250	1250	1250	1250	1200	1250	1150	1200	■
	4P réf.**33643 + 33645**												
NS1600	3P réf.**33642 + 33644**	1560	1480	1520	1430	1480	1380	1430	1330	1380	1280	1330	■
	4P réf.**33643 + 33645**												

■ 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

MasterPact NT 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 NT06/NT16, 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. **33642**	630	630	630	630	630	630	630	630	630	630	630	■
	4P cat. no. **33643**												
NT08	3P cat. no. **33642**	800	800	800	800	800	800	800	800	800	800	800	■
	4P cat. no. **33643**												
NT10	3P cat. no. **33642**	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	■
	4P cat. no. **33643**												
NT12	3P réf.**33642 + 33644**	1250	1250	1250	1250	1250	1250	1250	1200	1250	1150	1200	■
	4P réf.**33643 + 33645**												
NT16	3P réf.**33642 + 33644**	1600	1570	1600	1520	1570	1470	1520	1420	1470	1370	1420	■
	4P réf.**33643 + 33645**												

■ 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. **33642**	630	630	630	630	630	630	630	630	630	630	630	■
	4P cat. no. **33643**												
NT08	3P cat. no. **33642**	800	800	800	800	800	800	800	800	800	800	800	■
	4P cat. no. **33643**												
NT10	3P cat. no. **33642**	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	■
	4P cat. no. **33643**												
NT12	3P réf.**33642 + 33644**	1250	1250	1250	1250	1250	1250	1250	1200	1250	1150	1200	■
	4P réf.**33643 + 33645**												
NT16	3P réf.**33642 + 33644**	1560	1480	1520	1430	1480	1380	1430	1330	1380	1280	1330	■
	4P réf.**33643 + 33645**												

■ 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.

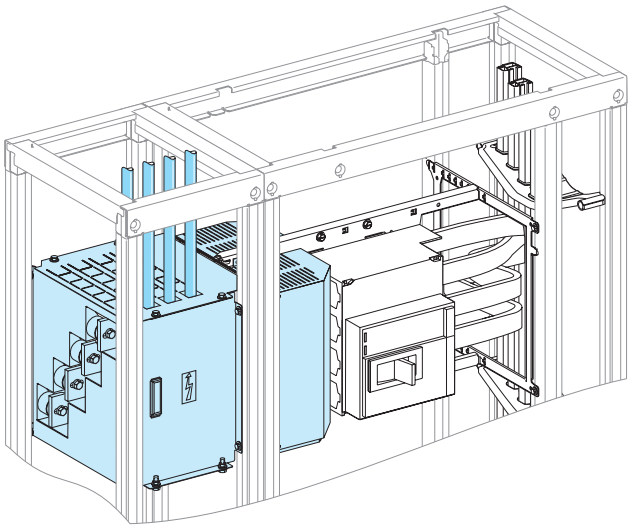
Designing customer connections

Connection transfer assembly for fixed ComPacT NS630b to NS1000

ComPacT NS630b to NS1000, fixed

Horizontal mounting
Front or rear connection
Installation on the left or right

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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

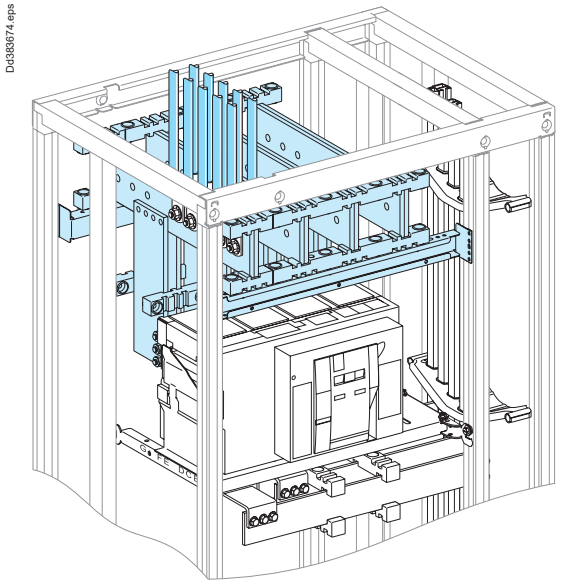
Device and cat. no.		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40°C		45 °C		50 °C	
		IP ⩽ 31	IP > 31	IP ⩽ 31	IP > 31	IP ⩽ 31	IP > 31	IP ⩽ 31	IP > 31	IP ⩽ 31	IP > 31	IP ⩽ 31	IP > 31
NS630b	3P cat. no. **LVS04483**	630	630	630	630	630	630	630	630	630	630	630	■
	4P cat. no. **LVS04484**												
NS800	3P cat. no. **LVS04483**	800	800	800	800	800	800	800	800	800	800	800	■
	4P cat. no. **LVS04484**												
NS1000	3P cat. no.**LVS04483**	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	■
	4P cat. no. **LVS04484**												

■ 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

MasterPact NW 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 NT06/NT16, 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-43.

Customer connection

Flat bars, 5 mm thick

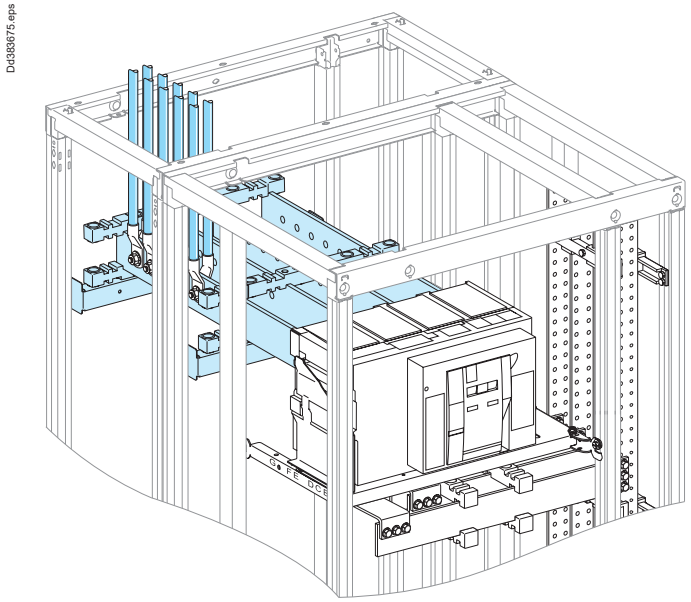
Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40°C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
NW08	Size per phase	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 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

MasterPact NW 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 x10	1b 60 x 10	1b 60 x10	1b 60 x 10	1b 60 x10	1b 60 x 10	1b 60 x10	1b 60 x 10	1b 60 x10	1b 60 x 10	■
	I (A)	800	800	800	800	800	800	800	800	800	800	800	
NW10	Size per phase	1b 60 x 10	1b 60 x10	1b 60 x 10	1b 60 x10	1b 60 x 10	1b 60 x10	1b 60 x 10	1b 60 x10	1b 60 x 10	1b 60 x10	1b 60 x 10	■
	I (A)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
NW12	Size per phase	1b 60 x 10	1b 60 x10	1b 60 x 10	1b 60 x10	1b 60 x 10	1b 60 x10	1b 60 x 10	1b 60 x10	1b 60 x 10	1b 60 x10	1b 60 x 10	■
	I (A)	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	■
	I (A)	1600	1600	1600	1570	1600	1520	1570	1470	1520	1420	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	■
	I (A)	2000	2000	2000	2000	2000	2000	2000	1950	2000	1900	1950	
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	■
	I (A)	2500	2500	2500	2500	2500	2460	2500	2380	2500	2300	2460	
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	■
	I (A)	3200	3000	3170	2910	3080	2820	3000	2730	2910	2630	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.

