PrismaSeT G Active

Catalog 2023
Wall-Mounted
and Floor-Standing Enclosures
for Electrical Distribution up to 630 A
Version 14

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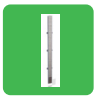

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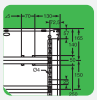

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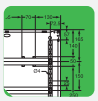

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NSYTRV42BL	Screw terminal, feed through	D-24
NSYTRV42M	Screw terminal, feed through	D-24
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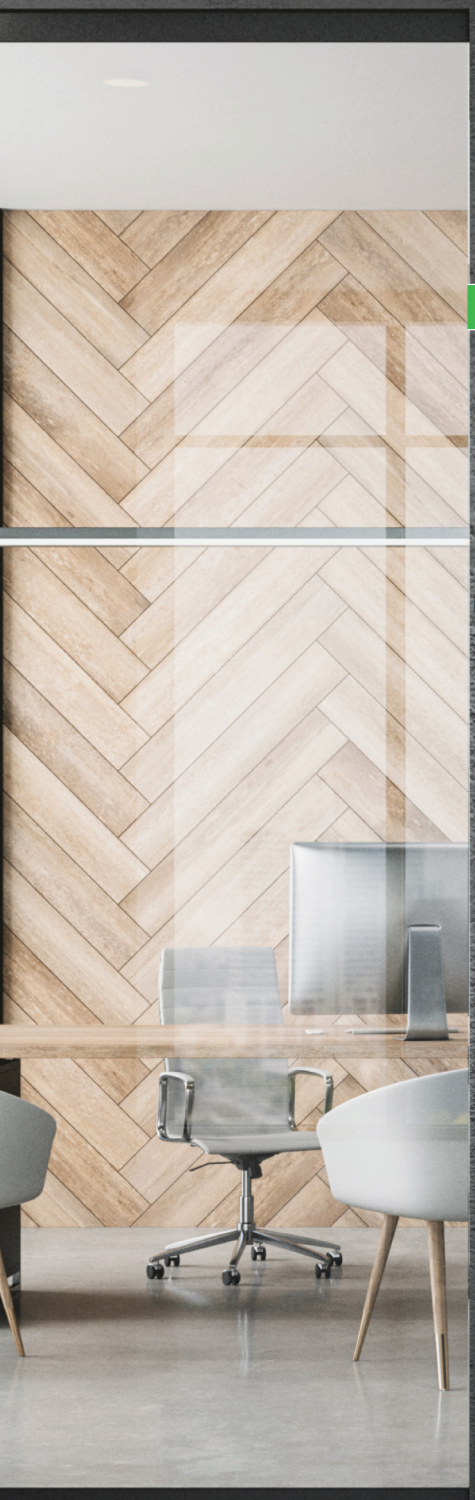
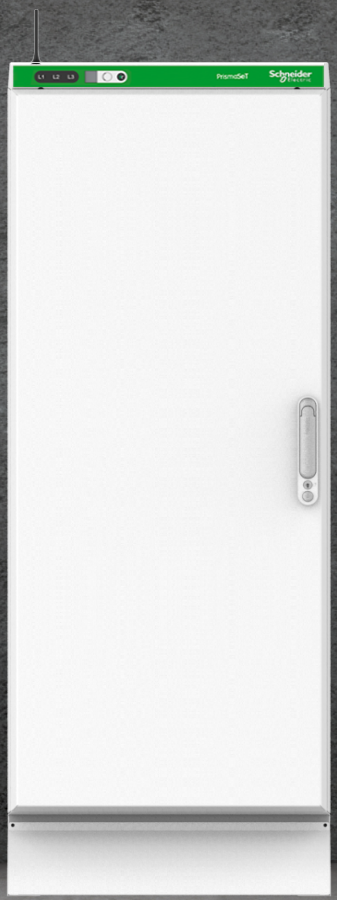
PrismaSeT G Active - Reliable, Easily connected



The new PrismaSeT G Active 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 G Active 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 increased Plinth 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

Easy installation and commissioning

- Less than 30 minutes for setting up the communication devices

PrismaSeT G Active - Reliable, Easily connected

New design with sustainable packaging

Enhance buildings with in-built connectivity and efficient design

The new design of PrismaSeT G Active 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.

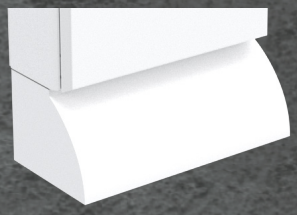
In addition, the new 100% green packaging decreases the quantity of waste and its disposal cost by using only cardboards.

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.

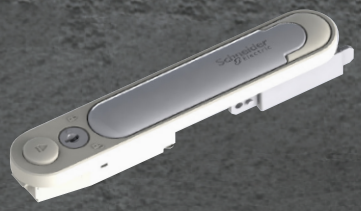
Increase Plinth Robustness

- Metallic reinforcement all along the plinth to facilitate transportation.



New Improved Handle

- More robust handle.
- Ergonomic handle design.
- Aesthetically appealing look.



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.

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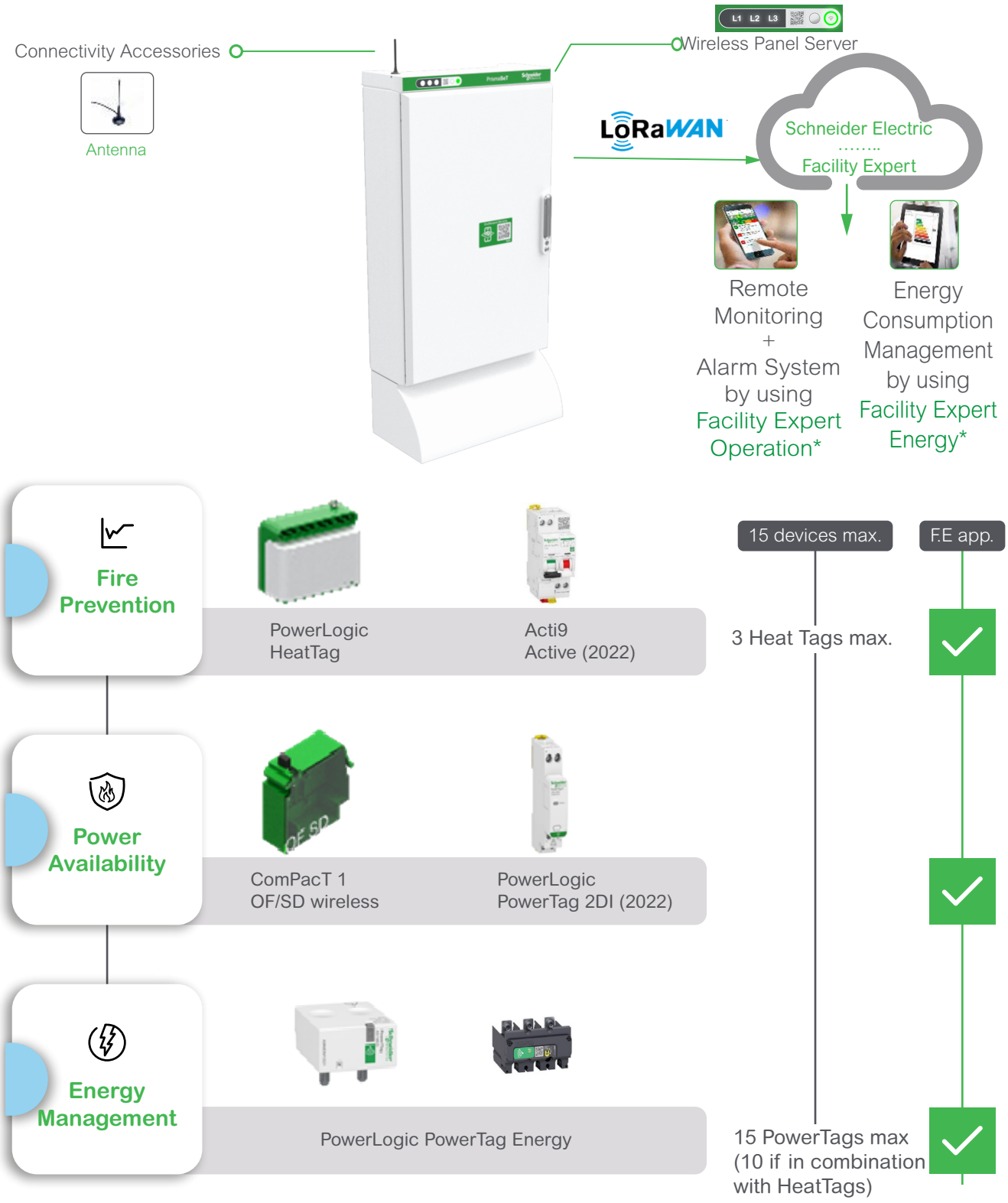
Communication Architecture

General Principle



Facility Expert Energy
It is a cloud software for energy efficiency. The app generates alarms when the consumption exceeds set targets while monitoring the energy consumption 24/7 with comparison by site or usage.

Facility Expert Operation
It is a cloud software for operation efficiency that alerts the user to optimize the maintenance procedures.

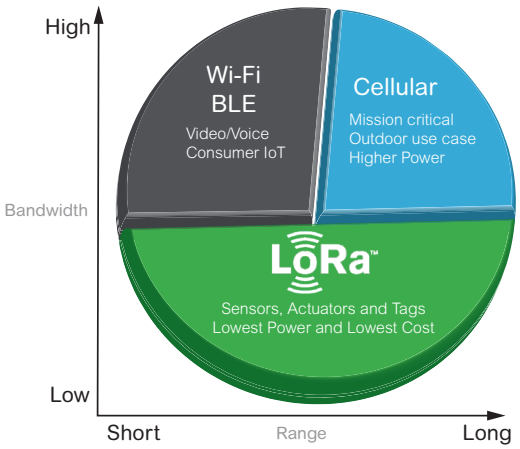
Communication Architecture

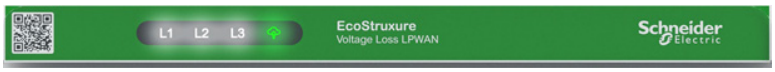
Main Features

LoRaWAN (Long Range Wide Area Network) is a networking protocol designed to connect wirelessly in order to assure end-to-end communication services.

The followings are the differentiating factors compared to other networking protocols:

- Long range coverage
- Low energy consumption
- Better penetration in buildings
- No SIM needed
- No additional fees to pay (included in Facility Expert subscription).





Simple 3-wire cable connections for ease of connectivity to Voltage Presence indicator.

QR code compatible for scanning through any device.

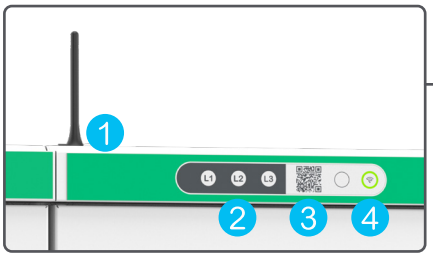
Free real time alarming in case of losing power.

Quick activation and subscription for the LoRa connection without paying any additional fees.

EcoStruxure Power Commission application simplifies sensor integration and commissioning (upto 15 Nos. under 30 mins).

Periodic report and updates.

For Commercial and Industrial application



1. Built-in wireless Panel Server
2. LED indicators: Phase status (on/off)
3. QR Code to activate your free alerts
4. EcoStruxureTM Facility Expert communication status indicator

Service is activated on cloud-based software

Service is not activated (blinking)

PrismaSeT G Active

Note: The voltage presence indication of the Wireless Panel Server is only indicative and cannot replace all safety measures required before any intervention into the Low Voltage Switchboard.

PrismaSeT G Active Wireless Panel Server installed into its environment.

Communication Architecture

	Name	Reference	Description
Applications	EcoStruxure Power Commission App	For free Play store/ Apple store	Easy wireless Panel and sensors Configuration
	EcoStruxure Facility Expert App	For free Play store/ Apple store	Reactive maintenance and Energy Management
Gateway	PrismaSeT G Active W300 Green Cover with Wireless Panel Server	W300	To add on PrismaSeT G Active Wall Mounted or Floor Standing (optional)
	PrismaSeT G Active W600 Green Cover with Wireless Panel Server	LVS08880D	To add on PrismaSeT G Active Wall Mounted (optional)
Alarming Sensors	HeatTag cable overheating sensor	SMT10020	Provide a proactive heating detection
	ComPacT NSX OF/SD auxiliary contact wireless	LV429454	Redefine and enhance customer experience with seamless connectivity
	ComPacT NSXm OF/SD auxiliary contact wireless	LV429453	Redefine and enhance customer experience with seamless connectivity
	Powertag C 2DI - 2 digital inputs 230 V for any default signal	A9XMC2D3	Provide a precise real time data on energy, currents, power, voltage and power factor.
	Arc Fault Detection Device with wirelelss communication	refer to Acti 9 catalog	Prevent arc fault reaching temperatures which can ignite home fires
PowerTag Energy Metering Sensors	PowerTag Energy Monoconnect 63A 1P+Wire	A9MEM1520	Provide precise, real-time data on energy, currents, power, voltage, and power factor
	PowerTag Energy Monoconnect 63A 1P+N top	A9MEM1521	
	PowerTag Energy Monoconnect 63A 1P+N bottom	A9MEM1522	
	PowerTag Energy Monoconnect 63A 3P top and bottom	A9MEM1540	
	PowerTag Energy Monoconnect 63A 3P+N top	A9MEM1541	
	PowerTag Energy Monoconnect 63A 3P+N bottom	A9MEM1542	
	PowerTag Energy Flex 63A 1P+N top and bottom	A9MEM1560	
	PowerTag Energy PhaseNeutral 63A 1P+N top	A9MEM1561	
	PowerTag Energy PhaseNeutral 63A 1P+N bottom	A9MEM1562	
	PowerTag Energy Flex 63A 3P+N top and bottom	A9MEM1570	
	PowerTag Energy PhaseNeutral 63A 3P+N top	A9MEM1571	
	PowerTag Energy PhaseNeutral 63A 3P+N bottom	A9MEM1572	
	PowerTag Energy Flex 160A 3P/3P+N	A9MEM1580	
	PowerTag Energy Monoconnect 250A 3P	LV434020	
	PowerTag Energy Monoconnect 630A 3P	LV434022	
	PowerTag Energy Monoconnect 250A 3P+N	LV434021	
	PowerTag Energy Monoconnect 630A 3P+N	LV434023	
	PowerTag Energy Rope 200A 3P/3P+N	A9MEM1590	
	PowerTag Energy Rope 600A 3P/3P+N	A9MEM1591	
	PowerTag Energy Rope 1000A 3P/3P+N	A9MEM1592	
	PowerTag Energy Rope 2000A 3P/3P+N	A9MEM1593	
Communication Accessories	LoRa additional length for Antenna - 5m	SMT10011	Improve the reception infront of the panel (if needed)
	LoRa Tester	SMT10013	Test the signal before and after installation
	LoRa /IP Plug & Play Bridge via SIM Card	SMT10024	In case of no reception of LoRa public network on your site

B

EcoStruxure™ Facility Expert

Cloud software to improve operations efficiency

Mobility to improve maintenance & operations

Register easily and overview all your assets status

QR code ready, Schneider Electric devices are already configured to communicate with EcoStruxure™ Facility Expert in a simple way and enable automatic download of ID, technical documentation and maintenance plan.

Located on the map, visualize all assets in real time, navigate and filter by area or status.

Remain connected and Informed

Providing relevant information on critical assets, sending instant and documented alarms EcoStruxure™ Facility Expert allows to diagnose remotely in case of issue and to manage maintenance efficiently.

- Instant alarms on threshold and status change
- Real-time assets status and map localization.
- Maintenance plan, asset log history, asset doc repository.
- Task manager and task reminder.
- 1 click to edit intervention and activity reports including voice memos, notes, photos and measurements.
- Remain connected, comment, share information and get support in the field from colleagues or experts if needed.

Web-application to monitor & analyze energy

EcoStruxure™ Facility Expert energy features give insights into energy data and provide visibility to reduce energy consumption.

On their web portal, Facility Managers get a clear vision on real time energy consumption for all managed buildings from any location.

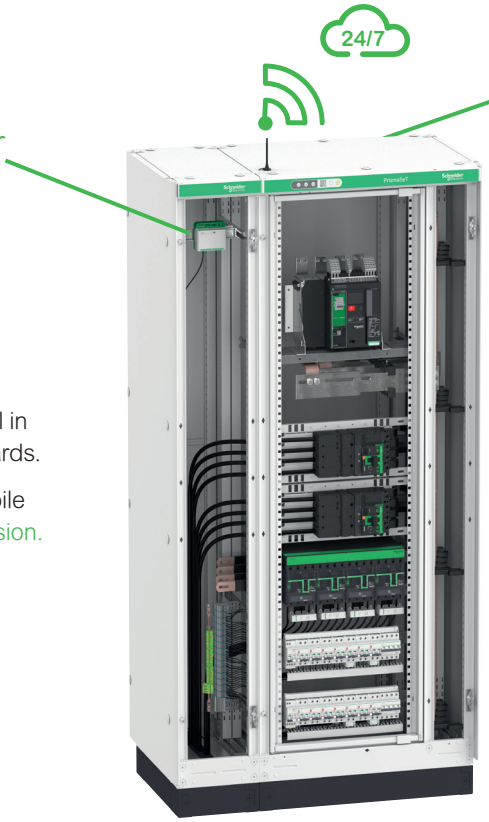
- Main energy consumptions tracking (main, usage, zone, meter)
- Multi-site comparision capacity
- Cost monitoring
- Power demand and power factor monitoring
- Building performance: benchmarking against local energy performance scale (regulatory compliance to ISO50001, LEED, NABERS)
- Monthly score cards
- Energy kiosk: displayed on building public TV screens, this option shows your green image to visitors and promotors occupant ecofriendly behaviours.

Schneider Electric partners network

Schneider Electric local partners are trained and certified to sell, install and commission EcoStruxure™ Facility Expert. They can also operate the solution if the site manager wants to delegate this task.

PowerLogic™ HeatTag sensor installed with PrismaSeT G Active Panel server and paired with EcoStructure™ Facility Expert

PrismaSeT G Active
Wireless Panel Server



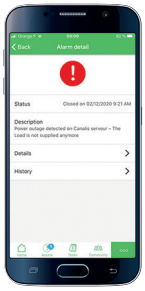
PowerLogic™ HeatTag sensor

Easy to install: directly on a DIN rail in non-forced air-ventilated switchboards.

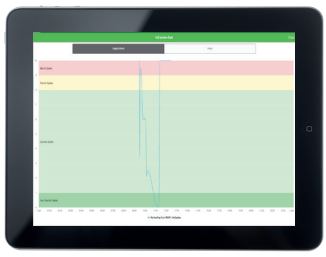
Easy to commission from your mobile with EcoStruxure™ Power Commission.

Note: Consider that the voltage presence indication of the Wireless Panel Server is only indicative and cannot replace all safety measures required before any intervention into the Low Voltage Switchboard.

EcoStructure™ Facility Expert



Alert detail



Cause and recommendations

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

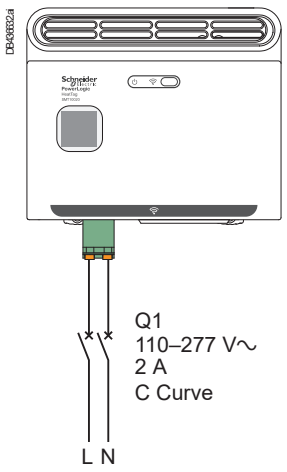
Temperature measurement	Measurement range	-15 °C / +70 °C (5 °F to 158 °F)
	Measurement accuracy	-1.1 °C / +1.1 °C
	Default transmission period	30 seconds (higher in case of high wireless data traffic)
Humidity measurement	Measurement range	15–90 %
	Measurement accuracy	±9 RH %
	Default transmission 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:

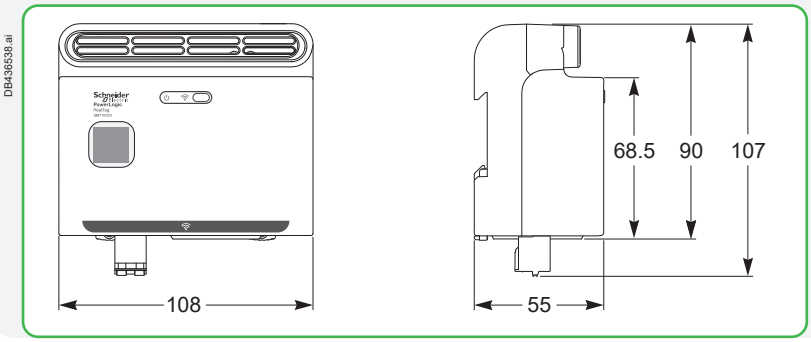
- EcoStruxure Panel Servers
- PowerTag Link
- PrismaSeT Wireless Panel Server

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



Mechanical Characteristics

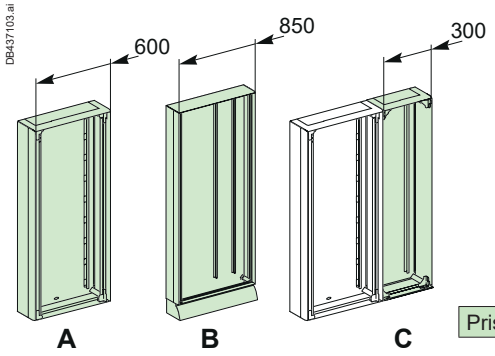
Dimensions (w x h x d)	108 x 107 x 55 mm
Weight	270 g
Degree of protection (IEC 60529)	IP20



Wireless Sensor for Early Detection of Overheating Cables

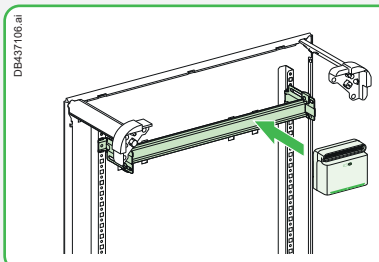
Integration in PrismaSeT G Active

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

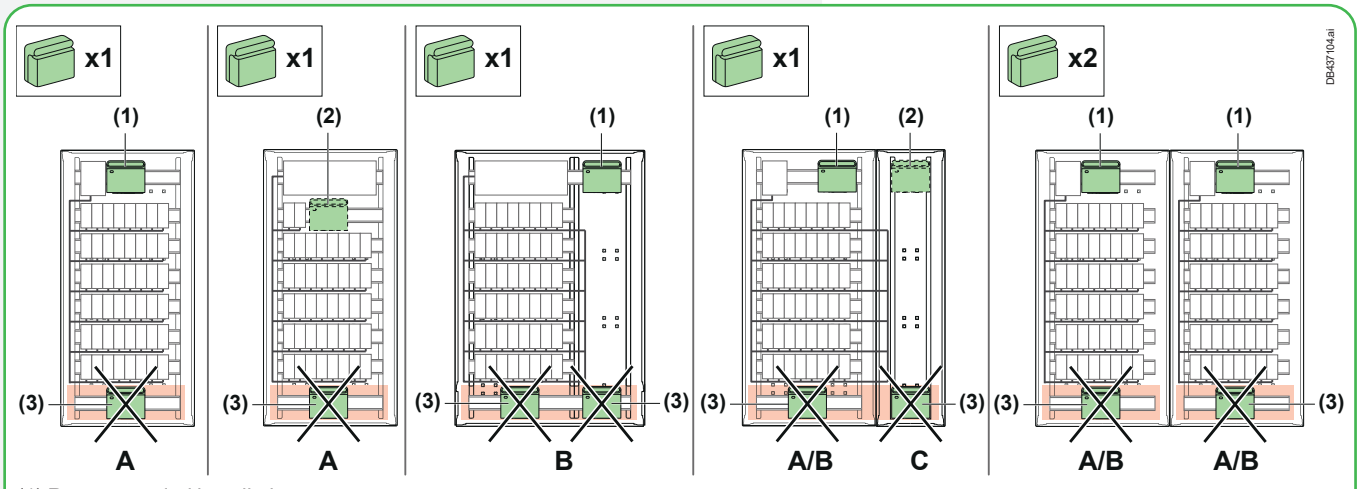


	A	B	C
PrismaSeT G	■	■	■

HeatTag must be installed on a DIN rail.

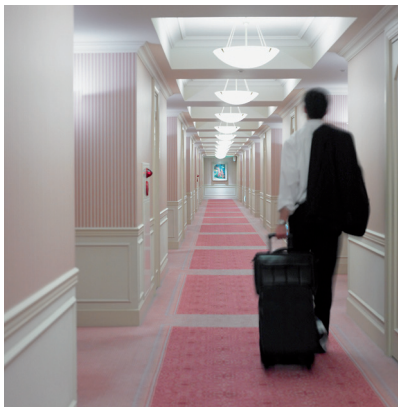


Ref.LVS03010 for width = 300 mm
Ref.LVS03001 for width = 600 mm
Ref.LVS03006 for width = 850 mm



(1) Recommended installation
(2) Possible
(3) Forbidden

To respond to increasing building requirements



Improve the continuity of service

Ensure the safety of life and property

Control deadlines and costs

PrismaSeT:

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

B

PrismaSeT,
a comprehensive range of enclosures and cubicles

> A solution based on more than **30 years of experience** in low voltage switchboards.

> Integrating Schneider Electric switchgear offerings and ensuring electrical, mechanical and communication **functions complete consistency**.

> Quality production, **certified ISO 9001** and manufactured in Montmélian (France).

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

250 A

- Schools
- Small shops
- Hotels, etc.

PrismaSeT G Pack 250

630 A

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

PrismaSeT G Active

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

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

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

PrismaSeT P Active

Simple, functional systems for safe, up to 630 A

Switchboards that are safe…

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

> All components (switchgear, distribution blocks, prefabricated connections, etc.) are perfectly rated and coordinated to work together;

> All switchboard configurations, even the most demanding ones, have been tested.

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

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

…aesthetics

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

Available power

Safety of people and property

Controlled costs and delivery times

Upgradeability

upgradeable LV switchboards

…optimised and upgradeable

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

> The wall-mounted and floor-standing enclosures combine easily with switchboards already in service.

> Devices can be replaced or added at any time.

Simple gestures for cabling in the workshop

All connection points are fully accessible and easy to check.

Efficient installation and connection work on site

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

Easy maintenance throughout the switchboard

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

The switchboard, central to the electrical installation

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

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

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

> the design and verification rules, constituting a benchmark for product certification.

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

A switchboard must comply with the 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 Active tested switchboards

The conformity of the switchboard has been tested and proven.

A PrismaSeT Active switchboard is:

> made up of Schneider Electric low voltage devices and components that all comply with the applicable standards;

> based on configurations in our catalog;

> made up of PrismaSeT Active 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;

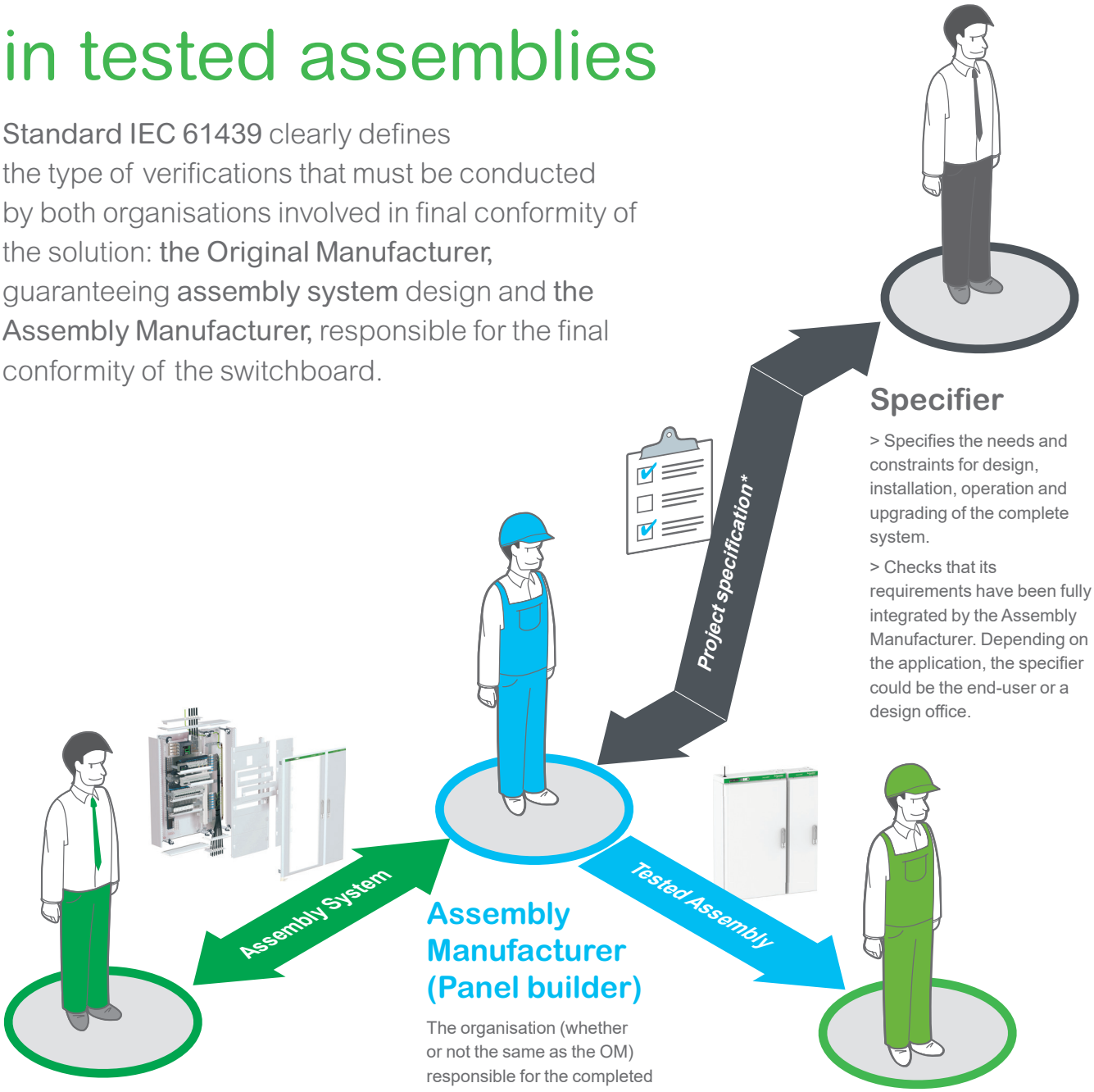
> subjected to the individual verification.

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

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

Original Manufacturer and Assembly Manufacturer:
Both involved in tested assemblies

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



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).

B

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 paragraphe 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:

.....

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

Switchboard design is very simple

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

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

3 Complete functional units
Built around each device, the functional unit includes:
- a dedicated mounting plate for device installation
- a front plate to block direct access to live parts
- prefabricated busbar connections to connect devices to the busbar
- cable-running accessories can be clipped onto the back of double-profile modular rails.

Each functional unit contributes to a function in the switchboard.
The system includes everything required for functional unit mounting, supply and connection.
The PrismaSeT G Active and functional unit components, in particular, have been designed and tested according to device characteristics.
This design approach ensures a high degree of reliability in system operation and optimum safety.

Assets of PrismaSeT switchboards

1 A dependable electrical installation
The total compatibility of Schneider Electric devices with the PrismaSeT enclosure is a key advantage in ensuring a high level of installation dependability.

2 An upgradeable electrical installation
Thanks to modular design, PrismaSeT switchboards can be easily modified to integrate new functional units as needed.
Maintenance operations, carried out with the switchboard de-energised, are fast and straight-forward due to easy access to devices.

3 Total safety for personnel
Work in a switchboard must be carried out by authorised persons in compliance with all applicable safety regulations.
To increase the safety of personnel, devices are installed behind protective front plates; only the operating handles are accessible.
Additional internal protection (partitions, barriers) is available to protect against direct contact with live parts.
Terminal shields are mandatory for installing ComPacT NSX and INS/INV devices in PrismaSeT for even more personnel safety.

4 Connected solution
- fire prevention
- power availability
- energy management

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

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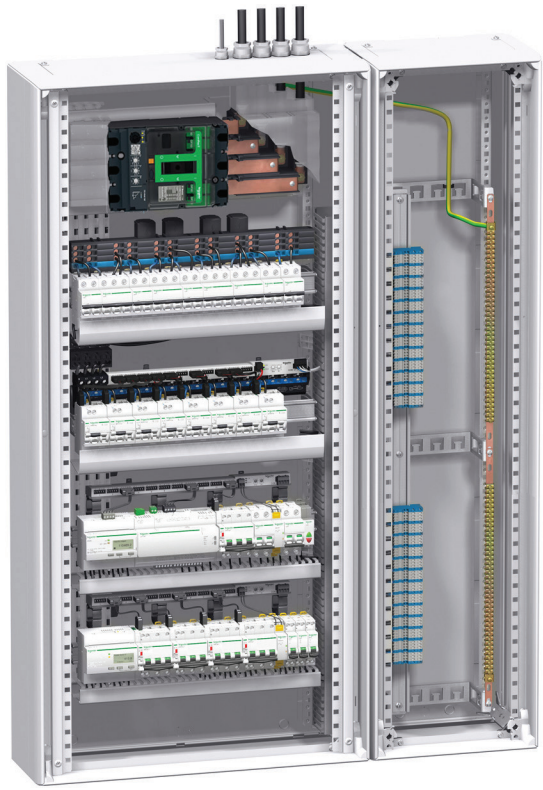


Electrical characteristics

Comply with IEC 62208 and EN 62208 standards:
- rated insulation of main busbars at rear of enclosure: 1000 V
- InA: 630 A
- rated peak withstand current Ipk: 53 kA
- short-circuit current Icc: 70 kA
- frequency: 50/60 Hz

Mechanical characteristics

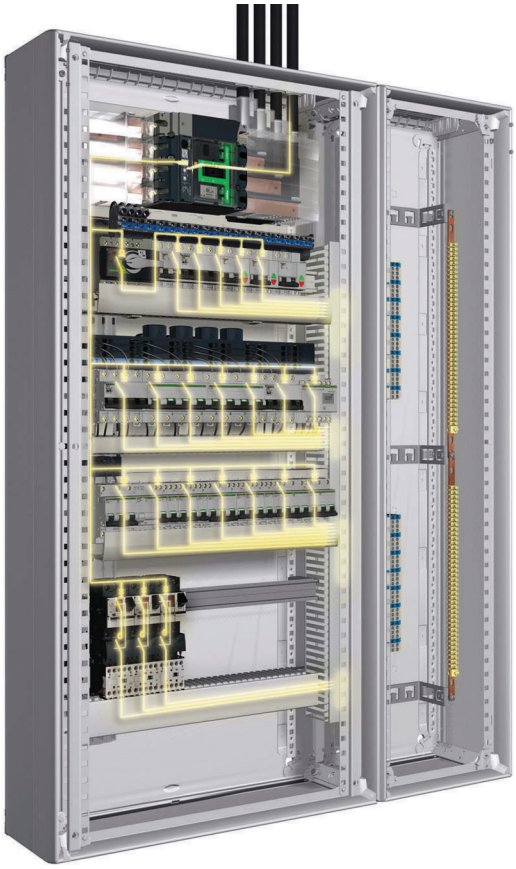
- Steel sheet metal
- Electrophoresis treatment + hot-polymerised polyester epoxy powder, white colour RAL 9003.
- Enclosures supplied in kit form, totally dismountable, designed to be assembled and wired horizontally on a work station.
- Can be combined side by side and one on top of another
- Degree of protection:
  - IP30: without door
  - IP40: with door
  - IP41: with door + canopy
  - IP43: with door + gasket + canopy
  - IP55: IP55 PrismaSeT G Active offer, supplied in kit form
- degree of protection against mechanical impacts:
  - IK07: without door
  - IK08: with door (transparent)
  - IK10: with plain door
  - IK10: for PrismaSeT G Active IP55
- Seismic characteristics: 2,5G without accessories
- Enclosure dimensions:
  - 3 widths:
    - W = 300: ducts 10 modules width
    - W = 600: Wall-mounted and floor-standing enclosures, 24 modules width
    - W = 850: Floor-standing enclosures 36 modules width
  - depth with door:
    - enclosures G IP30: 250 mm
    - enclosures G IP55: 260 mm
  - heights:
    - PrismaSeT G Active IP30: 12 heights: 330 mm to 1980 mm
    - PrismaSeT G Active IP55: 7 heights: 450 mm to 1750 mm
- Inside switchboards.

Readily available close by

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

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

With PrismaSeT, your solution is 100 % optimised



Flexible design for building applications and their operation

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

> organisation by functional units, each corresponding to an application in the building (lighting, HVAC, lifts, etc.)

> organisation by dedicated physical zones: one for functional units (switchgear, mounting plates, front plates), one for power distribution, and one for connections.

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

By supporting design offices with the services and software tools (Ecodial, Rapsody...) needed to quickly design switchboards, we help them to highlight their professionalism: switchboards with tested architectures to meet the most stringent specifications.
Our tools and services also enable them to meet requirements concerning compliance with costs and deadlines: optimised selection of the appropriate components for each switchboard (switchgear, distribution systems, enclosures with perfect electrical and mechanical consistency), front panel design and fast cost studies.

*

100 %

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

Modular devices

Acti 9

NG125, C120 circuit breakers INS-INV40/160 switch disconnector

Presentation

A double-profile modular rail offering a high level of performance
Made of an aluminium alloy with a magnetic properties, the
rail design is extremely rigid. The rail supports are crimp mounted.

Fast mounting

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

Multiple functions

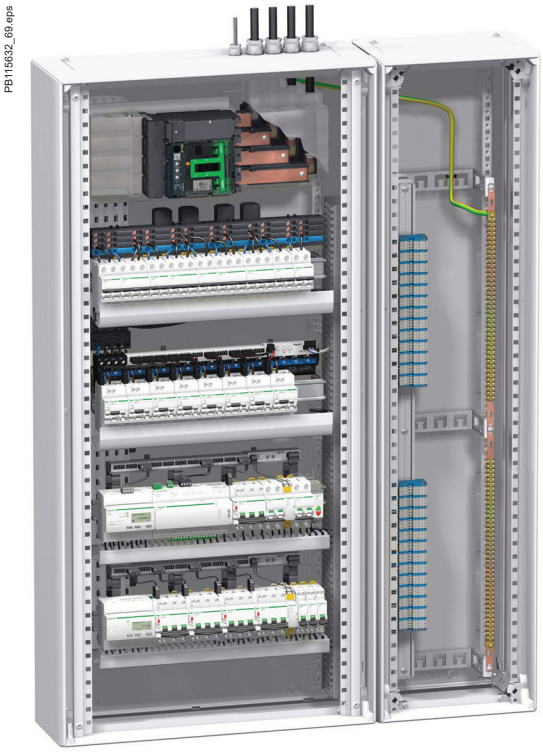
A number of devices can be clipped directly onto the rails, including Linergy FM 80 and 200 A distribution systems, all horizontal cable-running accessories such as cable straps and trunking supports, as well as the supports for Linergy TB earth bars.

Supply from all directions

Supply to the rows, using Linergy FH comb busbars or Linergy FM distribution systems via:
> Linergy BS or insulated busbar Linergy BW installed behind the devices.
> Linergy BS busbar installed in the duct.

Centralised power supply

Via Linergy DX or DS distribution blocks, Linergy DP.



Distribution

Linergy FM 80 and 200 A device feeders

> Fast and secure front connection using spring terminals.
> Reliable connections, with balanced tightening, insensitive to vibrations and thermal variations.
> All types of modular devices can be mixed.
> Easy balancing of phases.
> Interchangeable devices.
> Easy installation upgrades.
> Fully insulated (IPxxB).

Linergy FH comb busbars

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

Linergy DX quick distribution blocks

> *See page D-10*

Linergy DP distribution blocks

> *See pages D-12, D-13*

Linergy DS screw distribution blocks

> *See page D-14*

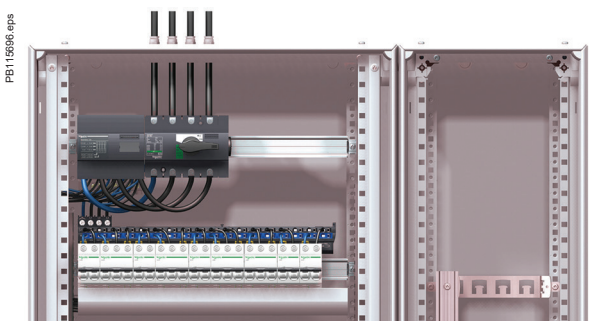
Cable running

Straps

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

Trunking

> Traditional solution.



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

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

ComPacT NSX up to 630 A

> page C-4

ComPacT NSXm up to 160

> page C-4

ComPacT INS-INV250-630 A

> page C-18

ComPacT INS-INV 40 to 60

> page C-34

Source changeover systems ComPacT NSX

> page C-22

Source changeover systems ComPacT INS-INV

> page C-23

FuPacT GS from 32 to 160 A

> page C-28

FuPacT ISFT from 160 to 250 A

> page C-30

NG125, INS-INV40 to 160, C120 - Acti 9

> page C-34

Industrial control switchgears, metering

> page C-38

Human-switchboard interface

> page C-40

ComPacT NSX circuit breakers for PrismaSeT G Active Source changeover system

Presentation

A range of intelligent circuit breakers

ComPacT NSX improves management of electrical installations

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

> either directly on the LCD screen of the trip unit to set the circuit breaker or read the main electrical values, including U, I, f, P(W) and E (kWh)
> or on the FDM 121 or FDM128 display on the front of the PrismaSeT switchboard (duct door with special front plate) for quick access to a greater wealth of information.

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

Integration of ComPacT NSX in PrismaSeT

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

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

Installation architectures for the measurement function

ComPacT NSX circuit breakers equipped with Micrologic 5/6 A or E trip units provide measurements that can be read on the FDM 121 or FDM128 display module or directly on the circuit breaker. This makes it possible to optimise the space required by the functional unit.

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

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

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

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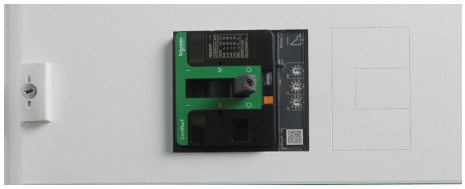
A new front plate

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



Presentation

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

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

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

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

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

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

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

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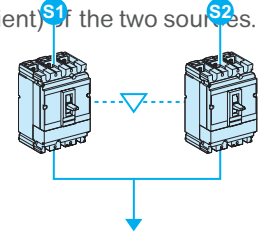


For more information on the communication functions of ComPacT NSX, see the ULP system user manual, ref. TRV99100, and the ComPacT NSX catalog, ref. LVPED208001_EN.
See catalog "ComPacT, MasterPacT source changeover systems", ref. LVPED21122EN

Presentation of FuPacT fusegear for PrismaSeT G Active

Presentation

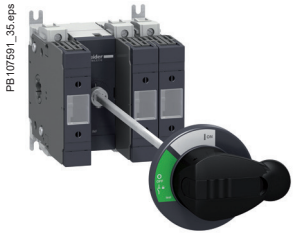
Whatever the switchboard configuration, PrismaSeT range offers tested and certified solution guaranteeing the safety of life and properties.

2 families of FuPacT fusegears

FuPacT GS

FuPacT GS ensures your power application for:
> distribution switchboards
> disconnection, isolation, locking and primary control of incoming circuits
> emergency stop,
> motor feeders (protect motors against single-phasing).

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



FuPacT ISFT

FuPacT ISFT fuse-switch disconnectors are particularly suited for:
> secondary distribution circuits
> powering and control of industrial motors as local isolation device.

Installation

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

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

Presentation

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

Metal_Green-010-CMJN.psd

Robust performance that can withstand even the most severe environments.

A touch of style electrical panels and machines.

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

New offers, taking smart panels to the next level.

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

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

CPSCT16028A.eps

CPSCT16027B.eps

Standards

Harmony metal accessories for robust performance in all situations

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

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

Installation

The Harmony range for faster, simpler installation

Designed for efficiency that helps keep costs down.

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

B

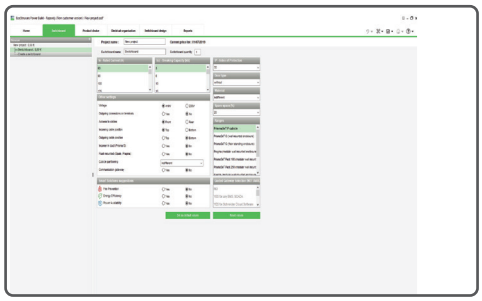
Easy design with Rapsody software

A time-saver in the design and quotation phases.

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

5 easy steps to design a switchboard

1

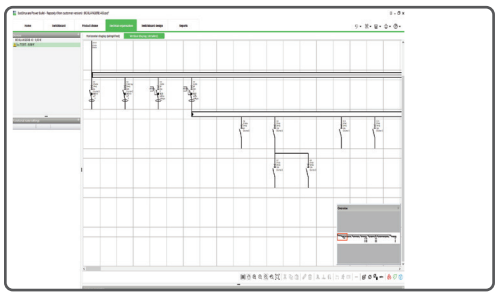


Define the switchboard's electrical and environmental characteristics, in a few clicks.