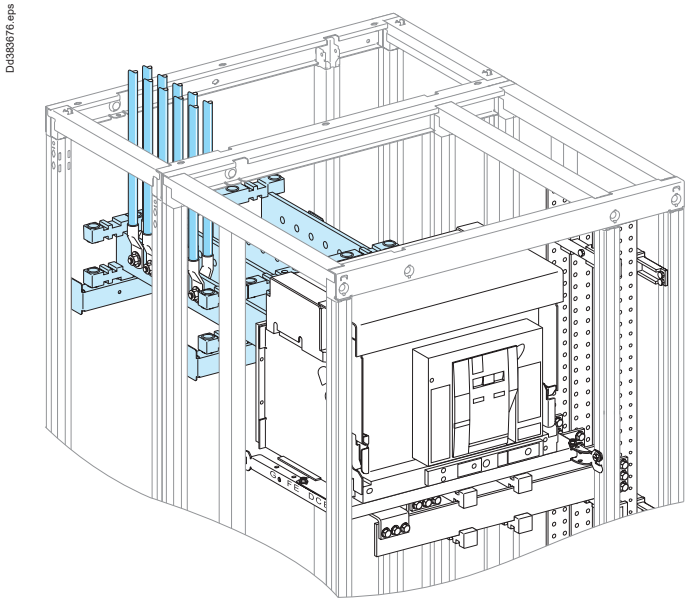
Device	NW08	NW10	NW12	NW16	NW20	NW25	NW32
Derating coefficient K	1	1	1	0,98	0,98	0,97	0,97

(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
Drawout MasterPact 08-16

MasterPact NW 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 NT08/NT16, 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-43.

Customer connection

Flat bars, 5 mm thick

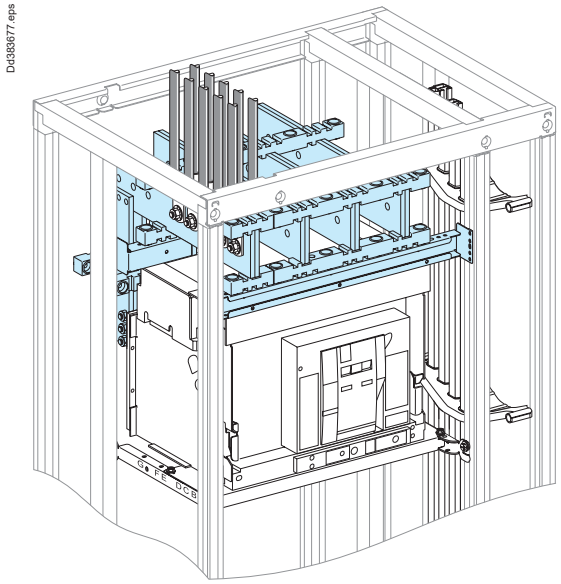
Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31
NW08	Size per phase	2b 60 x 5	2b 60 x 5	2b 60 x 5	2b 60 x 5	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	1230	1250	1200	1230	1160	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	■
	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.
Note: the values indicated above have been validated for PrismaSeT P switchboards.

Designing customer connections
MasterPact 08-40 withdrawable

MasterPact NW 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	■
	I (A)	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	■
	I (A)	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	■
	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	■
	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	■
	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	■
	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	■
	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)	■
	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.

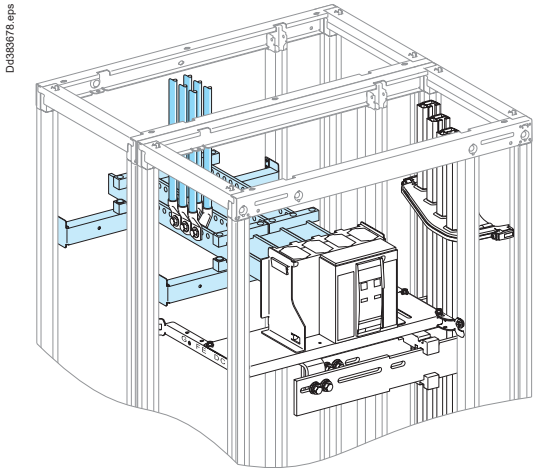
Device	NW08	NW10	NW12	NW16	NW20	NW25	NW32
Derating coefficient K	1	1	1	0,98	0,98	0,97	0,97

(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

MasterPact NT 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 NT06/NT16, 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-43.

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	■
	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	■
	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	■
	I (A)	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	■
	I (A)	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	■
	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	■
	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	■
	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	■
	I (A)	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	■
	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	■
	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

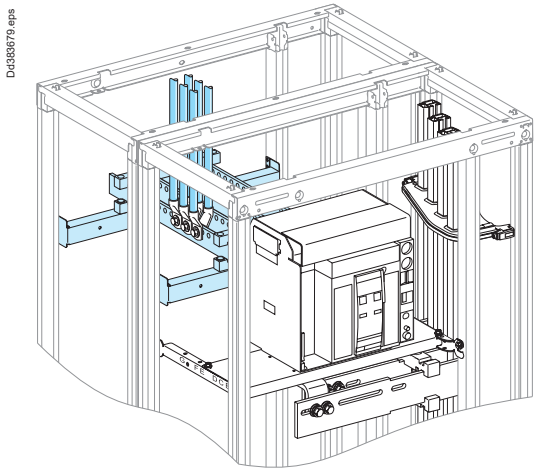
For Canalis connections, apply the appropriate derating coefficient K.

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

MasterPact NT 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 NT06/NT16, 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-43.

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	■
	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	■
	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	■
	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	■
	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	■
	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	■
	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	■
	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	■
	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	■
	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	■
	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.

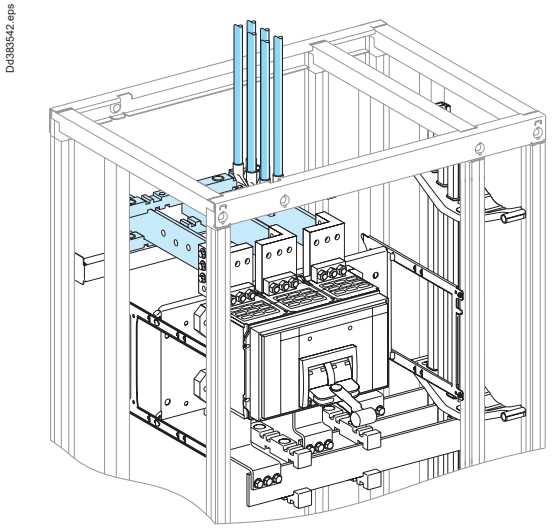
Device	NT06	NT08	NT10	NT12	NT16
Derating coefficient K	1	1	1	1	0,98

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

Designing customer connections
Fixed ComPacT NS1600b to NS3200

ComPacT NS1600b/3200 fixed

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, 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-43.

Customer connection

Flat bars, 10 mm thick

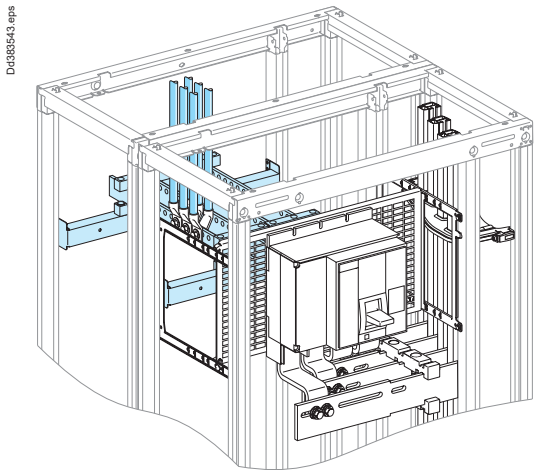
Device		Permissible current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40°C		45 °C		50 °C	
		IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP > 31	IP ≤ 31	IP>31
NS1600b	Size per phase	1b 80 x 10	1b 80 x 10	1b 80 x 10	1b 80 x 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

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-43.

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	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	■
	I (A)	1250	1250	1250	1250	1250	1250	1250	1200	1250	1150	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	■
	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.

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	970	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	1250	1250	1180	1230	1130	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	■
	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.

Canalis connection

For Canalis connections, apply the appropriate derating coefficient K.

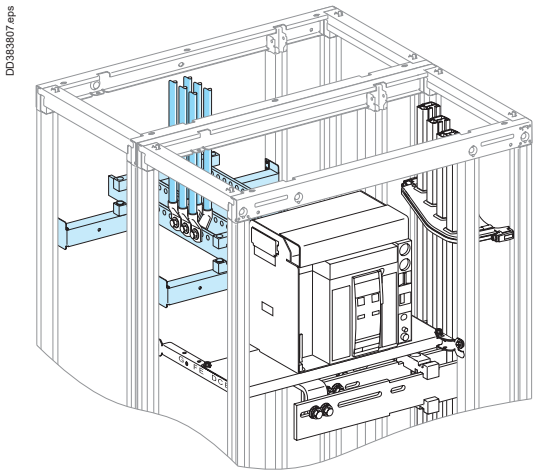
Device	NS630b	NS800	NS1000	NS1250	NS1600
Derating coefficient K	1	1	1	1	0,98

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

Designing customer connections
Withdrawable ComPacT NS630b to NS1600

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-43.

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.

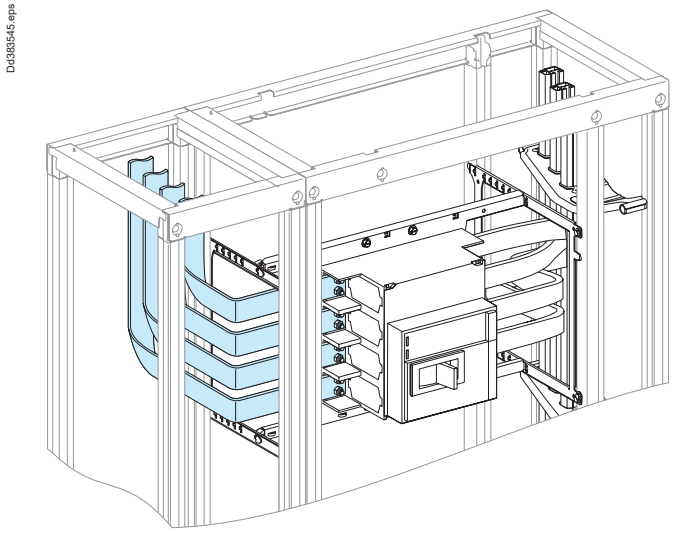
Device	NS630b	NS800	NS1000	NS1250	NS1600
Derating coefficient K	1	1	1	1	0,98

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

Designing customer connections
Fixed ComPacT NS630b to NS1000 Horizontal mounting

ComPacT NS630b to NS1000

Horizontal mounting
Front connection
Incoming via top or bottom
Installation on the left or right



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	■
	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	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	
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	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		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
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

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.

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.

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□/25■), 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	IP31/IK08	IP43/IK08	IP55/IK10
	IP	IK					
Domestic or comparable premises or locations							
Porch	24	07					■
Bathrooms (see washrooms)							
Bicycles, motorcycles, tricycles, etc. (premises for)	20	07	■				
Water, sewer and heating connections	23	02				■	
Laundries	21	02			■		
Cellars, garages, furnace rooms	20	02/07	■				
Bedrooms	20	02	■				
Trash rooms	25	07					■
Halls in cellars	20	07					
Courtyards	24/25	02/07					■
Kitchens	20	02	■				
Shower rooms (see washrooms)							
Indoor stairways and alleys	20	02/07	■				
Outdoor stairways and outdoor alleys without roofs	24	07					
Outdoor alleys with roofs	21	02			■		
Attics (roof space)	20	02	■				
Garden shelters	24/25	02/07					■
Latrines	20	02	■				
Dustbin rooms	25	02/07					■
Ironing room	20	02	■				
Access ramps to garages	25	07					■

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					
Commercial premises and adjoining areas								
Gunsmiths (storage area, workshop)		30	08		■			
Laundries (wash room)		24	07					■
Butchers	shop	24	07					■
	cold room ≤ -10 °C	23	07				■	
Bakers, cake shops (kitchens)		50	07					■
Coffee roasters		21	02			■		
Coal, wood, oil		20	08		■			
Delicatessen (production)		24	07					■
Sweets (production)		20	02	■				
Shoe repair shops		20	02	■				
Dairies		24	02					■
Hardware stores (storage areas for chemicals and paint)		33	07				■	
Wood workers		50	07					■
Art galleries		20	02/07	■				
Florists		24	07					■
Furriers		20	07	■				
Fruit and vegetable merchants		24	07					■
Grain shops		50	07					■
Bookshops, stationers		20	02	■				
Motorcycle and bicycle repairs and accessories		20	08		■			
Messenger services		20	08		■			
Furniture shops (antiques, secondhand)		20	07	■				
Glass and mirror merchants (workshop)		20	07	■				
Wallpaper shop (storage area)		20	07	■				
Cosmetics shop (storage area)		20	02	■				
Chemists (storage area)		20	02	■				
Photographers (dark room)		23	02				■	
Plumbers (storage area)		20	08		■			
Fishmongers		25	07					■
Dry cleaners		23	02				■	
Hardware stores (without paint, chemicals, etc.)		20	07	■				
Locksmiths		20	07▫/08▪	■	■			
Vintners, spirits		20	07	■				
Interior decorator (carding)		50	07					■
Tailors, clothing retailers (storage area)		20	02	■				
Pet care		35	07					■

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					
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	■ ■				
T	Exhibitions	halls and rooms	20	02	■				
		areas for reception of equipment and merchandise	20	07	■				
U	Healthcare establishments	bedrooms	20	02	■				
		incineration	21	07/08			■		
		operating rooms	20	07	■				
		centralised sterilisation	24	02/07					■
		pharmacies and labs with more than 10 l of inflammable liquids	21▫/23▪	02▫/07▪			■	■	
V	Places of worship		20	02	■				
W	Administrative premises, banks		20	02	■				
X	Indoor sports facilities	halls	20	07▫/08▪	■	■			
		premises containing refrigeration facilities	21	08			■		
Y	Museums		20	02	■				
PA	Covered open air facilities		23▫/25▪	08▫/10▪				■	■
CTS	Marquees and tents		44	08					■
SG	Inflatable structures		44	08					■
PS	Covered parking lots		21	08▫/10▪			■		■