2

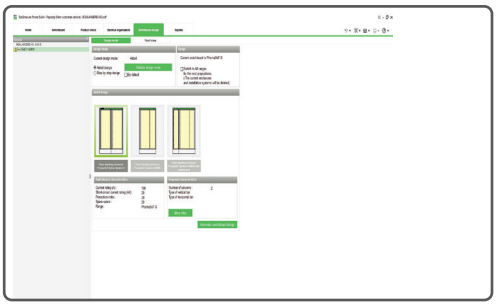
Choose and configure
the devices to be installed, with no risk of error.

3



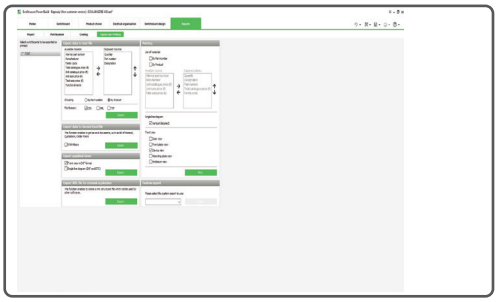
Customise, and easily modify the single-line diagram. **Move or duplicate** devices. **Generate** current distribution and connection systems.

4



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

5



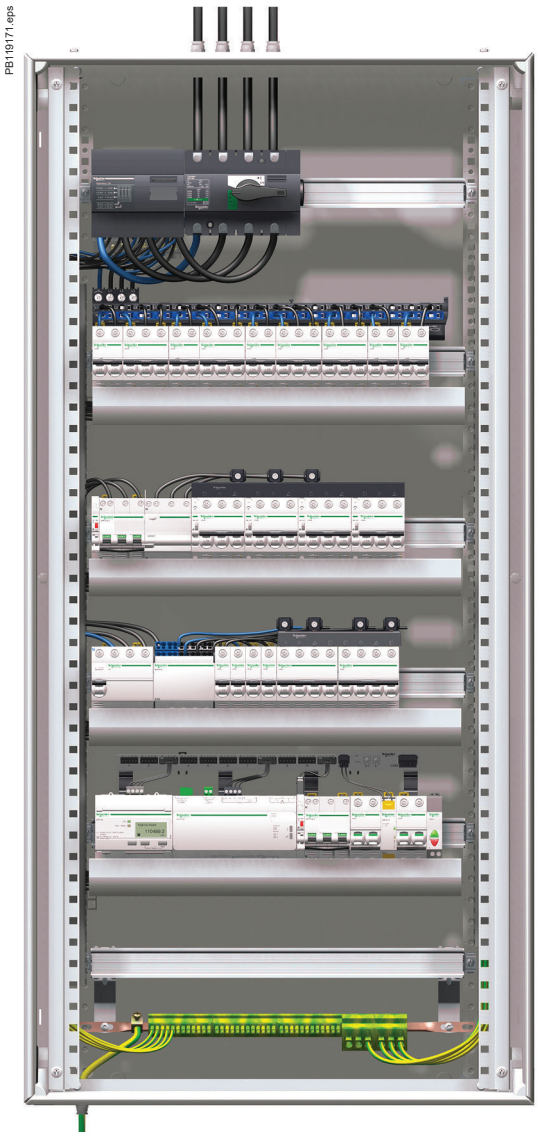
Automatically **export** the information required to make a clear, comprehensive and professional quotation.

Incomer	
INS-INV 160 A	
Incoming cables via top	

Distribution
Linergy DX distribution block 4P

Outgoing devices	
Acti 9 devices	
Supply	Linergy FM distribution block + Linergy FH comb busbar
Cable running	Straps + cover + trunking
Connection	Linergy TR, TB terminal block at bottom of switchboard

IP30/IP4X enclosure
Wall-mounted enclosure, W = 595 mm, H = 1080 mm



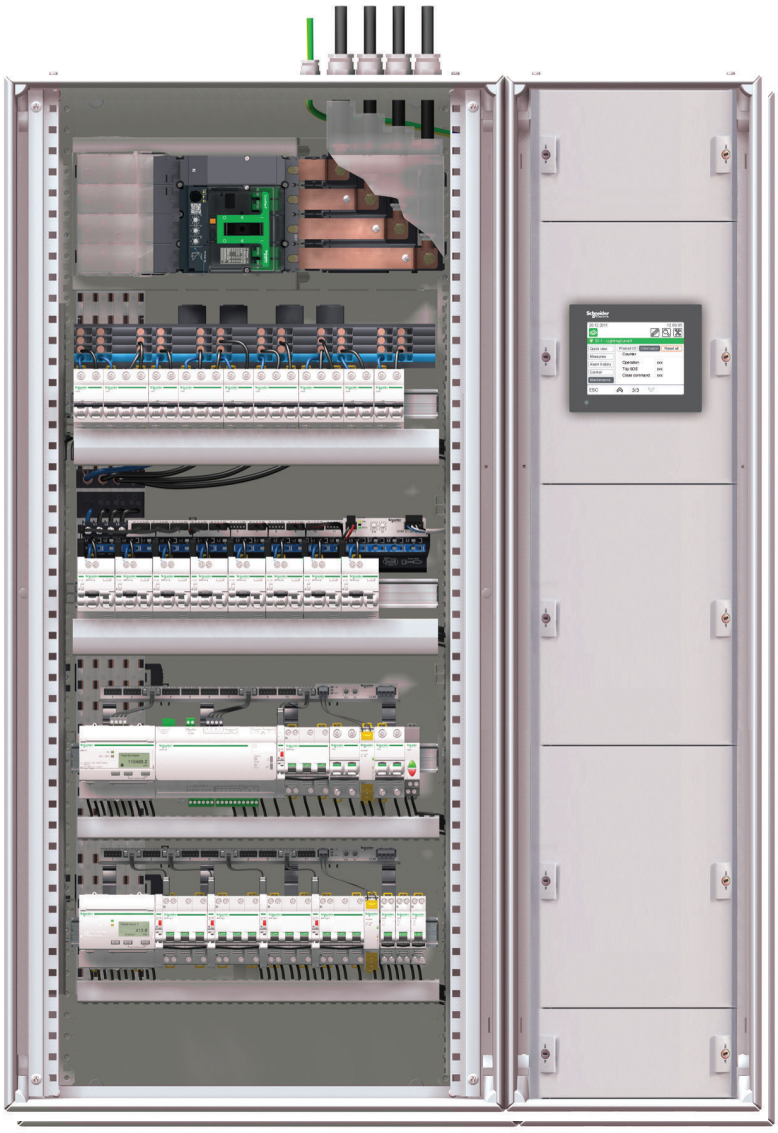
Incomer	
ComPacT NSX250	
Fixed, front connection Toggle Incoming cables via top on incoming connection block	

Distribution
Linergy BW rear busbar

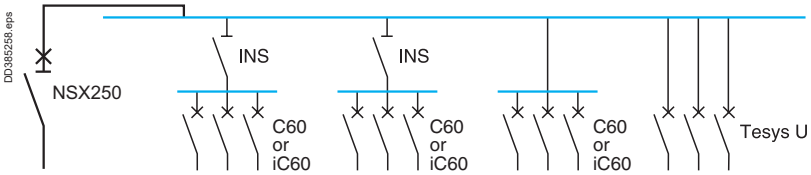
Outgoing devices	
Acti 9 + NG160 devices	
Supply	Linergy FM + Linergy FH comb busbar + Linergy DS distribution block 4P + Linergy DX
Cable running	Straps + cover + trunking
Connection	Linergy TR, TB terminal block in duct

IP30/IP4X enclosure
Wall-mounted enclosure, W = 595 mm, H = 1450 mm
Duct W = 305, H = 1450

PB119172.eps



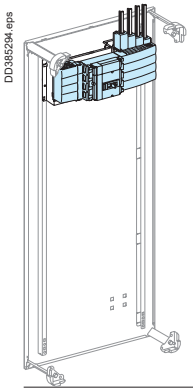
Starting with the electrical diagram: IP30/IP4X switchboard



B

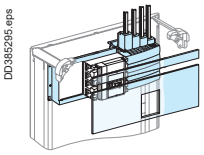
Install the incomer

> see page C-4



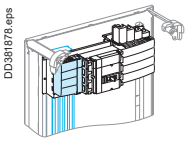
- order the mounting plates and the front plates
- the incoming connection block
- the power supply block for the Linergy BW busbars.

1 Installation / connection



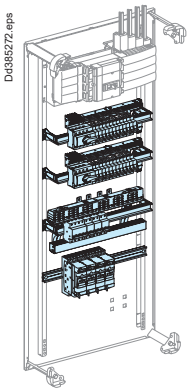
Device	No. of vertical modules	Mounting plate	Cut-out front plate	Upstream front plate	Connection block Cables via top	Cables via bottom
Fixed ComPacT NSX						
NSX100/250	5	**LVS03030**	**LVS03232**	**LVS03801**	**LVS04066**	or LVS**04067**

2 Distribution using Linergy BW busbars



Device	Power supply block	Terminal shields (set of 2)	Linergy BW busbars
Fixed ComPacT NSX and VigicomPacT NSX			
NSX100/250	**LVS04060**		

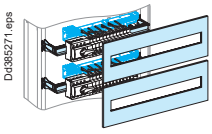
Install the modular devices



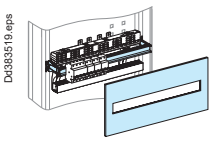
Order the mounting plates and front plates taking into account:
- supply to the rows
- cable running.

1 Acti 9

> see page C-34



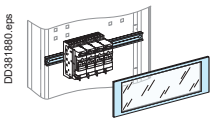
Device	No. of vertical modules	Modular rail	Modular front plate
All Multi 9 or Acti 9 devices			
All supply systems (Linergy FH) with cable straps and trunking sections	4	**LVS03001**	**LVS03204**
Multi 9 or Acti 9 devices y 40 A			
Supply via 63/80 A Linergy FM or Linergy FH with cable straps	3	**LVS03001**	**LVS03203**



Device	No. of vertical modules	Modular rail	Modular front plate
All Multi 9 or Acti 9 devices			
All supply systems (Linergy FH) with cable straps and trunking sections	4	**LVS03001**	**LVS03204**
Multi 9 or Acti 9 devices y 40 A			
Supply via 63/80 A Linergy FM or Linergy FH with cable straps	3	**LVS03001**	**LVS03203**

2 TeSys "U"

> see page C-38



Device	No. of vertical modules	Useful lenght of rail (mm)	Rear modular rail	Transparent front plate
TeSys U model				
Tesys U model	4	**432**	**LVS03004**	**LVS03342**

- Linergy FM distribution block > see page D-16
- Cable running > see page C-39

Determine the size of the switchboard

- count the number of occupied modules

19 modules

- determine the corresponding wall-mount enclosure

21 modules

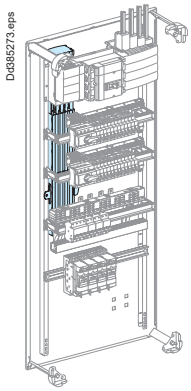
- order the additional plain front plate.

Plain front plate

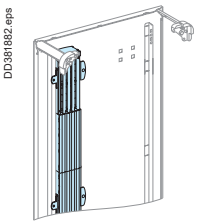
> see page C-54

500 mm wide plain front plate	Cat. no.
1 module (H = 50 mm)	**LVS03801**
2 modules (H = 100 mm)	
3 modules (H = 150 mm)	**LVS03803**

Plan the distribution system



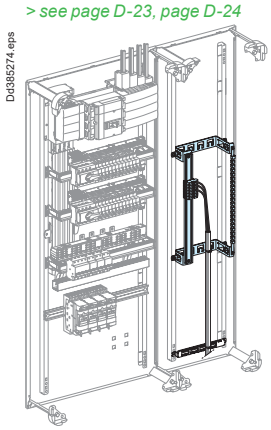
Linergy BW busbars
> see page D-4

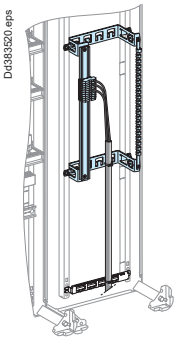


Linergy BW busbars		160 A	250 A	400 A	630 A
Three-pole	W = 1000 mm	**LVS04111**	**LVS04112**	**LVS04113**	**LVS04114**
	W = 1400 mm	**LVS04116**	**LVS04117**	**LVS04118**	**LVS04119**
Four-pole	W = 1000 mm	**LVS04121**	**LVS04122**	**LVS04123**	**LVS04124**
	W = 1400 mm	**LVS04126**	**LVS04127**	**LVS04128**	**LVS04129**

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

> see page D-23, page D-24

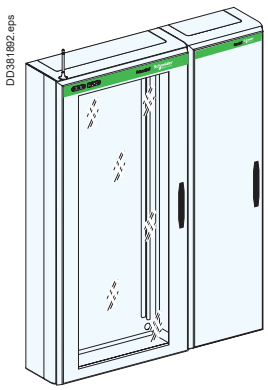




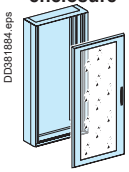
Designation	Cat. no.
Mounting plate for terminal block and Linergy TB earth bar	**LVS04220**
Modular rail, W = 1600 mm	**LVS04226**
12 x 3 mm direct earth bar with 1 terminal 352 L330 Linergy TB	**LVS04201**
4 earth block 12 x 42 quick connection Linergy TB	**LVS04214**
4 earth block 3 x 162 quick connection Linergy TB	**LVS04215**

Select the enclosures

> see page E-4

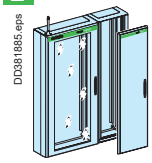


1 IP wall-mount enclosure



No. of vertical modules	Height of enclosure	Enclosure	Plain door	Transparent door
Wall-mount enclosure (IP30)				
6	330	**LVS08102**	**LVS08122**	**LVS08132**
9	480	**LVS08103**	**LVS08123**	**LVS08133**
12	630	**LVS08104**	**LVS08124**	**LVS08134**
15	780	**LVS08105**	**LVS08125**	**LVS08135**
18	930	**LVS08106**	**LVS08126**	**LVS08136**
21	1080	**LVS08107**	**LVS08127**	**LVS08137**

2 Duct, W = 300 mm



No. of vertical modules	Height of duct	Duct, W = 300 mm	Plain door	Transparent door
Duct (IP30)				
6	**330**	**LVS08172**	**LVS08182**	
9	**480**	**LVS08173**	**LVS08183**	
12	**630**	**LVS08174**	**LVS08184**	
15	**780**	**LVS08175**	**LVS08185**	
18	**930**	**LVS08176**	**LVS08186**	
21	**1080**	**LVS08177**	**LVS08187**	**LVS08197**

3 Cable tie supports

Designation	Cat. no.
4 cable-tie supports for 300 mm wide ducts	**LVS08868**

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

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Endorsing eco-friendly products in the industry

Green Premium™
Product

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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.

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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.

Functional system

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Circuit breakers

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Horizontal mounting - Toggle - Rotary handle C-4
Vertical mounting on modular rail - Toggle C-5
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Horizontal mounting - Toggle C-6
Vertical mounting - Toggle C-7
Horizontal mounting - Rotary handle / Motor mechanism module / Plug-in C-8
Vertical mounting - Rotary handle C-9
VigicomPacT NSX100/160/250
Horizontal mounting - Toggle C-10
Vertical mounting - Toggle C-11
Horizontal mounting - Rotary handle C-12
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TransferPacT Frame 250A Automatic source changeover system C-26

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Human-switchboard interface
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C

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Front plates and accessories

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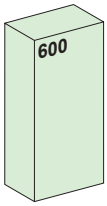
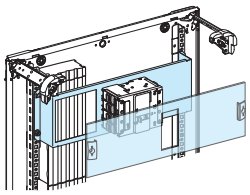
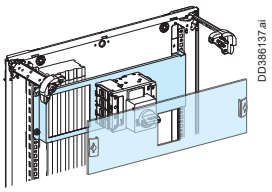
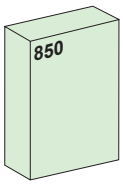
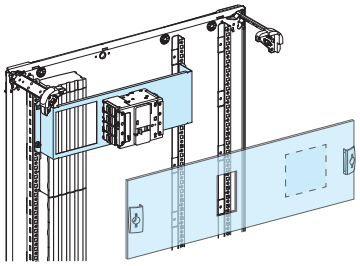
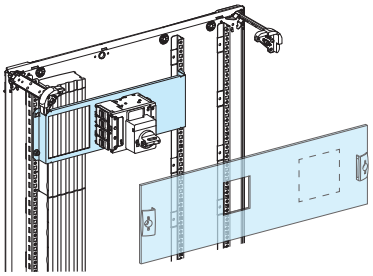
Accessories

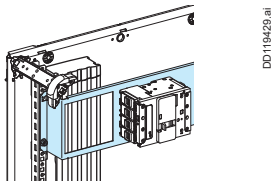
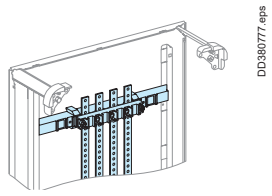
Installation accessories C-57

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

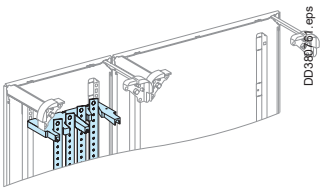
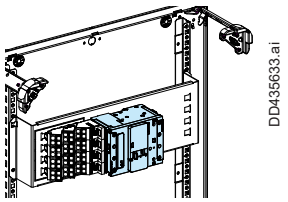
Mounting	W600 Horizontal - Fixed - Toggle		W600 Horizontal - Fixed - Rotary handle
			
Devices	**NSXm**	**NSXm Vigi (ELCB)**	**NSXm**
Number of devices per row	1	1	1
Nb. of vertical modules	**3**	**3**	**3**
Mounting plates	**LVS03020**	**LVS03020**	**LVS03021**
Front plates with cut-out [Nb. of vertical modules]	**LVS03330** [3]	**LVS03330** [3]	**LVS03331** [3]
Long terminal shields	3P : **LV426912** 4P : **LV426913**	3P : **LV426912** 4P : **LV426913**	3P : **LV426912** 4P : **LV426913**
Collar			

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

Mounting	W850 Horizontal - Fixed - Toggle		W850 Horizontal - Fixed - Rotary handle
			
Devices	**NSXm**	**NSXm Vigi (ELCB)**	**NSXm**
Number of devices per row	1	1	1
Nb. of vertical modules	**3**	**3**	**3**
Mounting plates	**LVS03020**	**LVS03020**	**LVS03021**
Front plate with cut-out [Nb. of vertical modules]	**LVS03332** [3]	**LVS03332** [3]	**LVS03333** [3]
Long terminal shields	3P : **LV426912** 4P : **LV426913**	3P : **LV426912** 4P : **LV426913**	3P : **LV426912** 4P : **LV426913**
Collar			

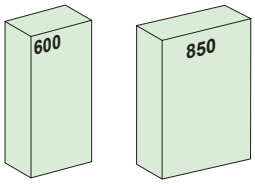
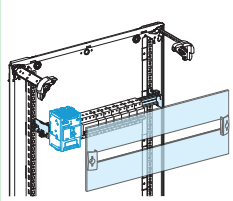
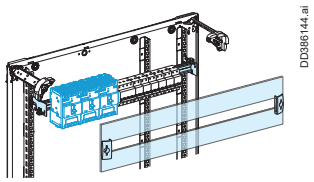
Downstream distribution	Insulated Linergy BW busbars	Rear Linergy BS busbars
		
Busbars	**Linergy BW** *> page D-4*	**LVS04191** + copper bars *> page D-6*
Prefabricated connection	**LVS04021**, **LVS04145**, **LVS04146**, **LVS04148**	**LVS04030**

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

Downstream distribution	Linergy BS multi-stage busbars	Linergy DP
		
Busbars / Distribution block	**LVS04192** + copper bars *> pages D-7, D-8*	**LVS04038**,**LVS04039** *> page D-13*
Prefabricated connection	Connection must be made	

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

ComPacT and ComPacT Vigi (ELCB) NSXm up to 160
Vertical mounting on modular rail - Toggle
W600 - W850 - W300

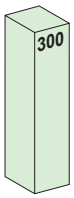
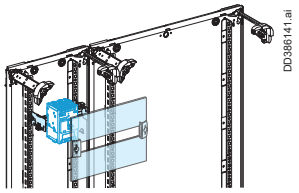
Mounting		W600 Modular rail - Toggle		W850 Modular rail - Toggle	
					
Devices		**NSXm**	**NSXm Vigi (ELCB)**	**NSXm**	**NSXm Vigi (ELCB)**
Nb. of vertical modules		**5** (1)	**5** (2)	**5** (1)	**5** (2)
Rail (48 modules of 9 mm)		**LVS03002** (adjustable) (3)	**LVS03002** (adjustable) (3)	**LVS03007** (adjustable) (3)	**LVS03007** (adjustable) (3)
Modular front plates [Nb. of vertical modules]	With cut-out	**LVS03205** [5]	**LVS03205** [5]	**LVS03218** [5]	**LVS03218** [5]
Blanking plate	Strip	**LVS03220**	**LVS03220**	**LVS03220**	**LVS03220**
	Divisible	**LVS03221**	**LVS03221**	**LVS03221**	**LVS03221**

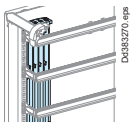
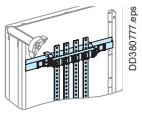
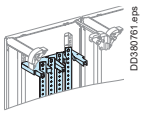
(1) With Linergy DP, the number of vertical modules will be 7 and must be used with downstream front plate; cat no.**LVS03802** for W600 (quantity:1) or cat no. **LVS03851** for W850 (quantity:2).

(2) With Linergy DP, the number of vertical modules will be 8 and must be used with downstream front plate; cat no. **LVS03803** for W600 or cat no. **LVS03853** for W850.

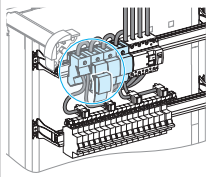
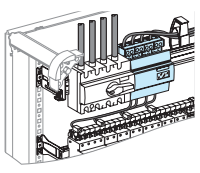
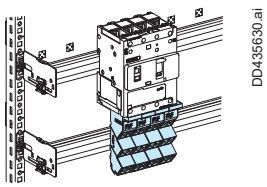
(3) Can be completed by a rail (cat no.**LVS04226**) + raiser (cat no.**LVS04225**) to install modular devices. *> page C-48, C-52*

(4) With Linergy DP, the number of vertical modules will be 9 and must be used with downstream front plate; cat no. **LVS03813** for W300.

Mounting		W300 Modular rail - Toggle	
			
Devices		**NSXm**	**NSXm Vigi (ELCB)**
Nb. of vertical modules		**8** (1)	**8** (2)
Rail (20 modules of 9 mm)		**LVS03011** (adjustable)	**LVS03011** (adjustable)
Front plate [Nb. of vertical modules]	modular	**LVS03214** [4]	**LVS03214** [4]
	upstream	**LVS03812** [2]	**LVS03812** [2]
	downstream	**LVS03812** [2]	**LVS03812** [2] (4)
Blanking plate	Strip	**LVS03220**	**LVS03220**
	Divisible	**LVS03221**	**LVS03221**

Downstream distribution	Insulated Linergy BW busbars	Rear Linergy BS busbars	Linergy BS Multi-stage busbars in duct
			
Busbars	**Linergy BW** *> page D-4*	**LVS04191** + copper bars *> page D-6*	**LVS04192** + copper bars *> pages D-7, D-8*
Connection	**LVS04030**, **LVS04145**, **LVS04146**, **LVS04147**, **LVS04148**	**LVS04145**, **LVS04146** (centred device)	Must be made

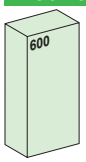
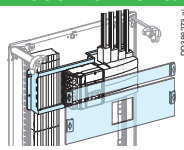
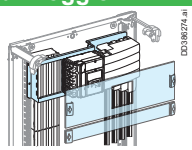
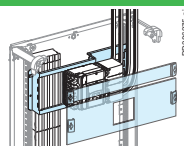
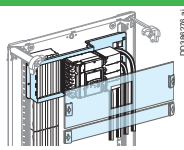
Note: For cable-tie function, add 2 modules above *> page C-51*

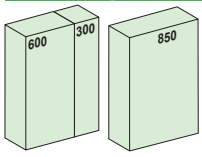
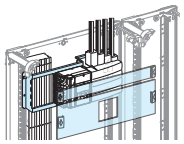
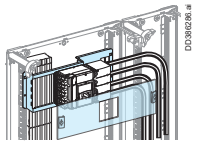
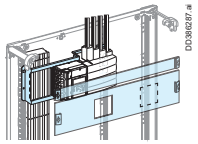
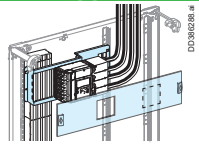
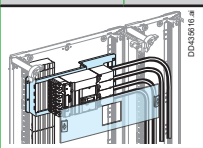
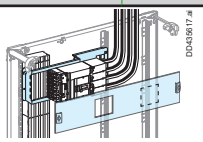
Downstream distribution	Distributionblock Linergy DX 1P, 160 A	Distribution block Linergy DX 4P, 125 A/160 A		Linergy DP, 3P/4P, 160 A
				
Distribution block	**LVS04031** *> page C-16*	**LVS04045** *> page C-16*	**LVS04046** *> page C-16*	**LVS04038**,**LVS04039** *> page D-13*
Connection	**LVS04149**	**LVS04047**	included	
Rail				**LVS03002** (W600) **LVS03007** (W850) **LVS03011** (W300)

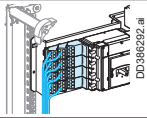
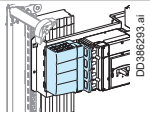
Note: For cable-tie function, add 2 modules above. *> page C-51*

ComPacT and ComPacT Vigi (ELCB) NSX 100/160/250
Horizontal mounting - Fixed - Toggle
W600 - W600+W300 - W850

Designed for PowerTag NSX
Circuit breakers

Mounting	W600 Horizontal - Fixed - Toggle			
				
Devices	**NSX / NSX Vigi (ELCB) 100/250**		**NSX / NSX Vigi (ELCB) 100/160 (1)**	
Number of devices per row	1	1	1	1
Nb. of vertical modules	**5**	**5**	**5**	**5**
Mounting plates	**LVS03030**	**LVS03030**	**LVS03030**	**LVS03030**
Front plates cut-out	**LVS03232** [4]	**LVS03232** [4]	**LVS03232** [4]	**LVS03232** [4]
[Nb. of vertical modules] upstream	**LVS03801** [1]		**LVS03801** [1]	
[Nb. of vertical modules] downstream	-	**LVS03801** [1]	-	**LVS03801** [1]
Upstream connection				
Incoming connection block or cables + Long terminal shields	**LVS04066** *> page C-46*	**LVS04067** *> page C-46*	3P : **LV429517**, 4P : **LV429518**	

Mounting	W600+W300 Horizontal - Fixed - Toggle				W850 Horizontal - Fixed - Toggle			
								
Devices	**NSX / NSX Vigi (ELCB) 100/250**				**NSX / NSX Vigi (ELCB) 100/250**			
Number of devices per row	1	1	1	1	1	1	1	1
Nb. of vertical modules	**5**	**5**	**4**	**4**	**5**	**5**	**4**	**4**
Standard Mounting plates	**LVS03030**	**LVS03030**	**LVS03030**	**LVS03030**	**LVS03030**	**LVS03030**	**LVS03030**	**LVS03030**
Front plates cut-out	**LVS03232** [4]	**LVS03232** [4]	**LVS03232** [4]	**LVS03232** [4]	**LVS03294** [4]	**LVS03294** [4]	**LVS03294** [4]	**LVS03294** [4]
[Nb. of vert. mod.] upstream	**LVS03801** [1]	-	-	-	**LVS03851** [1]	-	-	-
[Nb. of vert. mod.] downstream	-	**LVS03801** [1]	-	-	-	**LVS03851** [1]	-	-
With PowerTag NSX								
	-	-			-	-		
Mounting plates	-	-	**LVS03033**	**LVS03033**	-	-	**LVS03033**	**LVS03033**
Front plates [Nb. of vert. mod.] cut-out	-	-	**LVS03334** [4]	**LVS03334** [4]	-	-	**LVS03335** [4]	**LVS03335** [4]
Upstream connection								
Incoming connection block or cables + Long terminal shields	**LVS04066** *> page C-46*	**LVS04067** *> page C-46*	3P : **LV429517** 4P : **LV429518**		**LVS04066** *> page C-46*	**LVS04067** *> page C-46*	3P : **LV429517** 4P : **LV429518**	

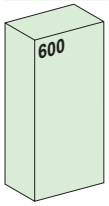
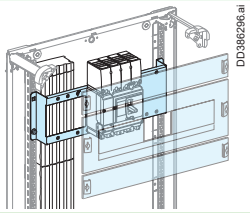
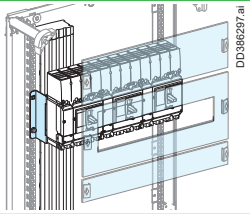
Downstream distribution	Linergy DP 250 A distribution block	Linergy BW + Power supply block	Rear Linergy BS busbars	Linergy BS multi-stage busbars
				
Busbars / Distrib blocks	3P : **LVS04033** , 4P : **LVS04034** *> page D-12*	**Linergy BW** *> page D-4*	**LVS04191** + copper bars *> page D-6*	**LVS04192** + copper bars *> pages D-7, D-8*
Power supply block / connection	-	**LVS04060 (2)** *> page C-46*	Connection must be made	
Long terminal shields	-		3P : **LV429517** 4P : **LV429518**	

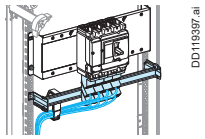
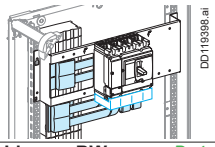
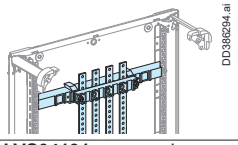
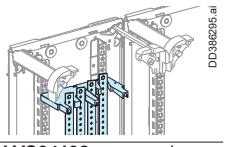
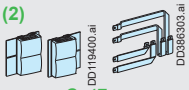
Note: For cable-tie function, add 2 modules above. *> page C-51*
(1) Maximum size of connection cables: 70 mm². For cable cross-sections greater than 70 mm², use of a cable duct is recommended.
(2) Supplied with connections.

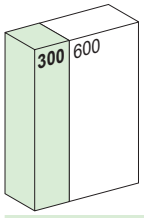
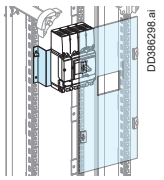
ComPacT and ComPacT Vigi (ELCB) NSX 100/160/250
Vertical mounting - Fixed - Toggle
W600 - W300

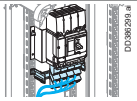
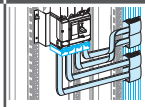
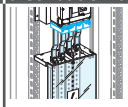
Designed for PowerTag NSX
Circuit breakers

C

Mounting		W600 Vertical - Fixed - Toggle	
		 DD386296.ai	 DD386297.ai
Devices		**NSX / NSX Vigi (ELCB) 100/160**	**NSX / NSX Vigi (ELCB) 250**
Number of devices per row		1 or 4 x 3P or 3 x 4P	1 or 4 x 3P or 3 x 4P
Nb. of vertical modules		**9** or **10**	**11** or **12**
Mounting plates		**LVS03040**	**LVS03040**
Front plates [Nb. of vertical modules]	cut-out	**LVS03243** [5]	**LVS03243** [5]
	upstream	**LVS03802** [2]	**LVS03804** [4]
	downstream	**LVS03802** [2]	**LVS03802** [2]
	downstream with PowerTag NSX	**LVS03803** [3]	**LVS03803** [3]
Upstream connection			
Long terminal shields		DD386301.ai 3P : **LV429517** 4P : **LV429518**	
Divisible blanking plates (HxL)	46 x 1000 mm	DD386312.ai **LVS03220** ComPacT NSX 3P or 4P without electronic trip unit	
	46 x 90 mm (x4)	**LVS03221** ComPacT NSX 3P or 4P with electronic trip unit	

Downstream distribution	Linergy DP 250 A distribution block	Linergy BW + Power supply block (1)	Rear Linergy BS busbars	Linergy BS multi-stage busbars
	 DD119397.ai	 DD119398.ai	 DD386294.ai	 DD386295.ai
Busbars / Distrib blocks	3P : **LVS04033** 4P : **LVS04034+ LVS03002** *> page D-12*	**Linergy BW** *> page D-4*	**LVS04191** + copper bars *> page D-6*	**LVS04192** + copper bars *> pages D-7, D-8*
Power supply block / connection	-	**LVS04061 + LVS04062** (2)  DD119400.ai DD386303.ai *> page C-47*	Connection must be made	
Long terminal shields	-	DD386302.ai 3P : **LV429515** 4P : **LV429516**	DD386301.ai 3P : **LV429517** 4P : **LV429518**	

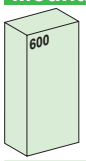
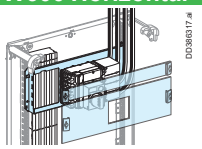
Mounting	W300 Vertical Fixed - Toggle
	 DD386298.ai
Devices	**NSX / NSX Vigi (ELCB)100/250**
Number of devices per row	1
Nb. of vertical modules	**9** or **10**
Mounting plates	**LVS03050**
Front plates [Nb. of vertical modules] cut-out	**LVS03253** [9]
downstream with PowerTag NSX	**LVS03811** [1] **(3)**
Upstream connection	
Cables + Long terminal shields	3P : **LV429517** 4P : **LV429518** DD386301.ai

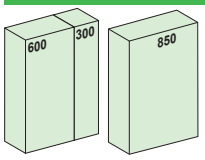
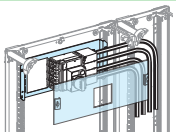
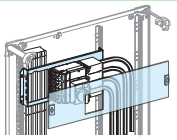
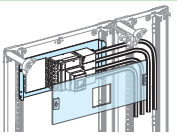
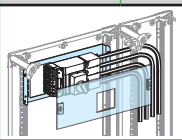
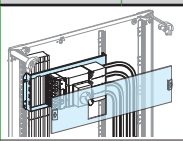
Downstream distribution	Linergy DP 250 A distribution block in duct	Insulated Linergy BW busbars (2)	Rear Linergy BS busbars	Linergy BS multi-stage busbars or multi-stage distribution block
	 DD386299.ai	 DD386300.ai	DD386294.ai	 DD386304.ai
Busbars / Distrib blocks	3P : **LVS04033** + 4P : **LVS04034** **LVS03011** *> page D-12*	**Linergy BW** *> page D-4*	**LVS04191** copper bars *> page D-6*	**LVS04192** copper bars *> pages D-7, D-8*
Power supply block	-	**LVS04061** *> page C-47* DD119400.ai	-	-
Connection	-	**LVS04064** *> page C-47* DD385242.eps	Must be made	**LVS04065** *> page C-48* DD385251.eps
Short / Long terminal shields	-	3P : **LV429515** 4P : **LV429516** DD386302.ai	3P : **LV429517** 4P : **LV429518** DD119385.ai	3P : **LV429515** 4P : **LV429516** DD386302.ai

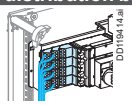
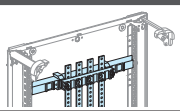
Note: For cable-tie function, add 1 module above. *> page C-51*
(1) 1 device centred on mounting plate.
(2) Space available at the top of the enclosure after mounting the universal power supply block: NSX100/250 = 7 modules.
(3) Mounting 1 module front plate (LVS03811) on the extreme top or bottom is not allowed.

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

Designed for PowerTag NSX
Circuit breakers

Mounting	W600 Horizontal - Fixed - Rotary handle (1)	
		
Devices	**NSX / NSX Vigi (ELCB) 100/160**	
Number of devices per row	1	1
Nb. of vertical modules	**5**	**5**
Mounting plates	**LVS03031**	**LVS03031**
Front plates cut-out	**LVS03232** [4]	**LVS03232** [4]
[Nb. of vertical modules] upstream	**LVS03801** [1]	
downstream		**LVS03801** [1]
Upstream connection		
Long terminal shields	3P : **LV429517** 4P : **LV429518**	

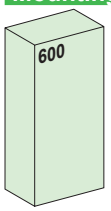
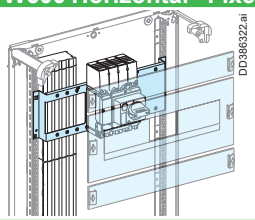
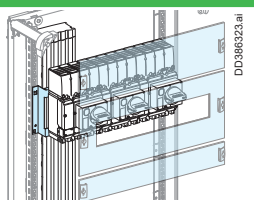
Mounting	W600+W300 Horizontal - Fixed - Rotary handle		W850 Horizontal - Fixed - Rotary handle		W600+W300 Horizontal - Fixed - Motor mechanism module		W600+W300 Horizontal - Plug-in - Toggle	
								
Devices	**NSX / NSX Vigi (ELCB) 100/250**		**NSX / NSX Vigi (ELCB) 100/250**		**NSX / NSX Vigi (ELCB) 100/250**		**NSX100/250**	
Number of devices per row	1	1	1	1	1	1	1	1
Nb. of vertical modules	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**
Mounting plates	**LVS03031**	**LVS03031**	**LVS03031**	**LVS03031**	**LVS03032**	**LVS03032**	**LVS03032**	**LVS03032**
Front plates [Nb. of vert. mod.] cut-out	**LVS03232** [4]	**LVS03232** [4]	**LVS03301** [4]	**LVS03301** [4]	**LVS03234** [4]	**LVS03234** [4]	**LVS03290** [4]	**LVS03290** [4]
With PowerTag NSX								
					-	-	-	-
Front plates [Nb. of vert. mod.] cut-out	**LVS03334** [4]	**LVS03334** [4]	**LVS03335** [4]	**LVS03335** [4]	-	-	-	-
Upstream connection								
Terminal shields	3P : **LV429517** 4P : **LV429518**						**Plug-in base** 3P : **LV429517** 4P : **LV429518**	**Device** 3P : **LV429515** 4P : **LV429516**
+ connection adapter for plug-in base							3P: **LV429306** 4P: **LV429307**	

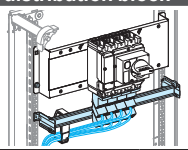
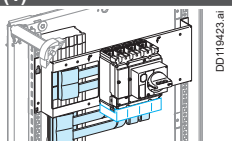
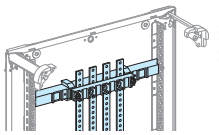
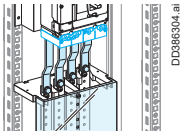
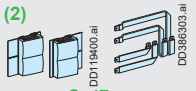
Downstream distribution	Linergy DP 250 A distribution block	Linergy BW + Power supply block (2)	Rear Linergy BS busbars	Linergy BS multi-stage busbars
				
Busbars / Distrib blocks	3P : **LVS04033**, 4P : **LVS04034** *> page D-12*	**Linergy BW** *> page D-4*	**LVS04191** + copper bars *> page D-6*	**LVS04192** + copper bars *> pages D-7, D-8*
Power supply block / connection		**LVS04060** *> page C-46*	Connection must be made	
Long terminal shields	-		3P : **LV429517** 4P : **LV429518**	

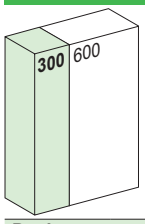
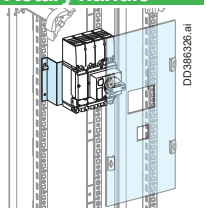
Note: For cable-tie function, add 2 modules above. *> page C-51*
(1) Maximum size of connection cables: 70 mm². For cable cross-sections greater than 70 mm², use of a cable duct is recommended.
(2) With motor mechanism, use power supply units with connections (cat no.LVS**04061**) + connection to make with Linergy BW. >page D5

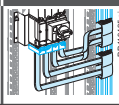
ComPacT and ComPacT Vigi (ELCB) NSX 100/160/250
Vertical mounting - Fixed - Rotary handle
W600 - W300

Designed for PowerTag NSX
Circuit breakers

Mounting		W600 Horizontal - Fixed - Rotary handle (1)	
		 DD386322.ai	 DD386323.ai
Devices		**NSX / NSX Vigi (ELCB) 100/160**	**NSX / NSX Vigi (ELCB) 250**
Number of devices per row		1 or 4 x 3P or 3 x 4P	1 or 4 x 3P or 3 x 4P
Nb. of vertical modules		**9** or **10**	**11** or **12**
Mounting plates		**LVS03041**	**LVS03041**
Front plates [Nb. of vertical modules]	cut-out	**LVS03243** [5]	**LVS03243** [5]
	upstream	**LVS03802** [2]	**LVS03804** [4]
	downstream	**LVS03802** [2]	**LVS03802** [2]
	downstream with PowerTag NSX	**LVS03803** [3]	**LVS03803** [3]
Upstream connection			
Long terminal shields		DD386301.ai 3P : **LV429517** 4P : **LV429518**	
Divisible blanking plates (HxL)	46 x 1000 mm	DD386312.ai **LVS03220** ComPacT NSX 3P or 4P without electronic trip unit	
	46 x 90 mm (x4)	**LVS03221** ComPacT NSX 3P or 4P with electronic trip unit	

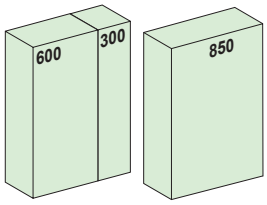
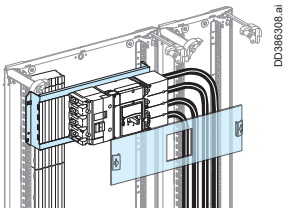
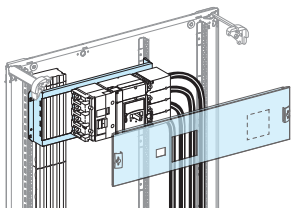
Downstream distribution	Linergy DP 250 A distribution block	Linergy BW + Power supply block (1)	Rear Linergy BS busbars	Linergy BS multi-stage busbars
	 DD119422.ai	 DD119423.ai	 DD386294.ai	 DD386304.ai
Busbars / Distrib blocks	3P : **LVS04033** + 4P : **LVS04034** **LVS03002** *> page D-12*	**Linergy BW** *> page D-4*	**LVS04191** + copper bars *> page D-6*	**LVS04192** + copper bars *> pages D-7, D-8*
Power supply block / connection		**LVS04061** + **LVS04062** (2)  DD119400.ai DD386303.ai *> page C-47*	Connection must be made	
Long terminal shields		DD386302.ai 3P : **LV429515** 4P : **LV429516**	DD119385.ai 3P : **LV429517** 4P : **LV429518**	

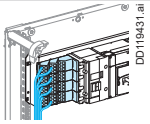
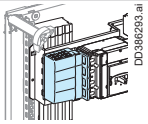
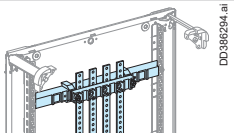
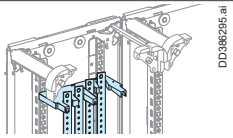
Mounting	W300 Vertical - Fixed - Rotary handle
	 DD386326.ai
Devices	**NSX / NSX Vigi (ELCB) 100/250**
Number of devices per row	1
Nb. of vertical modules	**9** or **10**
Mounting plates	**LVS03051**
Front plates [Nb. of vertical modules] cut-out	**LVS03253** [9]
downstream with PowerTag NSX	**LVS03811** [1] **(3)**
Upstream connection	
Long terminal shields	DD386301.ai 3P : **LV429517** 4P : **LV429518**

Downstream distribution	Linergy DP 250 A distribution block in duct	Insulated Linergy BW busbars (2)	Rear Linergy BS busbars	Linergy BS multi-stage busbars or multi-stage distribution block
	DD119424.ai	 DD119425.ai	DD386294.ai	DD386304.ai
Busbars / Distrib blocks	3P : **LVS04033** 4P : **LVS04034** + **LVS03011** *> page D-12*	**Linergy BW** *> page D-4*	**LVS04191** copper bars *> page D-6*	**LVS04192** copper bars *> pages D-7, D-8*
Power supply block	-	**LVS04061** *> page C-47* DD119400.ai	-	-
Connection block	-	**LVS04064** *> page C-47* DD385242.eps	Must be made	**LVS04065** *> page C-48* DD386251.eps
Short / Long terminal shields	-	3P : **LV429515** 4P : **LV429516** DD386302.ai	3P : **LV429517** 4P : **LV429518** DD119385.ai	3P : **LV429515** 4P : **LV429516** DD386302.ai

Note: For cable-tie function, add 1 module above. *> page C-51*
(1) 1 device centred on mounting plate.
(2) Space available at the top of the enclosure after mounting the universal power supply block: NSX100/250 = 7 modules.
(3) Mounting 1 module front plate (LVS03811) on the extreme top or bottom is not allowed.