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

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					
Farm premises or locations								
Alcohol (storage)		23	07				■	
Closed cattle sheds		35	07					■
Laundries		24	07					■
Wood storage rooms		30	10					■
Threshing floors		50	07					■
Distilling cellars		23	07				■	
Vat rooms (wine)		23	07				■	
Courtyards		35	07					■
Poultry barns		35	07					■
Stables		35	07					■
Fertiliser (storage)		50	07					■
Stables		35	07					■
Manure heaps		24	07					■
Haylofts		50	07					■
Haystacks, forage (storage)		50	07					■
Granaries, barns		50	07					■
Straw (storage)		50	07					■
Greenhouses		23	07				■	
Grain silos		50	07					■
Milking rooms		35	07					■
Pig sties		35	07					■
Chicken houses		35	07					■
Miscellaneous installations								
Fair facilities		33	08				■	
Water treatment facilities		24/25	07/08					■
Thermodynamic installations, air-conditioned rooms and cold rooms								
Height above ground	from 0 to 1.10 m	25	07					■
	from 1.10 to 2 m	24	07					■
	above 2 m under evaporator or water drain pipe	21	07			■		
	ceiling and up to 10 cm underneath	23	07				■	
Temperature ≤ -10 °C		23	07				■	
Compressor	room	21	08			■		
	integral unit located outside or on a terrace	34	08					

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

Selection of enclosures according to the premises

Enclosure characteristics

Type of premises	Enclosure						
	Cubicle		with fixed frame	with door + IP30 cover	with door + gasket + IP30 cover		with door + IP55 cover
	Min. IP/IK required		IP30/IK07	IP30/IK08	IP31/IK08	IP43/IK08	IP55/IK10
	IP	IK					
Industrial establishments (continued)							
Dairies	25	07					■
Public wash-houses	25	07					■
Liqueurs (production)	21	07			■		
Halogenated liquids (use)	21	08			■		
Inflammable products (storage and workshops where they are used)	21	08			■		
Magnesium (production, storage and use)	31	08			■		
Machine rooms	20	08		■			
Plastics (production)	51	08					■
Cabinet makers	50	08					■
Metals (processing)	31▫/33▪	08			■	■	
Combustion engines (testing of)	30	08		■			
Ammunition storage	33	08				■	
Nickel (or processing)	33	08				■	
Household waste (processing)	54	07					■
Paper (production)	33▫/34▪	07			■	■	■
Paper (storage)	31	07			■		
Perfume (production and storage)	31	07			■		
Pulp mill	34/35	07				■	■
Paint (production and storage)	33	08				■	
Plaster (processing and storage)	50	07					■
Gunpowder factory	55	08					■
Chemicals (production)	30▫/50▪	08		■			■
Oil refineries	34/35	07					■
Salt preserve factories	33	07				■	
Soap (production)	31	07			■		
Saw mills	50	08					■
Metalwork shops	30	08		■			
Grain or sugar silos	50	07					■
Silk and artificial hair factories	50	08					■
Sodium carbonate (processing and storage)	33	07				■	
Sulphur (processing)	51	07					■
Spirits (storage)	33	07				■	
Sugar mills	55	07				■	■
Tanners	35	07					■
Dye works	35	07					■
Textile and fabric (production)	51	08					■
Varnish (production and application)	33	08				■	
Glass works	33	08				■	
Zinc works	31	08			■		

No applicable

After sales tools

Version : 8.0 - 10/04/2021
160E10000

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Maintenance

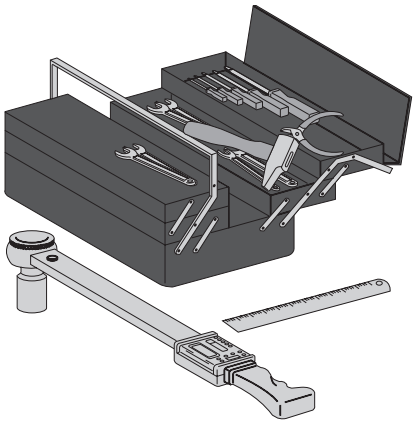
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J

Tools required for mounting and connection

Practical information

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- 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

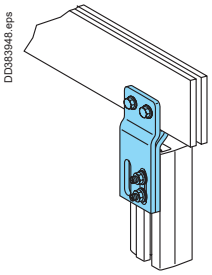
Note: a Facom brand torque wrench is available with a capacity of 75 Nm and a thin shape. It is recommended for tightening under difficult access conditions.

Part numbers:

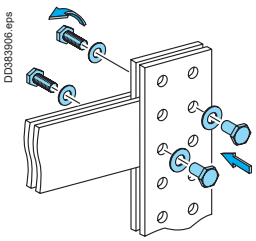
- SP3723 = wrench handle (essential)
- SP3721 = extra-flat ratchet adapter (essential)
- SP3722 = ratchet for ordinary sockets (optional) for mounting on handle SP3723
- SP2709 = extra-flat 13 mm short socket
- SP2709A = extra-flat 13 mm long socket
- SP4369 = extra-flat 16 mm short socket
- SP4370 = 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



Connection plate
(cat. no. **LVS04635**).



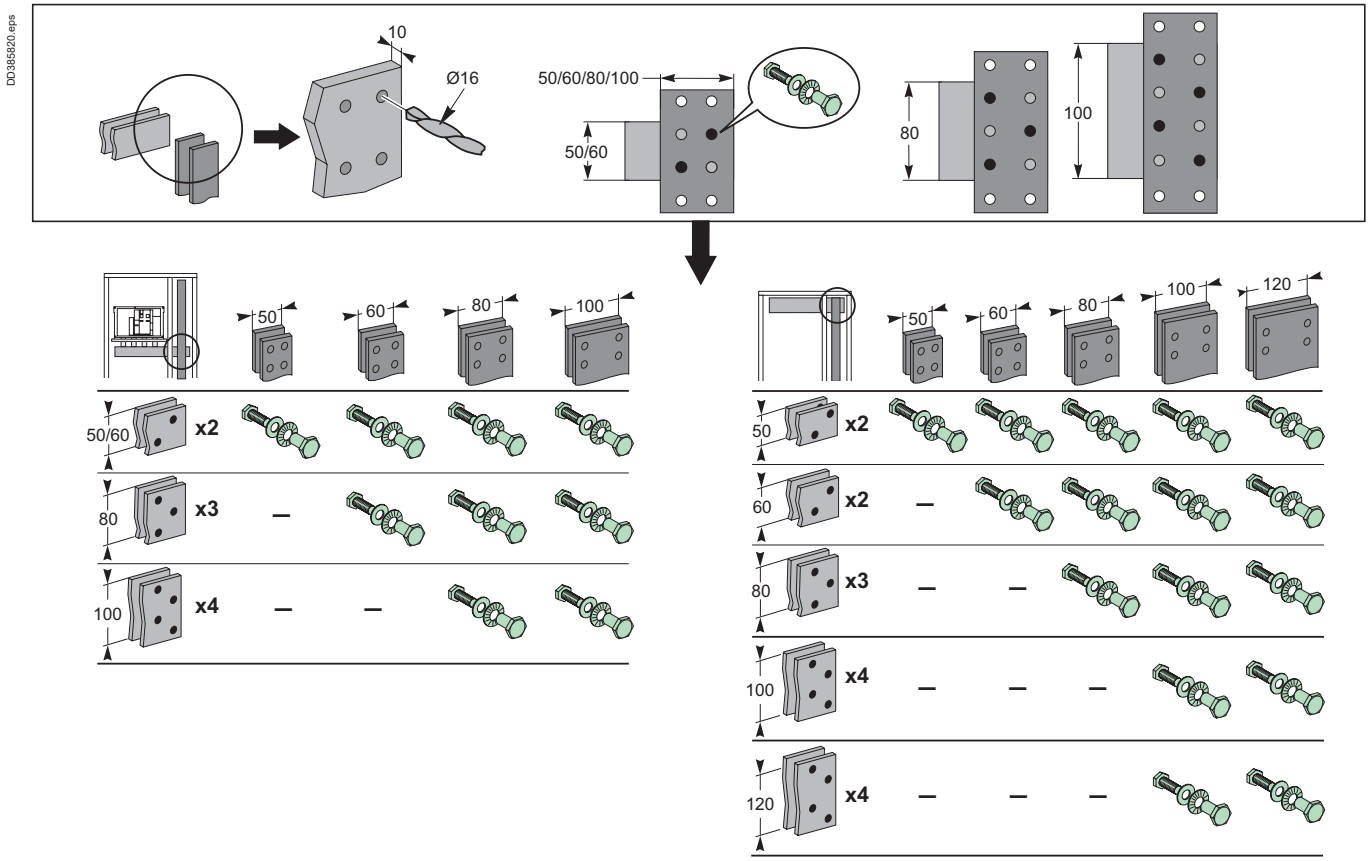
Screw + socket
(cat. no. **LVS04645**).

Horizontal busbars can be connected to vertical busbars (Linergy LGY or Linergy BS) in two ways:
- in a duct (by a direct connection ordered from the catalogue)
- 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 (≤ 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 (Ø16 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

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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 dismountable busbars or copper connections
  - between 2 connection points, by joints or bolted connection
- place the current transformer so that the identification markings remain readable.

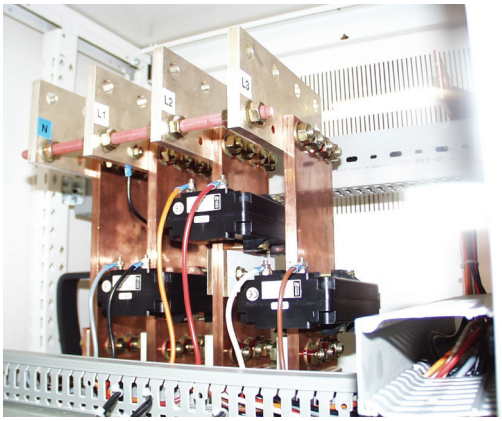
For large current transformers, a staggered installation is recommended to prevent arcing on fixing screws or excessive spacing between phase conductors.
If they are installed on vertical busbars, secure the current transformers in place to prevent them from slipping downwards (for example using a bolt 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.

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CT on vertical busbars.

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Spacers between the bars.

Installation of the current transformer

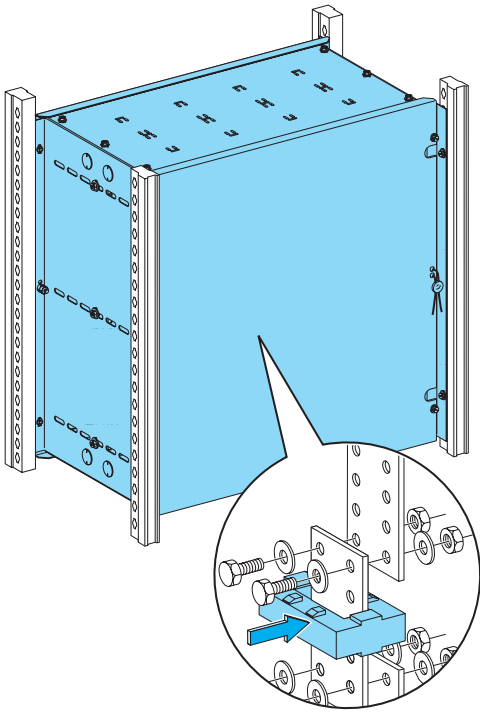
Practical information

Our circuit breakers have trip units with a **built-in ammeter** (see Micrologic catalogue).
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.

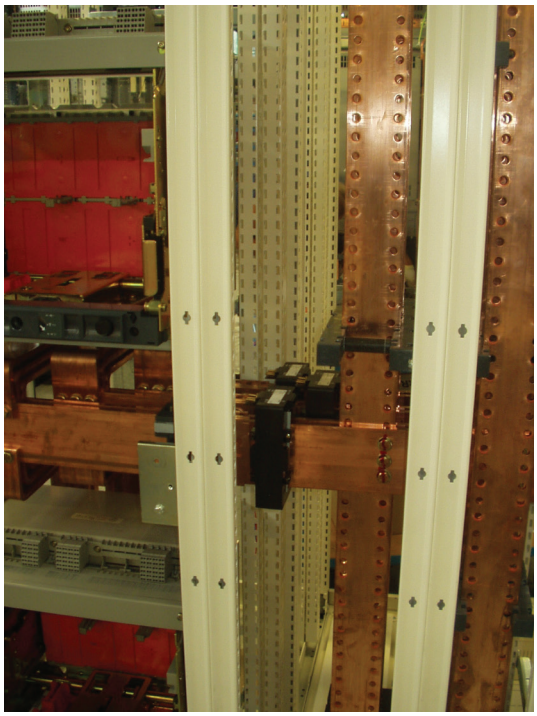
The 300 mm duct allows easier mounting of CTs.
To install 2 CTs, downstream from a circuit breaker for example, it is often easier to use a 300 mm wide duct (cat. no. LVS08403 for 400 mm depth or cat. no. LVS08603 for 600 mm depth).

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Sealable CT casing with current transformers on bolted connections.

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CT on circuit breaker downstream connection busbars.

Installation of source changeover systems

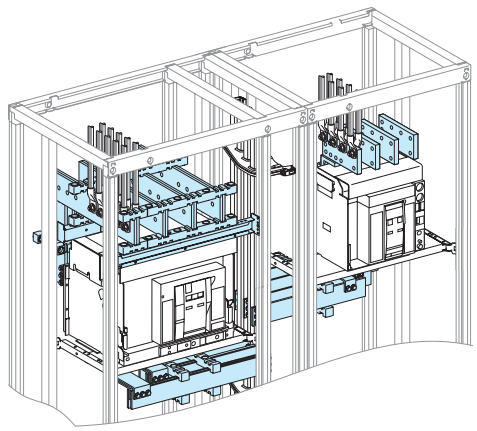
Practical information

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Source changeover system in the same cubicle.

DD381617.eps



Source changeover system in 2 combined cubicles.

PD391284.eps



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.

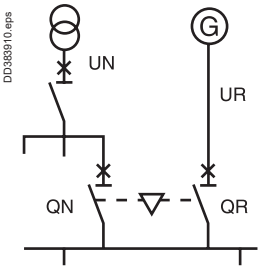
Tables in the catalogue indicate the possible combinations “normal” and “replacement” devices according to the rating as well as the types of interlocking available for the different types of devices.