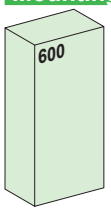
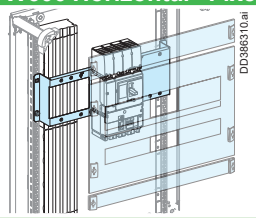
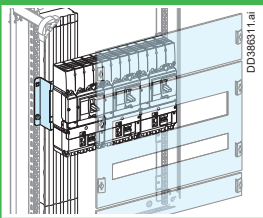
VigicomPacT NSX100/160/250
Horizontal mounting - Fixed - Toggle
W600+W300 - W850

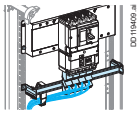
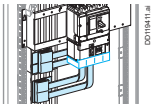
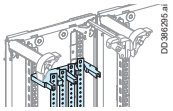
Mounting	W600+W300 Horizontal - Fixed - Toggle		W850 Horizontal - Fixed - Toggle	
				
Devices	**Vigi NSX100/250** with ammeter module or Vigi		**Vigi NSX100/250**	
Number of devices per row	1	1	1	1
Nb. of vertical modules	**4**	**4**	**4**	**4**
Mounting plates	**LVS03033**	**LVS03033**	**LVS03033**	**LVS03033**
Front plates cut-out [Nb. of vertical modules]	**LVS03292** [4]	**LVS03292** [4]	**LVS03295** [4]	**LVS03295** [4]
Upstream connection				
Long terminal shields	3P : **LV429517** 4P : **LV429518** 			

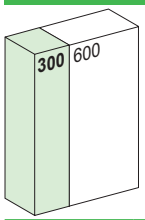
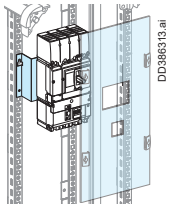
Downstream distribution	Linergy DP 250 A distribution block	Linergy BW + Power supply block	Rear Linergy BS busbars	Linergy BS multi-stage busbars
				
Busbars / Distrib blocks	3P : **LVS04033** 4P : **LVS04034** *> page D-12*	**Linergy BW** *> page D-4*	**LVS04191** + copper bars *> page D-6*	**LVS04192** + copper bars *> pages D-7, D-8*
Power supply block / connection	-	**LVS04060** *> page C-46* 	Connection must be made	
Long terminal shields	-		3P : **LV429517** 4P : **LV429518** 	

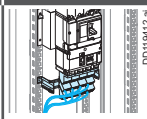
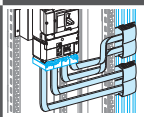
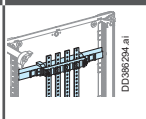
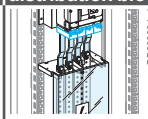
Note: For cable-tie function, add 2 modules above. *> page C-48*

VigicomPacT NSX100/160/250
Vertical mounting - Fixed - Toggle
W600 - W300

Mounting		W600 Horizontal - Fixed - Toggle (1)	
			
Devices		**Vigi NSX100/160**	**Vigi NSX250**
Number of devices per row		1 or 4 x 3P or 3 x 4P	1 or 4 x 3P or 3 x 4P
Nb. of vertical modules		**10**	**13**
Mounting plates		**LVS03040**	**LVS03040**
Front plates	cut-out	**LVS03241** [7]	**LVS03241** [7]
[Nb. of vertical modules]	upstream	**LVS03802** [2]	**LVS03804** [4]
	downstream	**LVS03801** [1]	**LVS03802** [2]
Upstream connection			
Long terminal shields		3P : **LV429517** 4P : **LV429518**	
Divisible blanking plates (HxL)	107 x 147 mm 85 x 147 mm	**LVS03222** ComPacT NSX 3P or 4P + Vigi without electronic trip unit **LVS03249** ComPacT NSX 3P or 4P + Vigi with electronic trip unit - Set of 1 strip	

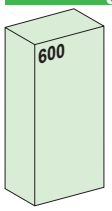
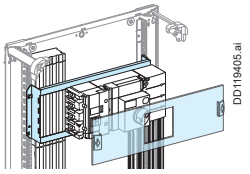
Downstream distribution	Linergy DP 250 A distribution block	Linergy BW + Power supply block (1)	Rear Linergy BS busbars	Linergy BS multi-stage busbars
				
Busbars / Distrib blocks Power supply block	3P : **LVS04033** + **LVS03002** 4P : **LVS04034** *> page D-12*	**Linergy BW** *> page D-4*	**LVS04191** + copper bars *> page D-6*	**LVS04192** + copper bars *> pages D-7, D-8*
Power supply block / connection		**LVS04061** (2) *> page C-47*	Connection must be made	
Long terminal shields	-	3P : **LV429517** 4P : **LV429518**		

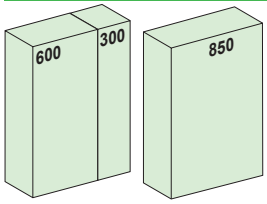
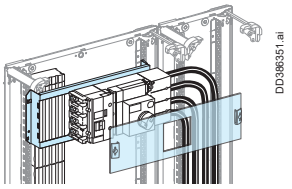
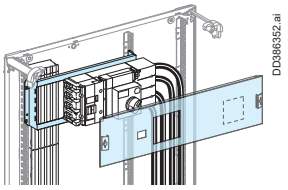
Mounting	W300 Vertical - Fixed - Toggle
	
Devices	**Vigi NSX100/250**
Number of devices per row	1
Nb. of vertical modules	**13**
Mounting plates	**LVS03050**
Front plates cut-out	**LVS03293** [11]
[Nb. of vertical modules] upstream	**LVS03812** [2]
Upstream connection	
Long terminal shields	3P : **LV429517** 4P : **LV429518**

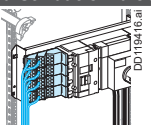
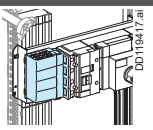
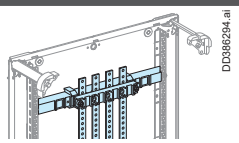
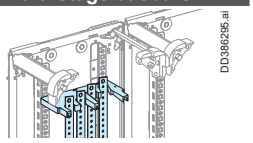
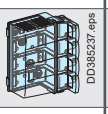
Downstream distribution	Linergy DP 250 A distribution block in duct	Insulated Linergy BW busbars (2)	Rear Linergy BS busbars	Linergy BS multi-stage busbars or multi-stage distribution block
				
Busbars / Distrib blocks	3P : **LVS04033** + **LVS03011** 4P : **LVS04034** *> page D-12*	**Linergy BW** *> page D-4*	**LVS04191** + copper bars *> page D-6*	**LVS04192** + copper bars *> pages D-7, D-8*
Power supply block	-	**LVS04061** *> page C-47* 	-	-
Connection	-	Must be made		**LVS04065** *> page C-48*
Short / Long terminal shields	-	3P : **LV429517** 4P : **LV429518** 		3P : **LV429515** 4P : **LV429516**

New: Earth leakage protection inside circuit breaker size NSX Vigi (ELCB) PrismaSeT functional units *> page C-7*
Note: For cable-tie function, add 1 module above. *> page C-51*
(1) 1 device centred on mounting plate.
(2) Space available at the top of the enclosure after mounting the universal power supply block:
- Vigi NSX100/250 = 9 modules.Space required by power supply block on Linergy BW busbars = 5 modules.

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

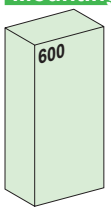
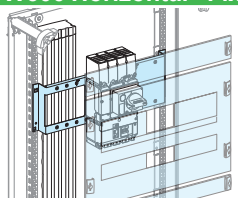
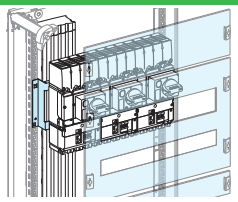
Mounting	W600 Horizontal - Fixed - Rotary handle (1)	
		
Devices	**Vigi NSX100/160**	
Number of devices per row	1	1
Nb. of vertical modules	**5**	**5**
Mounting plates	**LVS03031**	**LVS03031**
Front plates cut-out	**LVS03292** [4] + **LV429285** (collar)	**LVS03292** [4] + **LV429285** (collar)
[Nb. of vertical upstream	**LVS03801** [1]	-
modules] downstream	-	**LVS03801** [1]
Upstream connection		
Long terminal shields	3P : **LV429517** 4P : **LV429518**	

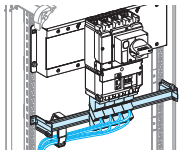
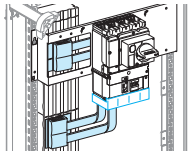
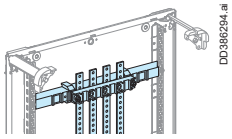
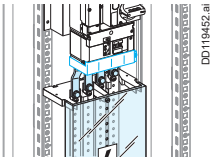
Mounting	W600+W300 Horizontal - Fixed - Rotary handle		W850 Horizontal - Fixed - Rotary handle	
				
Devices	**Vigi NSX100/250**		**Vigi NSX100/250**	
Number of devices per row	1	1	1	1
Nb. of vertical modules	**4**	**4**	**4**	**4**
Mounting plates	**LVS03031**	**LVS03031**	**LVS03031**	**LVS03031**
Front plates [Nb. of vertical modules]	**LVS03292** [4] + **LV429285** (collar)	**LVS03292** [4] + **LV429285** (collar)	**LVS03295** [4] + **LV429285** (collar)	**LVS03295** [4] + **LV429285** (collar)
Upstream connection				
Long terminal shields	3P : **LV429517** 4P : **LV429518**			

Downstream distribution	Linergy DP 250 A distribution block	Linergy BW + Power supply block	Rear Linergy BS busbars	Linergy BS multi-stage busbars
				
Busbars / Distrib blocks	3P : **LVS04033** 4P : **LVS04034** *> page D-12*	**Linergy BW** *> page D-4*	**LVS04191** copper bars *> page D-6*	**LVS04192** copper bars *> pages D-7, D-8*
Power supply block / connection	-	**LVS04060** *> page C-46* 	Connection must be made	
Long terminal shields	-		3P : **LV429517** 4P : **LV429518**	

Note: For cable-tie function, add 2 modules above. *> page C-51*
(1) Maximum size of connection cables: 70 mm². For cable cross-sections greater than 70 mm², use of a cable duct is recommended.

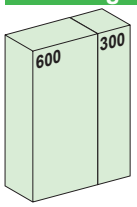
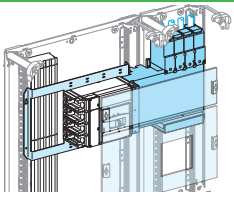
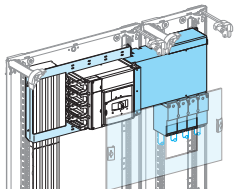
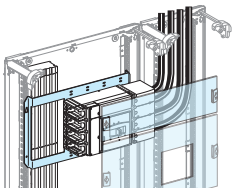
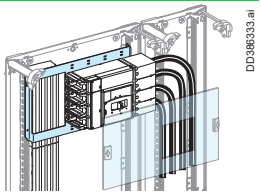
VigicomPacT NSX100/160/250
Vertical mounting - Fixed - Rotary handle
W600

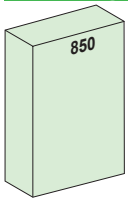
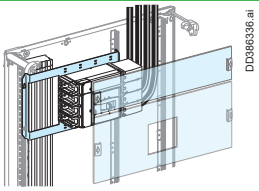
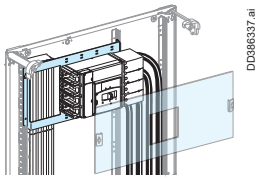
Mounting		W600 Horizontal - Fixed - Rotary handle (1)	
		 DD386324.ai	 DD386325.ai
Devices		**Vigi NSX100/160**	**Vigi NSX250**
Number of devices per row		1 or 4 x 3P or 3 x 4P	1 or 4 x 3P or 3 x 4P
Nb. of vertical modules		**10**	**13**
Mounting plates		**LVS03041**	**LVS03041**
Front plates [Nb. of vertical modules]	cut-out	**LVS03244** [7] + **LV429285 (collar)**	**LVS03244** [7] + **LV429285 (collar)**
	upstream	**LVS03802** [2]	**LVS03804** [4]
	downstream	**LVS03801** [1]	**LVS03802** [2]
Upstream connection			
Long terminal shields		DD386301.ai 3P : **LV429517** 4P : **LV429518**	
Divisible blanking plates (HxL)	107 x 147 mm	DD386312.ai **LVS03222** ComPacT NSX 3P or 4P + Vigi without electronic trip unit	
	85 x 147 mm	**LVS03249** ComPacT NSX 3P or 4P + Vigi with electronic trip unit - Set of 1 strip	

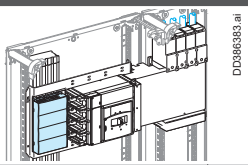
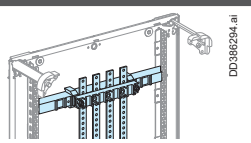
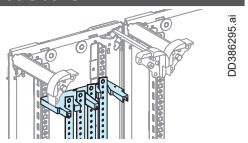
Downstream distribution	Linergy DP 250 A distribution block	Linergy BW + Power supply block (2)	Rear Linergy BS busbars	Linergy BS multi-stage busbars
	 DD119440.ai	 DD119441.ai	 DD386294.ai	 DD119452.ai
Busbars / Distrib blocks	3P : **LVS04033** + **LVS03002** 4P : **LVS04034** + **LVS03002** *> page D-12*	**Linergy BW** *> page D-4*	**LVS04191** copper bars *> page D-6*	**LVS04192** copper bars *> pages D-7, D-8*
Power supply block / connection	-	DD119400.ai **LVS04061** + connection must be made	Connection must be made	
Terminal shields	-	DD386302.ai 3P : **LV429515** 4P : **LV429516**	DD119385.ai 3P : **LV429517** 4P : **LV429518**	

New: Earth leakage protection inside circuit breaker size NSX Vigi (ELCB) PrismaSeT functional units *> page C-9*
Note: For cable-tie function, add 1 module above. *> page C-51*
(1) 1 device centred on mounting plate.
(2) Space available at the top of the enclosure after mounting the universal power supply block:
- Vigi NSX100/250 = 9 modules.Space required by power supply block on Linergy BW busbars = 5 modules.

ComPacT and ComPacT Vigi (ELCB) NSX 400/630
Horizontal mounting - Fixed - Toggle
W600+W300 - W850

Mounting	W600+W300 Horizontal - Fixed - Toggle			
		 DD386330.ai	 DD386331.ai	 DD386332.ai	 DD386333.ai
Devices	**NSX / NSX Vigi (ELCB) 400/630**		**NSX / NSX Vigi (ELCB) 400/630**	
	DD386281.ai	DD386282.ai	DD386281.ai	DD386282.ai
Number of devices per row	1	1	1	1
Nb. of vertical modules	**9**	**6**	**9**	**6**
Mounting plates	**LVS03070**	**LVS03070**	**LVS03070**	**LVS03070**
Front plates cut-out	**LVS03296** [6]	**LVS03296** [6]	**LVS03296** [6]	**LVS03296** [6]
[Nb. of vertical modules] upstream	**LVS03803** [3]	-	**LVS03803** [3]	-
Upstream connection				
Incoming connection block or cables + Long terminal shields	**LVS04076** *> page C-46* DD386334.ai	**LVS04076** *> page C-46* DD386335.ai	3P : **LV432593** 4P : **LV432594** DD386301.ai	

Mounting	W850 Horizontal - Fixed - Toggle	
		 DD386336.ai  DD386337.ai
Devices	**NSX / NSX Vigi (ELCB) 400/630**	
	DD386306.ai	DD386307.ai
Number of devices per row	1	1
Nb. of vertical modules	**9**	**6**
Mounting plates	**LVS03070**	**LVS03070**
Front plates cut-out	**LVS03289** [6]	**LVS03289** [6]
[Nb. of vertical modules] upstream	**LVS03853** [3]	-
Upstream connection		
Incoming connection block or cables + Long terminal shields	DD386301.ai 3P : **LV432593** 4P : **LV432594**	

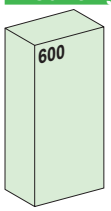
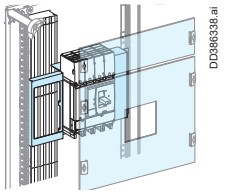
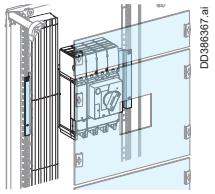
Downstream distribution	Insulated Linergy BW busbars		Rear Linergy BS busbars		Linergy BS multi-stage busbars
		 DD386383.ai	 DD386294.ai		 DD386295.ai
Type of connected devices	**NSX400**	**NSX630**	**NSX400**	**NSX630**	**All types**
Busbars	**Linergy BW** *> page D-4*		**LVS04191** + copper bars *> page D-6*	**LGY4193** + copper bars *> page D-6*	**LVS04192** + copper bars *> pages D-7, D-8*
Power supply block / connection	DD385238.eps **LVS04070** *> page C-46*	DD385239.eps **LVS04071** *> page C-46*	Connection must be made		
Long terminal shields	-		DD386301.ai 3P : **LV429593** 4P : **LV429594**		

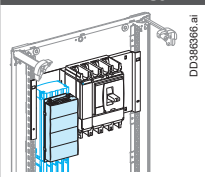
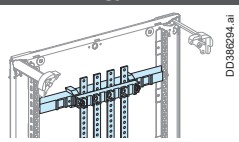
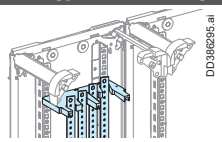
Note: For cable-tie function, add 2 modules above. *> page C-51*

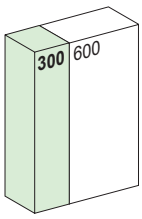
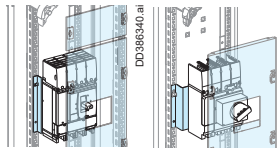
ComPacT and ComPacT Vigi (ELCB) NSX 400/630
Vertical mounting - Fixed - Toggle / Rotary handle
W600 - W300

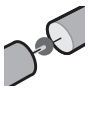
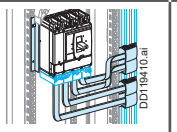
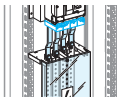
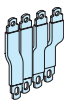
Designed for PowerTag NSX
Circuit breakers

C

Mounting	W600 Vertical - Fixed - Toggle		W600 Vertical - Fixed - Rotary handle
			
Devices	**NSX / NSX Vigi (ELCB) 400**	**NSX / NSX Vigi (ELCB) 630**	**NSX / NSX Vigi (ELCB) 400/630**
Number of devices per row **(2)**	1	1	1
Nb. of vertical modules	**12** or **14**	**13** or **15**	**15** or **17**
Mounting plates	**LVS03073**	**LVS03073**	**LVS03074**
Front plates [Nb. of vertical modules] cut-out	**LVS03275** [9]	**LVS03275** [9]	**LVS03275** [9]
upstream	**LVS03803** [3]	**LVS03803** [3]	**LVS03803** [3]
downstream	-	**LVS03801** [1]	**LVS03803** [3]
downstream with PowerTag NSX	**LVS03802** [2]	**LVS03803** [3]	**LVS03805** [5]
Upstream connection			
Cables + Long terminal shields	3P : **LV432593** 4P : **LV432594**		

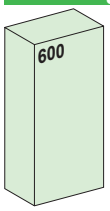
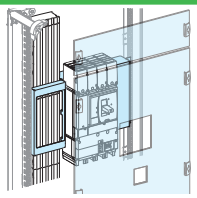
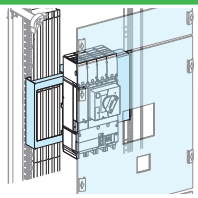
Downstream distribution	Insulated Linergy BW busbars (1)	Rear Linergy BS busbars		Linergy BS multi-stage busbars
				
Type of connected devices		**NSX400**	**NSX630**	**All types**
Busbars	**Linergy BW** *> page D-4*	**LVS04191** + copper bars *> page D-6*	**LGY4193** + copper bars *> page D-6*	**LVS04192** + copper bars *> pages D-7, D-8*
Power supply block / connection	**LVS04074** Connection must be made *> page C-47*	Connection must be made		
Long terminal shields	3P : **LV432593** 4P : **LV432594**			

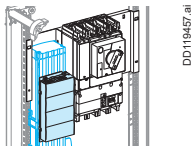
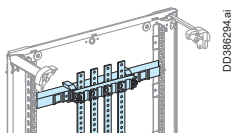
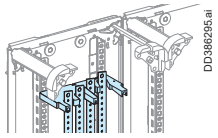
Mounting	W300 Vertical - Fixed Toggle	Rotary handle
		
Devices	**NSX / NSX Vigi (ELCB) 400/630**	
Number of devices per row	1	1
Nb. of vertical modules	**12 or 16**	**12 or 14**
Mounting plates	**LVS03080**	**LVS03081**
Front plates [Nb. of vertical modules] cut-out	**LVS03298** [8]	**LVS03283** [12]
upstream	**LVS03812** [2]	-
downstream	**LVS03812** [2]	-
downstream with PowerTag NSX	**LVS03814** [4]	**LVS03812** [2]
Upstream connection		
Cables + Long terminal shields	3P : **LV432593** 4P : **LV432594**	

Downstream distribution	Insulated Linergy BW busbars (2)	Rear Linergy BS busbars	Linergy BS multi-stage busbars
	 		
Busbars	**Linergy BW** *> page D-4*	**LVS04191/LGY4193** + copper bars *> page D-6*	**LVS04192** + copper bars *> pages D-7, D-8*
Power supply block	**LVS04074** *> page C-47*	-	-
Connection	**LVS04073** *> page C-47*	Must be made	**LVS04075** *> page C-48* 
Short/Long terminal shields	3P : **LV432591** 4P : **LV432592**	3P : **LV432593** 4P : **LV432594**	3P : **LV432591** 4P : **LV432592**
Barrier	Included	**LVS04198**	**LVS04197**

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

VigicomPacT NSX400/630
Vertical mounting - Fixed - Toggle / Rotary handle
W600

Mounting	W600 Vertical - Fixed - Toggle		W600 Vertical - Fixed - Rotary handle
			
Devices	**Vigi NSX400** (1)	**Vigi NSX630** (1)	**Vigi NSX400/630** (1)
Number of devices per row	1	1	1
Nb. of vertical modules	**14**	**15**	**18**
Mounting plates	**LVS03073**	**LVS03073**	**LVS03074**
Front plates cut-out	**LVS03297** [11]	**LVS03297** [11]	**LVS03297** [11] + **LV429285** (collar)
[Nb. of vertical modules] upstream	**LVS03803** [3]	**LVS03803** [3]	**LVS03803** [3]
[Nb. of vertical modules] downstream		**LVS03801** [1]	**LVS03804** [4]
Upstream connection			
Cables + Long terminal shields	3P : **LV432593** 4P : **LV432594**		

Downstream distribution	Linergy BW + Power supply bloc (1)	Rear Linergy BS busbars		Linergy BS multi-stage busbars
				
Type of connected devices		**NSX400**	**NSX630**	**All types**
Busbars	**Linergy BW** *> page D-4*	**LVS04191** + copper bars *> page D-6*	**LGY4193** + copper bars *> page D-6*	**LVS04192** + copper bars *> pages D-7, D-8*
Power supply block / connection	**LVS04074** Connection must be made *> page C-47*	Connection must be made		
Long terminal shields	3P : **LV432593** 4P : **LV432594**			

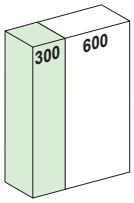
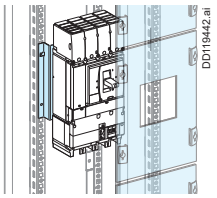
(1) Space required by power supply block on Linergy BW busbars = 5 modules.

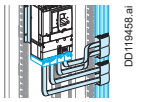
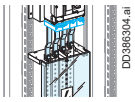
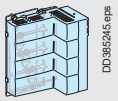
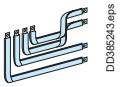
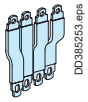
PrismaSeT G Active - Functional units

VigicomPacT NSX400/630

Vertical mounting - Fixed - Toggle / Rotary handle

W300

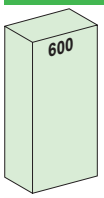
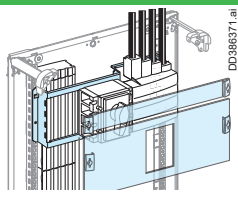
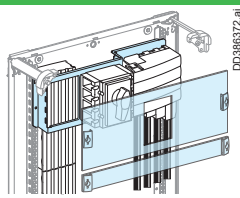
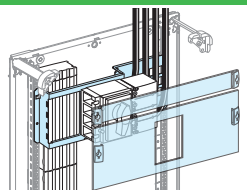
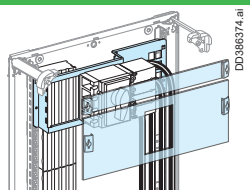
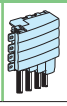
Mounting		W300 Vertical - Fixed - Toggle
		
Devices		**Vigi NSX400/630**
Number of devices per row		1
Nb. of vertical modules		**14**
Mounting plates		**LVS03080**
Front plates [Nb. of vertical modules]	cut-out	**LVS03299** [10]
	upstream	**LVS03812** [2]
	downstream	**LVS03812** [2]
Upstream connection		
Cables + Long terminal shields		3P : **LV432593** 4P : **LV432594**

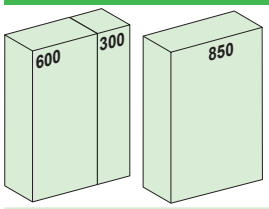
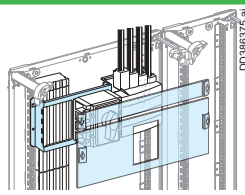
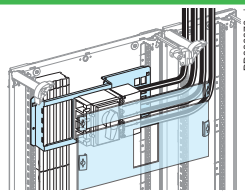
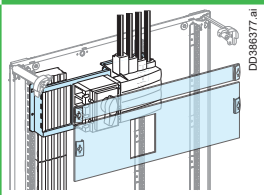
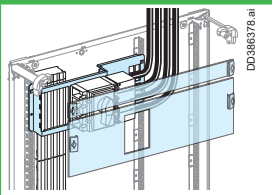
Downstream distribution	Insulated Linergy BW busbars (2)	Rear Linergy BS busbars	Linergy BS multi-stage busbars
			
Busbars	**Linergy BW** *> page D-4*	**LVS04191 / LGY4193** + copper bars *> page D-6*	**LVS04192** + copper bars *> pages D-7, D-8*
Power supply block	**LVS04074** *> page D-5* 	-	-
Connection	**LVS04073** *> page D-5* 	Must be made	**LVS04075** *> page D-7* 
Short/Long terminal shields	3P : **LV432591** 4P : **LV432592**	3P : **LV432593** 4P : **LV432594**	3P : **LV432591** 4P : **LV432592**
Barrier	Included	**LVS04198**	**LVS04197**

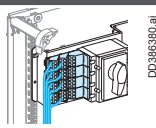
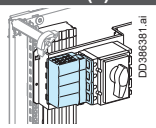
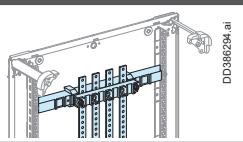
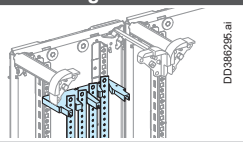
New: Earth leakage protection inside circuit breaker size NSX Vigi (ELCB) PrismaSeT functional units *> page C-15*
Note: For cable-tie function, add 1 module above. *> page C-51*
(2) Space required by power supply block on insulated Linergy BW busbars = 5 modules.

Compact INS-INV100/160/250
Horizontal mounting - Fixed - Direct front handle
W600 - W600+W300 - W850

Switch-disconnector

Mounting	W600 Horizontal - Fixed - Direct front handle			
					
Devices		**INS250-INV100/160**		**INS250-INV100/160**	
Number of devices per row		1	1	1	1
Nb. of vertical modules		**5**	**5**	**5**	**5**
Mounting plates		**LVS03030**	**LVS03030**	**LVS03030**	**LVS03030**
Front plates cut-out		**LVS03231** [4]	**LVS03231** [4]	**LVS03231** [4]	**LVS03231** [4]
[Nb. of vertical modules] upstream		**LVS03801** [1]	-	**LVS03801** [1]	-
[Nb. of vertical modules] downstream		-	**LVS03801** [1]	-	**LVS03801** [1]
Upstream connection					
Incoming connection block or cables + Long terminal shields		**LVS04066** *> page C-46*	 **LVS04067** *> page C-46*	3P : **LV429517** 4P : **LV429518**	

Mounting	W600+W300 Horizontal - Fixed - Direct front handle				W850 Horizontal - Fixed - Direct front handle			
								
Devices		**INS-INV100/160/250**		**INS-INV100/160/250**		**INS-INV100/160/250**		**INS-INV100/160/250**
Number of devices per row		1	1	1	1	1	1	1	1
Nb. of vertical modules		**5**	**5**	**4**	**4**	**5**	**5**	**4**	**4**
Mounting plates		**LVS03030**	**LVS03030**	**LVS03030**	**LVS03030**	**LVS03030**	**LVS03030**	**LVS03030**	**LVS03030**
Front plates cut-out		**LVS03231** [4]	**LVS03231** [4]	**LVS03231** [4]	**LVS03231** [4]	**LVS03239** [4]	**LVS03239** [4]	**LVS03239** [4]	**LVS03239** [4]
[Nb. of vertical modules] upstream		**LVS03801** [1]	-	-	-	**LVS03851** [1]	-	-	-
[Nb. of vertical modules] downstream		-	**LVS03801** [1]	-	-	-	**LVS03851** [1]	-	-
Upstream connection									
Incoming connection block or cables + Long terminal shields		**LVS04066** *> page C-46*	**LVS04067** *> page C-46*	3P : **LV429517** 4P : **LV429518**		**LVS04066** *> page C-46*	**LVS04067** *> page C-46*	3P : **LV429517** 4P : **LV429518**	

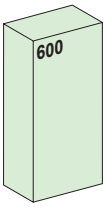
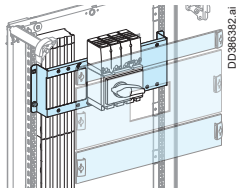
Downstream distribution	Linergy DP 250 A distribution block	Insulated Linergy BW busbars (1)	Rear Linergy BS busbars	Linergy BS multi-stage busbars
					
Type of connected devices	**INS250-INV100/250**	**INS250-INV100/250**	**INV-INV250**	**INV-INV250**
Busbars / Distrib blocks	3P : **LVS04033** 4P : **LVS04034** *> page D-12*	**Linergy BW** *> page D-4*	**LVS04191** + copper bars *> page D-6*	**LVS04192** + copper bars *> pages D-7, D-8*
Power supply block / connection	Connection must be made	**LVS04060** *> page C-46*	Connection must be made	
Long terminal shields	-		3P : **LV429517** 4P : **LV429518**	3P : **LV429517** 4P : **LV429518**

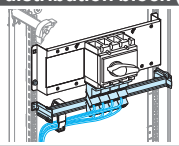
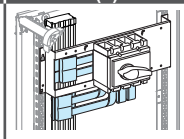
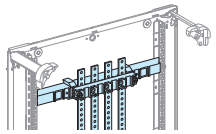
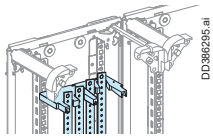
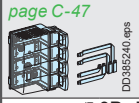
Note: For cable-tie function, add 2 modules above. *> page C-51*
(1) Maximum size of connection cables: 70 mm². For cable cross-sections greater than 70 mm², use of a cable duct is recommended.

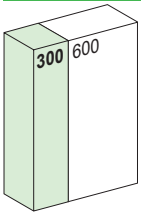
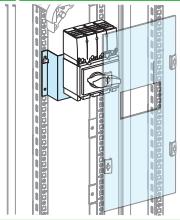
Compact INS-INV100/250
Vertical mounting - Fixed - Direct front handle
W600 - W300

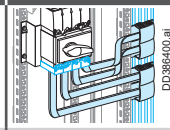
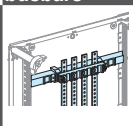
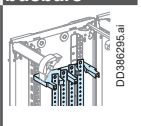
Designed for PowerTag NSX
Switch-disconnector

C

Mounting	W600 Vertical - Fixed with or without spreaders	
		
Devices	**INS250-INV100/160/250**	**INS-INV250 lateral handle**
Number of devices per row	1	1
Nb. of vertical modules	**8** or **9**	**8** or **9**
Mounting plates	**LVS03040**	**LVS03032**
Front plates cut-out	**LVS03248** [5]	**LVS03806** [6] (plain front plate)
[Nb. of vertical modules] upstream	**LVS03801** [1]	-
downstream	**LVS03802** [2]	**LVS03802** [2]
downstream with PowerTag NSX	**LVS03803** [3]	**LVS03803** [3]
Upstream connection		
Cables + Long terminal shields	3P : **LV429517** 4P : **LV429518**	3P : **LV429517** 4P : **LV429518**

Downstream distribution	Linergy DP 250 A distribution block (1)		Insulated Linergy BW busbars (2)	Rear Linergy BS busbars	Linergy BS multi-stage busbars
					
Type of connected devices	**Direct front handle INS-INV100/250**	**Lateral handle INS-INV100/250**	**INS-INV100/250**	**INS-INV250**	**INS-INV250**
Busbars / Distrib blocks	3P : **LVS04033** 4P : **LVS04034** + **LVS03002** *> page D-12*	3P : **LVS04033** 4P : **LVS04034** + **LVS04037** (3) + **LVS03003** *> page D-12*	**Linergy BW** *> page D-4*	**LVS04191** + copper bars *> page D-6*	**LVS04192** + copper bars *> pages D-7, D-8*
Power supply block / connection	-		**LVS04060** + **LVS04062** *> page C-47* 	Connection must be made	
Long terminal shields	-		3P : **LV429515** 4P : **LV429516**	3P : **LV429517** 4P : **LV429518**	3P : **LV429517** 4P : **LV429518**

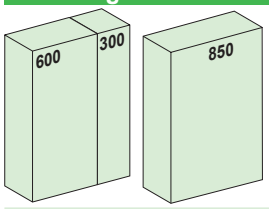
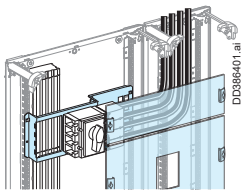
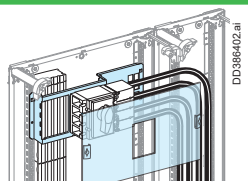
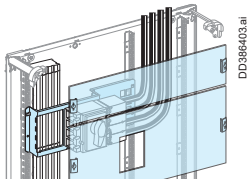
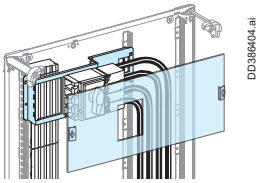
Mounting	W300 Vertical - Fixed with or without spreaders
	
Devices	**INS-INV100/160/250**
Number of devices per row	1
Nb. of vertical modules	**9** or **10**
Mounting plates	**LVS03050**
Front plates cut-out	**LVS03251** [9]
[Nb. of vert. modules] downstream with PowerTag NSX	**LVS03811** [1] (4)
Upstream connection	
Cables + Long terminal shields	3P : **LV429517** 4P : **LV429518**

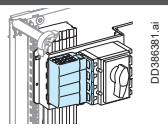
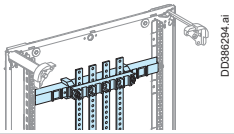
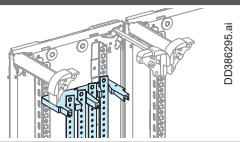
Downstream distribution	Linergy DP 250 A distribution block	Insulated Linergy BW busbars (2)	Rear Linergy BS busbars	Linergy BS multi-stage busbars
				
Type of connected devices	**Direct front handle INS-INV100/250**	**INS-INV100/250**	**INS-INV100/250**	**INS-INV100/250**
Busbars / Distrib blocks	3P : **LVS04033** 4P : **LVS04034** + **LVS03011** *> page D-12*	**Linergy BW** *> page D-4*	**LVS04191** + copper bars *> page D-6*	**LVS04192** + copper bars *> pages D-7, D-8*
Power supply block / connection	-	**LVS04061** + **LVS04064** *> page C-47*	Connection must be made	
Long terminal shields	-	3P : **LV429515** 4P : **LV429516**	3P : **LV429517** 4P : **LV429518**	3P : **LV429517** 4P : **LV429518**

Note: For cable-tie function, add 1 module above. *> page C-51*
(1) 1 device centred on mounting plate.
(2) Space available at the top of the enclosure after mounting the universal power supply block: 7 modules.
Space required by power on insulated Linergy BW busbars = 5 modules.
(3) Copper spacer.
(4) Mounting 1 module front plate (LVS03811) on the extreme top or bottom is not allowed.

Compact INS-INV320/630
Horizontal mounting - Fixed - Direct front handle
W600+W300 - W850

Switch-disconnector

Mounting	W600+W300 Horizontal fixed		W850 Horizontal - Fixed	
	 		 	
Devices	**INS-INV320/630**		**INS-INV320/630**	
Number of devices per row	1	1	1	1
Nb. of vertical modules	**9**	**6**	**9**	**6**
Mounting plates	**LVS03070**	**LVS03070**	**LVS03070**	**LVS03030**
Front plates cut-out	**LVS03271** [6]	**LVS03271** [6]	**LVS03287** [6]	**LVS03287** [6]
[Nb. of vertical modules] upstream	**LVS03803** [3]	-	**LVS03853** [3]	-
Upstream connection				
Cables + Long terminal shields	3P : **LV432593** 4P : **LV432594**			

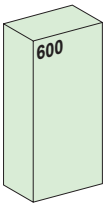
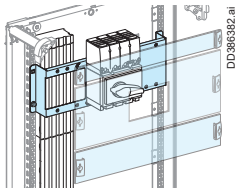
W600 downstream distribution	Insulated Linergy BW busbars		Rear Linergy BS busbars	Linergy BS multi-stage busbars
				
Type of connected devices	**INS-INV320/400**	**INS-INV500/630**	**INS-INV320/630**	**INS-INV320/630**
Busbars / Distrib blocks	**Linergy BW** *> page D-4*	**Linergy BW** *> page D-4*	**LVS04191 / LGY4193** + copper bars *> page D-6*	**LVS04192** + copper bars *> pages D-7, D-8*
Power supply block / connection	**LVS04070** *> page C-46*	**LVS04071** *> page C-46*	Connection must be made	
Long terminal shields	-		3P : **LV432593** 4P : **LV432594** 	3P : **LV432593** 4P : **LV432594**

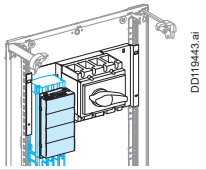
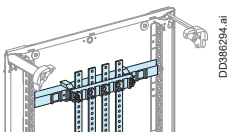
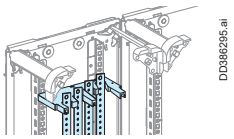
Note: For cable-tie function, add 2 modules above. *> page C-48*

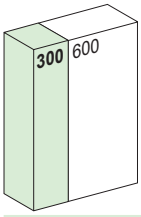
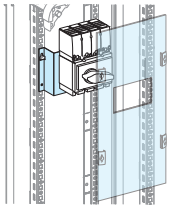
Compact INS-INV320/630
Vertical mounting - Fixed - Direct front handle
W600 - W300

Designed for PowerTag NSX
Switch-disconnector

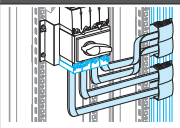
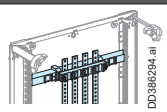
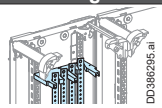
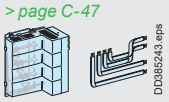
C

Mounting	W600 Vertical - Fixed with or without spreaders	
		
Devices	**INV320/400**	**INV500/630**
Number of devices per row	1	1
Nb. of vertical modules	**10** or **12**	**12** or **14**
Mounting plates	**LVS03073**	**LVS03073**
Front plates [Nb. of vertical modules] cut-out	**LVS03274** [10]	**LVS03274** [10]
upstream	-	**LVS03802** [2]
downstream with PowerTag NSX	**LVS03802** [2]	**LVS03804** [4]
Upstream connection		
Cables + Long terminal shields	3P : **LV429593** 4P : **LV429594**	

Downstream distribution	Insulated Linergy BW busbars	Rear Linergy BS busbars		Linergy BS multi-stage busbars
				
Type of connected devices	**INS-INV320/630**	**INS-INV320/400**	**INS-INV400/630**	**INS-INV320/630**
Busbars	**Linergy BW** *> page D-4*	**LVS04191** + copper bars *> page D-6*	**LGY4193** + copper bars *> page D-6*	**LVS04192** + copper bars *> pages D-7, D-8*
Power supply block / connection	**LVS04074** *> page C-47* Connection must be made	Connection must be made		
Long terminal shields	3P : **LV429515** 4P : **LV429516**	3P : **LV429517** 4P : **LV429518**		3P : **LV429517** 4P : **LV429518**

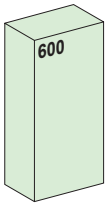
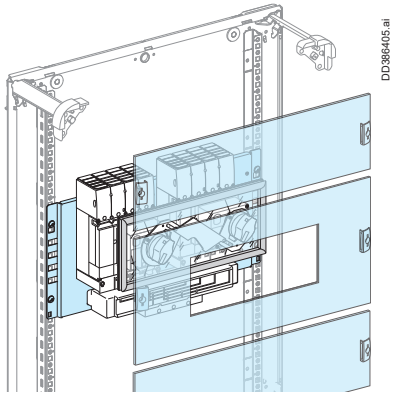
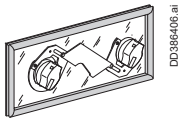
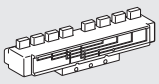
Mounting	W300 Vertical - Fixed with or without spreaders	
		
Devices	**INS-INV 320/400**	**INS-INV 500/630**
Number of devices per row	1	1
Nb. of vertical modules	**10** or **12**	**12** or **14**
Mounting plates	**LVS03080**	**LVS03080**
Front plates [Nb. of vertical modules] cut-out	**LVS03281** [10]	**LVS03281** [10]
upstream	-	**LVS03812** [2]
downstream with PowerTag NSX	**LVS03802** [2]	**LVS03802** [2]
Upstream connection		
Cables + Long terminal shields	3P : **LV429593** 4P : **LV429594**	

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

Downstream distribution	Insulated Linergy BW busbars	Rear Linergy BS busbars	Linergy BS multi-stage busbars
			
Type of connected devices	**INS-INV320/630**	**INS-INV320/630**	**INS-INV320/630**
Busbars / Distrib blocks	**Linergy BW** *> page D-4*	**LVS04191 / LGY4193** + copper bars *> page D-6*	**LVS04192** + copper bars *> pages D-7, D-8*
Power supply block / connection	**LVS04074 + LVS04073** *> page C-47* 	Connection must be made	
Long terminal shields	3P : **LV429593** 4P : **LV429594**	3P : **LV429593** 4P : **LV429594**	3P : **LV429593** 4P : **LV429594**

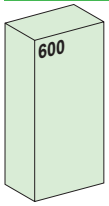
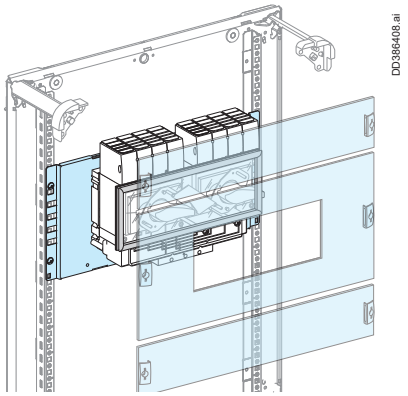
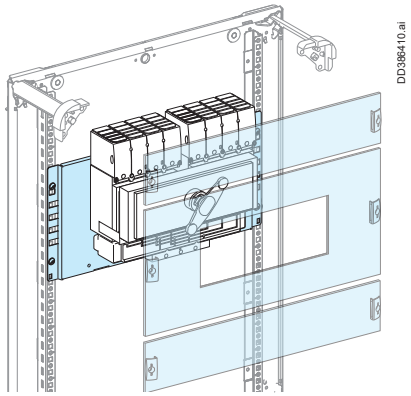
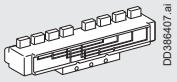
Compact NSX100/250 circuit breakers changeover system
Vertical mounting - Fixed - Manual source
W600

Changeover system

Mounting	W600 Fixed - Changeover with mechanical interlocking
	
Devices	**NSX100/250**
Nb. of vertical modules	**11**
Mounting plates	**LVS03043**
Front plates cut-out	**LVS03245** [5]
[Nb. of vertical modules] upstream	**LVS03803** [3]
[Nb. of vertical modules] downstream	**LVS03803** [3]
Mechanical interlocking	**LV429369** 
Upstream connection	
Cable + Long terminal shields	3P : **LV429517** 4P : **LV429518**
Coupling accessory	3P : **LV429358** 4P : **LV429359** 
Downstream connection	
Cable + Long terminal shields	3P : **LV429517** 4P : **LV429518**

Compact INS-INV250 switch-disconnectors changeover system
Vertical mounting - Fixed - Manual source
W600

Changeover system

Mounting	W600 Fixed - Changeover with mechanical interlocking)	W600 Fixed - Complete source changeover assembly	
			
Devices	**INS-INV250**	**INS250**	
		3P	**4P**
Nb. of vertical modules	**10**	**10**	**10**
Mounting plates	**LVS03043** + 2 x **LV431064** (raiser)	**LVS03043**	**LVS03043**
Front plates cut-out	**LVS03247** [5]	**LVS03235** [5]	**LVS03235** [5]
[Nb. of vertical modules] upstream	**LVS03803** [3]	**LVS03803** [3]	**LVS03803** [3]
[Nb. of vertical modules] downstream	**LVS03802** [2]	**LVS03802** [2]	**LVS03802** [2]
Mechanical interlocking / Complete source-changeover assembly	**31073**	100 A : **31140** 160 A : **31144** 200 A : **31142** 250 A : **31146**	100 A : **31141** 160 A : **31145** 200 A : **31143** 250 A : **31147**
Upstream connection			
Cable + Long terminal shields	3P : **LV429517** 4P : **LV429518**		
Coupling accessory	3P : **LV429358** 4P : **LV429359** 		

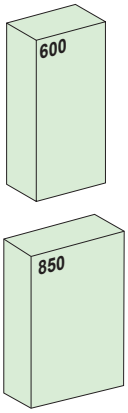
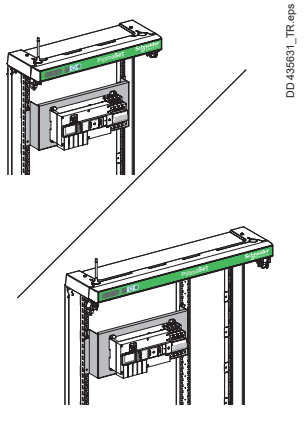
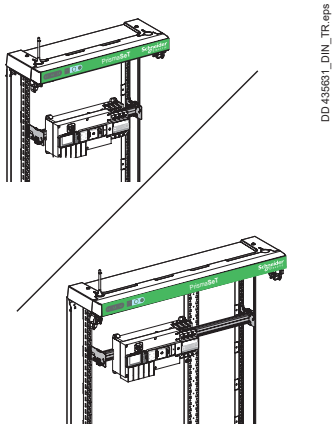
Downstream connection

Cable + Long terminal shields	3P : **LV429517** 4P : **LV429518**

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

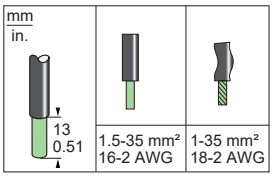
TransferPacT Frame 100A Automatic source changeover system W600/850

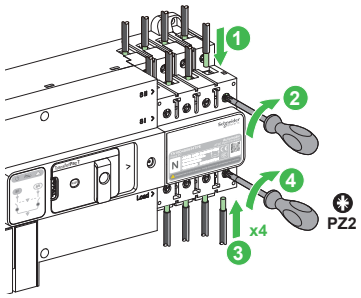
Changeover system

Mounting		Vertical Fixed Front plate with cut-out	
		 	
Devices		**TransferPacT Automatic / Active Automatic 32A-100A 2P/3P/4P**	
No. of devices per row		**1**	
No. of vertical modules		**6M**	
Mounting plate		**LVS03426**	-
DIN Rail	W600	-	**LVS03002 (adjustable)**
	W850	-	**LVS03007 (adjustable)**
Front plate with cut-out	W600	**LVS03206**	
	W850	**LVS03208**	

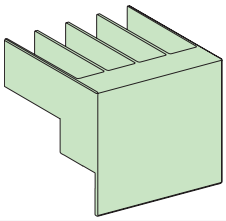
Upstream / Downstream Connections

Cable





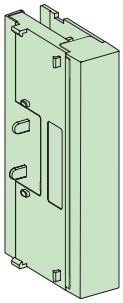
Long terminal shields



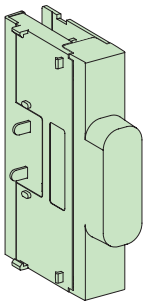
TPSISO30

Auxiliary

Coupling auxiliary module



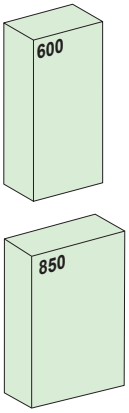
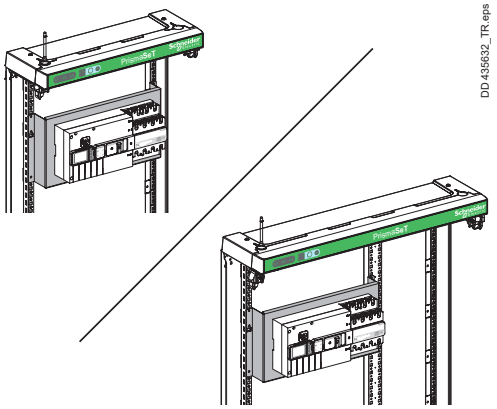
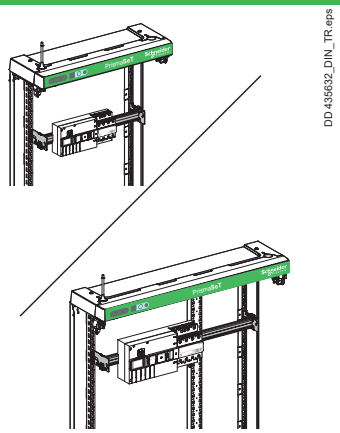
TPSAUX32



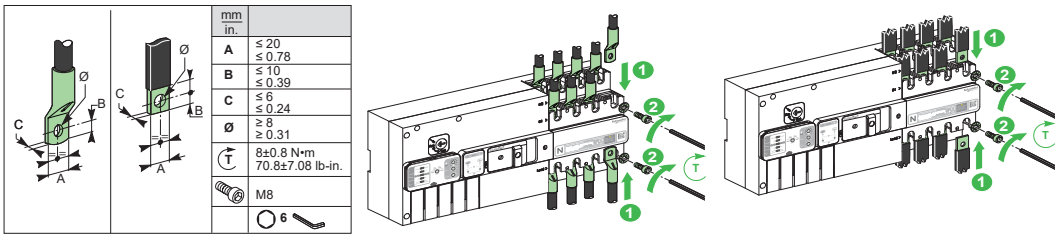
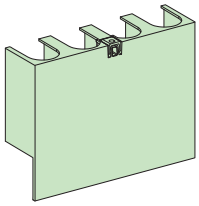
TPSAUX33

TransferPacT Frame 160A Automatic source changeover system W600/850

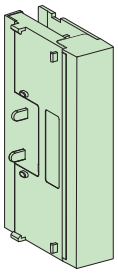
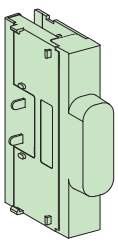
Changeover system

Mounting		Vertical Fixed	
		 	
Devices		**TransferPacT Automatic / Active Automatic 80A-160A 3P/4P**	
No. of devices per row		**1**	
No. of vertical modules		**8M**	
Mounting plate		**LVS03427**	-
DIN Rail	W600	-	**LVS03002 (adjustable)**
	W850	-	**LVS03007 (adjustable)**
Front plate with cut-out	W600	**LVS03207**	
	W850	**LVS03209**	

Upstream / Downstream Connections

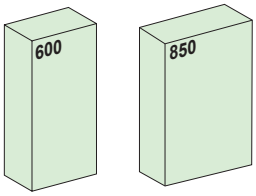
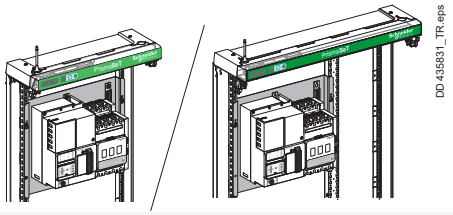
Cable/Busbars	
Long terminal shields	
	TPSISO31

Auxiliary

Coupling auxiliary module		
	TPSAUX32	**TPSAUX33**

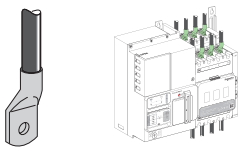
TransferPacT Frame 250A Automatic source changeover system W600/850

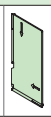
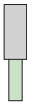
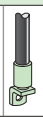
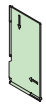
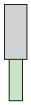
Changeover system

Mounting		Vertical Fixed
		 
Devices		**TransferPacT Active Automatic 100A-250A 3P/4P** **TransferPacT Automatic 200A-250A 3P/4P** **TransferPacT Remote 160A-250A 3P/4P**
No. of devices per row		**1**
No. of vertical modules		**11M**
Mounting plate		**LVS03430**
Front plate with cut-out	**W600**	**LVS03212** [11]
	W850	**LVS03215** [11]

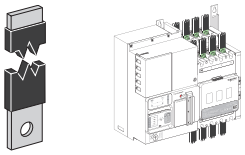
Upstream / Downstream Connections

Cable

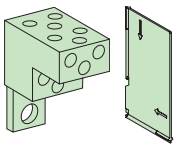
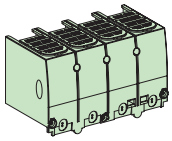
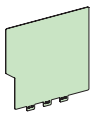


CU				AL			
							
LV429252 **LV429256**	x3 x4	x2 x3	120 mm²	**LV429504** **LV429505**	x3 x4	x2 x3	150 mm²
LV429253 **LV429257**	x3 x4	x2 x3	150 mm²	**LV429506** **LV429507**	x3 x4	x2 x3	185 mm²
LV429254 **LV429258**	x3 x4	x2 x3	185 mm²				

Busbar

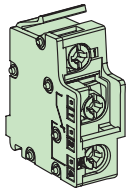
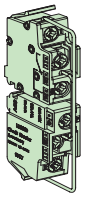


Accessories

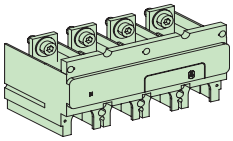
Bare Cable Connector	Long Terminal Shield	Available Options				Insulating Screen
		Cable Size	TransferPacT	NSX Solution	Long Terminal Shield	
		1.5 to 35 mm²	3P: **TPSCON47**	**LV429248**	+ **LV429518**	
			4P: **TPSCON48**	**LV429249**		
		120 to 240 mm²	3P: **TPSCON49**	**LV429244**		
			4P: **TPSCON50**	**LV429245**		
		50 to 120 mm²	3P: **TPSCON51**	**LV429218**		
			4P: **TPSCON52**	**LV429219**		**TPSISO66**

Auxiliary

Coupling auxiliary module

	
TPSAUX43	**TPSAUX44**

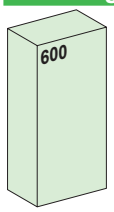
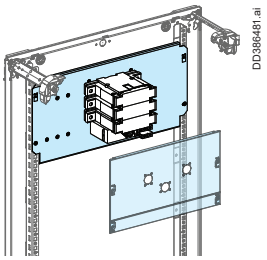
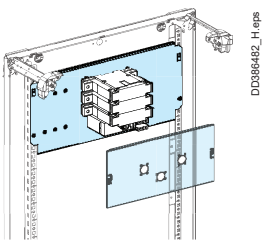
Power Tag

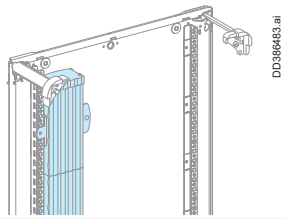
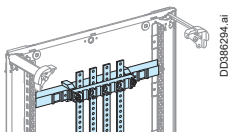
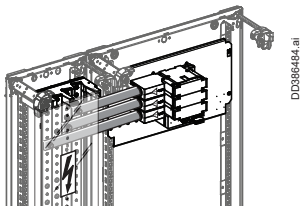


LV434021

Fupact GS32/63/100/160
Horizontal mounting - Fixed - Extended rotary handle
W600

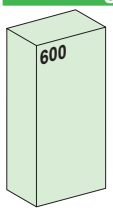
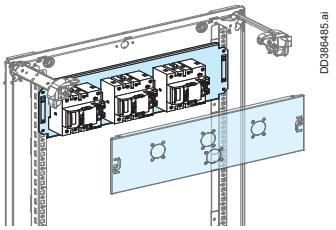
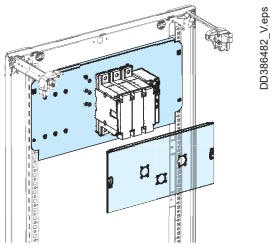
Fusegear

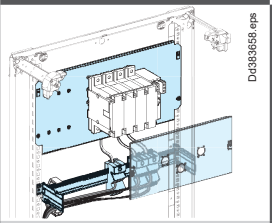
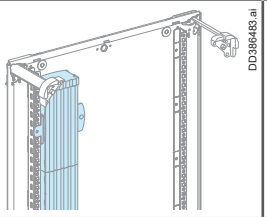
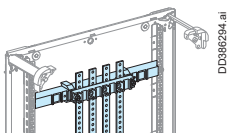
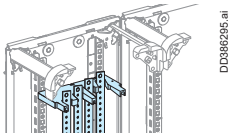
Mounting		W600 Horizontal - Fixed			
					
Devices		**GS32**	**GS63**	**GS100** (1)	**GS160** (1)
		3P or 4P			
Number of devices per row		1	1		
Nb. of vertical modules		3	5		
Mounting plates		**LVS03117**	**LVS03118**		
Front plates [Nb. of vertical modules]	cut-out	**LVS03308**	**LVS03309**		
	downstream	-	-	**LVS03801** [1M]	
Upstream connection					
Terminal Cover	3P	-	-	**GS1AP33**	**GS1AP43**
	4P	-	-	**GS1AP34**	**GS1AP44**

Downstream distribution	Insulated Linergy BW busbars (2)	Rear Linergy BS busbars	Linergy BS multi-stage busbars
			
Type of connected devices	**GS100/160**	**All types**	**All types**
Busbars	**Linergy BW** *> page D-4*	**LVS04191** + copper bars *> page D-6*	**LVS04192** + copper bars *> pages D-7, D-8*
Power supply block	**LVS04061** *> page C-47*	-	-
Connection	Must be made	Must be made	Must be made
Long terminal shields	3P : 3 x **LV480445** 4P : 4 x **LV480445**	3P : 3 x **LV480445** 4P : 4 x **LV480445**	3P : 3 x **LV480445** 4P : 4 x **LV480445**

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

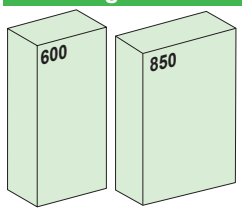
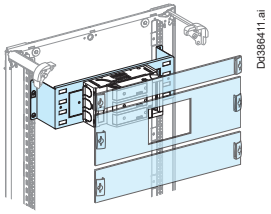
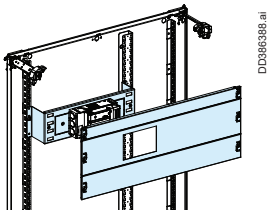
Fupact GS32/63/100/160
Vertical mounting - Fixed - Extended rotary handle
W600

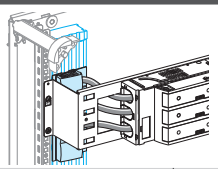
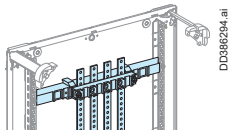
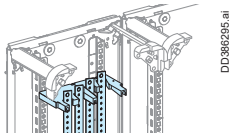
Mounting		W600 Vertical - Fixed			
					
Devices		**GS32**	**GS63**	**GS100** (1)	**GS160** (1)
		3P or 4P			
Number of devices per row		3	2		
Nb. of vertical modules		3	5		
Mounting plates		**LVS03117**	**LVS03118**		
Front plates [Nb. of vertical modules]	cut-out	**LVS03308**	**LVS03309**		
	downstream	-	-	**LVS03801** [1M]	
Upstream connection					
Terminal Cover	3P	-	-	**GS1AP33**	**GS1AP43**
	4P	-	-	**GS1AP34**	**GS1AP44**

Downstream distribution	Distribution block Linergy DX 1P, 160 A		Insulated Linergy BW busbars (2)		Rear Linergy BS busbars		Linergy BS multi-stage busbars	
								
Type of connected devices	**GS100/160**		**GS100/160**		**GS100/160**		**GS100/160**	
	3P	4P	3P	4P	3P	4P	3P	4P
Distribution block / busbars	3 x **LVS04031** + **LVS03002** *> page D-11*	4 x **LVS04031** + **LVS03002** *> page D-11*	**Linergy BW** *> page D-4*		**LVS04191** + copper bars *> page D-6*		**LVS04192** + copper bars *> pages D-7, D-8*	
Power supply block	-		**LVS04061** *> page C-47*		-		-	
Connection	Must be made		Must be made		Must be made		Must be made	
Long terminal shields	3 x **LV480445**	4 x **LV480445**	3 x **LV480445**	4 x **LV480445**	3 x **LV480445**	4 x **LV480445**	3 x **LV480445**	4 x **LV480445**

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

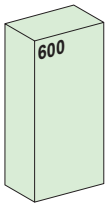
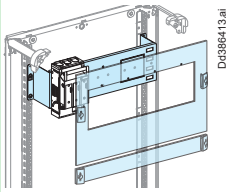
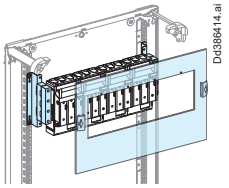
Fupact ISFT160/250
Horizontal mounting - Fixed
W600 - W850

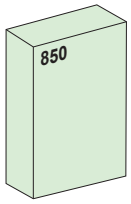
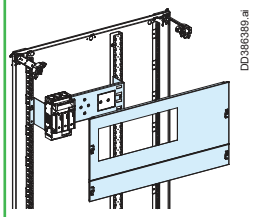
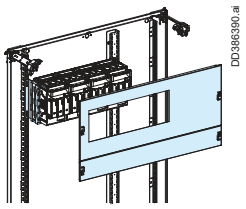
Mounting	W600 Horizontal - Fixed		W850 Horizontal - Fixed	
				
Devices	**ISFT160**	**ISFT250**	**ISFT160**	**ISFT250**
Number of devices per row	1	1	1	1
Nb. of vertical modules	6	6	6	6
Mounting plates	**LVS03121**	**LVS03124**	**LVS03121**	**LVS03124**
Front plates [Nb. of vertical modules] cut-out	**LVS03326** [3]	**LVS03328**[5]	**LVS03336**[3]	**LVS03337**[5]
Front plates [Nb. of vertical modules] upstream	**LVS03801** [1]	-	**LVS03851** [1]	**LVS03851** [1]
Front plates [Nb. of vertical modules] downstream	**LVS03802** [2] (1)	**LVS03801** [1]	**LVS03809** [2]	-
Upstream connection				
Long terminal shields	**LV480819**		**LV480824**	

Downstream distribution	Insulated Linergy BW busbars		Rear Linergy BS busbars		Linergy BS multi-stage busbars	
						
Type of connected devices	**ISFT160**	**ISFT250**	**ISFT160**	**ISFT250**	**ISFT160**	**ISFT250**
Busbars	**Linergy BW** *> page D-4*		**LVS04191** + copper bars *> page D-6*		**LVS04192** + copper bars *> pages D-7, D-8*	
Power supply block	**LVS04061** *> page C-47*		-		-	
Connection	Must be made		Must be made		Must be made	
Long terminal shields	**LV480819**	**LV480824**	**LV480819**	**LV480824**	**LV480819**	**LV480824**

(1) Not needed if direct distribution.

Fupact ISFT100/100N, ISFT160/250
Vertical mounting - Fixed
W600 - W850 - W300

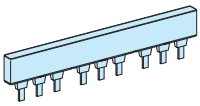
Mounting		W600 Vertical - Fixed				
						
Devices		**On mounting plate**			**On busbars (2)**	
		ISFT100	**ISFT100N**	**ISFT160**	**ISFT100N**	**ISFT160**
Number of devices per row		5	8	4	6	4
Nb. of vertical modules		6	8	8	8	8
Mounting plates		**LVS03120**	**LVS03126**	**LVS03121**	**LVS03122 (2)**	**LVS03122 (2)**
Front plates [Nb. of vertical modules]	cut-out	**LVS03320** [6]	**LVS03325** [8]	**LVS03321** [6]	**LVS03325** [8]	**LVS03321** [6]
	upstream	-	-	-	-	-
	downstream	-	-	**LVS03802** [2] **(1)**	-	**LVS03802** [2] **(1)**
Upstream connection						
Long terminal shields		-	**LV480756**	**LV480819**	**LV480756**	**LV480819**

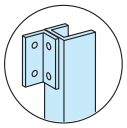
Mounting		W850 Vertical - Fixed				
						
Devices		**On mounting plate**			**On busbars (2)**	
		ISFT100	**ISFT100N**	**ISFT160**	**ISFT100N**	**ISFT160**
Number of devices per row		**5**	-	**4**	-	**4**
Nb. of vertical modules		**6**	-	**8**	-	**8**
Mounting plates		**LVS03120**	-	**LVS03121**	-	**LVS03122 (2)**
Front plates [Nb. of vertical modules]	cut-out	**LVS03338** [6]	-	**LVS03318** [6]	-	**LVS03318** [6]
	upstream	-	-	-	-	-
	downstream	-	-	**LVS03809** [2] **(1)**	-	**LVS03809** [2] **(1)**
Upstream connection						
Long terminal shields		-	**LV480756**	**LV480819**	**LV480756**	**LV480819**

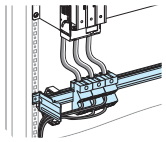
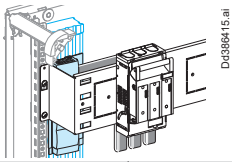
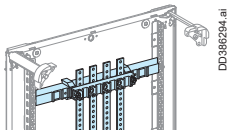
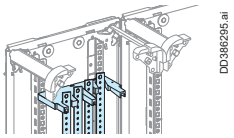
(1) Not needed if direct distribution.
(2) Only for 3P.

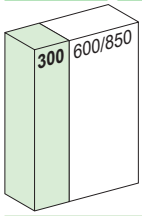
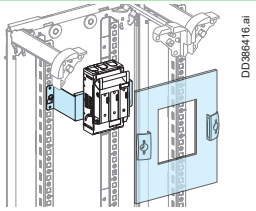
Fupact ISFT100/100N, ISFT160/250
Vertical mounting - Fixed
W600 - W850 - W300

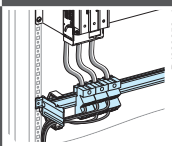
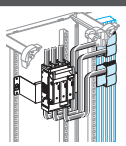
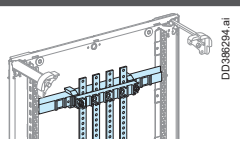
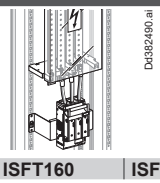
Fusegear

Upstream connection		Comb busbar		
				
Connected devices	**Type**	**ISFT100**		
	Number	**2**	**3**	**4**
Comb busbar		**49861**	**49862**	**49863**
Set of 3 connectors		**49865** (25 to 95 mm²)		
		49860 (3 x 10 mm²)		

Incoming connection		Comb busbar		
				
Connected devices	**Type**	**ISFT160**		
	Number	**2**	**3**	**4**
Comb busbar		**LV480811**	**LV480812**	**LV480813**
Set of 3 connectors		**LV480818** (25 to 95 mm)		
		LV480814 (3 x 16 mm²)		

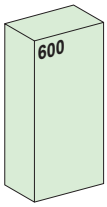
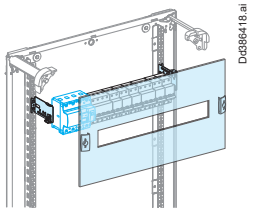
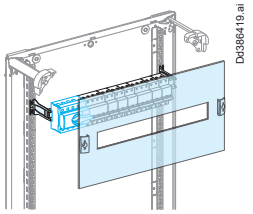
Downstream distribution	Distribution block Linergy DX 1 P, 160 A		Insulated Linergy BW busbars		Rear Linergy BS busbars		Linergy BS multi-stage busbars	
								
Type of connected devices	**ISFT100N**	**ISFT160**	**ISFT100N**	**ISFT160**	**ISFT100N**	**ISFT160**	**ISFT100N**	**ISFT160**
Distribution block / busbars	3 x **LVS04031** + **LVS03002** *> page D-11*		**Linergy BW** *> page D-4*		**LVS04191** + copper bars *> page D-6*		**LVS04192** + copper bars *> pages C-25, D-8*	
Power supply block	-		**LVS04061** *> page C-47*		-		-	
Connection	Must be made		Must be made		Must be made		Must be made	
Long terminal shields	**LV480756**	**LV480819**	**LV480756**	**LV480819**	**LV480756**	**LV480819**	**LV480756**	**LV480819**

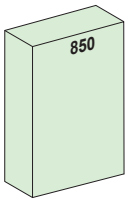
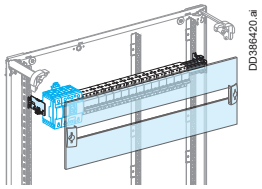
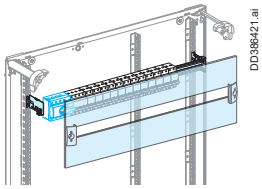
Mounting	W300 Vertical - Fixed	
		
Devices	**ISFT160**	**ISFT250**
Number of devices per row	1	1
Nb. of vertical modules	6	9
Mounting plates	**LVS03123**	**LVS03125**
Cut-out front plate	**LVS03327**	**LVS03329**
Upstream connection		
Long terminal shields	**LV480819**	**LV480824**

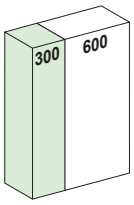
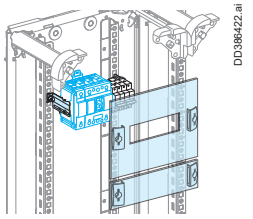
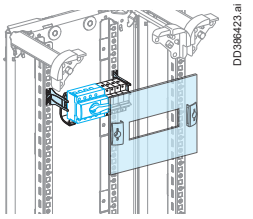
Downstream distribution	Distribution block Linergy DX 1 P, 160 A		Insulated Linergy BW busbars		Rear Linergy BS busbars		Linergy BS busbars in duct	
								
Type of connected devices	**ISFT160**		**ISFT160**	**ISFT250**	**ISFT160**	**ISFT250**	**ISFT160**	**ISFT250**
Busbars / Distribution block	3 x **LVS04031** + **LVS03002** *> page D-11*		**Linergy BW** *> page D-4*		**LVS04191** + copper bars *> page D-6*		**LVS04192** + copper bars *> pages D-7, D-8*	
Power supply block	-		**LVS04061** *> page C-47*		-		-	
Connection	Must be made		Must be made		Must be made		Must be made	
Long terminal shields	**LV480819**		**LV480819**	**LV480824**	**LV480819**	**LV480824**	**LV480819**	**LV480824**

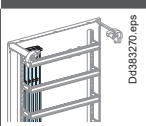
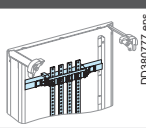
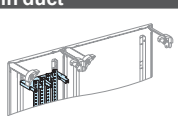
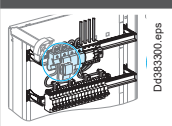
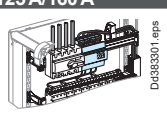
(1) Not needed if direct distribution.
(2) Only for 3P.

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

Mounting		W600 Circuit breaker		W600 Switch-disconnector	
					
Devices		**NG160, Vigi NG160 (1) (2)**	**NG125, Vigi NG125, C120, Vigi C120**	**INS-INV40/160**	**INS-INV100/160 with long terminal shields**
Nb. of vertical modules		5	5	4	5
Rail (48 modules of 9 mm)		**LVS03002** (adjustable) **(1)**	**LVS03001**	**LVS03001**	**LVS03001**
Modular front plates [Nb. of vertical modules]		**LVS03205** [5]	**LVS03205** [5]	**LVS03204** [4]	**LVS03205** [5]
Blanking plates	strip	**LVS03220**		**LVS03220**	
	divisible	**LVS03221**		**LVS03221**	

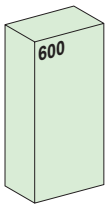
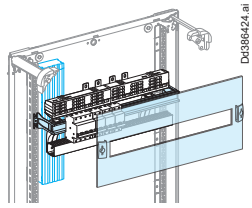
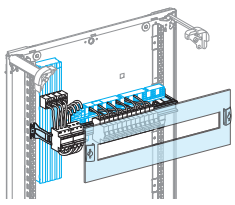
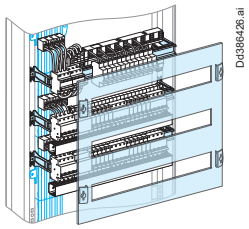
Mounting		W850 Circuit breaker		W850 Switches	
					
Devices		**NG160, Vigi NG160 (1) (2)**	**NG125, Vigi NG125**	**Compact INS-INV40/160**	**Compact INS-INV100/160 with long terminal shields**
Nb. of vertical modules		5	5	4	5
Rail (72 modules of 9 mm)		**LVS03007** (adjustable) **(2)**	**LVS03006**	**LVS03006**	**LVS03006**
Modular front plates [Nb. of vertical modules]		**LVS03218** [5]	**LVS03218** [5]	**LVS03217** [4]	**LVS03218** [5]
Blanking plates	strip	**LVS03220**	**LVS03220**	**LVS03220**	**LVS03220**
	divisible	**LVS03221**	**LVS03221**	**LVS03221**	**LVS03221**

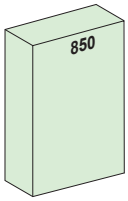
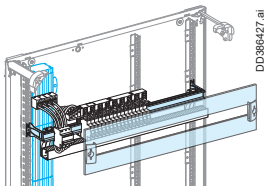
Mounting		W300 Circuit breaker		W300 Switch-disconnector	
					
Devices		**NG160 (1)**	**NG125, Vigi NG125, C120, Vigi C120**	**INS-INV40/160**	**INS-INV100/160 with long terminal shields**
Nb. of vertical modules		6	4	4	6
Rail (20 modules of 9 mm)		**LVS03011** (adjustable) **(1)**	**LVS03010**	**LVS03010**	**LVS03010**
Front plates [Nb. of vertical modules]	modular	**LVS03214** [4]	**LVS03214** [4]	**LVS03214** [4]	**LVS03214** [4]
	downstream	**LVS03812** [2]	-	-	**LVS03812** [2]
Blanking plates	strip	**LVS03220**	**LVS03220**	**LVS03220**	**LVS03220**
	divisible	**LVS03221**	**LVS03221**	**LVS03221**	**LVS03221**

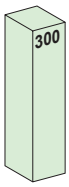
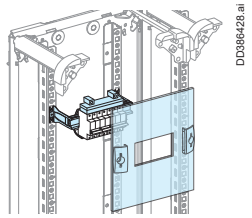
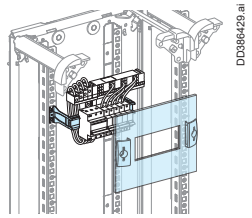
Downstream distribution	Insulated Linergy BW busbars	Rear Linergy BS busbars	Linergy BS Multi-stage busbars in duct	Distribution block, Linergy DX 1P, 160 A	Distribution block, Linergy DX 4P, 125 A/160 A	
						
Type of connected devices	**All types**	**All types**	**All types**	**All types**	**125A**	**160A**
Busbars / Distrib blocks	**Linergy BW** *> page D-4*	**LVS04191**+ copper bars *> page D-6*	**LVS04192**+ copper bars *> pages D-7, D-8*	**LVS04031** *> page C-16*	**LVS04045** *> page C-16*	**LVS04046** *> page C-16*
Connection	*> page D-5*	Must be made	Must be made	**LVS04149**	**LVS04047**	supplied with

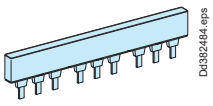
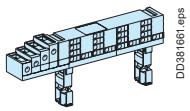
(1) End of life mid 2018 substituted by NSXm *> page C-4.*
(2) Can be completed by a rail + raiser (cat no. **LVS04227**) to install modular devices on.

Modular devices outgoers ⩽ 63 A
W600 - W850 - W300

Mounting		W600 Distances between centres : 200 mm	W600 Distances between centres : 150 mm	
				
Devices		**All modular devices**	**Modular devices ⩽ 40 A**	
Rail length (modules of 9 mm)		48	48	48 x 3
Nb. of vertical modules		4 (1)	3	8
Rail (48 modules of 9 mm)		**LVS03001**	**LVS03001**	**LVS03001** x 3
Modular front plates [Nb. of vertical modules]		**LVS03204** [4]	**LVS03203** [3]	**LVS03223** [8]
Blanking plates	strip	**LVS03220**	**LVS03220**	**LVS03220**
	divisible	**LVS03221**	**LVS03221**	**LVS03221**

Mounting		W850 distance between centres : 200 mm	W850 Distance between centres : 150 mm
			
Devices		**All modular devices**	**Modular devices ⩽ 40 A**
Rail length (modules of 9 mm)		72	72
Nb. of vertical modules		4	3
Rail (72 modules of 9 mm)		**LVS03006**	**LVS03006**
Modular front plates [Nb. of vertical modules]		**LVS03217** [4]	**LVS03216** [3]
Blanking plates	strip	**LVS03220**	**LVS03220**
	divisible	**LVS03221**	**LVS03221**

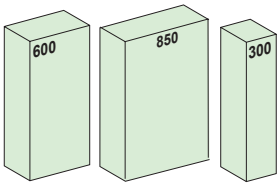
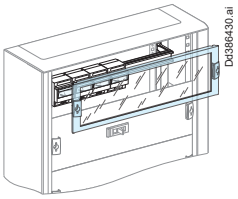
Mounting		W300 Distance between centres : 200 mm	W300 Distance between centres : 150 mm
			
Devices		**All modular devices**	**Modular devices ⩽ 40 A**
Rail length (modules of 9 mm)		20	20
Nb. of vertical modules		4	3
Rail (20 modules of 9 mm)		**LVS03010**	**LVS03010**
Modular front plate [Nb. of vertical modules]		**LVS03214** [4]	**LVS03213** [3]
Blanking plates	strip	**LVS03220**	**LVS03220**
	divisible	**LVS03221**	**LVS03221**

Downstream distribution	Linergy FH comb busbar	Distribution system Linergy FM 63 A
		
Type of connected devices	**According devices**	**LVS04008**
Comb Busbars / Distrib system	*> page D-18*	*> page D-16*

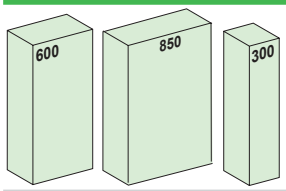
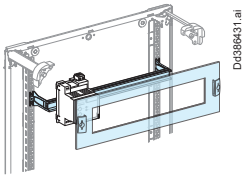
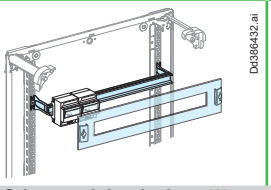
(1) For a modular row with Linergy FM160 or 200 A positioned directly below a non-modular mounting plate (Compact…) or at the top of a switchboard, add 1 module (4+1) and a plain upstream front plate (cat no. **LVS03801**).

Other modular devices
Switchboard lighting
W600 - W850 - W300

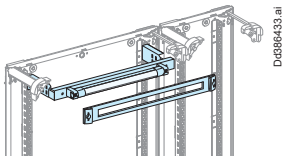
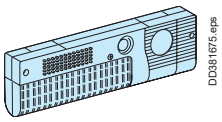
Other devices behind transparent front plates

		W600	W850 (4)	W300
				
Nb. of modules	**Height**			
4	200 mm	**LVS03342**	-	**LVS03352**
6	300 mm	**LVS03343**	**LVS03363**	**LVS03353**
9	450 mm	**LVS03344**	**LVS03364**	**LVS03354**
12	600 mm	**LVS03345**	-	-

Vigirex, Vigilohm and other modular devices

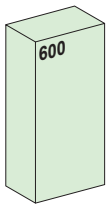
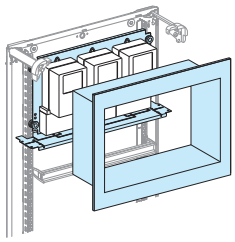
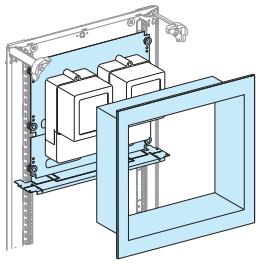
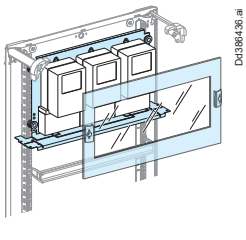
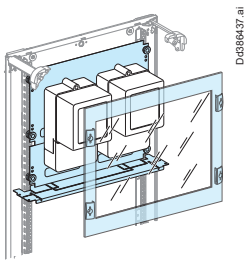
	W600	W600	W850	W300
				
Devices	**Vigirex (1), Vigilohm (2)**	**Other modular devices (3)** **ammeter, voltmeter, lamp, pushbuttons**		
Nb. of vertical modules	**3**	**2**	**3**	**3**
Rail (48 modules of 9 mm)	**LVS03001**	**LVS03001**	**LVS03006**	**LVS03010**
Cut-out front plates	**LVS03203**	**LVS03202**	**LVS03216**	**LVS03213**

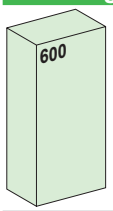
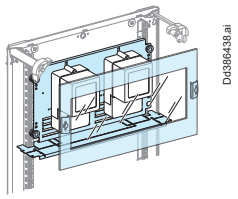
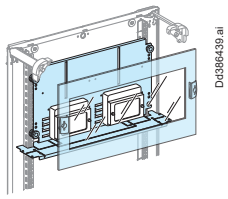
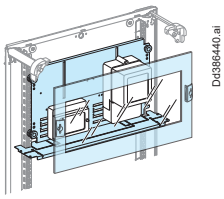
Lighting

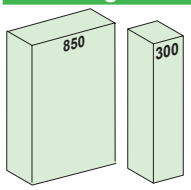
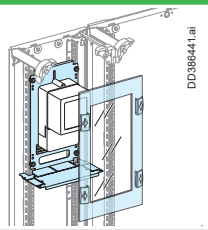
	W600 fixed lighting	Switchboard portable lamp
		
Catalog number	**LVS08964**	**LVS08965**
Presentation	This system is generally used to illuminate the front of a switchboard.	■ Lamp with a magnetic base for installation behind a door or directly on the cubicle framework. ■ Supplied without a power cord ■ H x W x D: 90 x 345 x 42
Characteristics	■ Supply voltage: 220/240 V ■ Power rating: 8 W ■ Height: 1 module vertical (50 mm)	■ Supply voltage: 220/240 V ■ Power rating: 11 W ■ Lamp: picoline OSRAM 8W (supplied) ■ Class 2 ■ IP20

(1) RH10, RH21, RH99, RMH relay and RM12T Multiplexer.
(2) IM9, IM9-0L, IM20, IM20H.
(3) For installation at the top or bottom of the enclosure, use a 3-modules modular front plate (LVS**03203**).
(4) 2/3 transparent front plate.

Kilowatt-hour meters
Class II
W600 - W850 - W300

Mounting	W600 Accessible (1)		W600 Behind front plate (1)	
				
Devices	**1-phase (Ph + N)**	**3-phase (3 Ph + N)**	**1-phase (Ph + N)**	**3-phase (3 Ph + N)**
Number of devices per row	3	2	3	2
Nb. of vertical modules	**6**	**8**	**6**	**9**
Mounting plates	-	**LVS03152**	-	**LVS03152**
Metering front plate	**LVS03155** [6]	**LVS03158** [8]	-	-
Front plates transparent	-	-	**LVS03343** [6]	**LVS03344** [9]
at your choice plain	-	-	**LVS03806** [6]	-
Horizontal partitioning	**LVS04331**	**LVS04331**	**LVS04331**	**LVS04331**
Insulating Plate (class II)	-	-	-	-
Accessories	M5 spacers for mounting plate *> page C-51*			

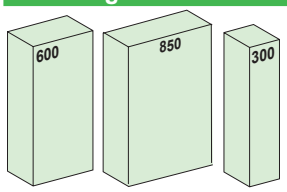
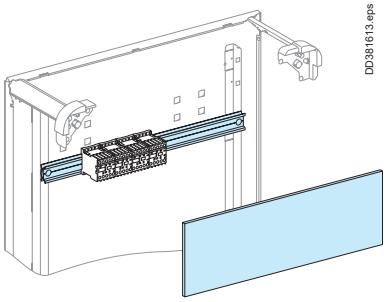
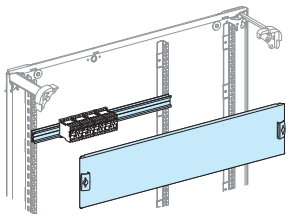
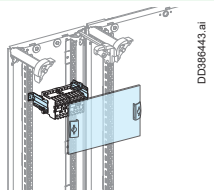
Mounting	W600 Behind front plate (1)		
			
Devices	**3-phase kilowatt-hour meters (3 Ph + N)**	**Connection blocks**	**3-phase kilowatt-hour meters (3 Ph + N) + connection blocks**
Number of devices per row	2	2	1+1
Nb. of vertical modules	**6**	**6**	**6**
Mounting plates	**LVS03160**	**LVS03160**	**LVS03160**
Front plates transparent	**LVS03343** [6]	**LVS03343** [6]	**LVS03343** [6]
at your choice plain	**LVS03806** [6]	**LVS03806** [6]	**LVS03806** [6]
Horizontal partitioning	**LVS04331**	**LVS04331**	**LVS04331**
Earthing braid **(2)**	**LVS08910**	**LVS08910**	**LVS08910**
Accessories	M5 spacers for mounting plate *> page C-51*		

Mounting	W850 Behind front plate (3)			W300 Behind front plate (1)
				
Devices	**1-phase (Ph + N)**	**3-phase (3 Ph + N)**	**3-phase (3 Ph + N)**	**3-phase (3 Ph + N)**
Number of devices per row	3	2	2	1
Nb. of vertical modules	**6**	**9**	**6**	**9**
Mounting plates	-	**LVS03152**	**LVS03160**	**LVS03156**
Front plates transparent	**LVS03363**	**LVS03364**	**LVS03363**	**LVS03354** [9]
at your choice plain	**LVS03856**	-	**LVS03856**	**LVS03817** [9]
Horizontal partitioning	-	-	-	**LVS04332**
Earthing braid **(2)** / Insulating plate	-	-	**LVS08910**	**LVS08910**
Accessories	-	-	-	M5 spacers for mounting plate *> page C-51*

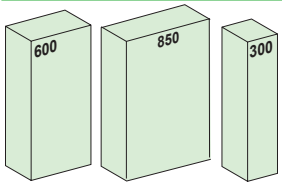
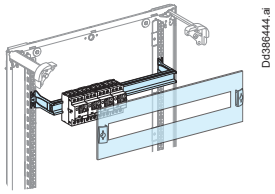
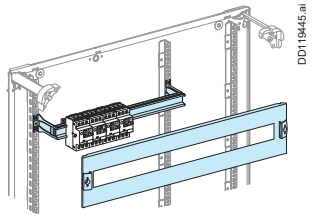
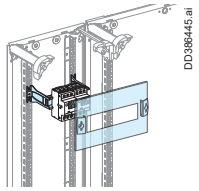
(1) Order one additional horizontal partition in case of installation other than at the top of enclosure.
(2) Meters can be installed directly on mounting plate equipped with 6 mm² earthing braid (cat.no LVS**08910**) and combined with partitioning or front plates.
(3) On the right of the front plate, possibility to install 96 x 96 device *> page C-40*.