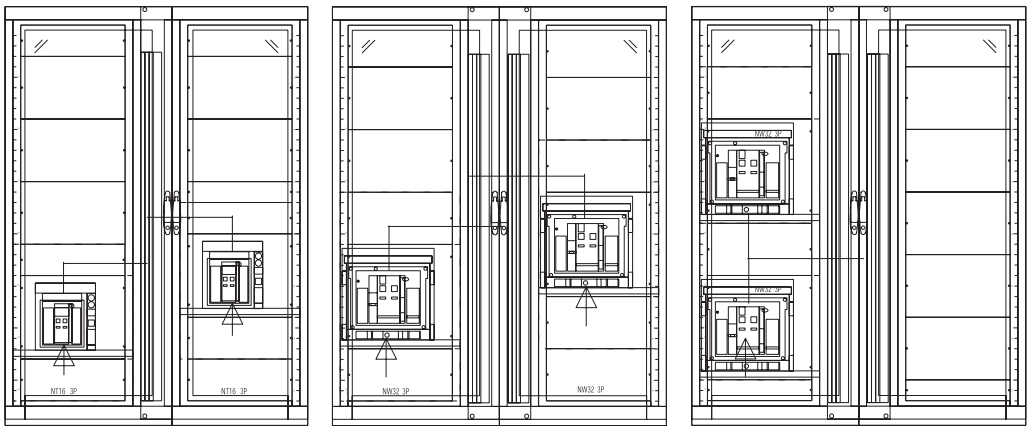
Highly economical vertical configurations are possible even for the largest devices. In this case, interlocking may be:
- mechanical by cable + motor mechanism
- via rotary handles (for NS630b/1600 only).

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.

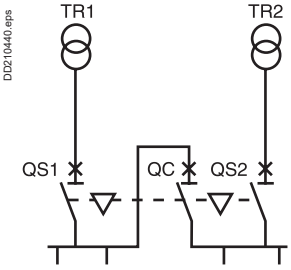
Installation of source changeover systems

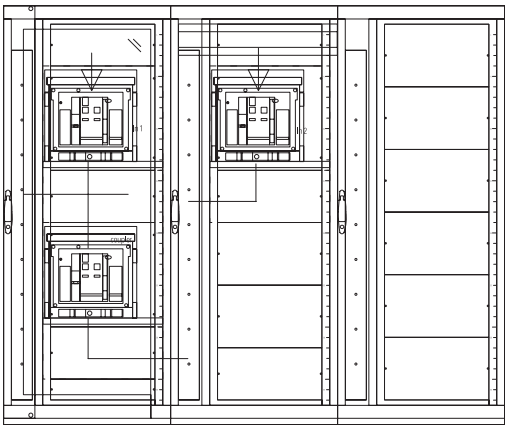
Practical information



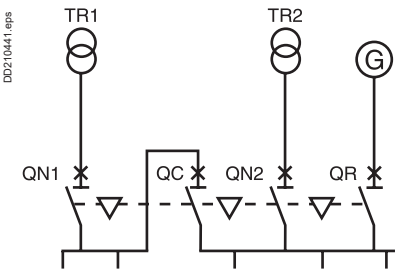


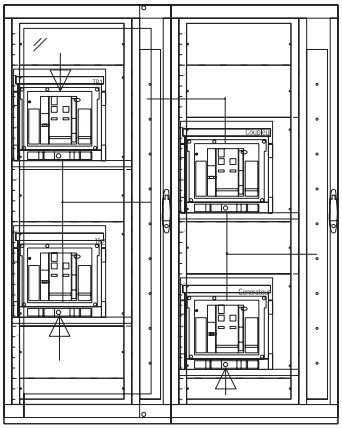
1 normal source
1 replacement source





2 normal sources and coupling on busbars





2 normal sources
1 replacement source and coupling on busbars

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Storage recommendations

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 °C to +55 °C (or up to +70 °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.

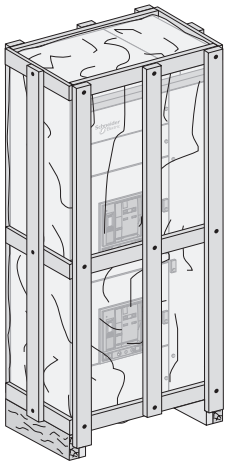
Practical information

Receiving the switchboard

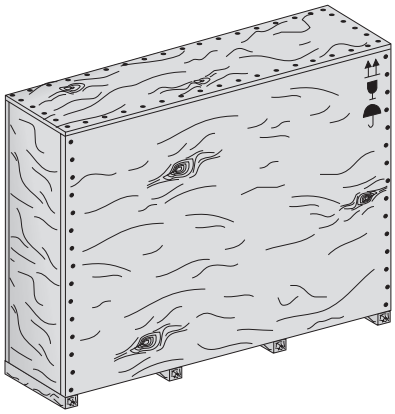
On receipt of the equipment and before handling it, check that the cases and packing materials used for transportation have not been damaged and that all items on the packing list have been effectively delivered.

- 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.

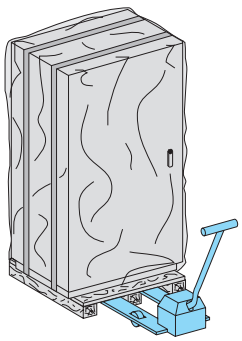
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DD383912.eps



DD383913.eps



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.

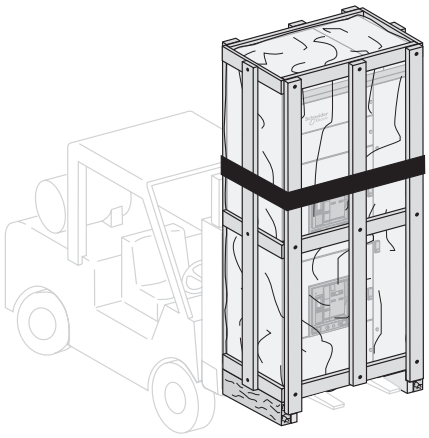
Sorting

In order to sort the different types of packing material, specific waste recovery bins are required.

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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 overtipping 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.

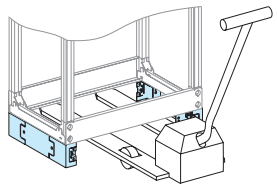
⚠ The forks must be placed symmetrically with respect to the cubicle's axis so as not to distort the base of the frame.

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.

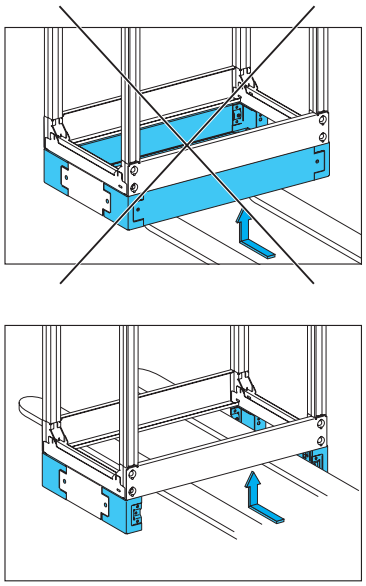
For a PrismaSeT P switchboard with a busbar compartment, lifting points must be shifted towards the busbars.