Industrial control devices

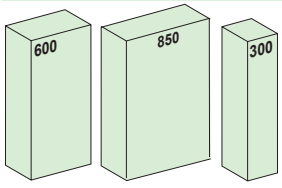
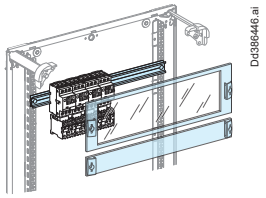
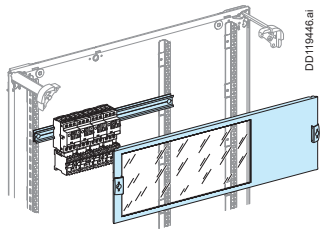
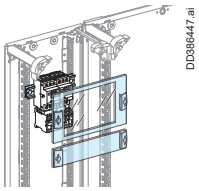
TeSys D, TeSys K contactors

Mounting	W600	W850	W300
			
Devices	**LC1D● or LC1K● (≤ 40 A)**	**LC1D● or LC1K● (≤ 40 A)**	**LC1D● or LC1K● (≤ 40 A)**
Useful length for rail	432 mm	648 mm	180 mm
Nb. of vertical modules	**3**	**3**	**3**
Modular rail	**LVS03004** (in rear)	**LVS03007**	**LVS03011** (adjustable)
Plain front plate	**LVS03803**	**LVS03853**	**LVS03813**

TeSys GV2/GV3 circuit breakers

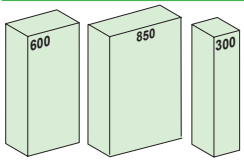
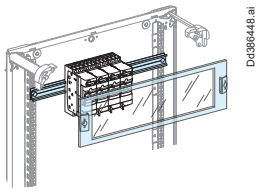
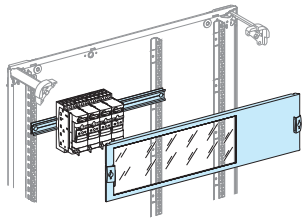
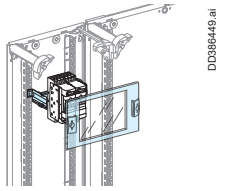
Mounting		W600			W850			W300		
										
Devices		**TeSys GV2L, GV2P**	**TeSys GV2RT, GV2ME, GV2LE**	**TeSys GV3**	**TeSys GV2L, GV2P**	**TeSys GV2RT, GV2ME, GV2LE**	**TeSys GV3**	**TeSys GV2L, GV2P**	**TeSys GV2RT, GV2ME, GV2LE**	**TeSys GV3**
Useful length for rail		432 mm	432 mm	432 mm	648 mm	648 mm	648 mm	180 mm	180 mm	180 mm
Nb. of vertical modules		**3**	**3**	**5**	**3**	**3**	**5**	**3**	**3**	**7**
Modular rail		**LVS03002**	**LVS03001**	**LVS03002**	**LVS03007**	**LVS03006**	**LVS03007**	**LVS03011**	**LVS03010**	**LVS03011** (adjustable)
Front plates [Nb. of vertical modules]	cut-out	**LVS03203** [3]	**LVS03203** [3]	**LVS03205** [5]	**LVS03216** [3]	**LVS03216** [3]	**LVS03218** [3]	**LVS03213** [3]	**LVS03213** [3]	**LVS03213** [3]
	upstream	-	-	-	-	-	-	-	-	**LVS03812** [2]
	downstream	-	-	-	-	-	-	-	-	**LVS03812** [2]
Blanking plates *> page C-52*	strip	**LVS03220**								
	divisible	**LVS03221**								

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

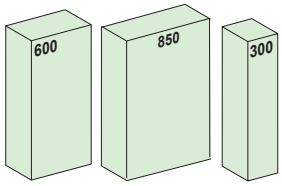
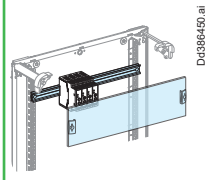
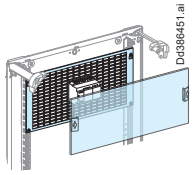
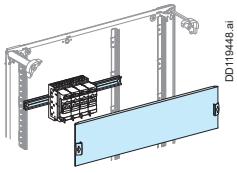
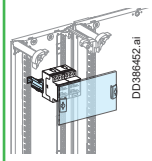
Mounting		W600		W850		W300	
							
Devices		**GV2 + LC1D● or LC1K● (≤ 40 A)**	**GV3P●●1**	**GV2 + LC1D● or LC1K● (≤ 40 A)**	**GV3P●●1**	**GV2 + LC1D● or LC1K● (≤ 40 A)**	**GV3P●●1**
Useful length for rail		432 mm	432 mm	648 mm	648 mm	180 mm	180 mm
Nb. of vertical modules		**5**	**7**	**6**	**9**	**6**	**8**
Modular rail		**LVS03004** (in rear)	**LVS03004**	**LVS03007**	**LVS03007**	**LVS03011** (adjustable)	**LVS03011**
Front plates [Nb. of vertical modules]	transparent	**LVS03342** [4]	**LVS03343** [6]	**LVS03363** [6]	**LVS03364** [9]	**LVS03352** [4]	**LVS03353** [6]
	downstream	**LVS03801** [1]	**LVS03801** [1]			**LVS03812** [2]	**LVS03812** [2]

Industrial control devices

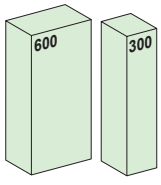
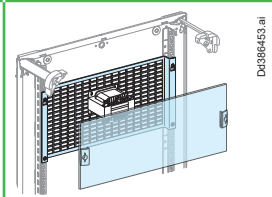
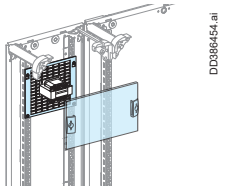
Tesys U starter-controler

Mounting		W600 behind front plate		W850 behind front plate	W300 behind front plate	
						
Devices		**TeSys U**	**TeSys U (1)**	**TeSys U**	**TeSys U**	**TeSys U (1)**
Useful length for rail		432 mm	432 mm	648 mm	180 mm	180 mm
Nb. of vertical modules		**5**	**4**	**6**	**6**	**4**
Rail		**LVS03004** (in rear)	**LVS03004** (in rear)	**LVS03007**	**LVS03011** (adjustable)	**LVS03011** (adjustable)
Front plates [Nb. of vertical modules]	transparent	**LVS03342** [4] **(2)**	**LVS03342** [4] **(3)**	**LVS03363** [6]	**LVS03352** [4] **(2)**	**LVS03352** [4] **(3)**
	downstream	**LVS03801** [1]	-	-	**LVS03812** [2]	-

Soft starters Altistart 01

Mounting		W600 behind front plate				W850 behind front plate		W300 behind front plate
								
Devices		**On rail**			**On recessed slotted mounting plate**	**On rail**		**On rail**
		ATS01N103FT ATS01N106FT	**ATS01N109FT ATS01N112FT ATS01N206 to 212 ATS01N230LY ATS01N244LY ATS01N244Q**	**ATS01N222 to 232**	**ATS01N272LY, ATS01N285LY ATS01N272Q, ATS01N285Q**	**ATS01N103FT ATS01N106FT**	**ATS01N109FT ATS01N112FT ATS01N206 to 212 ATS01N222 to 232 ATS01N230LY ATS01N244LY ATS01N244Q**	**ATS01N103FT ATS01N106FT**
Useful length		432 mm	432 mm	432 mm	420 mm	648 mm	648 mm	180 mm
Nb. of vertical modules		**4**	**5**	**6**	**6**	**4**	**6**	**4**
Rail		**LVS03004** (in rear)	**LVS03003**	**LVS03003**	-	**LVS03007**	**LVS03007**	**LVS03011** (adjustable)
Slotted plate		-	-	-	**LVS03172**	-	-	-
Front plates [Nb. of vertical modules]	transparent	**LVS03342** [4]	-	**LVS03343** [6]	**LVS03343** [6]	**LVS03342** [4]	**LVS03343** [6]	**LVS03352** [4]
	plain	**LVS03804** [4]	**LVS03805** [5]	**LVS03806** [6]	**LVS03806** [6]	**LVS03804** [4]	**LVS03806** [6]	**LVS03814** [4]

Supply and LV/LV Phaseo transformer

Mounting		W600 behind front plate	W300 behind front plate
			
Devices		**On recessed slotted mounting plate ABL6TS/TD, ABL6-RF**	**On slotted plate ABL6TS/TD, ABL6-RF**
Useful length for mounting plate		420 mm	172 mm
Nb. of vertical modules		**4**	**4**
Slotted plates		**LVS03171**	**LVS03175**
Front plates [Nb. of vertical mod.]	transparent	**LVS03342** [4]	**LVS03352** [4]
	plain	**LVS03804** [4]	**LVS03814** [4]

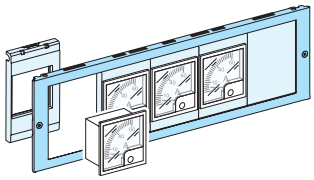
(1) TeSys U without communication module, neither auxiliary contact, neither inverter module.
(2) If the communication module is installed, the transparent front plate is mandatory. If not, the 2 front plates can be replaced by one plain front plate (cat.no LVS**03805**) in wall-mounted or floor-standing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

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

1

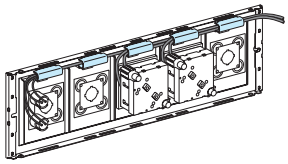
> On an interface with plastic mounting plates clipped onto the metal front plate with cut-outs

Dd381705.eps



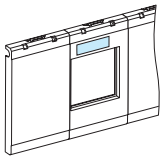
- The interface is made up of a metal front plate and plastic mounting plates that clip onto the front plate.
- The devices are attached in the cut-outs of the plastic mounting plates and insulated from the front plate.

Dd381687.eps



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

Dd381688.eps

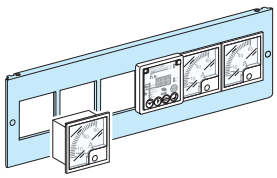


- Each mounting plate can receive an adhesive label.
- Plain mounting plates are available to blank off any unused locations.

2

> Directly on a metal front plate with cut-outs

Dd381689.eps



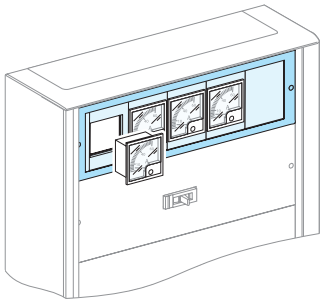
- Devices are attached directly to the metal front plate.
- Blanking plates are available to blank off any unused locations.

2 mounting types in PrismaSeT G Active

1

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

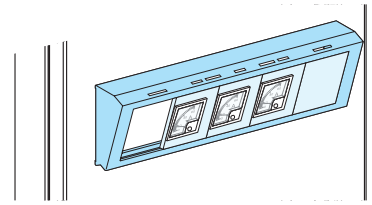
Dd381685.eps



2

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

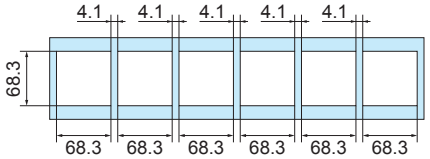
DD385895.eps



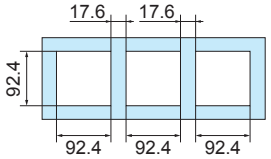
- With cut-out plastic mounting plate directly clipped on the visor.
- Supplied with a drilling diagram for mounting on a plain door.

Precut dimensions

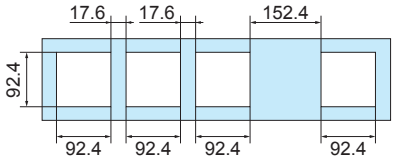
- Cat. number LVS**03910**



- Cat. number **LVS03911**



- Cat. number **LVS03925**



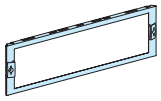
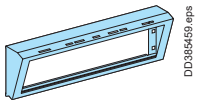
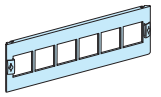
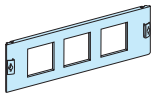
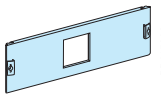
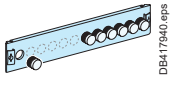
Note: device mounting on door: earthing braid (ref. LVS08910) or earthing wire (ref. **LVS08911**).

Human-switchboard interface

Devices 72 x 72 - 96 x 96

Ø22 Lamps and pushbuttons

Other devices

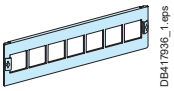
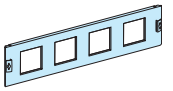
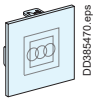
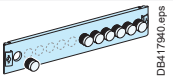
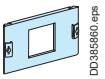
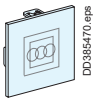
No. and type of devices per row	Metal front plate with cut-outs	Nb. of vertical modules	Plastic mounting plates cut-out	Blanking plate or devices support
Mounted on W600 front plate with interface and/or plastic plate				
5 x 72 x 72 Vigirex and other devices 72 x 72	 DB417935.eps	3	DD385465.eps	DD385466.eps To blank-off or install: - from 1 to 4 buttons ø 16 or 22 mm - 1 device, 45 x 45
			LVS03902	**LVS03900**
4 x or 2 x (3) 96 x 96 Power Meter and others devices 96 x 96 For PM200, 200P, PM5 & PM8 series meters			DD385467.eps	DD385468.eps To blank-off or install: - from 1 to 4 buttons ø 16 or 22 mm - 1 device, 45 x 45 - 1 device, 72 x 72
	LVS03904		**LVS03903**	**LVS03901**
Mounted on W600 canopy tilted to 30° with plastic plate				
5 x 72 x 72 Vigirex and other devices 72 x 72	 DD385459.eps	3	DD385465.eps	DD385466.eps To blank-off or install: - from 1 to 4 buttons ø 16 or 22 mm - 1 device, 45 x 45
			LVS03902	**LVS03900**
4 x or **2** x (3) 96 x 96 Power Meter and others devices 96 x 96 For PM200, 200P, PM5 & PM8 series meters			DD385467.eps	DD385468.eps To blank-off or install: - from 1 to 4 buttons ø 16 or 22 mm - 1 device, 45 x 45 - 1 device, 72 x 72
	LVS03928 (1)		**LVS03903**	**LVS03901**
Directly mounted on W600 metal front plate with cut-out				
72 x 72 devices				
6 x 72 x 72 Vigirex and other devices 72 x 72	 DB417936.eps	3	Direct mounting	DD385469.eps To blank-off or install: - from 1 or 2 buttons Ø 22 mm - 1 device, 45 x 45
	LVS03910 (2)		-	**LVS03907**
96 x 96 devices				
3 x 96 x 96 Power Meter and other devices 96 x 96	 DD119465.eps	3	Direct mounting	DD385470.eps To blank-off or install: - from 1 or 2 buttons Ø 22 mm - 1 device, 45 x 45 - 1 device, 72 x 72
	LVS03911 (2)		-	**LVS03908**
1 x 96 x 96 Power Meter and other devices 96 x 96	 DB417938.eps	3	Direct mounting	DD385470.eps To blank-off or install: - from 1 or 2 buttons Ø 22 mm - 1 device, 45 x 45 - 1 device, 72 x 72
	LVS03913		-	**LVS03908**
Pushbuttons and lamps Ø22 mm				
20 x Ø 22 mm	 DB417940.eps	2	Direct mounting	
	LVS03914		-	-

Note: To maintain the IP55 degree of protection, the measurement devices must be installed behind a transparent door.
(1) The visor (cat. no. LVS**03928**) can be installed on a plain door with cut-out.
(2) Precut dimensions"Human-switchboard interface", page C-40.
(3) For PM200, 200P, PM5 & PM 8 series meters, use 2 no. blank off sheets between each meter.

Human-switchboard interface

Devices 72 x 72 - 96 x 96
Ø22 Lamps and pushbuttons

Other devices

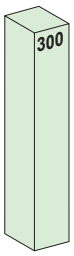
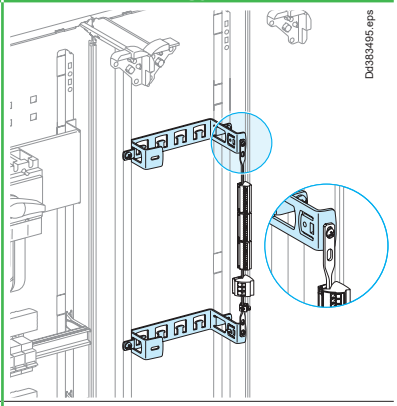
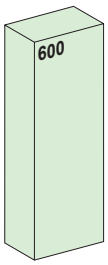
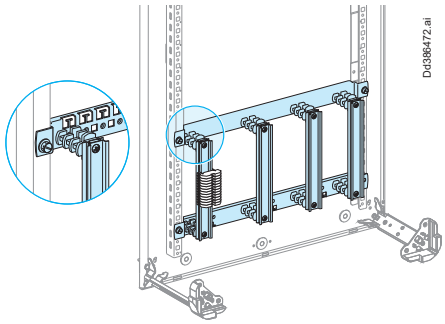
Directly mounted on W850 metal front plate with cut-out						
72 x 72 devices						
7 x 72 x 72 Vigirex and other devices 72 x 72	 DB417936_1.eps	**3**	Direct mounting	DD385469.eps	To blank-off or install: - from 1 or 2 buttons Ø 22 mm - 1 device, 45 x 45
	LVS03909 (1)		-	**LVS03907**	
96 x 96 devices						
4 x 96 x 96 Power Meter and other devices 96 x 96	 DD385861.eps	**3**	Direct mounting	 DD385470.eps	To blank-off or install: - from 1 or 2 buttons Ø 22 mm - 1 device, 45 x 45 - 1 device, 72 x 72
	LVS03925 (1)		-	**LVS03908**	
Pushbuttons and lamps Ø22 mm						
12 x Ø 22 mm	 DB417940.eps	**2**	Direct mounting		
	LVS03919		-	-	
Directly mounted on W300 metal front plate with cut-outs						
1 x 96 x 96 Power Meter and other devices 96 x 96	 DD385860.eps	**3**	Direct mounting	 DD385470.eps	To blank-off or install: - from 1 or 2 buttons Ø 22 mm - 1 device, 45 x 45 - 1 device, 72 x 72
	LVS03923		-	**LVS03908**	

Note: To maintain the IP55 degree of protection, the measurement devices must be installed behind a transparent door.
(1) Precut dimensions"Human-switchboard interface", page C-40.

Accessories

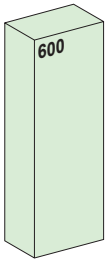
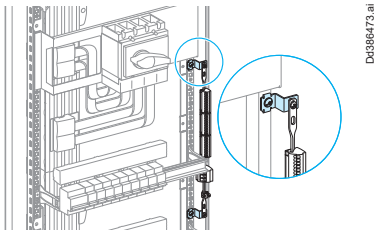
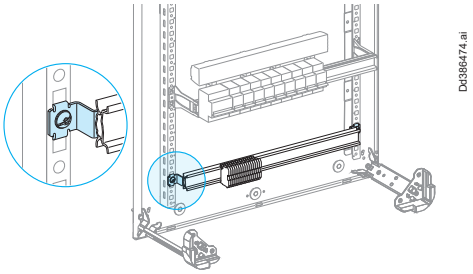
Support plate and dedicated mounting plate, in device compartment

This mounting assembly is used to easily install and connect a large number of terminal blocks in a minimum amount of space. It is particularly useful when a duct is not warranted or cannot be installed.

Used for	On mounting plate for terminal block and Linergy TB earth bar	Used for	In device compartment
	 		 
Number of vertical modules	-		5 (250 mm)
Catalog number	**LVS04220**		**LVS04223**
Characteristics	■ A mounting plate made up of two supports, is equipped with: □ a 1600 mm modular rail (LVS04226) for terminal blocks □ Linergy TB earth bar *> page D-23* ■ The supports have cut-outs that can be used to easily tie down the connection wires.		■ Mounting brackets, fixed to the functional uprights at the top or bottom of the enclosure, is equipped with four 200 mm symetrical rails. They are installed vertically to facilitate cable running. ■ To facilitate mixing of different size terminal blocks and ensure convenient connections from the front or the side, the distance between rails and the depth of each rail can be adjusted. ■ The assembly has cut-outs that can be used to easily tie down the connection wires. ■ Linergy TB earth bars and Linergy TR terminal blocks layout, supplied separately, can be installed between the rows of terminal blocks to form different configurations, e.g.: □ four sets of terminal blocks □ 3 sets of terminal blocks + one or two Linergy TB earth bars (W = 290 mm). *> page D-23*

Installation on the side or in the width of the enclosure

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

Fixing mode	2 fixing brackets for the earth bar on the functional uprights			Horizontally on brackets		
	 					
Catalog numbers	**LVS04206**	**LVS04207**	**LVS04208**	**LVS04206**	**LVS04207**	**LVS04208**
Characteristics	H = 15 mm	H = 45 mm	H = 80 mm	H = 15 mm	H = 45 mm	H = 80 mm
	Set of 2 brackets			Set of 2 brackets		

Linergy TR terminal blocks

> page D-24

Linergy TB earth bars

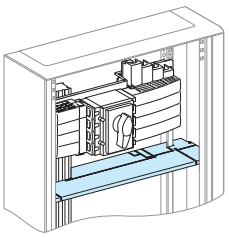
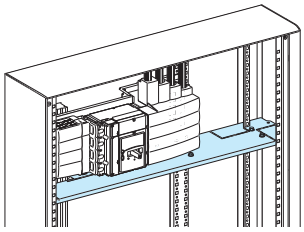
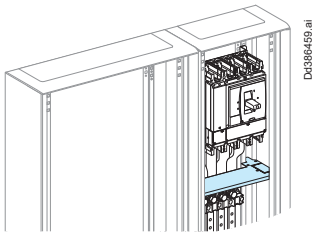
> page D-23

Partitioning in PrismaSeT G Active IP30 and PrismaSeT G IP55 Horizontal and Vertical system

Partitioning of functional units

Horizontal partitioning

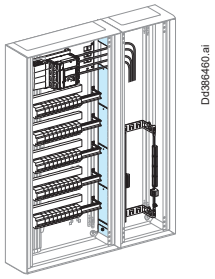
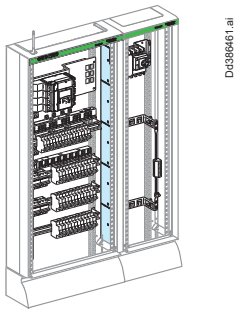
The metal partitions are used to:
- separate the functional units from one to another
- create a physical separation between devices and a terminal block, for example.

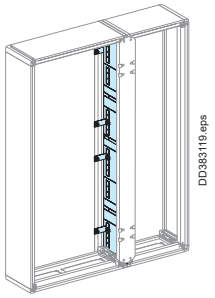
Used for	W600	W850	W300
IP30 **IP55**			
Catalog numbers	**LVS04331**	**LVS04336**	**LVS04332**
Characteristics	Metal. It is mounted directly on the functional uprights. Lateral and rear cut-outs are available for cable running or the installation of busbars at the rear of the switchboard.		

Vertical partitioning

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

It is used to:
- separate the devices from busbars or a distribution block installed in the duct,
- set up a special zone for terminal blocks in the duct.

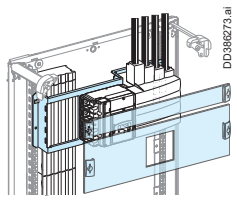
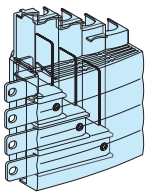
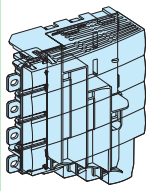
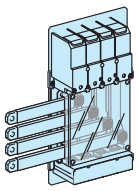
Used for	From 6 to 33 modules	36 modules
IP30		
Cat. no.	**LVS04330**	**LVS04335**
Description	Can be used for partitioning up to 33-modules. It can be cut to length every 150 mm.	Can be used for partitioning in 36-module floor standing enclosure.

Used for	From 7 to 33 modules							
IP55								
Cat. no.	**LVS08384**							
Description	Metal. There are cut -outs for cable running. Quantity to order according to height.							
	Nb. of vertical modules	7	11	15	19	23	27	33
	Height (mm)	450	650	850	1050	1250	1450	1750
	Quantity	1		2		3		

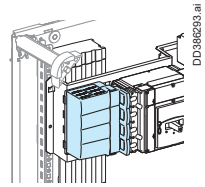
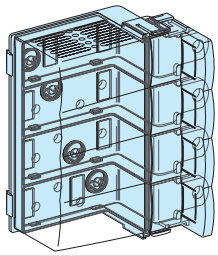
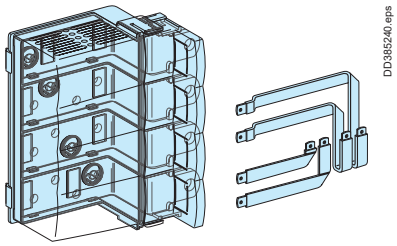
Connections blocks
Power supply blocks
Horizontal / Vertical mounting

Prefabricated connections

Incoming connection blocks

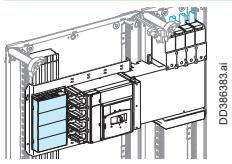
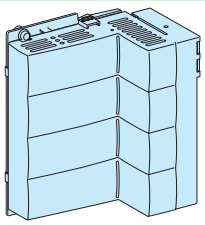
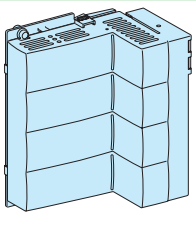
Upstream connection	Incoming connection block 250 A via top		Incoming connection block 250 A via bottom		Connection block 630 A (top/bottom)
					
Devices	**ComPacT NSX100/250**	**ComPacT INS250, INV100/250**	**ComPacT NSX100/250**	**ComPacT INS250, INV100/250**	**ComPacT NSX400/630**
Mounting	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal, in duct
Catalog number	**LVS04066**	**LVS04066**	**LVS04067**	**LVS04067**	**LVS04076**
Configuration	*> page C-7*	*> page C-19*	*> page C-7*	*> page C-19*	*> page C-14*
Characteristics	Optimize the dimension of the enclosure, avoid the contraints of cables bending radius, and IPxxB solution				

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

Downstream connection	Power supply block 250 A		Power supply block 250 A + prefabricated connections 250 A
			
Devices	**ComPacT NSX100/250**	**ComPacT INS250, INV100/250**	**ComPacT INS250, INV100/250**
Mounting	Horizontal	Horizontal	Vertical
Catalog number	**LVS04060**	**LVS04060**	**LVS04060** + connection **LVS04062**
Configuration	*> page C-7*	*> page C-19*	*> page C-20*

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

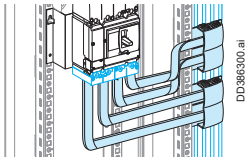
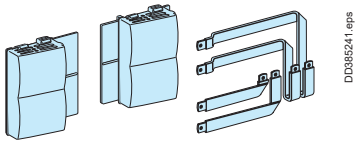
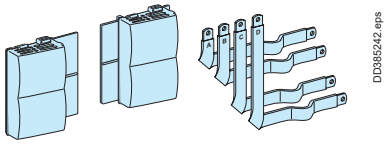
Devices 400-630 A

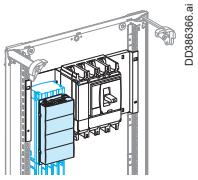
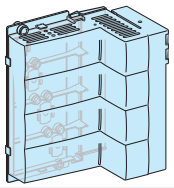
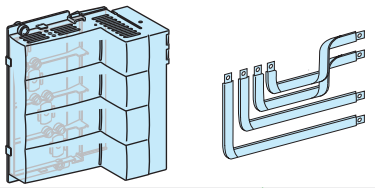
Downstream connection	Power supply block 400 A		Power supply block 630 A	
				
Devices	**ComPacT NSX400**	**ComPacT INS-INV320/400**	**ComPacT NSX630**	**ComPacT INS-INV500/630**
Mounting	Horizontal	Horizontal	Horizontal	Horizontal
Catalog number	**LVS04070**	**LVS04070**	**LVS04071**	**LVS04071**
Configuration	*> page C-14*	*> page C-21*	*> page C-14*	*> page C-20*

Connections blocks
Power supply blocks
Vertical mounting

Prefabricated connections

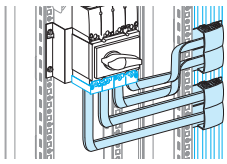
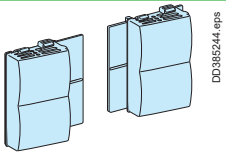
Universal power supply block + prefabricated connections between ComPacT device and Linergy BW isolated busbar

Downstream connection	Universal power supply 250 A + prefabricated connections 250 A	Universal power supply 250 A + prefabricated connections 250 A	
			
Devices	**ComPacT NSX100/250**	**ComPacT NSX100/250**	**ComPacT INS250, INV100/250**
Mounting	Vertical	Vertical, in duct	Vertical, in duct
Catalog number	**LVS04061** + connection **LVS04062**	**LVS04061** + connection **LVS04064**	**LVS04061** + connection **LVS04064**
Configuration	*> page C-8*	*> page C-8*	*> page C-8*

Downstream connection	Universal power supply 400/630 A + connection must be made		Universal power supply 400/630 A + prefabricated connections 400/630 A	
				
Devices	**ComPacT NSX400/630**	**ComPacT INS-INV320/630**	**ComPacT NSX400/630**	**ComPacT INS-INV320/630**
Mounting	Vertical	Vertical	Vertical, in duct	Vertical, in duct
Catalog number	**LVS04074** + connection must be made	**LVS04074** + connection must be made	**LVS04074** + connection **LVS04073**	**LVS04074** + connection **LVS04073**
Configuration	*> page C-16*	*> page C-21*	*> page C-17*	*> page C-21*

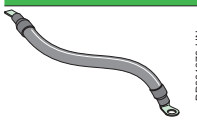
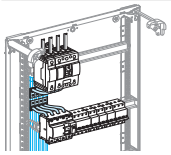
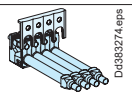
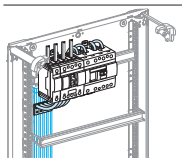
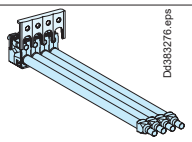
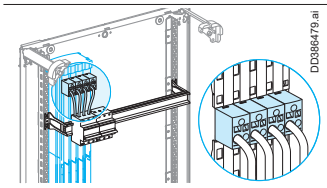
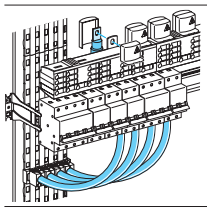
Universal power supply block, connections to make between ComPacT device and Linergy BW isolated busbar

Devices ⩽ 250 A

Downstream connection	Universal power supply 250 A + connection must be made	
		
Devices	**ComPacT NSX100/250**	
Mounting	Horizontal - Motor mechanism module	Vertical - Direct rotary handle
Catalog number	**LVS04061** + connection must be made	**LVS04061** + connection must be made
Configuration	*> page C-8*	*> page C-13*

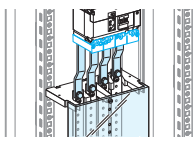
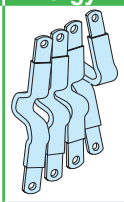
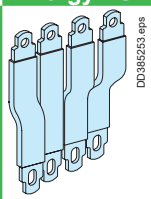
Linergy BW and devices connections
Other prefabricated connections

Prefabricated connections

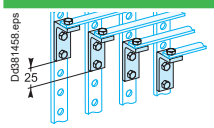
	Description	Allows connection of	Cat. no.
 DD381379-LIN.eps	**Set of 4** - 125 A - L = 230 mm ■ + 45° angle connector ■ 35 mm² ferrule	NSXm125, NG125, INS-INV with enclosed terminals cat. no. **28947** or **28948**	**LVS04145** (1)
	Set of 4 - 160 A - L = 250 mm ■ + 45° angle connector ■ 45 mm² ferrule	NSXm160, INS-INV160 cat. no. **28947** or **28948**	**LVS04146** (1)
 DD386477.ai	**One-piece connection 3/4P - 160 A, L = 165 mm** ■ Fast connection to Linergy BW busbars ■ Equipped with male fittings one end for tunnel terminals ■ Respects the degree of protection IPxxB ■ Neutral is clearly indicated (blue)  Dd383274.eps	NSXm, NSXm Vigi, NG125, INS-INV160, C120	**LVS04147** (1)
 DD386478.ai	**One-piece connection 3/4P - 160 A, L = 440 mm** ■ Fast connection to Linergy BW busbars ■ Equipped with male fittings one end for tunnel terminals ■ Respects the degree of protection IPxxB ■ Neutral is clearly indicated (blue)  Dd383276.eps	NSXm, NSXm Vigi, NG125, INS-INV160, C120	**LVS04148** (1)
 DD386479.ai	**12 tap-off blocks** for 1 cable of 6 mm² (32 A max.) and 1 of 10 mm² (40 A max.) Respects the degree of protection IPxxB. In: 55 A max., Ui: 750 V	All types of device	**LVS04151**
	12 tap-off blocks for 1 cable of 16 mm² (50 A max.) Respects the degree of protection IPxxB. In: 55 A max., Ui: 750 V	All types of device	**LVS04152**
 Dd383472.eps	**Set of 4 connections 4P - 200 A , L = from 230 to 330 mm** Supplied with mounting hardware **+ insulated covers**	Linergy FM 200 A	**LVS04021 + LVS04150**

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

Devices/Linergy BS multi-stage busbars connections

	Linergy BS multi-stage lateral busbars, 250 A	Linergy BS multi-stage lateral busbars, 630 A
 DD386316.ai	 DD385251.eps	 DD385253.eps
Devices	**ComPacT NSX-INS-INV 100/160/250**	**ComPacT NSX-INS-INV 400/630**
Mounting	Vertical, in duct	Vertical, in duct
Catalog number	**LVS04065**	**LVS04075**
Configuration	*> page C-7*	*> page C-16*

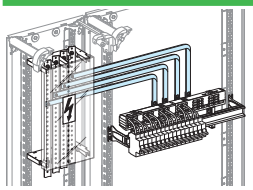
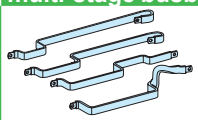
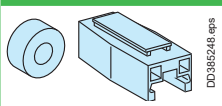
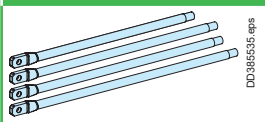
Connections between two sets of Linergy BS rear busbars

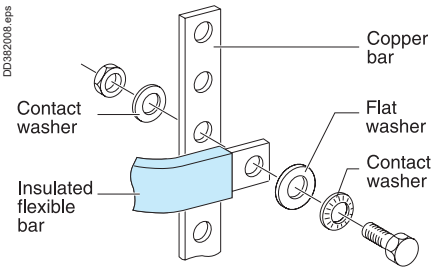
	Connection between 2 sets of Linergy BS rear busbars
 Dd381458.eps	
Devices	**Set of 4 copper angle brackets - 250 A**
Catalog number	**LVS04190**
Allows connection of	Electrical connections between two sets of rear busbars

Note: for some devices, it is recommended to use Schneider Electric prefabricated connections. If not, switchgears must be equipped with long terminal shields for personnel safety.
(1) Adaptation with references **28947** and **28948** for INS-INV 160.

Other prefabricated connections
Insulated flexible bars

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

	Linergy BS multi-stage busbars	Rear Linergy BS busbars	Linergy FM 160A / NSXm160
 DD386480.ai	 DD385247.eps	 DD385248.eps	 DD385535.eps
Devices			
Catalog number	**LVS04024**	**LVS04029**	**LVS04030**
Configuration	*> page C-4*	*> page C-4*	*> page C-4*
Allows supply of a distribution block	Linergy FM 200 A	Linergy FM 200 A Set of 4	Linergy FM 160 device feeders / NSXm160 Lugs Ø 6 mm L1: 398 mm, L2: 418 mm, L3: 438 mm, N: 378 mm 160 A



Insulated flexible bars

The insulated flexible bars are tested in a type-tested switchboard environment. Their design takes into account the switchboard architecture where they are often in close proximity to a protection device (circuit breaker or fuse) with significant heat losses. The sizes for the flexible bars indicated below take into account the heat losses of Schneider Electric devices in a PrismaSeT switchboard.

Characteristics

Length	1800 mm
Rated insulation voltage (Ui)	1000 V

Connection between device busbar

The flexible bars are determined taking into account the connected device, whatever the internal temperature of the switchboard.
The bar sizes indicated below take into account the derating curves of devices.

Devices	Size (mm)	Catalog numbers
NSX100	20 x 2	**LVS04742**
NSX160/250	20 x 3 (1)	**LVS04743**
NSX400	32 x 5	**LVS04751**
NSX630	32 x 8	**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**
Linergy FM 200	20 x 3	**LVS04743**
FuPacT 250	24 x 5	**LVS04746**
FuPacT 400	32 x 5	**LVS04751**
FuPacT 630	32 x 8	**LVS04753**

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

Connection between busbars

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

- a maximum temperature of 60 °C inside the switchboard. This corresponds to the average temperature inside a switchboard for an ambient temperature of 35 °C
- the maximum withstand temperature for the insulating material is 125 °C.

Ie (1) max	Size (mm)	Catalog 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**

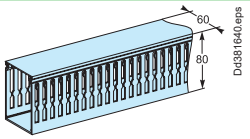
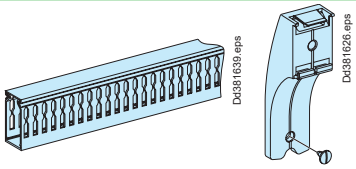
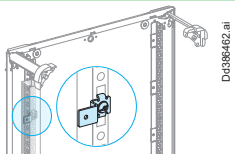
Designing connections

> page G-3

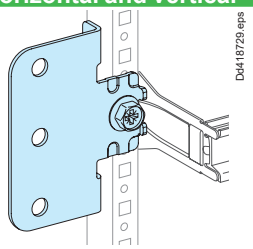
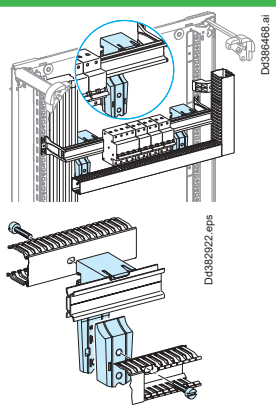
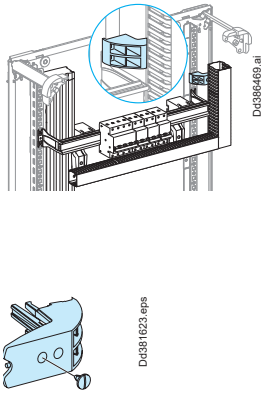
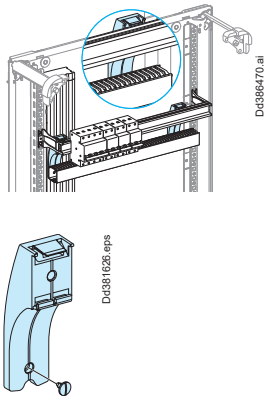
(1) Rated operational current.

Organisation of switchboard

Trunking

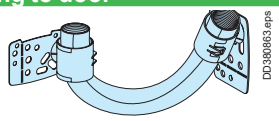
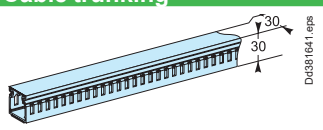
Type	Vertical trunking 80 x 60 mm	Horizontal trunking 60 x 30 mm	Brackets
			
Catalog numbers	**LVS04267**	**LVS04257**	**LVS04206**
Characteristics	Set of 18 L = 2000 mm	Set of 4 L = 450 mm Supplied with 8 supports	H = 15 mm For vertical trunking installation
Used with	PrismaSeT G Active wall-mounted and floor-standing enclosures	PrismaSeT G Active wall-mounted and floor-standing enclosures	PrismaSeT G Active wall-mounted and floor-standing enclosures

Trunking supports

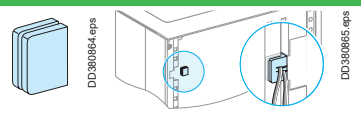
Type	Horizontal and vertical		Vertical	Horizontal
				
Catalog numbers	**LVS04266** (1)	**LVS04256**	**LVS04265**	**LVS04255**
Characteristics	Set of 10 Vertical trunking metal support plates (80x60 mm) for wall mounted and floor standing enclosures. The support is screwed in at the same time as the modular rail. Supplied with 10 plastic screws to fix the trunking. Used to align the cover of a horizontal trunking section (H = 80 mm) with that of a vertical trunking section (H = 80 mm).	Set of 10 Aligns the cover of a horizontal trunking section (H = 80 mm) with that of a vertical trunking section (H = 80 mm)	Set of 12	Set of 12
Used	PrismaSeT G Active wall-mounted and floor standing enclosures for trunkings LVS04267 and LVS04257	PrismaSeT G Active wall-mounted and floor-standing enclosures	PrismaSeT G Active wall-mounted and floor standing enclosures for trunkings LVS04267 and LVS04257	PrismaSeT G Active wall-mounted and floor-standing enclosures + Pack enclosures, for trunking LVS04267

(1) Horizontal mounting not possible with Linergy BW.

Cable trunking for doors

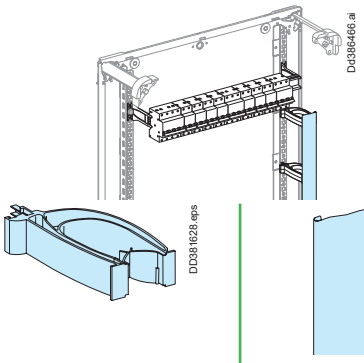
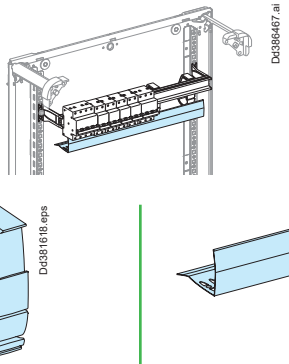
Type	Flexible trunking for wiring to door		Cable trunking
			
Catalog numbers	**LVS04235**		**LVS04233**
Characteristics	L = 500 mm, inner Ø = 19 mm		Set of 30 adhesive trunking 30 x 30 mm, L = 2000 mm

Grommets for wiring through front

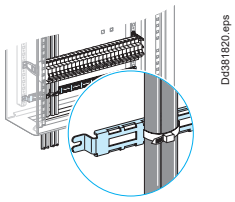
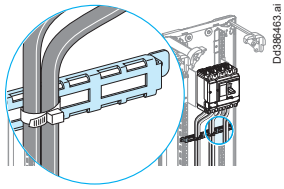
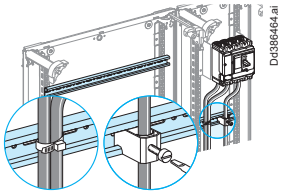
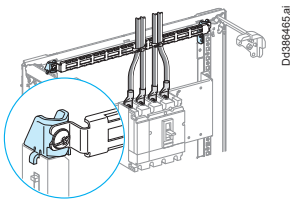
Grommets	
	
Catalog number	**LVS04234**
Characteristics	Set of 10. For wiring through front.

Organisation of switchboard

Straps and covers

Type	Vertical cable straps	Covers for vertical cable straps	Horizontal cable straps	Covers for horizontal cable straps
				
Catalog numbers	**LVS04264**	**LVS04263**	**LVS04239**	**LVS04243**
Characteristics	Set of 12	Set of 2 x 1 m	Set of 12 Have the same capacity as 60 x 30 mm trunking	Set of 4 covers of 430 mm
Used	PrismaSeT G Active wall-mounted and floor-standing enclosures		PrismaSeT G Active wall-mounted and floor-standing enclosures + Pack enclosures	PrismaSeT G Active wall-mounted and floor-standing enclosures + Pack enclosures

Cable-tie supports

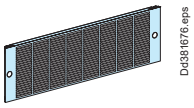
Used for	Cable-tie supports for wall-mounted or floor-standing enclosures	Cable-tie supports in a duct	C-shaped cable-tie supports for wall-mounted or floor-standing enclosures and ducts	Cable-tie support adapters
				
Catalog numbers	**LVS08867**	**LVS08868**	**LVS08783**	**LVS08866**
Characteristics	■ Set of 2 ■ Supplied with hardware for mounting on the functional uprights of the enclosure.	■ Set of 4 ■ Supplied with hardware for mounting on the functional uprights of the duct.	■ W = 1600 mm, can be cut to length as needed. ■ Cables secured by ties or cable clamps. ■ Supplied with hardware for mounting on the functional uprights of the enclosure or duct.	■ Set of 2 ■ Makes it possible to tie down the cables next to the gland plate and gain one module in height. ■ Only for use in 33- and 36-module enclosures.

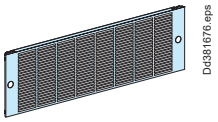
Note: for the connection of power cables, see *page G-8* .

Ventilation

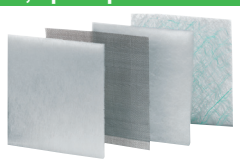
In most cases and notably for IP30 switchboards, the heat dissipation by convection takes place naturally and does not require fans.
However, when the switchboard is installed in temperate environments or when the degree of protection is high (IP54), ventilation accessories are indispensable.

For more in-depth information on selecting air-conditioning accessories and the thermal management of switchboards > *page G-25*.

Front plate W = 600	**Ventilated front plate**	
		
Catalog number	**LVS03891**	**LVS03895**
Height	1 module, H = 50 mm	3 modules, H = 150 mm
Characteristics	Degree of protection: IP30. Located at the top and bottom of the switchboard, IP30 ventilated front plates facilitate natural convection in the switchboard.	
Surface area of the openings	80 cm²	250 cm²

Front plate W = 850	**Ventilated front plate**	
		
Catalog number	**LVS03892**	**LVS03894**
Height	1 module, H = 50 mm	3 modules, H = 150 mm
Characteristics	Degree of protection: IP30. Located at the top and bottom of the switchboard, IP30 ventilated front plates facilitate natural convection in the switchboard.	
Surface area of the openings	100 cm²	350 cm²

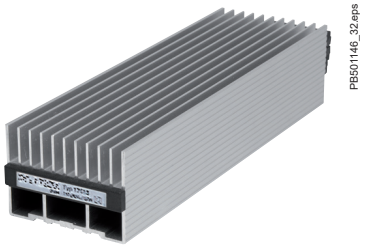
Forced-air ventilation		**85 m³/h**	**165 m³/h**
Catalog numbers		**NSYCVF85M230PF**	**NSYCVF165M230PF**
Free flow rate with filter (m3/h)	50 Hz	85	165
	60 Hz	98	193
Flow rate with outlet grille (m3/h)	50 Hz	63	153
	60 Hz	72	171
Power consumption (W) (max. current (A))		17/15 (0,121/0,097)	16,3/14,3 (0,12/0,94)
Sound level (dB (A))		46/49	50/51
External dimensions (cut-out)		170 x 150 x 62 (125 x 125) Plain front plate (≥ 4 modules) to cut out	268 x 248 x 104 (223 x 223) Plain front plate (≥ 6 modules) to cut out
Weight (kg)		0,780	1,140
Operating temp.		-20...+60 °C	-20...+60 °C
Installation		Generally installed at the bottom of floor-standing enclosures: ■ by cutting out a side panel, ■ on front of switchboard by cutting out a 4M (LVS03804) or 6M (LVS03806) plain front plate.	
Characteristics		The set comprises the fan with a grill and a standard filter. ■ Input voltage: 230 V (50/60 Hz). ■ Degree of protection: IP54. ■ RAL 7035. ■ Material: ABS, V0	

Outlet grille filters, set of 5, spare parts		
		
Standards filters G2 M1	**NSYCAF125**	**NSYCAF223**
Fine filters G3 M1	**NSYCAF125T**	**NSYCAF223T**

Heating elements

The resistors prevent condensation, corrosion and superficial leakage currents.
They maintain a positive temperature in the enclosures when external temperatures drop very low.
Install heaters according to the desired power level at the bottom of the enclosure, respect a safety area of a least 10 cm around the device.
Vertical installation is recommended to ensure optimum convection.
The resistance heaters are equipped with a PTC - type sensor (positive temperature coefficient). Thanks to these heaters, the surface temperature stabilises at 75 °C when the ambient is at -5 °C.

Heating resistor



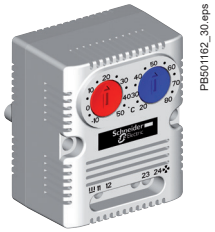
Catalog numbers	NSYCR55WU2	NSYCR100WU2	NSYCR250W230VV
Power rating	55 W	90 W	250 W
Characteristics	■ Vertical mounting. ■ Aluminium case with fins. ■ Temperature: □ turns off at 60 °C, □ turns on at 25-30 °C (temperature of the resistor itself). ■ Equipped with a symetrical rail for rapid mounting (clips on). ■ Input voltage: 110-250 V.		■ 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 rail for rapid mounting (clips on). ■ Input voltage: 230 V.

Regulating

Used to control the temperature inside electrical switchboards in conjunction with heating resistors and fans.
This thermostat can control the activation of a fan and a heater and regulate their temperature independently.

Double adjustable thermostat
Double temperature control with a resistance heater and a fan with separate operation
■ Red button: with normally closed contact (NC) for controlling the resistance heaters.
■ Blue button: with normally open contact (NO) for controlling the fans, signalling systems or alarms.

Thermostat



Catalog number	NSYCCOTHD
Characteristics	■ Setting range: 0 °C to +60 °C. ■ Power rating: 30 W ■ Input voltage: 120 V AC: 15 A - 230 V AC: 10 A ■ Fixing: clips onto a modular rail.

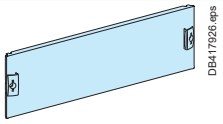
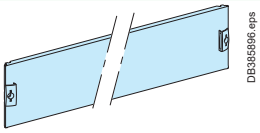
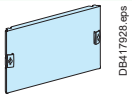
Thermal management of switchboards

> page G-25

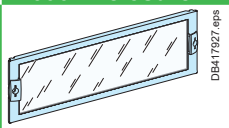
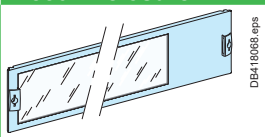
Front plates
W600 - W850 - W300

Front plates and accessories

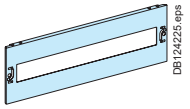
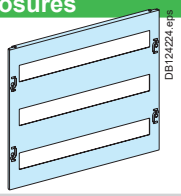
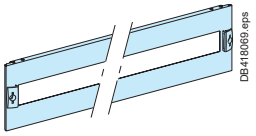
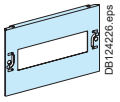
Plain front plates

Used for		W600 Enclosure	W850 Enclosure	W300 Duct
		 DB417926.eps	 DB385896.eps	 DB417928.eps
Nb. of vertical modules	**Height**	**Plain**	**Plain**	**Plain**
1	50 mm	**LVS03801**	**LVS03851**	**LVS03811** (2)
2	100 mm	**LVS03802**	-	**LVS03812**
3	150 mm	**LVS03803**	**LVS03853**	**LVS03813**
4	200 mm	**LVS03804**	**LVS03854**	**LVS03814**
5	250 mm	**LVS03805**	-	**LVS03815**
6	300 mm	**LVS03806**	**LVS03856**	**LVS03816**
9	450 mm	-	-	**LVS03817**
11	550 mm	-	**LVS03861**	-
12	600 mm	**LVS03808**	-	-

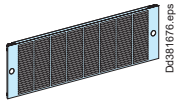
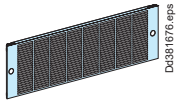
Transparent front plates

Used for		W600 Enclosure	W850 Enclosure	W300 Duct
		 DB417927.eps	 DB418068.eps	DB417929.eps
Nb. of vertical modules	**Height**	**Transparent**	**Transparent** (1)	**Transparent**
4	200 mm	**LVS03342**	-	**LVS03352**
6	300 mm	**LVS03343**	**LVS03363**	**LVS03353**
9	450 mm	**LVS03344**	**LVS03364**	**LVS03354**
12	600 mm	**LVS03345**	-	-

Modular front plates

Used for		W600 Enclosure	W600 wall mounted and floor standing enclosures	W850 Enclosure	W300 Duct
		 DB124225.eps	 DB124224.eps	 DB418069.eps	 DB124226.eps
Nb. of vertical modules	**Height**	**1 row of modular devices**	**3 rows of modular devices**	**1 row of modular devices**	**1 row of modular devices**
2	100 mm	**LVS03202**	-	-	-
3	150 mm	**LVS03203**	-	**LVS03216**	**LVS03213**
4	200 mm	**LVS03204**	-	**LVS03217**	**LVS03214**
5	250 mm	**LVS03205**	**LVS03223**	**LVS03218**	-

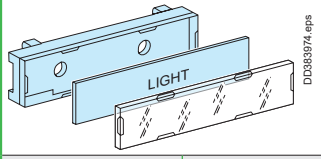
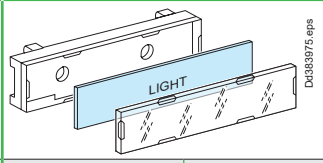
Other front plates

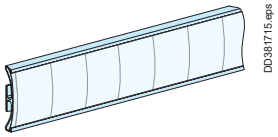
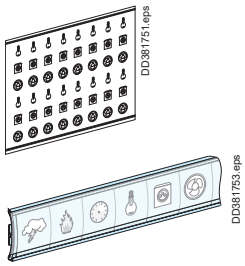
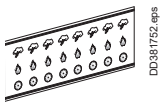
Used for		W600 wall mounted and floor standing enclosures	
		 Dt3816 76.eps	 Dt3816 76.eps
Nb. of vertical modules	**Height**	**Ventilated**	**Ventilated**
1	50 mm	**LVS03892**	**LVS03891**
3	150 mm	**LVS03894**	**LVS03895**
7	350 mm	-	-
8	400 mm		

(1) 2/3 transparent front plate
(2) Mounting 1 module front plate (LVS03811) on the extreme top or bottom is not allowed.

Finishing parts

Identification labels

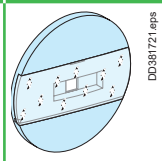
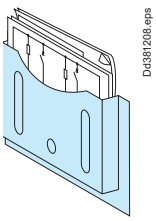
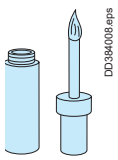
	Clip-on labels			Engraving plates		
						
Catalog numbers	**LVS08913**	**LVS08915**	**LVS08917**	**LVS08914**	**LVS08916**	**LVS08918**
Dimensions (mm)	18 x 35	18 x 72	25 x 85	18 x 35	18 x 72	25 x 85
Characteristics	■ Set of 12 ■ The clip-on support is supplied with a paper label and a transparent cover. ■ 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 ■ These plates simply replace the paper labels.		

	Adhesive labels						Symbol sheets	
								
Width	**W600**		**W300**		**W850**			
Catalog numbers	**LVS08903**	**LVS08904**	**LVS08905**	**LVS08906**	**LVS08907**	**LVS08908**	**13735**	**13736**
Dimensions (mm)	24 x 432	36 x 432	24 x 180	36 x 180	24 x 650	36 x 650		
Characteristics	■ Set of 12 ■ The adhesive label holders are supplied with a paper label and a transparent cover.						■ Set of 10 adhesive symbol sheets ■ Standard symbols: □ loads: sockets, lights, heating units, etc. □ rooms: bedroom, bathroom, etc.	■ Set of 10 adhesive symbol sheets ■ Special symbols: □ loads: lightning arrestor, gate, swimming pool, etc. □ rooms: technical room, computer room, etc.

Adhesive labels for mimic diagrams

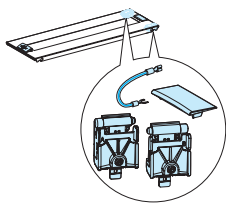
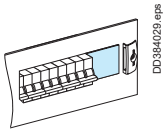
	Lines, 900 mm long (7 mm thick)	Outgoing arrows	Incoming arrows	Transformers
	x 10	x 10	x 10	x 10
Catalog numbers	**LVS01005**	**LVS01006**	**LVS01007**	**LVS01008**
Characteristics	Set of 10 Colour: black			

Accessories

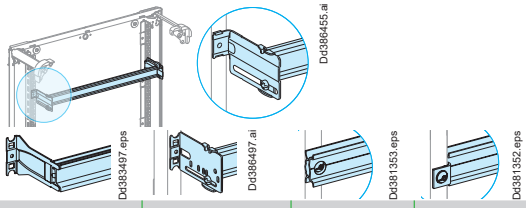
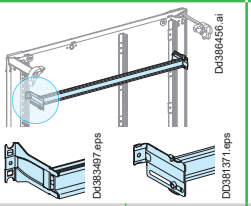
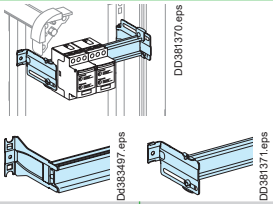
	Switchboard identification plate	Adhesive drawing holder	Touch-up paint brush
			
Catalog numbers	**LVS08900**	**LVS08963**	**LVS08961**
Characteristics	Colour: RAL 9003	Colour: RAL 9003	Colour: RAL 9003

Front plates and accessories

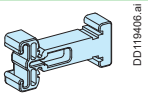
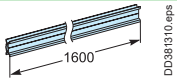
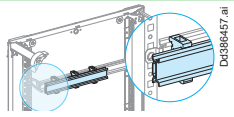
Front plates accessories

Used for	Front plate hinge kit	Front-plate locking handles	Blanking plates			
						
Catalog numbers	**LVS08585**	**LVS01094**	**LVS03220**	**LVS03221**	**LVS03222**	**LVS03249**
Characteristics	Set of 2 hinges	Set of 10	■ Strip ■ H = 46 mm, L = 100 mm	■ Divisible ■ Set of 4 ■ H = 46 mm, L = 90 mm	■ H = 107 mm, L = 147 mm	■ Strip ■ Set of 1 ■ H = 85 mm, L = 147 mm

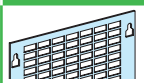
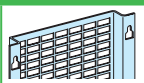
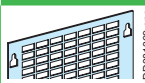
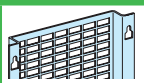
Rails

Used for	W600 Enclosure				W850 Enclosure		W300 Duct	
								
	Fixed	**Adjustable**	**Rear**	**Surbaissé**	**Fixed**	**Adjustable**	**Fixed**	**Adjustable**
Catalog numbers	**LVS03001**	**LVS03002**	**LVS03004**	**LVS03003**	**LVS03006**	**LVS03007**	**LVS03010**	**LVS03011**
Useful length	432 mm	432 mm	432 mm	432 mm	648	648	180 mm	180 mm
9 mm pitch number	48	48	48	48	72 pitch (36 modules)	72 pitch (36 modules)	20	20
Useful depth behind front plate	50 mm	from 47 to 114 mm	128 mm	158 mm	50	from 47 to 114 mm	50 mm	from 47 to 114 mm

Adjustable rails

	Raiser	Rail	Rail + raiser
			
Catalog numbers	**LVS04225**	**LVS04226**	**LVS04227**
Characteristics	Set of 12 raisers (NSXm) Raiser height 11 mm To be completed with LVS**04226** rail	Set of 2 rails, useful length: 1600 mm with 4 holes, dia. 6.4 mm, 450 mm between centres To be cut	Rail, 8 modular raisers (NG 160 and NSXm 4 each) Useful length: 342 mm Raiser height: NG160-31 mm, NSXm-24 mm

Slotted mounting plate **(1)**

Used for	W600 Enclosure				W300 Duct			
								
	Flat	**Recessed**			**Flat**	**Recessed**		
Catalog numbers	**LVS03170**	**LVS03171**	**LVS03172**	**LVS03173**	**LVS03175**	**LVS03176**	**LVS03177**	**LVS03178**
Nb. of vertical modules	4	4	6	9	4	4	6	9
Height	200 mm	200 mm	300 mm	450 mm	200 mm	200 mm	300 mm	450 mm
Useful width	440 mm	420 mm			172 mm	152 mm		
Useful depth behind front plate	140 mm	160 mm			140 mm	160 mm		

Dedicated mounting plate (LVS**04223**)

> page C-55.

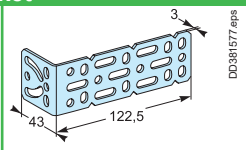
(1) For 850 width floor standing enclosure, fit a W600 mounting plate plus a W300.

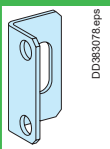
Accessories

Self-tapping screws

M5	**LVS03183**
Characteristics	Set of 20, mounting on functional uprights

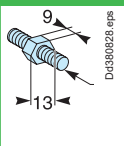
Universal angle bracket

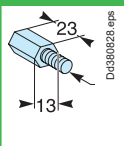


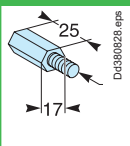


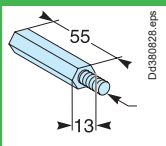
Catalog numbers	**LVS03581**	**LVS03583**
Characteristics	Set of 2	Set of 6

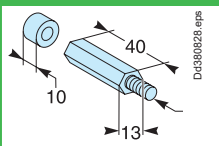
Hexagonal spacers





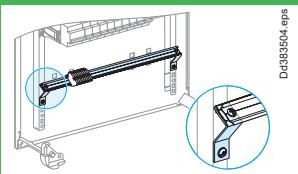






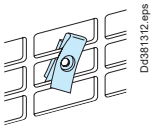
M5	**LVS03185**	**LVS03186**	**-**	**LVS03187**	**-**
M6	**LVS03195**	**LVS03196**	**LVS03198**	**LVS03197**	**-**
M8	**-**	**-**	**-**	**-**	**LVS03199**
Characteristics	Height: 9 mm Set of 4	Height: 23 mm Set of 4	Height: 25 mm Set of 4	Height: 55 mm Set of 4	Height: 40 + 10 mm Set of 4

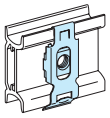
30° supports

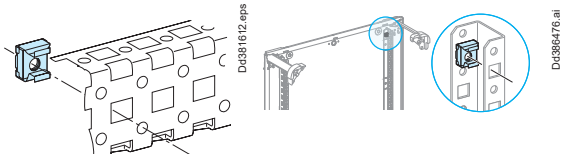


Catalog numbers	**LVS03005**
Characteristics	Set of 2 supports (to fix a modular rail, earth bar, etc.)

Clip-nuts

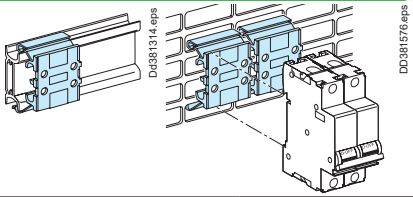






M4	**LVS03180**	**LVS03164**	**-**
M5	**LVS03181**	**LVS03165**	**-**
M6	**LVS03182**	**LVS03166**	**LVS03194**
Mounting on	Slotted mounting plate and also on cable-tie support (LVS08876)	Rail	Functional uprights of IP30/55 enclosures
Characteristics	Set of 20, mounting of various devices	Set of 20	Set of 20

Raiser for rails and slotted mounting plates



Catalog number	**LVS04224**
Characteristics	Set of 5, height: 10 mm, length 27 mm Colour: RAL 9003, insulating material

Linergy distribution and connection systems

Contents

Distribution and connection

Panorama of the solutions **D-2**

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Linergy BW
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Multi-stage distribution blocks D-8
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Linergy DX
Quick distribution blocks D-10
Linergy DP
Quick distribution blocks - ComPacT NSX and INS-INV up to 250 A D-12
Quick distribution blocks - ComPacT NSXm up to 160 A D-13
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Screw distribution blocks D-14

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

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

Terminal blocks and bars

Linergy TA
Auxiliary connections D-26

Electrical characteristics

Designing connection ⩽ 630 A **D-27**

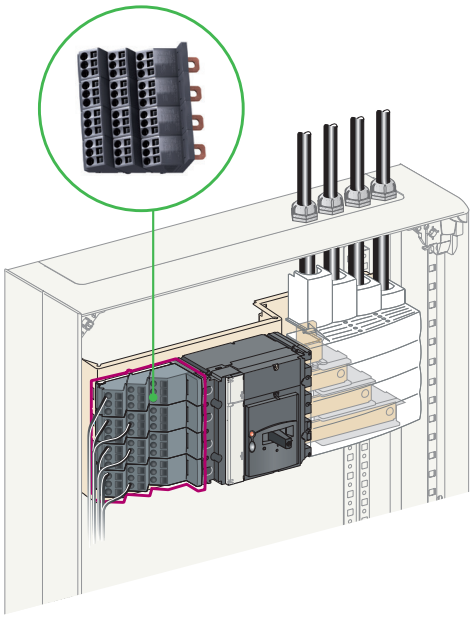
D

Distribution and connection

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

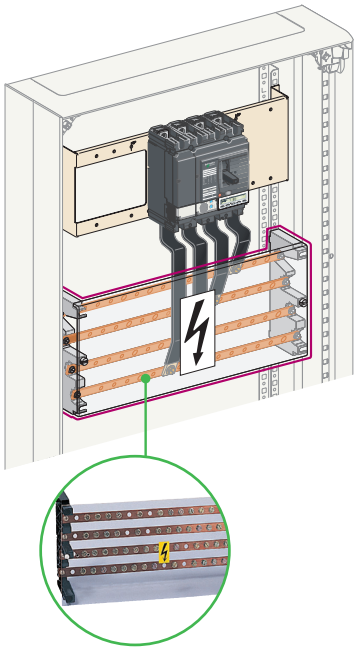
> For incoming devices

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



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

Linergy BS 160 to 630 A distribution block

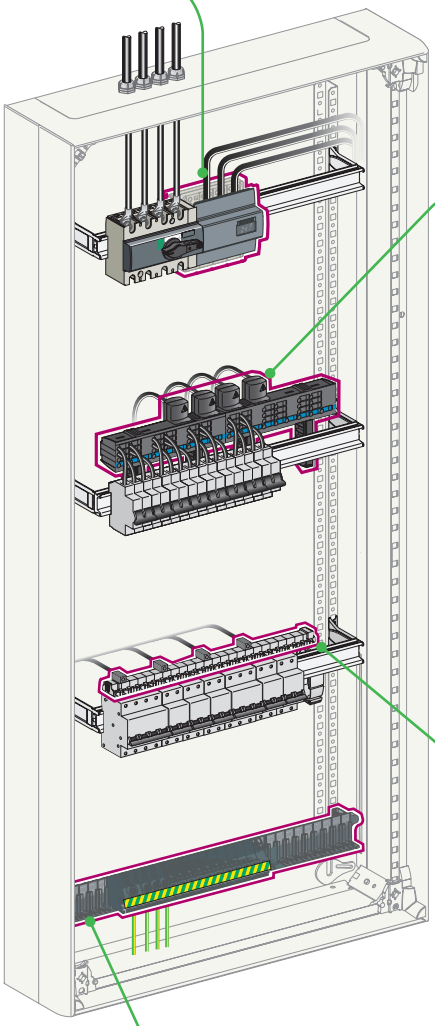


- Traditional, highly polyvalent solution
- Many installation possibilities

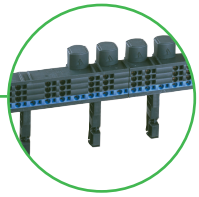
> For rows of modular devices

Linergy DX 125 at 160 A distribution block

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

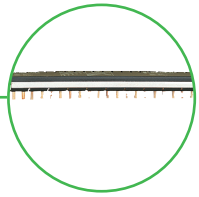


Linergy FM 63/200 A



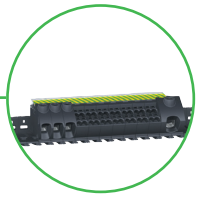
- Reliable spring-terminal connections requiring no maintenance
- Fast installation
- Easy upgrades through replacement or addition of devices
- Easy balancing of phases

Linergy FH 100 to 125 A comb busbars



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

Linergy TR



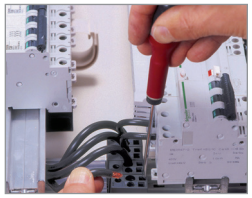
- Fast and simple installation
- Multiple connection options (screw, spring or push-in connections)

Distribution and connection

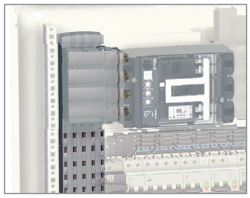
Customised organisation of your switchboard

> Busbars up to 630 A for all switchboard architectures

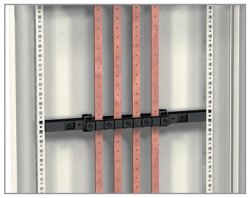
Linergy BW busbars:
comPacT and insulated for fast upgrades.



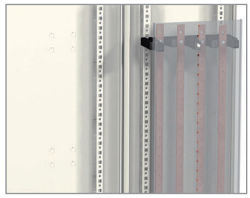
Prefabricated connections, optimised and fully insulated.



Linergy BS busbars:
for traditional distribution.



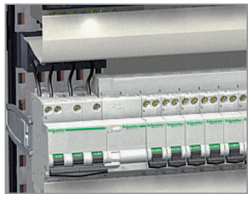
Rear Linergy BS busbars.



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

> Row distribution blocks for modular devices

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

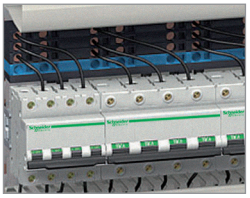


Linergy FH comb busbars.

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

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

Linergy FM device feeder 80 A.



Linergy FM device feeder 200 A.

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

> Centralised distribution blocks for switchboard incomers

Linergy DX 160 A 4P: practical and aesthetic.

Modular monobloc distribution block for fast connections

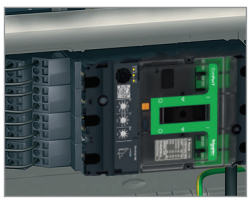
Linergy DX 160 A 1P: "Quick" distribution block.

Modular combinable components for fast connections.

Linergy DS 160 A: a traditional solution.

Installation on modular rail on mounting-plate.
Screw-terminal connections.

Linergy DP 160 A: modular and comPacT.



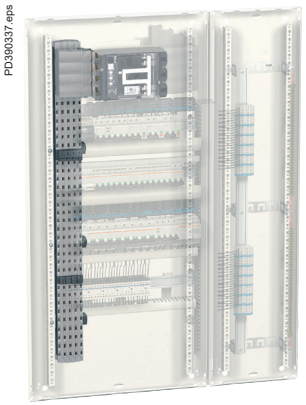
Linergy DP 250 A: modular and comPacT.

Installed directly downstream of ComPacT circuit breakers and switches without taking up any extra vertical modules. Fast connections in spring-loaded terminals.

D

Linergy BW
Insulated busbars

Power busbars up to 630 A



Description

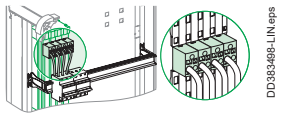
- ComPacT busbar, **IPxxB**, ready for installation (supplied complete with supports and end caps)
- Shaped busbar, threaded M6 with 25-mm pitch, can be cut with 200-mm pitch (150 mm for the 125 A)
- Busbar installed on insulating supports, screwed onto the rear uprights
- Wide selection of tested pre-wired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

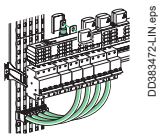
Linergy BW (160 to 630 A) is fully compatible with seismic constraints. Just add a seismic kit (LVS**04130**) to Linergy BW 160/250/400.

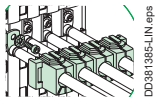
Linergy BW busbar

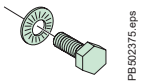
		125 A (1)		160 A		250 A		400 A		630 A	
Rated peak withstand current / 60 ms	(Ipk)	20 kA		30 kA		30 kA		52.5 kA		52.5 kA	
Rated insulation voltage	(Ui)	500 V AC		750 V AC		750 V AC		750 V AC		1000 V AC	
Rated impulse withstand voltage	(Uimp)	8 kV		8 kV		8 kV		8 kV		8 kV	
Rated short-time current	(Isc)	50 kA		150 kA		150 kA		150 kA		150 kA	
Thermal stress	($I^2.t$)	7.225×10^7		1.000×10^8		1.690×10^8		4.000×10^8		6.250×10^8	
Rated short-time withstand current	(Icw)	8.5 kA rms/1 second		10 kA rms/1 second		13 kA rms/1 second		20 kA rms/1 second		25 kA rms/1 second	
Length (mm)		**450**	**750**	**1000**	**1400**	**1000**	**1400**	**1000**	**1400**	**1000**	**1400**
Catalog numbers	**3P**	**LVS04103**	**LVS04107**	**LVS04111**	**LVS04116**	**LVS04112**	**LVS04117**	**LVS04113**	**LVS04118**	**LVS04114**	**LVS04119**
	4P	**LVS04104**	**LVS04108**	**LVS04121**	**LVS04126**	**LVS04122**	**LVS04127**	**LVS04123**	**LVS04128**	**LVS04124**	**LVS04129**

Accessories



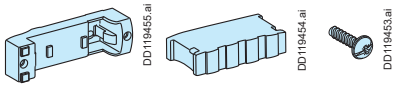




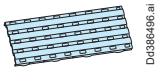


	IPxxB tap-off terminals		**200 A connections**	**IPxxB insulating covers**	**Class 8.8 fixing accessories**
	12 tap-off blocks For 1 cable of 6 mm² (32 A max.) and 1 cable of 10 mm² (40 A max.) Ui: 750 V In: 55 A max. (2)	12 tap-off blocks For 1 cable of 1 to 16 mm² Ui: 750 V In: 55 A max. with only 1 cable		Covers which can be clipped on and cut to size are used to isolate the connectors of a connection with cables of cross-section 10 to 25 mm²	M6 x 12 screws + 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
Catalog numbers	**LVS04151**	**LVS04152**	**LVS04021**	**LVS04150**	**LVS04158**

Spare parts



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

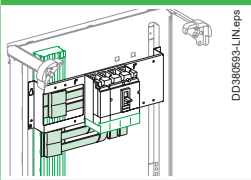
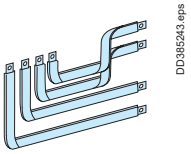
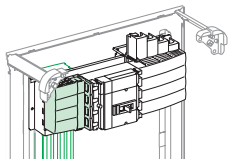


	IPxxB clip-on covers
Length (mm)	200
Set of	2
Catalog numbers	**LVS01201**

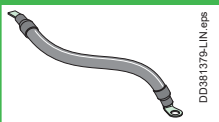
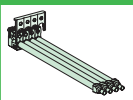
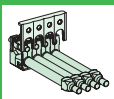
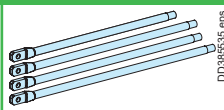
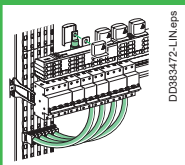
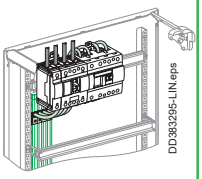
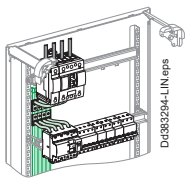
Note: Electrical characteristics. *> page D-27*
(1) Not compatible with seismic kit.
(2) Imax = 55 A for all connected cables.

Linergy BW
Insulated busbars

Power busbars up to 630 A

Mounting	Vertical					Horizontal		
	 DD380693-LIN.eps		 DD385243.eps			 DD380522-LIN.eps		
	Power supply units without connections		**Universal power supply units**			**Universal power supply units with connections**		
Switchgear	**Fixed** ■ Enclosed horizontal NSX100/250 with rotary handle or remote control ■ Vertical FuPacTGS 100/160, FuPacT ISFT100/250	**Fixed** ■ Enclosed NSX400/630 with or without Vigi ■ Enclosed INS-INV320/630	**Fixed** ■ Enclosed NSX100/250 with toggle switch ■ Enclosed Vertical INS-INV250	**Fixed** ■ In duct NSX100/250 with or without Vigi ■ In duct Vertical INS-INV250	**Fixed** ■ In duct NSX400/630 with or without Vigi ■ In duct INS-INV320/630	**Fixed** ■ NSX100/250 horizontal with or without Vigi ■ INS-INV250 horizontal	**Fixed** ■ NSX400 horizontal ■ INS-INV320/400 horizontal	**Fixed** ■ NSX630 horizontal ■ INS-INV500/630 horizontal
Catalog numbers	**LVS04061**	**LVS04074**	**LVS04062**	**LVS04064**	**LVS04073**	**LVS04060** (1)	**LVS04070**	**LVS04071**

Pre-wired connectors

	 DD381379-LIN.eps		 DD383276-LIN.eps	 DD383274-LIN.eps	 DD385535.eps	 DD383472-LIN.eps
	Connections		**IPxxB 3/4P monobloc connection**	**IPxxB 3/4P monobloc connection**	**Connections 4P**	**Connections 4P**
	35 mm² ferrule + 45°angled connector	45 mm² ferrule + 45°angled connector	Quick connection on the busbar equipped with a male ferrule for enclosed terminals. Neutral identified by the colour blue.		Lugs Ø 6 mm	Supplied with mounting hardware
Rated operational current at 40 °C (Ie)	125 A	160 A	160 A	160 A	160 A	200 A
Length	230 mm	250 mm	440 mm	165 mm	L1: 398 mm, L2: 410mm, L3: 438 mm, N: 378 mm	230 to 330 mm
Used for connecting	■ NSXm125, NG125, INS-INV with enclosed terminals cat. no. **28947** or **28948**	■ INS-INV160, NSXm160	■ NSXm160, NSXm Vigi 160 (left-hand position), ■ NG125, INS-INV160, C120  DD383295-LIN.eps	■ NSXm160 (left-hand position), NG125, INS-INV160, C120  Dd383294-LIN.eps	■ Linergy FM 160 ■ NSXm160	■ Linergy FM 200 A
Set of	4	4	1	1		4
Catalog numbers	**LVS04145**	**LVS04146**	**LVS04148**	**LVS04147**	**LVS04030** + **LVS04150** insulated covers	**LVS04021** + **LVS04150** insulated covers

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

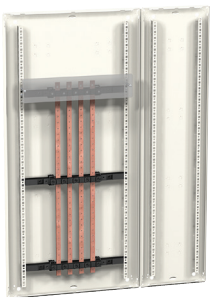
Use the seismic kit **LVS04130** when using Linergy BW - 3 metallic support.

Catalog numbers **LVS04130**

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

Linergy BS
Rear flat busbars

Power busbars up to 630 A

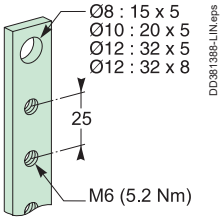

PD390532_SE.eps

IEC 61439-1 & 2

Description

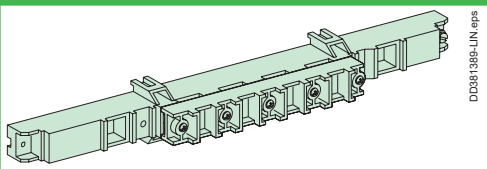
The busbar can be 3-pole or 4-pole with ratings between 160 A and 630 A.
2 lengths are available: 1000 and 1400 mm, which can be cut as required.
The number of supports depends on the installation maximum rated current.
The supports allow installation of a 5th bar with 15 or 20 x 5 mm cross-section to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

Copper busbars 160 to 630 A

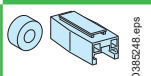
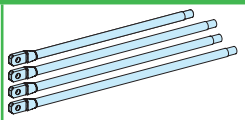
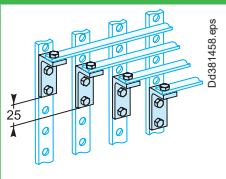
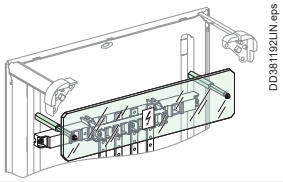


		160 A	250 A	400 A	630 A
Rated peak withstand current / 60 ms	(Ipk)	30 kA	40 kA	55 kA	77 kA
Rated insulation voltage	(Ui)	1000 V AC	1000 V AC	1000 V AC	1000 V AC
Rated short-time current	(Isc)	150 kA	150 kA	150 kA	150 kA
Thermal stress	($I^2.t$)	1.000×10^8	2.250×10^8	6.250×10^8	1.225×10^9
Rated short-time withstand current	(Icw)	10 kA rms/1 second	15 kA rms/1 second	25 kA rms/1 second	35 kA rms/1 second
Conductor cross-section		15 x 5 mm	20 x 5 mm	32 x 5 mm	32 x 8 mm
Installation		Threaded M6 holes every 25 mm all the way up Connection by: 16 to 50 mm^2 flexible cables with crimped lugs			
Set of		4			
Length (mm)		**1000** / **1400**	**1000** / **1400**	**1000** / **1400**	**1400**
Catalog numbers		**LVS04161** / **LVS04171**	**LVS04162** / **LVS04172**	**LVS04163** / **LVS04173**	**LVS04174**

Insulating busbar support



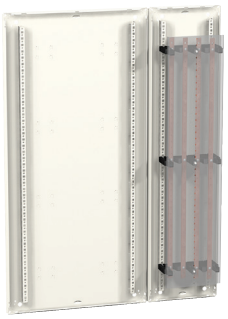
Distance between supports depending on Icw (1)	≤ 10 kA eff / 1 s	450 mm	450 mm	450 mm	450 mm
	≤ 13 kA eff / 1 s	-	450 mm	450 mm	450 mm
	≤ 15 kA eff / 1 s	-	450 mm	450 mm	450 mm
	≤ 20 kA eff / 1 s	-	-	300 mm	300 mm
	≤ 25 kA eff / 1 s	-	-	225 mm	225 mm
	≤ 30 kA eff / 1 s	-	-	-	225 mm
	≤ 35 kA eff / 1 s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

	Prefabricated connections			IPxxB insulated protective shield
				
Devices	**Rear Linergy BS busbars**	**Linergy FM & NSXm160**	**Connection between 2 sets of Linergy BS rear busbars**	
	set of 4	Lugs Ø 6 mm L1: 398 mm, L2: 410mm, L3: 438 mm, N: 378 mm 160 A	Set of 4 copper angle brackets - 250 A Electrical connection between two sets of rear busbars	Length 470 mm, height 100 mm Supplied with fixings
Cat. numb.	**LVS04029**	**LVS04030**	**LVS04190**	**LVS04198**

Note: Electrical characteristics. *> page D-27*
(1) Linergy FM 200 A distribution blocks with connections ref. LVS**04029** can act as intermediate supports (max. distance apart 200 mm) in addition to the support ref. LVS**04191** at the top and bottom.

Linergy BS
Multi-stage busbars

Power busbars up to 630 A

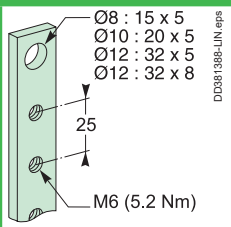


IEC 61439-1 & 2

Description

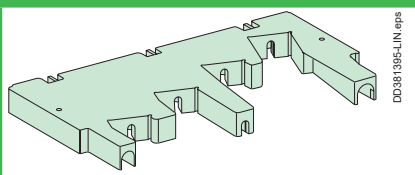
Multi-stage busbars are installed in a duct W = 300 mm.
It could be interesting to install it in a duct between 2 enclosures for dividing the current.
All the connection points are easily accessible from the front.
The busbar orientation makes them easier to tighten and facilitates running the cables between them.
The current can be 3-pole or 4-pole with ratings between 160 A and 630 A.
2 lengths are available: 1000 and 1400 mm, which can be cut as required.
The number of supports depends on the installation maximum rated current.

160 to 630 A copper busbars

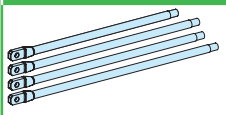
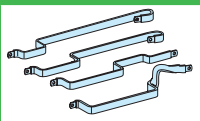
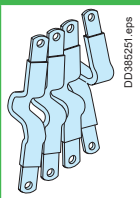
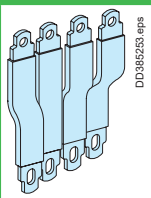
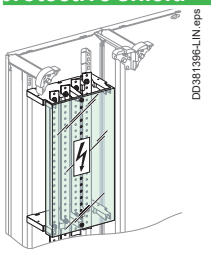


		160 A	250 A	400 A	630 A
Rated peak withstand current / 60 ms	(Ipk)	30 kA	40 kA	55 kA	55 kA
Rated insulation voltage	(Ui)	750 V AC	750 V AC	750 V AC	750 V AC
Rated short-time current	(Isc)	150 kA	150 kA	150 kA	150 kA
Thermal stress	(I^2.t)	1.000 x 10^8	1.690 x 10^8	4.000 x 10^8	6.250 x 10^8
Supply at 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^2 all the way up			
Set of		4			
Length (mm)		**1000** / **1400**	**1000** / **1400**	**1000** / **1400**	**1000** / **1400**
Catalog numbers		**LVS04161** / **LVS04171**	**LVS04162** / **LVS04172**	**LVS04163** / **LVS04173**	must be made / **LVS04174**

Insulating busbar support



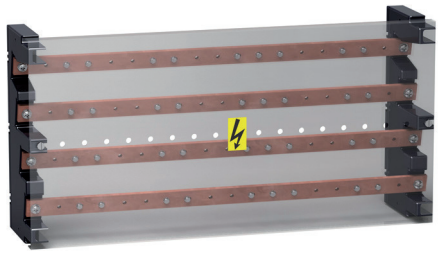
Distance between supports depending on Icw **(1)**	≤ 10 kA rms / 1 s	450 mm	450 mm	450 mm	450 mm
	≤ 13 kA rms / 1 s	-	450 mm	450 mm	450 mm
	≤ 15 kA rms / 1 s	-		450 mm	450 mm
	≤ 20 kA rms / 1 s	-	-	300 mm	300 mm
	≤ 25 kA rms / 0.6 s	-	-	300 mm	-
	≤ 25 kA rms / 1 s	-	-	-	300 mm
Installation		Installation on functional uprights of duct (PrismaSeT G Active). Screwed onto a solid or pre-slotted plate (450 x 200 mm fixing centres)			
Catalog numbers		**LVS04192**	**LVS04192**	**LVS04192**	**LVS04192**

	Prefabricated connections				IPxxB insulated protective shield
	 DD385535.eps	 DD385247.eps	 DD385251.eps	 DD385253.eps	 DD381396-LIN.eps
Devices	**NSXm160, Linergy FM 160A**	**Linergy FM 200A**	**ComPacT NSX-INS-INV 100/160/250**	**ComPacT NSX-INS-INV 400/630**	
	Lugs Ø 6 mm L1: 398 mm, L2: 410mm, L3: 438 mm, N: 378 mm 160 A	200 A	Vertical mounting, in duct	Vertical mounting, in duct	Length 250 mm, height 1500 mm Fixing accessories supplied with support cat no. LVS**04192**
Configuration			*> page C-7*	*> page C-16*	
Catalog numbers	**LVS04030**	**LVS04024**	**LVS04065**	**LVS04075**	**LVS04197**

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

Linergy BS
Multi-stage distribution blocks

Power busbars up to 630 A

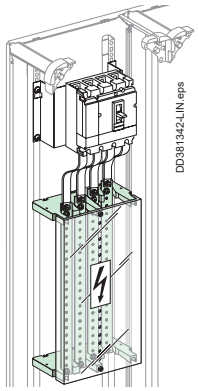


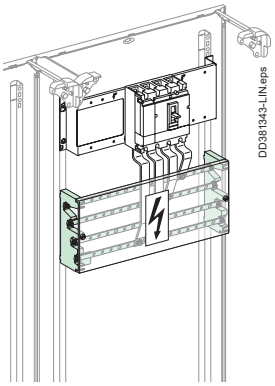
IEC 61439-1 and 2

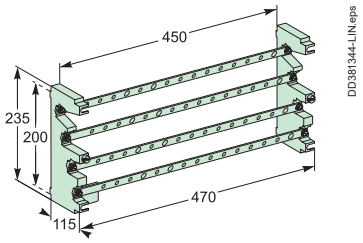
Description

The multi-stage distribution block can be installed horizontally in the device zone or vertically in the 300 mm wide duct of enclosures and cubicles.
The distribution block is made up of:
- two staggered supports made of an insulating material
- four slanted copper bars with holes every 25 mm.

Multi-stage distribution blocks



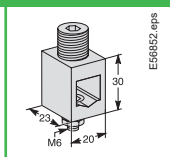


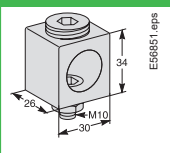
		160 A	250 A	400 A	630 A
Rated peak withstand current / 60 ms	(Ipk)	30 kA	40 kA	55 kA	55 kA
Rated insulation voltage	(Ui)	750 V AC			
Rated operational voltage	(Ue)	440 V AC			
Rated impulse withstand voltage	(Uimp)	8 kV			
Rated short-time current	(Isc)	150 kA	150 kA	150 kA	150 kA
Thermal stress	($I^2.t$)	1.000 x 10^8	1.690 x 10^8	4.000 x 10^8	6.250 x 10^8
Rated short-time withstand current	(Icw)	25 kA rms/1 second	25 kA rms/1 second	25 kA rms/1 second	25 kA rms/1 second
Total connection capacity		4 incomers per phase: Ø from 8 to 12 mm clearance holes 13 outgoers per phase 16 to 50 mm^2: M6 tapped holes			
Busbar cross-section		15 x 5 mm	20 x 5 mm	32 x 5 mm	32 x 8 mm
Dimensions (mm)					
Installation		Screwed in horizontal position on functional uprights in enclosures and cubicles (PrismaSeT G Active) Screwed in vertical position on sheathed uprights (PrismaSeT G Active) Screwed onto a solid or pre-slotted plate (fixing centres 450 x 200 mm)			
Composition		2 multi-stage supports made of an insulating material 4 slanted copper busbars, with holes every 25 mm 1 pack of 36 M6 x 16 screws + contact washers 1 IPxxB front insulating shield			
Catalog numbers		**LVS04052**	**LVS04053**	**LVS04054**	**LVS04055**

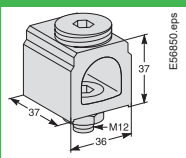
	A	B
LVS04052	4 x Ø 8.2	13 x M6
LVS04053	4 x Ø 10.2	13 x M6
LVS04054	4 x Ø 12.2	13 x M6
LVS04055	4 x Ø 12.2	13 x M6

Power busbars up to 630 A

Incomer accessories

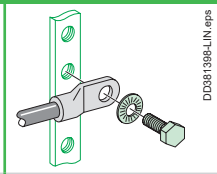






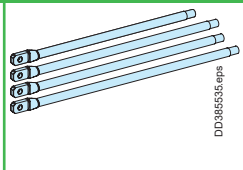
	Connectors for copper or aluminium cables		
Rated operational current at 40 °C (Ie)	160 A	250 A	400 A
Supply at incoming terminals	70 mm² Cables	16 - 185 mm² Cables	70 - 300 mm² Cables
Composition	Supplied with fixings at busbar end		
Set of	4		
Catalog numbers	**LVS07051**	**LVS07052**	**LVS07053**

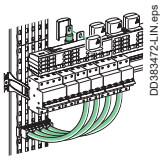
Outgoer accessories

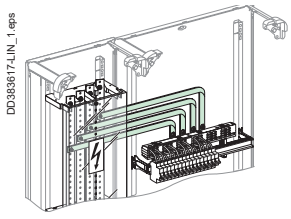


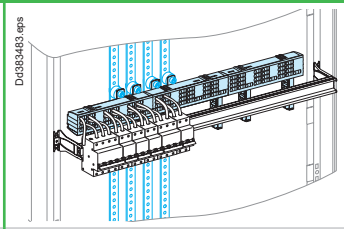
	Class 8.8 fixings	
Composition	20 M6 x 20 screws + 20 nuts + 40 contact washers	40 M6 x 16 screws + 40 contact washers
Catalog numbers	**LVS04194**	**LVS04195**

Connections to device and Linergy FM







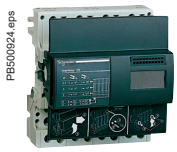


	4P 160 A connection	**4P 200 A connection (Supplied with mounting hardware)**	**4P 200 A connection (supplied with fixings)**	**4P 200 A connection (supplied with fixings)**
Allows supply of	Linergy FM 160 A	Linergy FM 200 A	Linergy BS busbars in duct	Rear Linergy BS busbars
Catalog numbers	**LVS04030**	**LVS04021**	**LVS04024**	**LVS04029**

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

D

Distribution blocks



IEC 60947-7-1, IEC 61439-2

Description

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

Quick distribution blocks

Number of poles		4P, upstream incoming	4P, downstream incoming
Rated operational current at 40 °C	(Ie)	63 A	63 A
Rated conditional short-circuit breaker of an assembly	(Isc)	The reinforced breaking capacity due to cascading in circuit breaker combinations is maintained. The worst-case situations have been tested. 150 kA	
Rated peak withstand current	(Ipk)	10 kA	10 kA
Rated insulation voltage	(Ui)	500 V AC	500 V AC
Rated operational voltage	(Ue)	440 V AC	440 V AC
Rated impulse withstand voltage	(Uimp)	6 kV	6 kV
Rated short-time current Icw	(Icc)	150 kA	150 kA
Thermal stress	($I^2.t$)	9,03 x 10^6	9,03 x 10^6
Rated operational frequency		50/60 Hz	50/60 Hz
Degree of protection		IPxxB	IPxxB
Incoming terminals		1 tunnel terminal 25²/Ph	1 tunnel terminal 25²/Ph
Total connection capacity, outgoing terminals		24 connections: 4 x 6²/phase 12 x 6²/neutral	24 connections: 4 x 6²/phase 12 x 6²/neutral
Dimensions (H x W x D)		96.5 x 72 x 62 8 x 9 mm pitch	96.5 x 72 x 62 8 x 9 mm pitch
Installation		Clipped onto a DIN rail	Clipped onto a DIN rail
Other			
Standard for installation inside PrismaSeT		IEC 61439-2	IEC 61439-2
Glow-wire 60695-2-11		960 °C	960 °C
Degree of pollution		3	3
Catalog numbers		**LVS04040**	**LVS04041**

Accessories

Catalog numbers		**-**	**-**

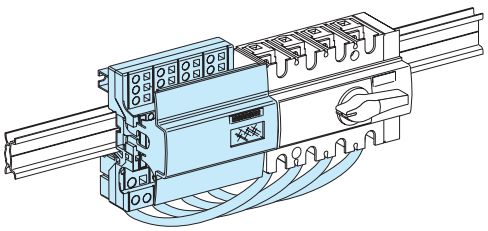
Linergy DX
Quick distribution blocks

Advantages

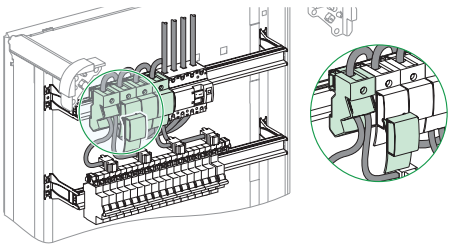
- A reliable electrical connection, no maintenance required (tightness guaranteed over time).
- Quick connection.
- Easy phase balancing.
- Ease of rewiring if the switchboard is expanded or modified.