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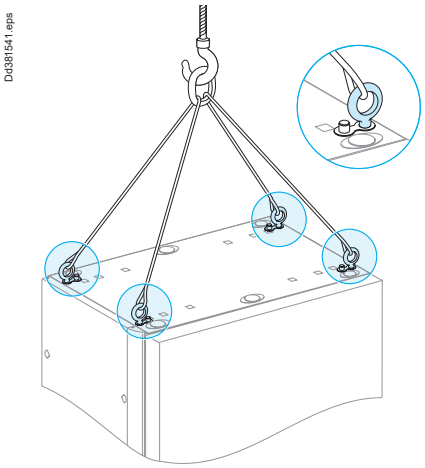
Framework stabiliser.

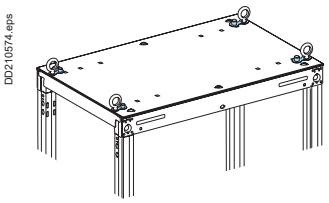
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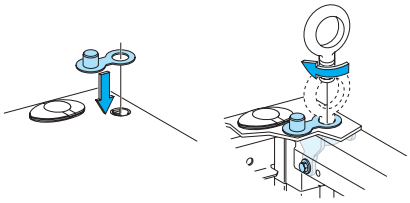


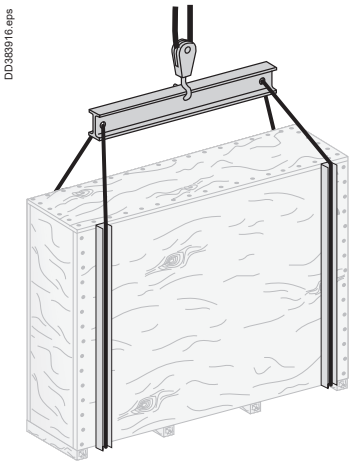
Cubicle with base.

Practical information





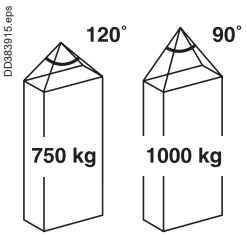


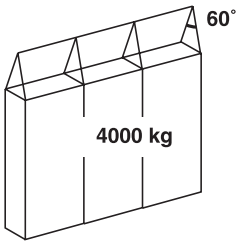


Handling by the top

If cranes or overhead hoists are used, only slings that are sufficiently strong and in good condition should be used.

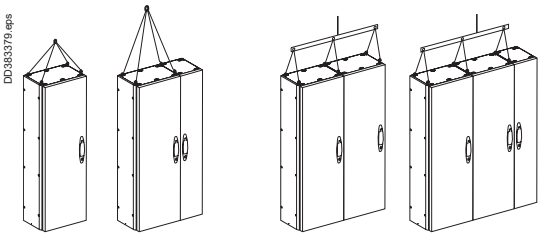
- The slings must be attached to the 4 cubicle lifting lugs.
- Adjust the length of the slings according to the switchboard dimensions so that the angle formed does not exceed the angle indicated below depending on the switchboard weight. When 2 switchgear cubicles are combined, a lifting beam must be 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

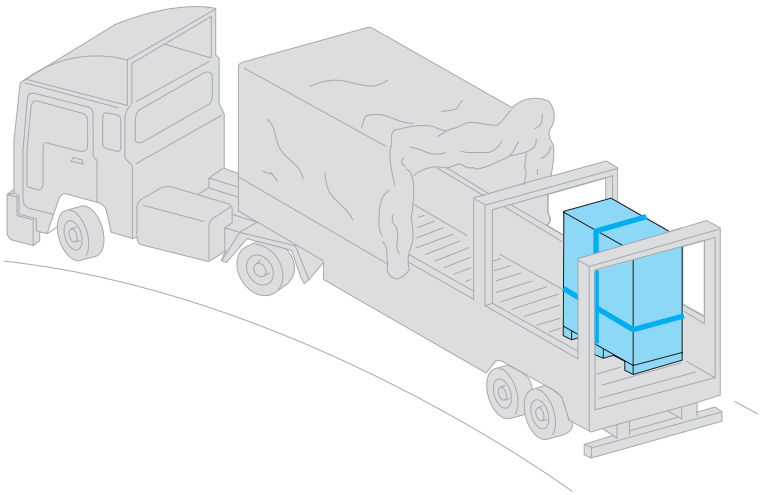
In the special case of an assembly with more than 2 cubicles, you must:

- 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

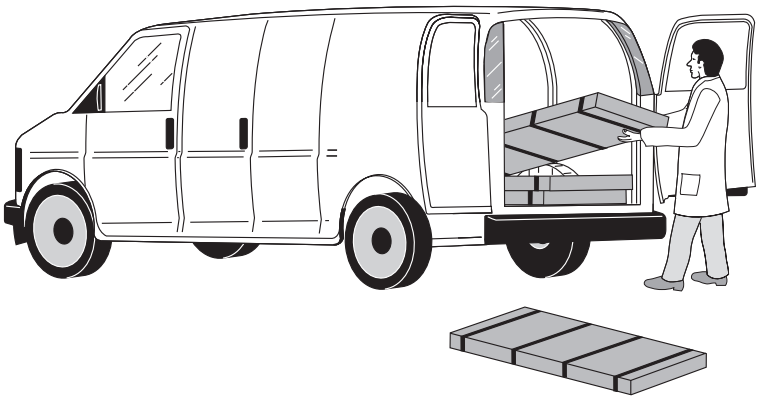
The cubicles must be loaded vertically (stacking strongly discouraged).
After loading, check that the equipment is firmly secured in the truck to avoid any risk of damage during transport.

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Enclosures supplied as kits should be transported horizontally if possible.

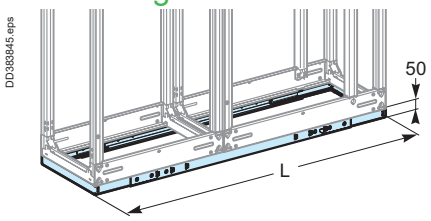
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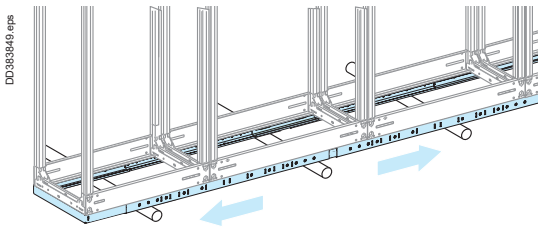
Cubicle handling and rolling base Lifting reinforcement kit for combined cubicles

Practical information

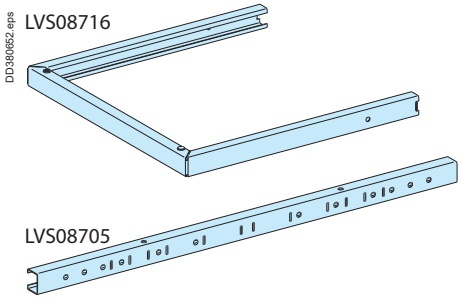
50 mm high base



LVS08714 + **LVS08705**.



Combined cubicles equipped with a handling base can be moved easily and safely on rollers.