	4P		1P
	PB500924-75.eps	DD386251.eps	PB111453_10.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		
	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/Ph	Supplied with a prefabricated flexible connection equipped with tunnel terminals.	1 tunnel terminal 70²/Ph
	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 125A flexible connections, L=240 mm with end fiiting 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**

PB502370-55.eps



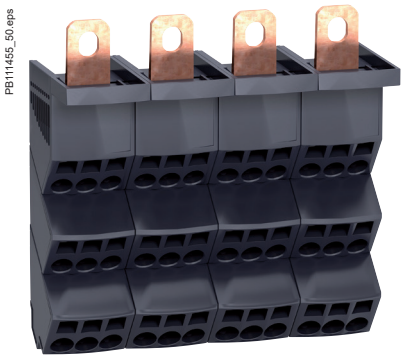
DD383300-LIN.eps



Nota: Electrical characteristics. > *page D-27*
(1) For INS-INV160: adaptation with references **28947** and **28948**

Linergy DP

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



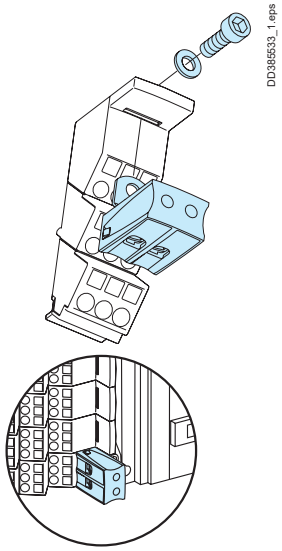
IEC 60947-7-1, IEC 61439-1 and 2

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

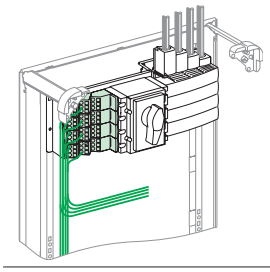
- It is quick to mount in the horizontal position. Electrical connections are made directly to the device terminals.
- It is the same width as the devices and does not take up any additional space in the switchboard.
- The connection terminals are slanted to facilitate cable entry and avoid exceeding 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_1.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 with upstream protection of 150 kA Icc	(Icc)	150 kA	150 kA	150 kA	
Thermal stress	(I²t)	7.225 x 10^7	7.225 x 10^7		
Total connection capacity, outgoing terminals		27 connections: 6 x 10²/phase 3 x 16²/phase	36 connections: 6 x 10²/phase 3 x 16²/phase	2 connections: 2 x 35²/pole	
Incomer terminals		1 cable lug 120 mm² per pole			
Dimensions (H x W x D)		105 x 138 x 63	140 x 138 x 64		
Installation		On mounting plate or DIN rail		On mounting plate	
Product certifications		ASEFA			
Standard for installation inside PrismaSeT		IEC 61439-1-2			
Glow-wire 60695-2-11		960 °C			
Catalog numbers		**LVS04033**	**LVS04034**	**LVS04155 (3P)** **LVS04156 (4P)**	

Technical Data

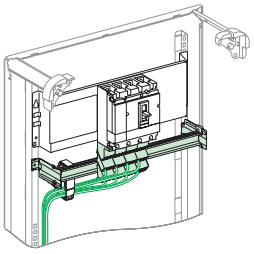
Common characteristics		
Rated conditional short-circuit current of an assembly	(Isc)	The reinforced breaking capacity due to cascading in circuit-breaker combinations is maintained. The worst-case situations have been tested.
Rated insulation voltage	(Ui)	750 V AC
Rated operational voltage	(Ue)	690 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



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

For details on mounting plates, refer *pages C-4, C-6, C-8, C-10,* and *C-11.*

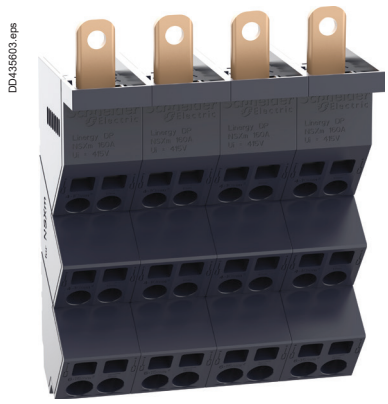


It can also be mounted downstream of vertically mounted **ComPacT NSX100/250 and ComPacT INS-INV250** devices in the enclosures.
In this case, the Linergy DP is mounted on a depth-adjustable modular rail.

Note: Electrical characteristics > *page D-27*

Linergy DP

Quick distribution blocks - ComPacT NSXm up to 160 A



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

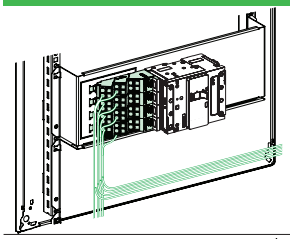
Number of poles		3P	4P
		DD435604.eps	DD435605.eps
Rated operational current	(Ie)	160 A	160 A
Rated peak withstand current	(Ipk)	20 kA	20 kA
Rated short-time current	(Icc)	70 kA	70 kA
Thermal stress	(I^2.t)	4.7 x 10^6 A^2S	4.7 x 10^6 A^2S
Total connection capacity, outgoing terminals		18 connections: 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	
Catalog numbers		**LVS04038**	**LVS04039**

D

Technical Data

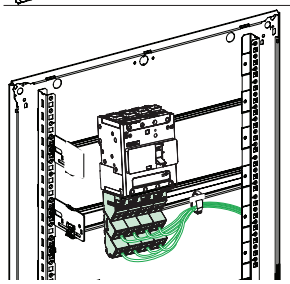
Common characteristics		
Rated conditional short-circuit current of an assembly	(Isc)	The reinforced breaking capacity due to cascading in circuit-breaker combinations is maintained. The worst-case situations have been tested.
Rated insulation voltage	(Ui)	800 V AC
Rated operational voltage	(Ue)	690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

Installation



Directly on the mounting plates of horizontally mounted **ComPacT NSXm** devices in the enclosures.

For details on mounting plates, refer *page C-4*.



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

Note: Electrical characteristics > *page D-27*

Linergy DS
Screw distribution blocks

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 Active and P, Pragma, Mini Pragma and Resbo series switchboards.
- Incomers and feeders are connected to screw terminals that accept rigid or flexible cables with ferrule.
- Optional: additional neutral terminal strip for four-pole distribution block.

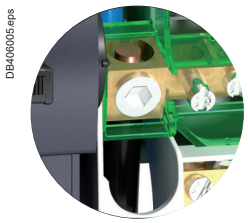
Avantages

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

Screw distribution blocks

Number of poles		1P			4P
Rating		125 A	160 A	250 A	100 A
Number of connections		10	13	14	4 x 7
Terminal capacity					
Diameter		2 x Ø 9.5 mm	2 x Ø 12 mm	1 x Ø 15.3 mm	2 x Ø 7.5 mm
		2 x Ø 7.5 mm	3 x Ø 7.5 mm	1 x Ø 10 mm	5 x Ø 5.5 mm
		6 x Ø 5.8 mm	8 x Ø 5.8 mm	4 x Ø 6 mm	-
		-	-	8 x Ø 7.5 mm	-
Rated peak withstand current (Ipk)	Ipk/60 ms	25 kA	36 kA	60 kA	14 kA
	Ipk/6 ms	-	-	-	24 kA
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
Dimension (H x W x D)		85 x 27 x 50.5	85 x 36 x 50.5	85 x 45 x 50.5	100 x 71 x 50.5
Weight (g)		125	163	239	210
Neutral terminal strip (optional)		-	-	-	LGYN1007
Catalog numbers		**LGY112510**	**LGY116013**	**LGY125014**	**LGY410028**

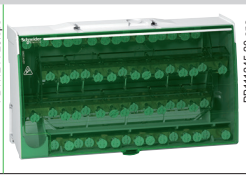
Linergy DS
Screw distribution blocks



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

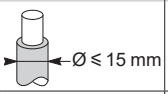
Technical data

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

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

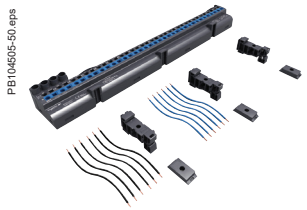
Terminal technical data

Type	**PZ2 screw**							
Diameter	Ø 5.5 mm	Ø 5.8 mm	Ø 6 mm	Ø 6.5 mm	Ø 7.5 mm	Ø 8.5 mm	Ø 9 mm	Ø 9.5 mm
Section Rigid cable	1.5 to 16 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	Ø 9.5 mm	Ø 10 mm	Ø 12 mm		Ø 15.3 mm
Section Rigid cable	10 to 35 mm²	1.5 to 50 mm²	25 to 70 mm² 		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: 10 N.m	4P: 5 N.m	14 N.m

Linergy FM
Quick device feeders

Device feeders



IEC60947-7-1 and IEC61439-1 and 2

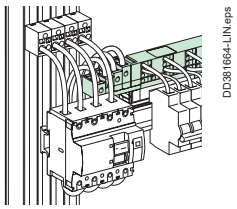
Description

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

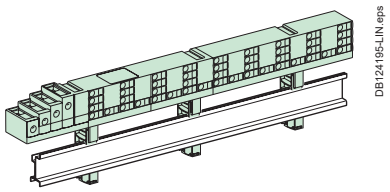
Distribution blocks

Number of poles			4P	4P	4P
			PB502496-31_r.eps	PB104501-52-r.eps	PB502500-18_r.eps
			63 A	**80 A**	**160 A**
Rated peak withstand current		(Ipk) 60ms	12 kA	13 kA	20 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		
Insulation voltage		(Ui)	500 V AC	500 V AC	750 V AC
Rated voltage		(Ue)	440 V AC	440 V AC	690 V AC
Rated impulse withstand voltage		(Uimp)	6 kV	8 kV	8 kV
Maximum current		(Imax)	-	-	50 A for feeder for 1 10 mm² cable/63 A for feeder for 2 10 mm² cables
Thermal stress		(I²t)	9.03 x 10^6	9.03 x 10^6	3600 x 10^7
Rated operational frequency			50/60 Hz	50/60 Hz	50/60 Hz
Degree of protection			IPxxB	IPxxB	IPxxB
Width	9 mm modules		24	48	24
	18 mm modules		12	24	12
Supply at incoming terminals			Enclosed terminals for cables up to 25 mm²	Enclosed terminals for cables up to 25 mm²	Direct onto the row by cable 70 mm² with crimped lug, or flexible bar 20 x 3 from busbar with prefabricated connection
Downstream connection capacity (1)		Phase	(6 x 4 mm²) + (2 x 6 mm²)	(7 x 4 mm²) + (2 x 6 mm²)	18 x 10 mm²
		Neutral	(4 x 4 mm²) + (4 x 6 mm²)	(13 x 4 mm²) + (4 x 6 mm²)	9 x 10 mm²
Accessories included	Pre-stripped copper connections		10 x 4 mm² + 6 x 6 mm² (W = 100 mm)	20 x 4 mm² + 6 x 6 mm² (W = 100 mm)	12 of 10 mm²
	Protection cover		-	-	4
	Fixing legs		2	3	2
Catalog numbers			**LVS04008** (1)	**LVS04004**	**LVS04018** (1)

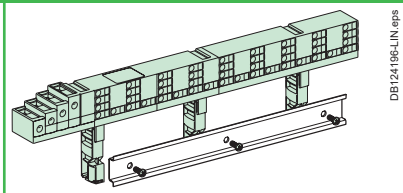
Installation



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

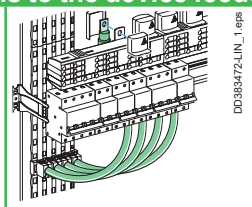
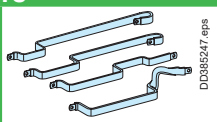
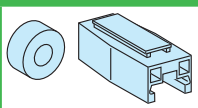
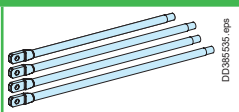
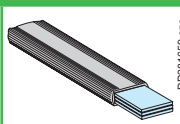


Clipped onto the back of a modular rail, or screw fixing.



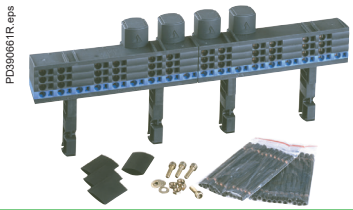
Clipped onto the back of a modular rail, or screw fixing.

Connections to the device feeders

	 DD383472-LIN_1.eps	 DD385247.eps	 DD385248.eps	 DD385535.eps	 DD381659.eps
	4P 200 A connection (supplied with fixing accessories)	4P 200 A connection (supplied with fixing accessories)	4P 200 A connection (supplied with fixing accessories)	4P 160 A connection for Linergy FM 1/2 row	200 A connection (20 x 3) for Linergy FM
Allows power supply from	Linergy BW busbar	Multi-stage Linergy BS busbar	Rear Linergy BS busbar	Device	Device
Catalog numbers	**LVS04021 + LVS04150** *insulating covers*	**LVS04024**	**LVS04029**	**LVS04030**	**LVS04743**

Linergy FM
Quick device feeders

Device feeders



	1P+N	3P	4P (1)	4P - L = 36 modules
	PB502499-23_r.eps	PB502498-27_r.eps	PB502497-27-r.eps	PB502501-27_r.eps
	200 A	**200 A**	**200 A**	**200 A**
	20 kA	20 kA	20 kA	20 kA
	750 V AC	750 V AC	750 V AC	750 V AC
	690 V AC	690 V AC	690 V AC	690 V AC
	8 kV	8 kV	8 kV	8 kV
	50 A for feeder for 1 10 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 AC	50/60 Hz AC	50/60 Hz AC	50/60 Hz AC
	IPxxB	IPxxB	IPxxB	IPxxB
	48	48	48	72
	24	24	24	36
	Direct onto the row by cable 70 mm² with crimped lug, or flexible bar 20 x 3 from busbar with prefabricated connection			
	12 x 10 mm²	36 x 10 mm²	36 x 10 mm²	54 x 10 mm²
	12 x 10 mm²	-	18 x 10 mm²	27 x 10 mm²
	24 of 10 mm²	24 of 10 mm²	24 of 10 mm²	36 of 10 mm²
	2	3	4	4
	4	4	4	6
	LVS04012 (1) (2)	**LVS04013** (1)	**LVS04014** (1) (2)	**LVS04026** (1)

Spare parts

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

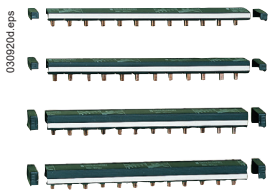
Nota: modular row with Linergy FM 200 A (24 or 36 modules) and 160 A (12 modules) positioned directly below a non-modular mounting plate (ComPacT, etc.), or at the top of a switchboard: add 1 additional module and a plain upstream front plate.

Electrical characteristics. > page D-27

(1) Cable to be used without ferrules.
(2) The Linergy FM 200 (LVS**04012** and LVS**04014**) can be used with direct current. The upstream and downstream terminal type (⊕ and ⊖) must be marked on the device. For more information, please contact our customer services.

Linergy FH

Horizontal comb busbar for 27 mm pitch for NG125



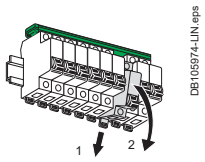
IEC 60664-1
Description

Comb busbars make it easier to install NG125 circuit breakers.

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

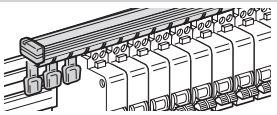
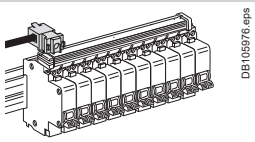
NG125	27 mm poles, cuttable			
Number of poles	**1P**	**2P**	**3P**	**4P**
	Each com busbar reference includes: ■ 1 x single or 2 pole comb busbar + 8 tooth-caps + 2 side plates ■ 1 x 3 or 4 pole comb busbar + 4 tooth-caps + 2 side plates To insulate teeth that have been left free can be insulated by tooth-caps			
Rated operational current at 40 °C (Ie)	125 A (63 A max by outgoer)			
Rated conditional short-circuit current of an assembly (Isc)	Compatible with the breaking capacity of NG125 circuit breakers			
Insulation voltage (Ui)	620 V AC			
Rated voltage (Ue)	500 V AC			
Fire resistance to IEC 695-2-1	Self-extinguishing 960 °C, 30 s			
Colour	RAL 7016 (anthracite grey)			
Use				
	Power supply by connector recommended			
Number of 27 mm modules	16	16	15	16
Set of	1			
Catalog numbers	**14811**	**14812**	**14813**	**14814**

Installation



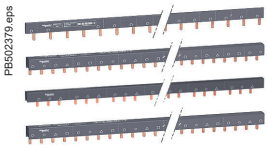
Comb busbars allow dismountability (1-2)

Accessories

Number of poles	**1P, 2P, 3P, 4P**	
	Tooth covers	**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 identific
Use		
		For 25 mm² semi-rigid cable
Set of	20	4
Catalog numbers	**14818**	**14885**
Installation		
		

Linergy FH

Horizontal comb busbar for 18 mm pitch for Acti 9



IEC 60947-7-1, IEC 61439-2

Description

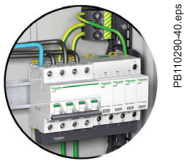
Comb busbars make it easier to install Acti 9 circuit breaker.

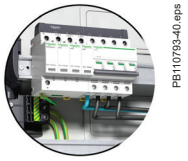
- Can be sawn and cut in a single pass.
- Supplied with two IP20 lateral end-caps except for 57 module references.
- Cutting marks on the insulating material for easy adaptation.
- The phases are identified by symbols on each side of the comb busbar for installation in all positions.
- The special comb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

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

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

Installation



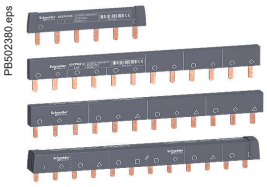


Accessories

Number of poles	**1P**	**2P**	**3P**	**4P**	**-**	**-**	**-**
	Side plates				**Tooth covers**	**Connectors**	
						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	
Set of	10	10	10	10	20	4	4
Catalog numbers	**A9XPE110**	**A9XPE210**	**A9XPE310**	**A9XPE410**	**A9XPT920**	**A9XPCM04**	**A9XPCD04**

Linergy FH

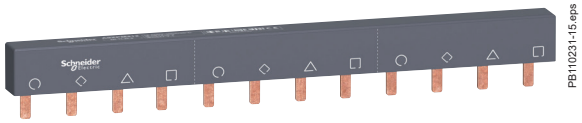
Horizontal comb busbar for 18 mm pitch for Acti 9



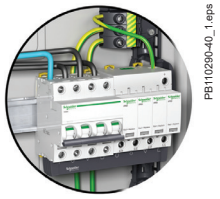
IEC 60947-7-1, IEC 61439-2

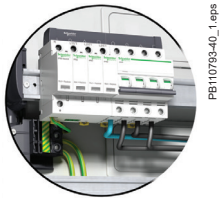
Description

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

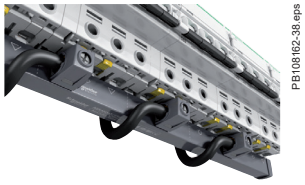
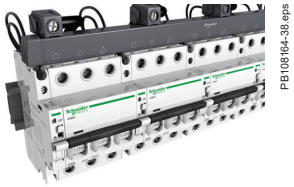
Acti 9	18 mm poles, not cuttable				
Number of poles	**1P**	**2P**	**3P**	**4P**	**3 (N+P)**
					
Rated operational current at 40 °C (Ie)	100 A				
Rated conditional short-circuit current of an assembly (Isc)	Compatible with the breaking capacity of Acti 9 circuit breaker				
Insulation voltage (Ui)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

Installation





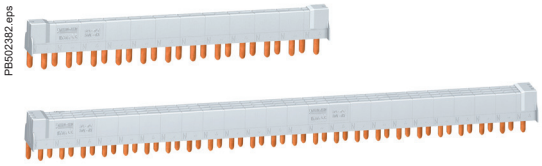
Accessories

	Tooth covers	**Connectors**	
		Double terminals	**Monoconnect**
	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
Catalog numbers	**A9XPT920**	**A9XPCD04**	**A9XPCM04**
Installation			
			

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

Linergy FH

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



IEC 60439-1
Description

- Easy, reliable mounting of 1P+N and 3P+N, TL, CT, ID, V, BP and Cm switchgear: tooth positioning opposite the device terminals is ensured by indexing of copper parts

C60/ID Group Feeder comb busbars contain two different parts:

- connection of Group Feeder switchgear: C60 (3P + N) or ID (3P + N) circuit breaker in 18 mm modules, powered by cables, through the bottom, directly by the terminals
- connection of Acti 9 switchgear in 9 mm modules.

Acti 9 Ph+N		9 mm poles, cuttable					
Number of poles		**1P+N**			**3P+N**		
		DB123729.eps			DB123730.eps		
		21501			21505		
		Complete comb busbars (supplied with 4 side plates and 1 tooth-cover)					
Rated operational current at 40 °C	(Ie)	80 A					
Rated conditional short-circuit current of an assembly	(Isc)	Compatible with the breaking capacity of Acti 9 and C60 circuit breakers					
Insulation voltage	(Ui)	440 V AC					
Rated voltage	(Ue)	230 V AC (P + N) - 400 V AC (3P + N)					
Rated impulse withstand voltage	(Uimp)	6 kV					
Degree of protection		IP20					
Fire resistance to IEC 695-2-1		Self-extinguishing 960 °C, 30 s					
Colour		RAL 7035					
Number of 18 mm modules	Comb busbar	12	18	24	12	18	24
	Tooth cover	3	3	6	3	3	6
Catalog numbers		**21501**	**19512**	**21503**	**21505**	**19516**	**21507**
Comb busbars alone							
Number of 18 mm modules	Comb busbar	48			48		
Catalog numbers		**21089**			**21093**		

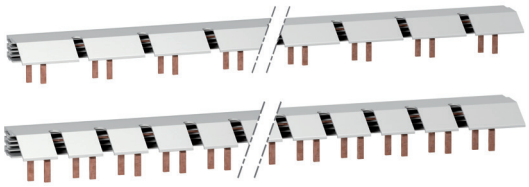
C60/ID Group Feeder comb busbars alone				
Number of poles		**3P+N**		
		PB101184-10.eps		
Rated operational current at 40 °C	(Ie)	80 A		
Rated conditional short-circuit current of an assembly	(Isc)	Compatible with the breaking capacity of Schneider Electric circuit breakers		
Insulation voltage	(Ui)	440 V AC		
Rated voltage	(Ue)	230 V AC (P + N) - 400 V AC (3P + N)		
Rated impulse withstand voltage	(Uimp)	6 kV		
Degree of protection		IP20		
Fire resistance to IEC 695-2-1		Self-extinguishing 960 °C 30 s		
Colour		RAL 7035		
Number of 18 mm modules		12	48	48
Power supply		Through left-hand	Through left-hand	Through right-hand
Catalog 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 module)**	**Tooth caps (1 x 18-mm module)**	**Connectors (grey)**
Set of	40		12	10	4
Catalog numbers	**21094**	**21095**	**21096**	**10405**	**21098**

D

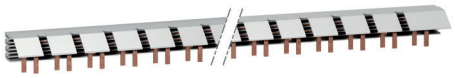
Linergy FH

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

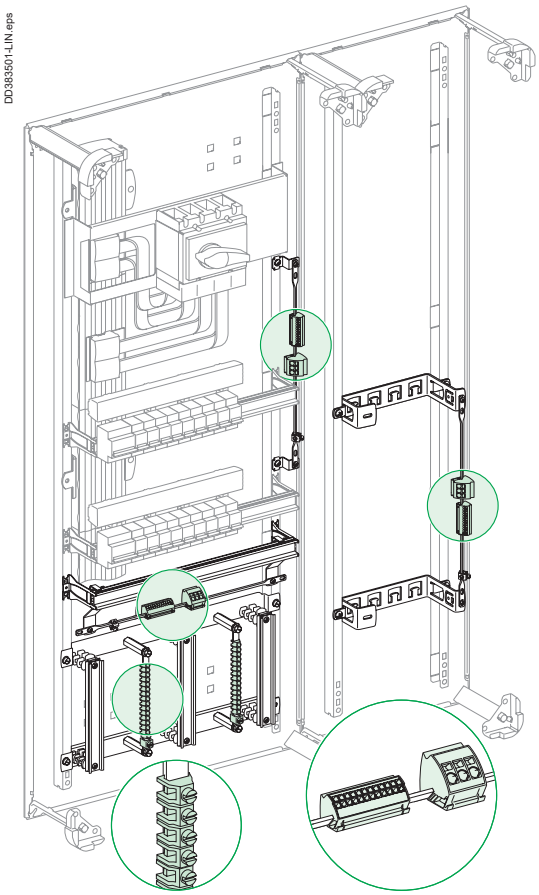


IEC 60439-1
Description

- 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**
		 PB110801-10.eps A9N21036			
		Comb busbars		**Comb busbars DPN Vigi**	
Rated operational current at 40 °C	(Ie)	63 A			
Rated conditional short-circuit current of an assembly	(Isc)	Compatible with the breaking capacity of Acti 9 circuit breaker			
Insulation voltage	(Ui)	500 V AC			
Rated voltage	(Ue)	230 V AC (P + N) - 400 V AC (3P + N)			
Degree of protection		IP20			
Degree of pollution		3			
Fire resistance to IEC 695-2-1		Self-extinguishing 960 °C, 30 s			
Colour		RAL 7035			
Number of 18 mm modules		56	56	56	56
Catalog numbers		**A9N21035**	**A9N21036**	**A9N21037**	**A9N21038**

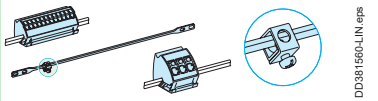
Accessories						
Number of poles		**1P+N**	**3P+N**			
		PB110804-10.eps		PB110805-10.eps	PB110806-10.eps	PB110807-10.eps
		Side plates		**Connectors (grey)**	**Neutral connectors (blue)**	**Tooth caps (1 x 18 mm module)**
Set of		20		10	10	10
Catalog numbers		**A9N21039**	**A9N21040**	**A9N21041**	**A9N21042**	**A9N21050**



Description

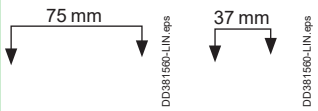
This range of earth bars is installed:
- in the duct which can constitute a dedicated area, completely separate from the equipment
- or in the switchgear compartment, at the top or the bottom.

Fast-connecting earth bar



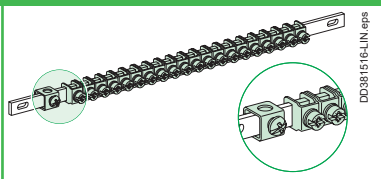
	Copper earth bar
Cross-section (mm)	12 x 3
Effective length (mm)	330
Total length (mm)	450
Composition	Copper bar with 1 terminal 16 to 35 mm²
Rated short time withstand current (Icw)	9 kA rms/0.5 s
Catalog numbers	**LVS04201**

Accessories



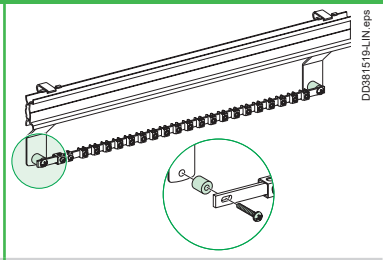
	Earth blocks with terminals	
	Spring-fixing (clip onto the earth bar)	
Total connection capacity	12 x 4 mm²	3 x 16 mm²
Composition	4 earth blocks	4 earth blocks
Rated short time withstand current (Icw)	1 kA rms/0.5 s	4 kA rms/0.5 s
Catalog numbers	**LVS04214**	**LVS04215**

Accessories



	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)
Rated short time withstand current (Icw)	9 kA rms/0.5 s	9 kA rms/0.5 s
Catalog numbers	**LVS04200**	**LVS04202**

Accessories

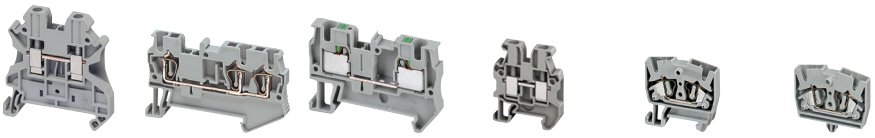


	Neutral bar
	Converts an earth bar to a neutral bar
Composition	2 insulating spacers
Catalog numbers	**LVS04210**

Installation accessories

> pages C-47 to C-53

Linergy TR
Terminal blocks

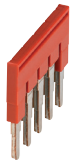


			Connection technology					
Type of terminal block	**Cross section area**	**Color**	**Screw tech**	**Spring tech**	**Push-in tech**	**Miniature screw for 15 mm DIN rail**	**Miniature spring for 15 mm DIN rail**	**Miniature spring for direct mount**
Passthrough	2.5 mm² (2 pts)	Grey	**NSYTRV22**	**NSYTRR22**	**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	-	-				

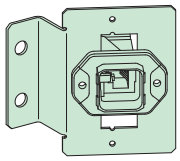
DZ5CE*** = standard insulated cable ends.
DZ5CA*** = markable insulated cable ends.

D

Connectors

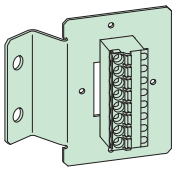
For plug & play interconnection between electrical switchboard for control and communication wires.

DD385854.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
Catalog number		**LGY4230**

DD385855.ai

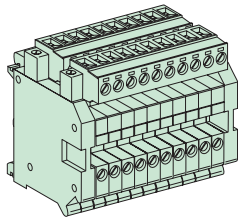


8P male-female connector with mounting plate		
Rated operational current at 40 °C	(Ie)	12 A
Rated operational voltage	(Ue)	320 V
Rated impulse withstand voltage	(Uimp)	4 kV
Connection method		Push-in spring connection
Connection capacity	Input	8
	Output	8
Dimensions (H x W x D)	(mm)	75 x 70 x 45
Wire size		0.2 to 2.5 mm²
Catalog number		**LGY4231**

Terminal block

For distributing auxiliary voltages in power and regulation equipment.

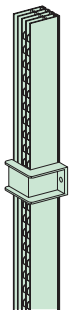
DD381644-LIN-30.eps



Terminal block for auxiliary wiring			
Standards		IEC	UL
Rated operational current at 40 °C	(Ie)	12 A	20 A
Rated operational voltage	(Ue)	250 V AC	300 V AC
Rated impulse withstand voltage	(Uimp)	4 kV	
Connection capacity	Input	10 (grey)	
	Output	2 x 10 (grey)	
Dimensions (H x W x D)	(mm)	61 x 48 x 45	
Wire size		0.2 to 2.5 mm²	
Tightening torque		0.5 to 0.6 N.m	
Composition		3.5 18-mm modules	
Catalog number		**LVS04228**	

Bus duct

DB406327.eps



Four-pole auxiliary bus duct		
		Duct for 4 conductors
		166 tap-off points with Faston connectors, per linear meter
Rated operational current at 40°	(Ie)	32 A
Rated insulation voltage	(Ui)	660 V AC
Width (mm)		1755
Composition		Supplied with 2 end clamps and 1 lateral clamp for mounting on cable-tie supports
Catalog number		**LVS04203**

XB5_633_CPSCT16028A_24.eps

ZBSP2_24.ai

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

Designing connection ⩽ 630 A

Electrical characteristics

Device	Ambient temperature around the switchboard											
	25°C		30°c		35°C		40°C		45°C		50°C	
	IP ⩽ 31	IP > 31	IP ⩽ 31	IP > 31	IP ⩽ 31	IP > 31	IP ⩽ 31	IP > 31	IP ⩽ 31	IP > 31	IP ⩽ 31	IP > 31
	Rated current of a circuit I_{nc} (A)											
Linergy BW												
Insulated bus bar Linergy BW 125 A	134	125	129	120	125	116	120	111	116	106	111	■
Insulated bus bar Linergy BW 160 A	171	160	166	154	160	148	154	142	148	135	142	■
Insulated bus bar Linergy BW 250 A	267	250	259	241	250	231	241	222	231	211	222	■
Insulated bus bar Linergy BW 400 A	428	400	414	385	400	370	385	355	370	338	355	■
Insulated bus bar Linergy BW 630 A	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 400 A	428	400	414	385	400	370	385	355	370	338	355	■
Multi-stage busbars block 630 A	673	630	652	607	630	583	607	558	583	532	558	■
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 400 A	428	400	414	385	400	370	385	355	370	338	355	■
Multi-stage distribution block 630 A	673	630	652	607	630	583	607	558	583	532	558	■
Linergy DX												
Quick distribution block Linergy DX 4P 125 A	134	125	129	120	125	116	120	111	116	106	111	■
Quick distribution block Linergy DX 4P 160 A	171	160	166	154	160	148	154	142	148	135	142	■
Quick distribution block Linergy DX 1P 1P 160 A	171	160	166	154	160	148	154	142	148	135	142	■
Linergy DP												
Quick distribution block Linergy DP 3P-4P 160 A	160	160	155	155	150	150	145	145	140	140	135	■
Quick distribution block Linergy DP 3P-4P 250 A	267	250	259	241	250	231	241	222	231	211	222	■
Linergy FM												
Quick device feeders Linergy FM 4P 63 A	67	63	65	61	63	58	61	56	58	53	56	■
Quick device feeders Linergy FM 4P 80 A	86	80	83	77	80	74	77	71	74	68	71	■
Quick device feeders Linergy FM 4P 160 A	171	160	166	154	160	148	154	142	148	135	142	■
Quick device feeders Linergy FM 2P 200 A	214	200	207	193	200	185	193	177	185	169	177	■
Quick device feeders Linergy FM 3P 200 A	214	200	207	193	200	185	193	177	185	169	177	■
Quick device feeders Linergy FM 4P 200 A	214	200	207	193	200	185	193	177	185	169	177	■
Quick device feeders Linergy FM 4P 200 A (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.

D

IP30/IP4X
IP55 enclosures

Contents

PrismaSeT G Active IP30, IP4X

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PrismaSeT G IP55

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Partial doors and functional units for partial door E-28
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E

For safe and upgradeable electrical switchboards

E

> 100 % reliable and in compliance with existing standards
All the components (switchgear, splitter blocks, prefabricated connections, etc.) have been designed to work together. All switchboard configurations have been tested.

> Optimised, upgradeable installation
With PrismaSeT G Active, you can build the right switchboard for your customer, sized precisely to fit costs and needs.
Thanks to the organisation around functional units, the installation evolves simply while preserving its original performance.

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

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

PrismaSeT G Active IP30/IP4X enclosures - W600, W850, W300
Presentation

Up to 630 A

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

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

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

PB115630_39.eps

Easy design with
Rapsody software
> page B-34

Description

Steel sheet metal with electrophoresis treatment + hot-polymerised polyester epoxy powder.
Enclosure:
- width: 595 mm, 850 and 305 mm
- height: 385 to 2030mm
- depth: 205 mm without door / 259 mm with door (including the handle : 13.5 mm)
- properties of metal enclosures *> page G-16.*

Main characteristics

PrismaSeT G Active IP30 - IP4X enclosures	
Rated operational current	I_n = 630 A - Isc = 50 kA, Icw = 25 kA rms / 1 s, Ipk = 53 kÂ
Colour	White colour RAL 9003
Standards conformity	EN 62208, IEC 61439-2
Degree of protection	IP30 without door, IP40 with door IP41 with canopy + door, IP43 with canopy + door + gasket
Degree of protection against mechanical impacts	IK07 without door IK08 with door (transparent) IK10 with plain door
Seismic characteristics	2,5G without accessory (IEC 60068-2-57)
Isolation	Class 1
Doors	■ Plain or transparent, opening to right or left, 130° ■ Earthed by design ■ Supplied with a handle and keylock (key 405) ■ Distance behind door = 58 mm (possibility of push-buttons, lamps installation). ■ 2 closing points on 15- to 24-module doors ■ 3 closing points on 27-, 30-, 33- and 36-module doors.
Mounting	Surface mounting, floor-standing, flush mounting via a kit *> page E-11*

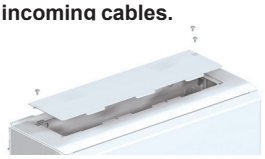
Presentation

Up to 630 A

3 widths available: 300/600/850

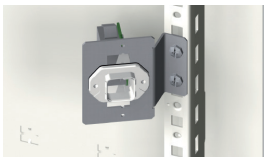
Lengthened rear upright to facilitate the fitting of accessories (cables tying) and installation of earth, neutral terminals, etc....

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

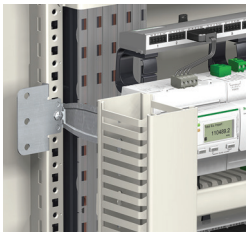


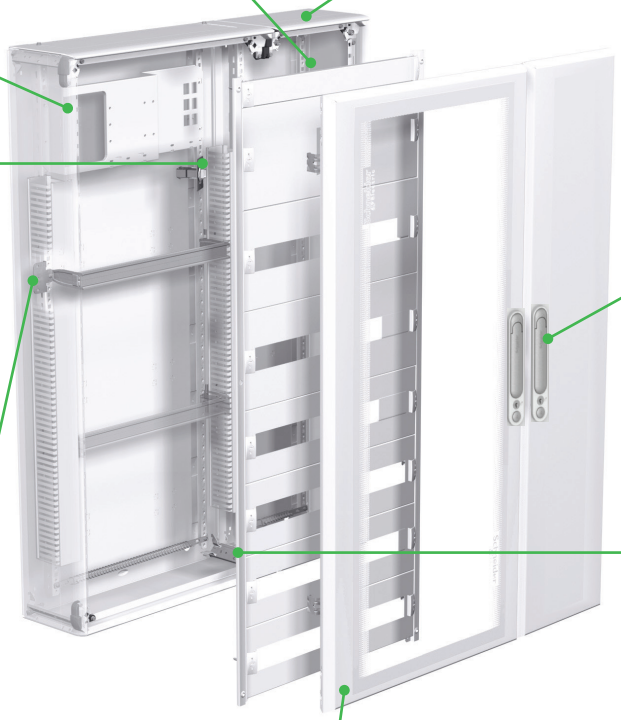
Hooks for quick plate pre-mounting

Plates for connecting control, command and communication circuits



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





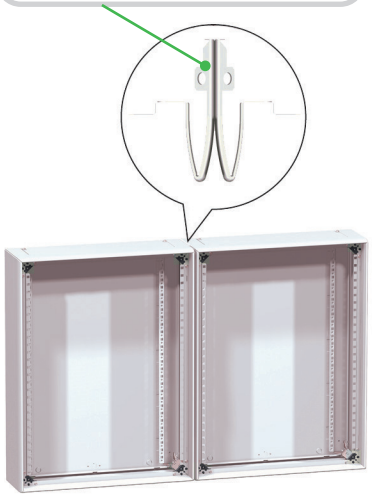
Ergonomic handle

New pillar with natural positioning

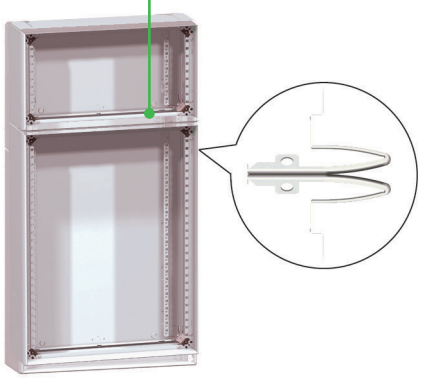
without door: IP30
with door: IP40
plain door: IK10
transparent door: IK08

Combination: old and new versions fully compatible

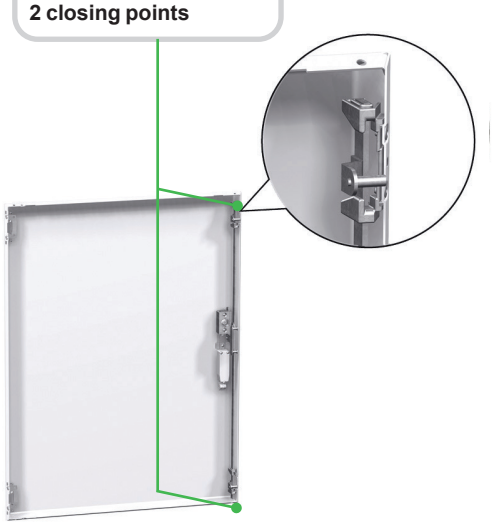
Assembly of 2 enclosures facilitated by creating extension enclosures, including all necessary assembly parts



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



15M to 24M doors with 2 closing points



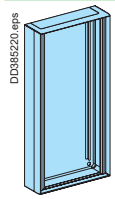
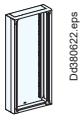
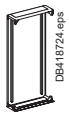
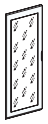
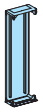
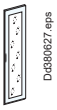
E

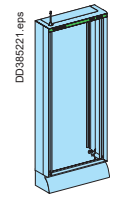
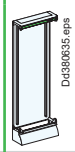
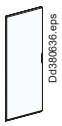
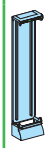
Up to 630 A

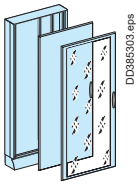
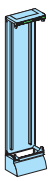
IP30, 630 A wall-mounted and floor-standing enclosures

Reversible doors (opening 130° to left or right), supplied equipped with a handle and keylock (key 405).
Equiped with a door the IP30 enclosure reaches IP4X.