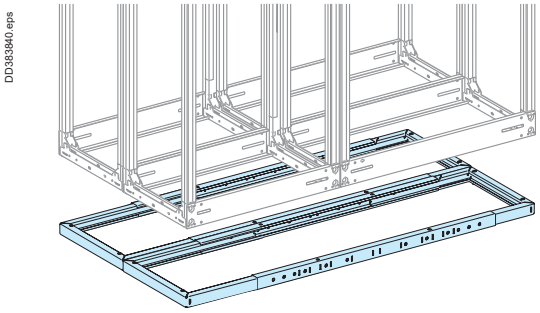


This type of base is designed to increase the rigidity of cubicle frameworks to avoid any risk of deformation during transport and handling.
Five different catalogue numbers offer 27 width possibilities (1200 to 3050 mm) for 400 and 600 mm deep cubicles.

- Two catalogue numbers each include 2 end-pieces for handling bases for 400 and 600 mm deep cubicles respectively and the corresponding mounting hardware.
- Three catalogue numbers each include 2 lengths for the sides of handling bases for 1200 to 3050 mm wide cubicles respectively and the corresponding mounting hardware.

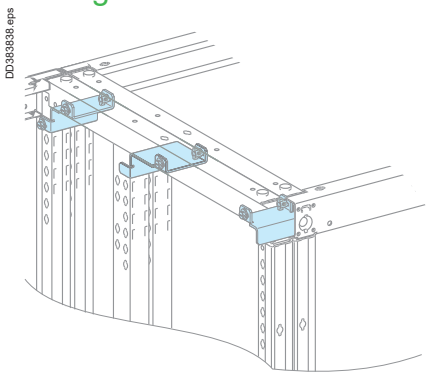
Handling bases can be used for both side-by-side and back-to-back cubicle combinations.
In this case, the mounting hardware for one of the sets is used.

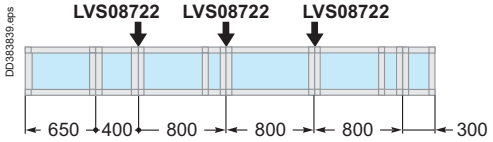
Designation		Cat. no.
2 cubicle handling base end-pieces	D = 400 mm	**LVS08714**
	D = 600 mm	**LVS08716**
2 cubicle handling base side-lengths	W = 1200 to 1900 mm	**LVS08705**
	W = 2000 to 2550 mm	**LVS08706**
	W = 2650 to 3050 mm	**LVS08707**



Side-by-side and back-to-back combination of 4 cubicles equipped with a handling base.

Lifting reinforcement kit





A lifting reinforcement kit should be installed every 800 mm.

- 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.
- Catalogue number LVS08722 includes 3 reinforcement brackets for 400 or 600 mm deep cubicles and the corresponding mounting hardware.

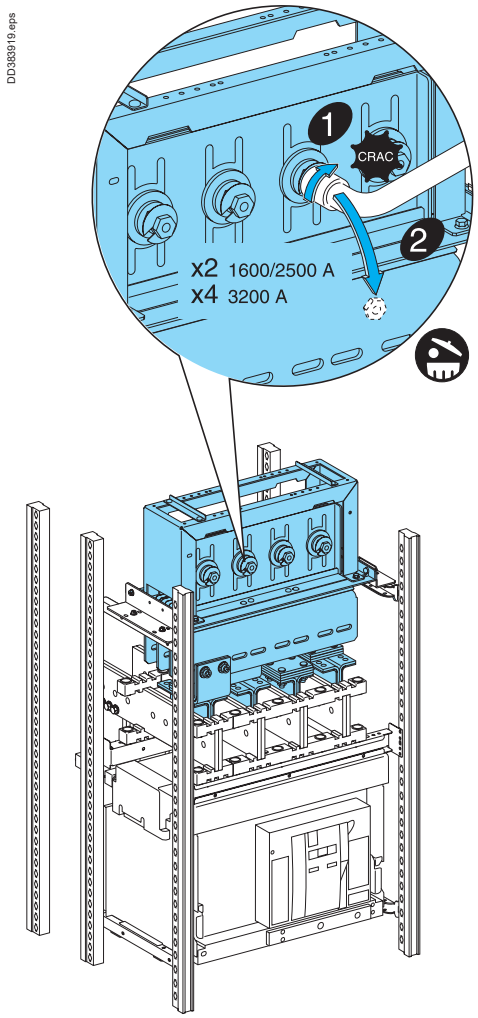
Designation		Cat. no.
Lifting reinforcement kit for combined cubicles	W = 400/600 mm	**LVS08722**

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Connection of busbar trunking

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.

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

Tying the cable bundles

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

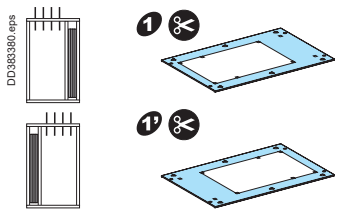
For cable sizes of 50 mm^2 or more, use 9 mm wide fixing ties.

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

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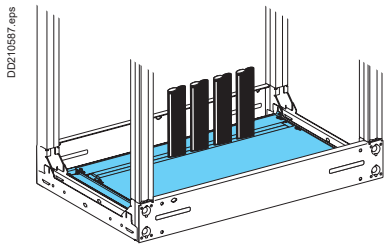
Practical information



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.



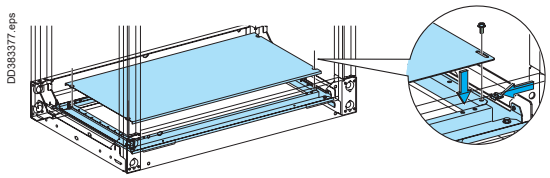
Connection via the bottom

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.



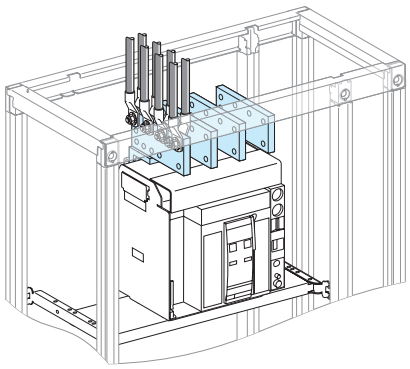
Covering an incomer

For MasterPact NW/NT /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

D4380794.eps



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	

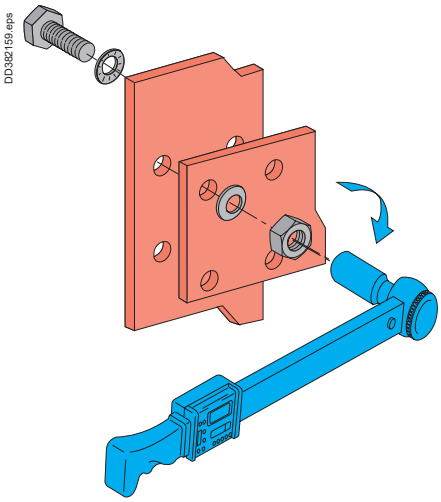
General recommendations

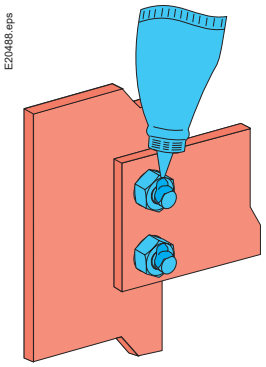
Before any intervention on the connections, switch off the functional unit, remove the protective screens and the partitioning sheets and boxes.
■ For interventions on the connections, refer to chapter "Connections", profession Install.
■ When reassembling the connections:
□ use new screws, washers, 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.





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 was already be tightened to the tightening torque in worshop 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.

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 occured

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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