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

Wall-mounted enclosures W600			Extensions W600	Doors W600		Ducts W300	Doors W300	
								
Nb. of vertical modules of 50 mm	Height in mm	Enclosure	Rear + top and bottom plates + combination upright	Plain door	Transparent door	Rear + top and bottom plates + combination upright	Plain door	Transparent door
6	330	LVS08102	-	LVS08122	LVS08132	LVS08172	LVS08182	-
9	480	LVS08103	LVS08113	LVS08123	LVS08133	LVS08173	LVS08183	-
12	630	LVS08104	LVS08114	LVS08124	LVS08134	LVS08174	LVS08184	-
15	780	LVS08105	LVS08115	LVS08125	LVS08135	LVS08175	LVS08185	-
18	930	LVS08106	LVS08116	LVS08126	LVS08136	LVS08176	LVS08186	-
21	1080	LVS08107	LVS08117	LVS08127	LVS08137	LVS08177	LVS08187	LVS08197
24	1230	LVS08108	LVS08118	LVS08128	LVS08138	LVS08178	LVS08188	LVS08198
27	1380	LVS08109	LVS08119	LVS08222	LVS08232	LVS08179	LVS08282	LVS08292

Floor Standing enclosures W600 incl Wireless Panel Server (2)			Extensions W600	Doors W600		Ducts W300	Doors W300	
								
Nb. of vertical modules of 50 mm	Height in mm	Basic enclosure	Rear + top plates + combination upright + plinth	Plain door	Transparent door	Rear + top plates + combination upright + plinth	Plain door	Transparent door
27	1580	LVS08202D	LVS08212	LVS08222	LVS08232	LVS08272	LVS08282	LVS08292
30	1730	LVS08203D	LVS08213	LVS08223	LVS08233	LVS08273	LVS08283	LVS08293
33	1880	LVS08204D	LVS08214	LVS08224	LVS08234	LVS08274	LVS08284	LVS08294
36	2030	LVS08205D	LVS08215	LVS08225	LVS08235	LVS08275	LVS08285	LVS08295

Floor Standing enclosures W850 incl Wireless Panel Server (2)			Doors W850		Ducts W300	Doors W300	
							
Nb. of vertical modules of 50 mm	Height in mm	Basic enclosure	Plain door	Transparent door	Rear + top plate + combination upright + plinth	Plain door	Transparent door
27	1580	LVS08242D	LVS08252	LVS08262	LVS08272	LVS08282	LVS08292
30	1730	LVS08243D	LVS08253	LVS08263	LVS08273	LVS08283	LVS08293
33	1880	LVS08244D	LVS08254	LVS08264	LVS08274	LVS08284	LVS08294
36	2030	LVS08245D	LVS08255	LVS08265	LVS08275	LVS08285	LVS08295

(2) Floor Standing Enclosure including Wireless Panel Server

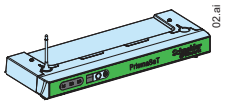
Switchgear on the door > page E-11
Spare parts > page E-14
Partitionning > page C-45

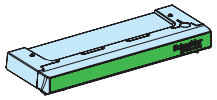
Wall-mounted and floor-standing enclosures

Accessories

Up to 630 A

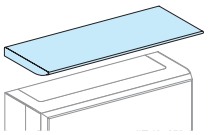
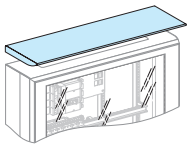
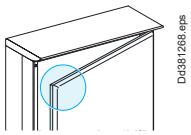
Accessory for Wireless communication - For Wall Mounted G IP30/4x

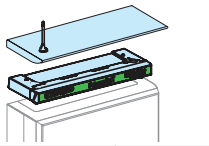
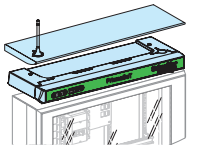
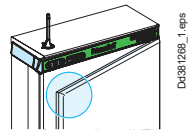




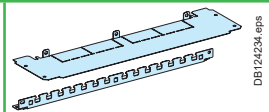
Assembly	By replacing the standard roof top		By replacing the standard roof top	
Description	W300 Green roof with wireless panel server IP30	W600 Green roof with wireless panel server IP30	W300 Basic Green roof IP30 for extensions	W600 Basic Green roof IP30 for extensions
Commercial References	**LVS08884D**	**LVS08880D**	**LVS08886**	**LVS08893**

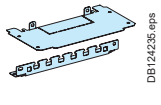
Accessories to increase the IP value

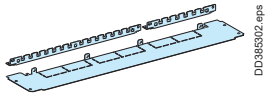
	Accessories to increase the IP value from IP30 to IP41 - Wall mounted enclosure without Wireless panel server							Gasket for the door to increase the IP value from IP41 to IP43
								
Used with	**1 enclosure W = 600**	**1 enclosure + 1 duct W600 + 300 (1)**	**2 enclosures W600 + 600**	**1 enclosure + 2 ducts W600 + 300 + 300 (2)**	**2 enclosures + 1 duct W600 + 600 + 300(1)**	**1 floor-standing enclosure W = 850**	**1 floor-standing enclosure + 1 duct W850 + 300 (1)**	**Enclosures or duct from 6 to 36 modules**
Catalog numbers	**LVS08830**	**LVS08832**	**LVS08831**	**LVS08827**	**LVS08833**	**LVS08836**	**LVS08837**	**LVS08841 (3)**
Total length	600	900	1200	1200	1500	850	1150	5300
Designation	The addition of a canopy over a wall-mounted or floor-standing enclosure equipped with a door ensures compliance with the degree of protection IP41. When the switchboard is equipped with a canopy, a gasket for the doors ensures compliance with the degree of protection IP43.							

	Accessories to increase the IP value from IP30 to IP41							Gasket for the door to increase the IP value from IP41 to IP43
								
Used with	**1 enclosure W = 600**	**1 enclosure + 1 duct W600 + 300 (1)**	**2 enclosures W600 + 600**	**1 enclosure + 2 ducts W600 + 300 + 300 (2)**	**2 enclosures + 1 duct W600 + 600 + 300(1)**	**1 floor-standing enclosure W = 850**	**1 floor-standing enclosure + 1 duct W850 + 300 (1)**	**Enclosures or duct from 6 to 36 modules**
Catalog numbers	**LVS08842**	**LVS08843**	**LVS08844**	**LVS08845**	**LVS08846**	**LVS08847**	**LVS08848**	**LVS08841 (3)**
Total length	600	900	1200	1200	1500	850	1150	5300
Designation	The addition of a canopy over a wall-mounted or floor-standing enclosure equipped with a door ensures compliance with the degree of protection IP41. When the switchboard is equipped with a canopy, a gasket for the doors ensures compliance with the degree of protection IP43.							

Metal gland plates for plinth







Used with	Floor-standing enclosure W600	Duct W300	Floor-standing enclosure W850
Catalog numbers	**LVS08887**	**LVS08888**	**LVS08889 (4)**
Designation	Between the plinth and the bottom of a floor-standing enclosure or duct, for ensuring IP20.		

Spare parts > *page E-14* Dimensions > *page E-17*

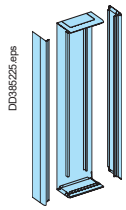
(1) Whatever the duct position. **(2)** Ducts on the sides. **(3)** x2 for width 850 mm. **(4)** Not compatible with 36-module height.

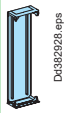
Wall-mounted and floor-standing enclosures

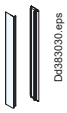
Accessories

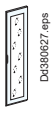
Up to 630 A

Wall-mounted enclosures W300



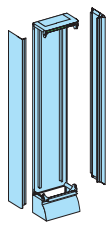


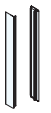


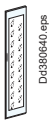


Nb. of vertical modules of 50 mm	Height in mm	Rear + top plate + plinth	Side panels	Plain door	Transparent door
6	330	**LVS08172**	2 x **LVS01040**	**LVS08182**	-
9	480	**LVS08173**	2 x **LVS01041**	**LVS08183**	-
12	630	**LVS08174**	2 x **LVS01042**	**LVS08184**	-
15	780	**LVS08175**	2 x **LVS01043**	**LVS08185**	-
18	930	**LVS08176**	2 x **LVS01044**	**LVS08186**	-
21	1080	**LVS08177**	2 x **LVS01045**	**LVS08187**	**LVS08197**
24	1230	**LVS08178**	2 x **LVS01046**	**LVS08188**	**LVS08198**
27	1380	**LVS08179**	2 x **LVS01035**	**LVS08282**	**LVS08292**
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-

Floor-standing enclosures W300







Nb. of vertical modules of 50 mm	Height in mm	Rear + top plate + plinth	Side panels	Plain door	Transparent door
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
27	**1580**	**LVS08272**	2 x **LVS01035**	**LVS08282**	**LVS08292**
30	**1730**	**LVS08273**	2 x **LVS01034**	**LVS08283**	**LVS08293**
33	**1880**	**LVS08274**	2 x **LVS01033**	**LVS08284**	**LVS08294**
36	**2030**	**LVS08275**	2 x **LVS01047**	**LVS08285**	**LVS08295**

Spare parts *> page E-14* Dimensions *> page E-17*

(1) Whatever the duct position. (2) Ducts on the sides.
(3) x2 for width 850 mm.
(4) Not compatible with 36-module height.

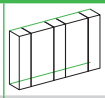
Wall-mounted and floor-standing enclosures

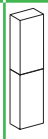
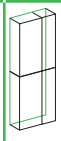
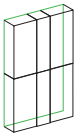
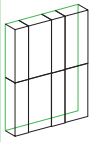
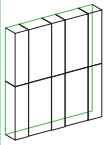
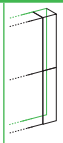
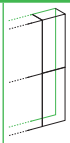
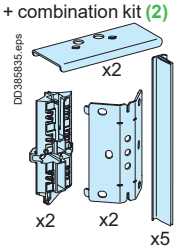
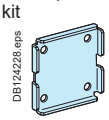
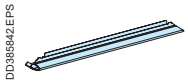
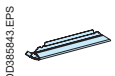
Combination kits

Up to 630 A

Combinations

To make the combination more rigid, particularly during transport, it is mandatory to use a set of cross-members secured to the rear of the switchboard.
A combination kit is delivered with each duct and each enclosure extension.
It is sometime necessary to use a combination kit (Catalog number LVS08816) in addition to those already delivered.

Combination kits	Horizontal					
Possible combinations						
For enclosure W600/W300	**1 wall-mounted enclos. + 1 duct**	**1 wall-mounted enclos. + 2 ducts**	**1 wall-mounted enclos. + 1 enclos. extension**	**1 wall-mounted enclos. + 1 duct + 1 enclos. extension**	**1 wall-mounted enclos. + 2 ducts + 1 enclos. extension**	**1 wall-mounted enclos. + 3 ducts + 1 enclos. extension**
Lifting/reinforcement cross-members width	900	1200	1200	1500	1800	2100
Set of two lifting/reinforcement cross-members	**LVS08812**	**LVS08811**	**LVS08811**	**LVS08813**	**LVS08814**	**LVS08826**
For floor-standing enclosure W850/W300	**1 fl. standing enclos. + 1 duct**	**1 fl. standing enclos. + 2 ducts**				
Lifting/reinforcement cross-members width	1150	must be made	-	-	-	-
Set of two lifting/reinforcement cross-members or vertical uprights	**LVS08809**	**-**	**-**	**-**	**-**	**-**

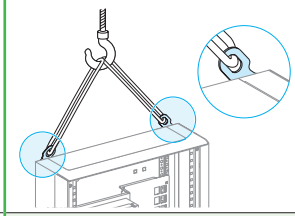
Combination kits	Vertical	Multiple						
Possible combinations								
For enclosure W600	**2 wall-mounted enclos.**	**2 enclos. + 2 ducts**	**2 enclos. + 2enclos. extension**	**2 enclos. + 2enclos. extension + 2 ducts**	**2 enclos. + 2enclos. extension + 4 ducts**	**2 enclos. + 2enclos. extension + 6 ducts**	**2 additional ducts**	**2 additional enclosures**
Lifting/reinforcement cross-members width	-	900	1200	1500	1800	2100	-	-
Set of two lifting/ reinforcement cross-members	**-**	**LVS08812**	**LVS08811**	**LVS08813**	**LVS08814**	**LVS08826**	must be made	must be made
Set of two vertical uprights (1)	**LVS08817**	**LVS08817**	**LVS08817**	**LVS08817**	**LVS08817**	**LVS08817**	**LVS08817**	**LVS08817**
+ combination kit (2) 	**LVS08816**	**LVS08816**	**LVS08816**	**LVS08816**	**LVS08816**	**LVS08816**	**LVS08816**	**LVS08816**
+ multiple combination kit 	**-**	**LVS08818**	**LVS08818**	2 x **LVS08818**	3 x **LVS08818**	4 x **LVS08818**	**+ LVS08818**	**+ LVS08818**
+ 2 horizontal combination strip W=600 	**LVS08882**	**LVS08882**	2 x **LVS08882**	2 x **LVS08882**	2 x **LVS08882**	2 x **LVS08882**	**-**	**LVS08882**
+ 2 horizontal combination strip W=300 	**-**	**LVS08885**	**-**	**LVS08885**	2 x **LVS08885**	3 x **LVS08885**	**+ LVS08885**	**-**

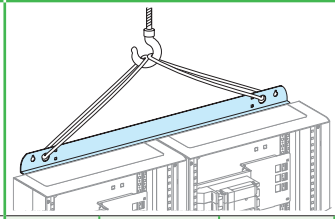
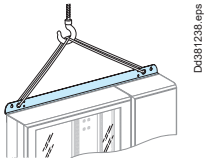
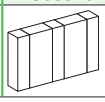
(1) Up to 33 combined modules, these vertical uprights (1676 mm) are mandatory.
(2) Floor standing enclosure combination kit (LVS**08815**) > *page E-14*

Up to 630 A

Lifting accessories

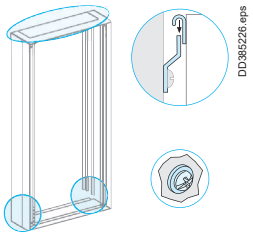
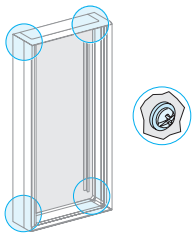
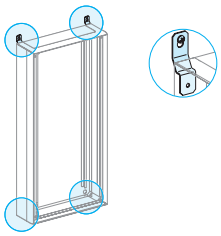
The lifting rings are used to move a single wall-mounted or floor-standing enclosure.
For combined enclosures, use the lifting/reinforcement cross-members (see below).

	2 lifting rings for single wall-mounted or floor standing enclosures
	
Catalog numbers	**LVS08801**
Characteristics	
	Set of two lifting rings

	2 Lifting/reinforcement cross-members for combined enclosures W600 + W300						2 Lifting/reinforcement cross-members for combination wall-mounted enclosure W850 + duct W300
							
Catalog numbers	**LVS08812**	**LVS08811**	**LVS08811**	**LVS08813**	**LVS08814**	**LVS08826**	**LVS08809**
Characteristics							
	Have 2 types of holes: for lifting and for mounting on a wall						

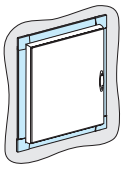
Installation possibilities

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

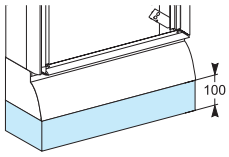
	Hook-on rail system	Mounting via the inside	Mounting using the external wall-mounted brackets
			
Catalog numbers	Delivered with the enclosure	-	**LVS08804**
Characteristics	The enclosure comes with 2 cross-members secured to the back of the enclosure (top and bottom) and a support rail (with levelling adjustment) for screw-mounting on the wall. The enclosure is easily mounted on the hook-on rail system. End the fixation with 2x 8mm diameter screws, at the bottom of enclosure	The enclosure can be mounted through the spacers in the 4 holes provided on the enclosure using 8 mm diameter screws (2 knockouts can be removed if necessary to provide 2 other holes).	4 external wall-mounted brackets.

Up to 630 A

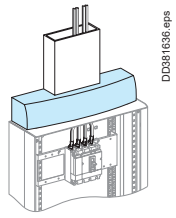
Flush-mounting kit

For wall-mounted enclosure		
		
Catalog numbers	**LVS08819**	**LVS08820**
Characteristics	6 to 18 modules PVC frame	21 to 27 modules PVC frame

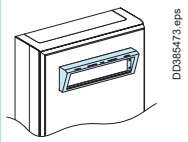
Plinth raiser

100 mm for floor-standing enclosure			
			
Catalog numbers	**LVS08805**	**LVS08806**	**LVS08807**
Characteristics	For basic floor-standing enclosure or extension. W = 600 mm	For basic floor-standing enclosure or extension. W = 850 mm	For a duct. W = 300 mm

Trunking spreader

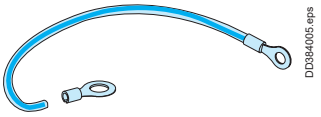
Trunking spreader	
	
Catalog number	**LVS08824**
Characteristics	For a professional-looking connection between the trunking and the enclosure. Can be installed at the top or bottom. The spreader is marked for cut-outs for standard trunking sizes. The maximum capacity is two 250 x 80 mm trunking sections.

Mounting of devices on doors

Type	Plain door with cut-out W600, W850
	
Catalog numbers	Plain door + **LVS03928**
Characteristics	Inclined visor by 30 °. Allows mounting of measurement, inspection, indication 72 x 72, 96 x 96, Ø 16 or Ø 22 mm, 45 x 45 devices. *See page C-38*.

Earthing braid

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

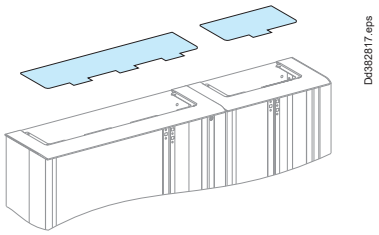
	Earthing braid, 6 mm²	Earthing wire, 6 mm²
		
Catalog numbers	**LVS08910**	**LVS08911**
Characteristics	Equipped with a 4 mm diameter lug at one end and a 6 mm diameter lug on the other. L = 200 mm	Equipped with a 5 mm diameter lug at one end and a 6 mm diameter lug on the other. L = 200 mm

E

Wall-mounted and floor-standing enclosures

Gland plates

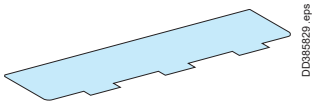
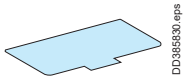
Up to 630 A

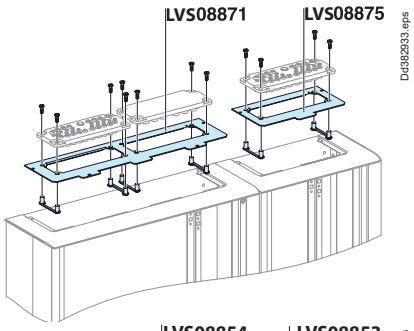


Plain metal gland plates

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

Plain metal gland plates

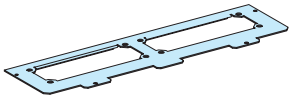
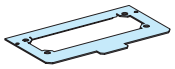
		
Used with	**Wall-mounted or floor-standing enclos. W600 / 850 mm**	**Duct W300**
Catalog numbers	**LVS08870**	**LVS08874**

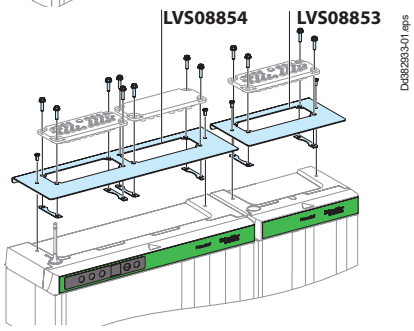


Interface metal plates with cut-outs

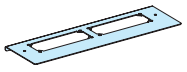
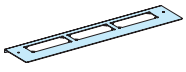
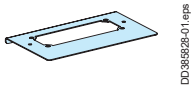
The enclosures (wall mounted and floor standing enclosures and ducts) are supplied with a plastic gland plate fitted on the top or bottom plate. This plastic gland plate can be replaced by an interface plate with cut-outs for special cable entry systems made of an insulating material (plain, with knockouts or membrane-type).

Metal interface plates with cut-outs

		
Used with	**Wall-mounted or floor-standing enclos. W600 / 850 mm**	**Duct W300**
Catalog numbers	**LVS08871**	**LVS08875**



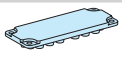
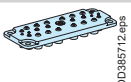
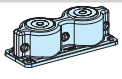
Metal interface plates with cut-outs

			
Used with	**W600**	**W850**	**W300**
Catalog numbers	**LVS08854**	**LVS08855**	**LVS08853**

Gland plates : plain, with knockouts or membrane-type

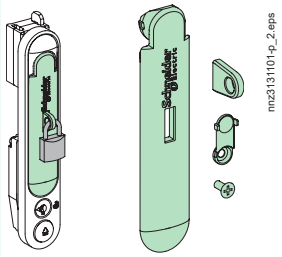
Mounting on the interface plates ref LVS08871, LVS08875, LVS08853, LVS08854 or LVS08855.

Gland plates

	plain	membrane-type		
				
Catalog numbers	**LVS08881**	**LVS08872**	**LVS08896**	**LVS08897**
Ø 3 mm	-	-	8	-
Ø 3 to 7 mm	-	4	4	-
Ø 5 mm	-	-	4	-
Ø 7 to 12 mm	-	-	20	-
Ø 7 to 14 mm	-	8	4	-
Ø 7 to 18 mm	-	-	2	-
Ø 10 to 14 mm	-	12	-	-
Ø 14 to 20 mm	-	4	-	-
Ø 20 to 26 mm	-	1	-	-
Ø 17 to 30 mm	-	-	1	-
Ø 8 to 67 mm	-	-	-	2
Total number of entries	-	**29**	**43**	**2**

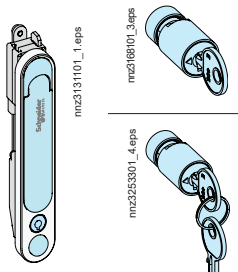
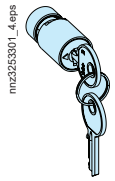
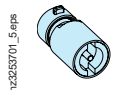
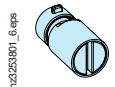
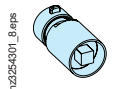
Up to 630 A

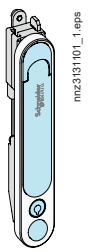
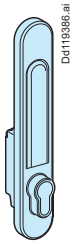
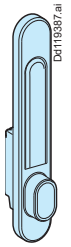
Door handles and padlocking

	Padlocking
	
Catalog numbers	**LVS07938**
Characteristics	For new rotary handle

Barrel locks, inserts

Rotary handle barrel locks and inserts

	Characteristics		Catalog 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	8 mm	**LVS07949**
	Male square insert	6 mm	**LVS07951**
		8 mm	**LVS07953**

Rotary Handle	Handle	
RAL 7016 handle	**EURO handle - RAL 9003**	**ASSA/ABLOY handle - RAL 9003**
		
Supplied with barrel lock (key no. 405) RAL 7016	Supplied without barrel	
LVS07931	**LVS07932**	**LVS07933**

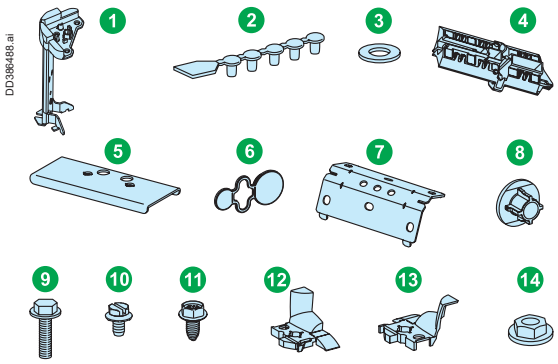
(1) Can be adapted to the new rotary handle on PrismaSeT G Active IP30 enclosures.

Wall-mounted and floor-standing enclosures

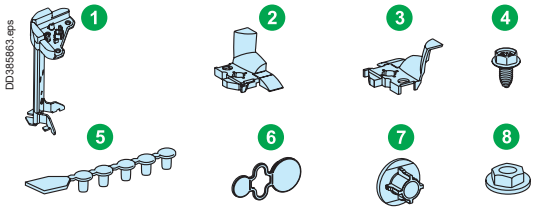
Spare parts

Up to 630 A

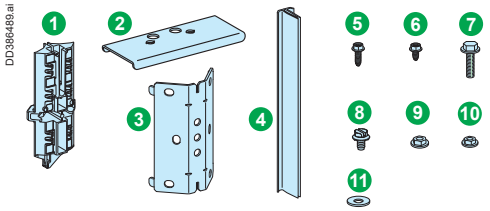
Accessories



Duct accessories	LVS01036
1	4 pillars
2	1 earthing braid plug
3	4 washers
4	2 combination uprights
5	2 short combination crossbars
6	2 base blanking plugs
7	2 association fasteners
8	4 spacers
9	2 screws with flange
10	2 screws
11	1 self-threading screw
12	2 A-angle parts
13	2 B-angle parts
14	6 nuts HX grooved

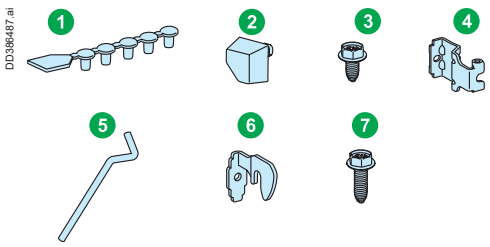


Wall mounted and floor standing enclosures accessories	LVS01018
1	4 pillars
2	2 A-angle parts
3	2 B-angle parts
4	8 self threading screws
5	1 earthing braid plug
6	4 base blanking plugs
7	4 spacers
8	4 nuts HX grooved



G IP30 floor standing enclosure combination kit	LVS08815
1	1 combination upright
2	1 short combination crossbar + 2 screws + 2 nuts
3	2 association fasteners
4	7 plastic protectors
5	2 self-threading screws
6	3 self-threading screws
7	1 screw with flange
8	1 screw
9	3 nuts
10	3 nuts
11	2 washers

Door accessories



Wall mounted and floor standing enclosures closing accessories	LVS01032
1	1 earthing braid plug
2	2 door stops
3	3 self threading screws
4	3 fixed hinges
5	3 hinge pins
6	3 stop bolts
7	4 self threading screws

Connectivity accessories

Connectivity accessories	
Cable Extender for LoRa Antenna	SMT10015
Cables for Wireless Panel Server 2m 3P + N	SMT10016
PrismaSeT Wireless Panel Server electronic part (without cables)	SMT10019

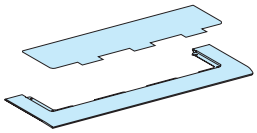
Wall-mounted and floor-standing enclosures

Spare parts

Up to 630 A

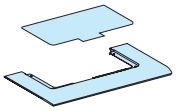
Metal plates with cut-outs + plastic gland plates

Dd385832.eps



W600	LVS08880

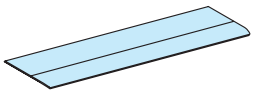
Dd385834.eps



W300	LVS08884

Metal top/bottom plate (IP30)

DD384488.EPS



W600	LVS01017

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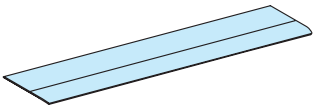

W850	LVS01070

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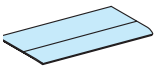
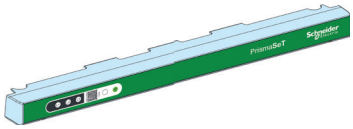
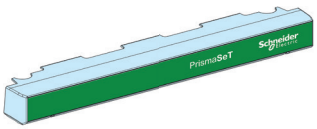


W300	LVS01039

Green Bar



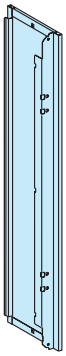
W850	LVS01129



W850	LVS01125

Side (IP30)

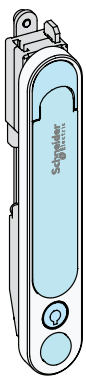
DD384491.EPS



6 modules	LVS01040
9 modules	LVS01041
12 modules	LVS01042
15 modules	LVS01043
18 modules	LVS01044
21 modules	LVS01045
24 modules	LVS01046
27 modules	LVS01035
30 modules	LVS01034
33 modules	LVS01033
36 modules	LVS01047

PrismaSeT G Rotary Handle Spare Parts — LVS01218

mn23131101_1.eps



1. Handle housing block
2. G adapter link part
3. Screw, pan head, M5x8
4. The key of 405
5. 1 crosshead screw
6. Omega fix part
7. Driver block
8. Hex locking screw, M6x10
9. Self tapping screw, pan head, ST3.5x15

E

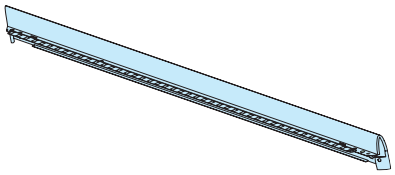
Wall-mounted and floor-standing enclosures

Spare parts

Up to 630 A

Central uprights (IP30)

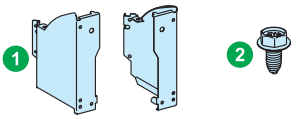
DD384492.EPS



Association profile 9 modules	**LVS01063**
Association profile 12 modules	**LVS01064**
Association profile 15 modules	**LVS01065**
Association profile 18 modules	**LVS01066**
Association profile 21 modules	**LVS01067**
Association profile 27 modules	**LVS01030**
Association profile 30 modules	**LVS01029**
Association profile 33 modules	**LVS01028**
Association profile 36 modules	**LVS01069**

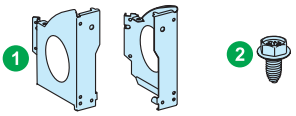
Plinth

DD384494.EPS



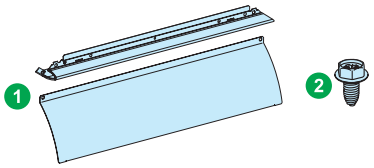
Accessories for plinth	**LVS01051**
1 Left drilled base bracket + right drilled base bracket	
2 4 self-threading screws	

DD384493.EPS



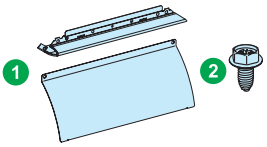
Floor standing enclosures	**LVS01050**
1 Left base bracket + right base bracket	
2 4 self-threading screws	

DD384495.EPS



Plinth front, 600 mm	**LVS01052**
1 Base cover + plinth	
2 2 self-threading screws	

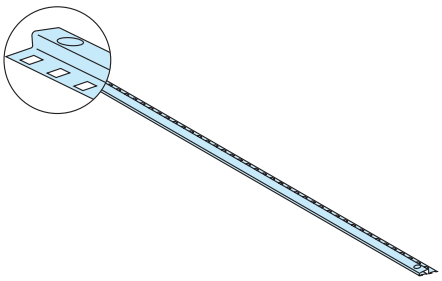
DD384496.EPS



Plinth front, 300 mm	**LVS01053**
1 Base cover + plinth	
2 2 self-threading screws	

Front cover support uprights (IP30)

DD384500.EPS



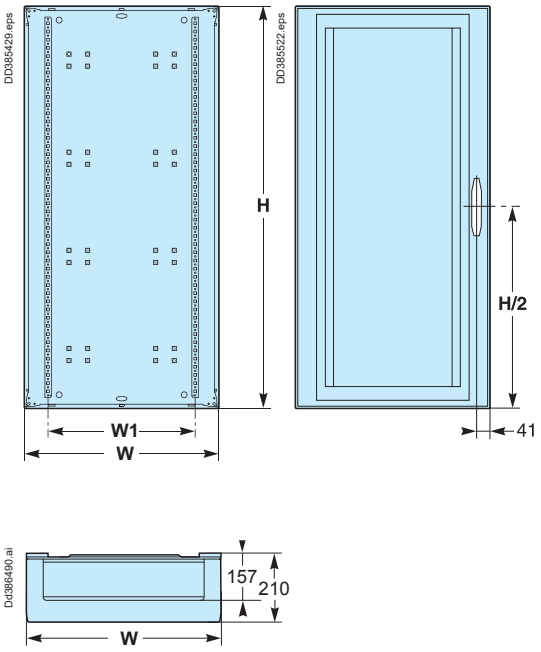
18 modules	**LVS01254**
27 modules	**LVS01257**
30 modules	**LVS01258**
33 modules	**LVS01259**
36 modules	**LVS01261**

Wall-mounted and floor-standing enclosures

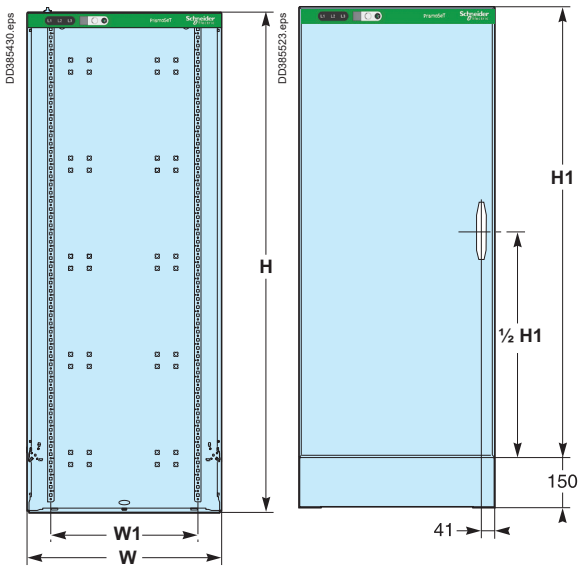
Dimensions

Up to 630 A

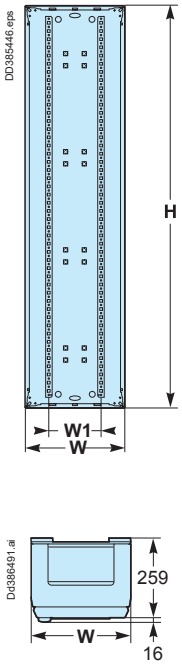
Enclosures W600 – 6 to 27 mod.



Enclosures W600 – 27 to 36 mod.



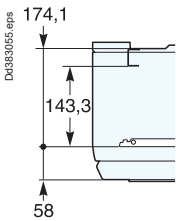
Ducts W300



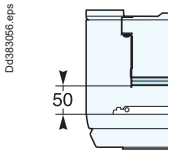
	Nb. of vertical modules	Height		Width							Depth	
		H	H1	W600		W850			W300		W/O door	with door
				W	W1	W	W1	W2	W	W1		
Wall-mounted enclosures / duct	6	330	-	595	450	-	-	-	305	200	210	259
	9	480	-	595	450	-	-	-	305	200	210	259
	12	630	-	595	450	-	-	-	305	200	210	259
	15	780	-	595	450	-	-	-	305	200	210	259
	18	930	-	595	450	-	-	-	305	200	210	259
	21	1080	-	595	450	-	-	-	305	200	210	259
	24	1230	-	595	450	-	-	-	305	200	210	259
	27	1380	-	595	450	-	-	-	305	200	210	259
Floor-standing enclosures / duct	27	1580	1430	595	450	845	450	200	305	200	210	259
	30	1730	1580	595	450	845	450	200	305	200	210	259
	33	1880	1730	595	450	845	450	200	305	200	210	259
	36	2030	1880	595	450	845	450	200	305	200	210	259

Depth behind front plate

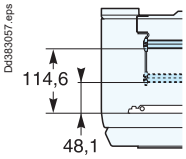
Functional uprights



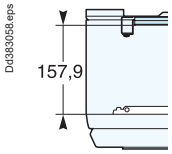
Modular rails



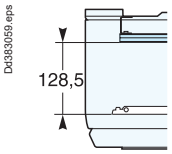
Fixed rail
Cat. no. LVS**03001** or LVS**03010**



Adjustable rail
Cat. no. LVS**03002** or LVS**03011**

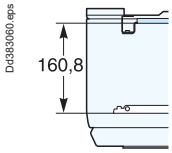


Recessed rail
Cat. no. LVS**03003**

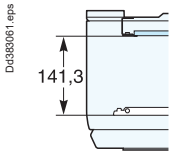


Rear rail
Cat. no. LVS**03004**

Slotted mounting plate

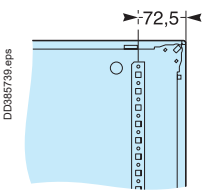


Recessed mounting plate
Cat. no. LVS**03171**, LVS**03172**, LVS**03173**, LVS**03176**, LVS**03177** or LVS**03178**

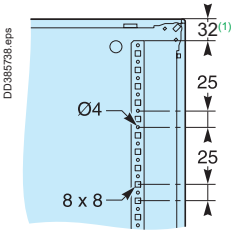


Flat plate
Cat. no. LVS**03170** or LVS**03175**

Cable running



Rear upright



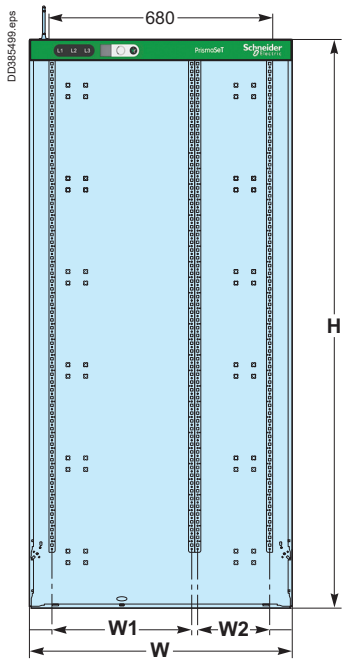
(1) 57 mm for height 36 modules

Wall-mounted and floor-standing enclosures

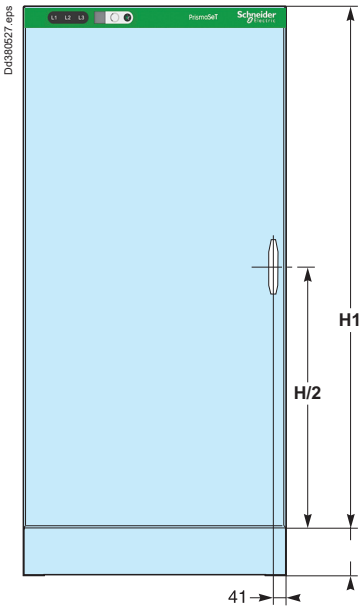
Dimensions

Up to 630 A

Enclosures W850

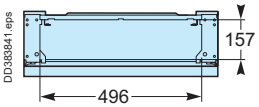


Door

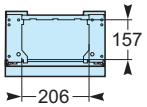


Cable entry

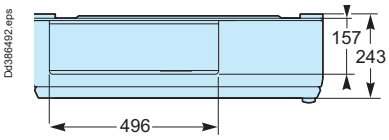
W600



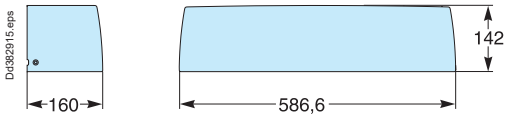
W300



W850

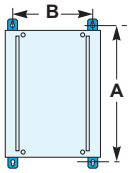


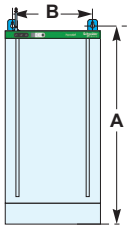
Trunking spreader



Wall-mounted installation

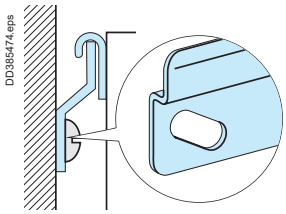
External brackets



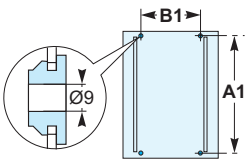


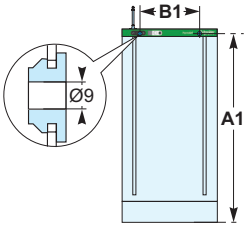
	Nb. of vertical modules	A	B		
			W600	W850	W300
Wall-mounted enclosures	6	430	545	795	255
	9	580	545	795	255
	12	730	545	795	255
	15	880	545	795	255
	18	1030	545	795	255
	21	1180	545	795	255
	24	1330	545	795	255
	27	1480	545	795	255
Floor-standing enclosures	27	1580	545	795	255
	30	1730	545	795	255
	33	1880	545	795	255
	36	2030	545	795	255

Cyma system



Screws

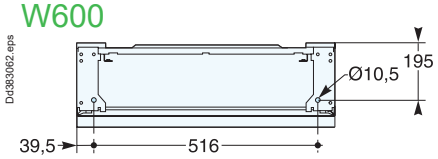




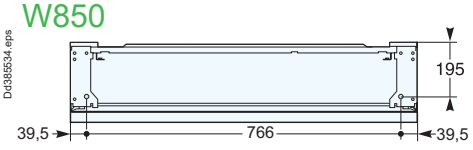
	Nb. of vertical modules	A1	B1		
			W600	W850	W300
Wall-mounted enclosures	6	270	381	631	91
	9	420	381	631	91
	12	570	381	631	91
	15	720	381	631	91
	18	870	381	631	91
	21	1020	381	631	91
	24	1170	381	631	91
	27	1320	381	631	91
Floor-standing enclosures	27	1500	381	631	91
	30	1650	381	631	91
	33	1800	381	631	91
	36	1950	381	631	91

Enclosure plinth fixation

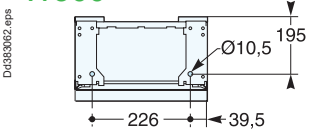
W600



W850



W300



Up to 630 A

Great capability for meeting the requirements of your installation

> 100 % reliable and in compliance with existing standards
All the components (switchgear, splitter blocks, prefabricated connections, etc.) have been designed to work together. All switchboard configurations have been tested. Even the most demanding.

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

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

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

E

Presentation

Up to 630 A

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

Enclosure delivered flat: total accessibility
Designed for electrical continuity

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

PB119167.eps

PE60331.eps

Description

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

- width: 575 mm, with duct: 325 mm
- height: 450 to 1750 mm
- depth: 260 mm with door
- properties of metal enclosures *> page G-16*

Main characteristics

IP55 enclosure	
Rated operational current	I_n = 630 A - Isc = 50 kA, Icw = 25 kA rms / 1 s, Ipk = 53 kA
Colour	White colour RAL 9003
Standards conformity	EN 62208, IEC 61439-2
Degree of protection	IP55 with door
Degree of protection against mechanical impacts	IK10
Seismic characteristics	2,5G without accessories (IEC 60068-2-57)
Isolation	Class 1
Doors	■ Plain or transparent, opening to right or left 180° ■ Supplied with a handle and keylock (key 405) Distance behind plain door = 78 mm, Distance behind transparent door = 73 mm.
Earthing	Earthing braid delivered with enclosure
Combination	*> page E-25*

Easy design with
Rapsody software
> page B-34

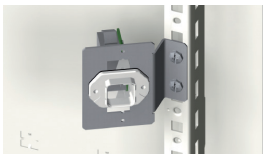
Presentation

Up to 630 A

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

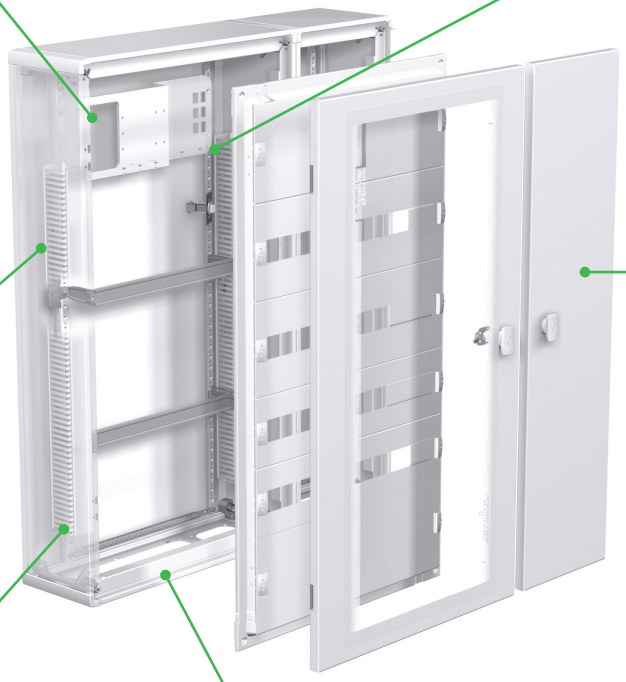
Accessories shared with PrismaSeT G Active, IP30

Plates for connecting control circuits

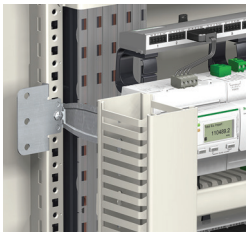


Pre-hooked plates for quick positionning

Full accessibility
- Removable side panels: easy wiring



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



Plain or transparent door

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

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

Weatherproofing
- Large choice of IP55 gland plates

Multiple combinations

PE60330.eps

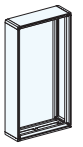
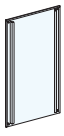
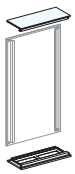
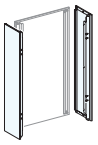
PB115681.eps

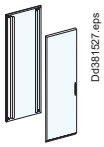
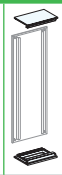
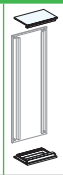
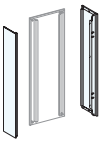
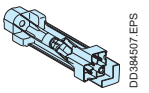
E

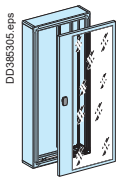
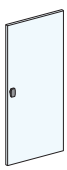
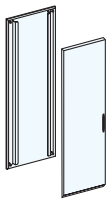
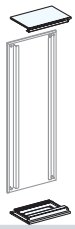
Up to 630 A

Wall mounted and floor standing enclosures

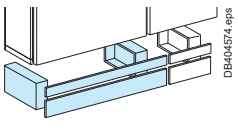
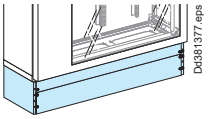
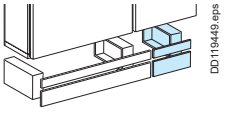
Enclosures are supplied with plain metal gland plates and external mounting brackets.
The doors are reversible, opening 180° to right or left, supplied equipped with a handle with 405 key lock.
The wall mounted and floor standing enclosure extensions and ducts are supplied without combination kits, see table opposite.

Type		Basic enclosure W600			Extension enclosures W600				
		 Dd381521.eps	Dd381522.eps	Dd381523.eps	 Dd381524.eps	 Dd381525.eps	 Dd381526.eps	Dd381522.eps	Dd381523.eps
Nb. of vertical modules of 50 mm	Height in mm	Basic enclosure	Frame + plain door	Frame + transparent door	Rear	Top and bottom plates for side-by-side combination	Side panels for vertical combination	Frame + plain door	Frame + transparent door
7	450	LVS08302	LVS08322	LVS08332	LVS08312	LVS08371	LVS08352	LVS08322	LVS08332
11	650	LVS08303	LVS08323	LVS08333	LVS08313	LVS08371	LVS08353	LVS08323	LVS08333
15	850	LVS08304	LVS08324	LVS08334	LVS08314	LVS08371	LVS08354	LVS08324	LVS08334
19	1050	LVS08305	LVS08325	LVS08335	LVS08315	LVS08371	LVS08355	LVS08325	LVS08335
23	1250	LVS08306	LVS08326	LVS08336	LVS08316	LVS08371	LVS08356	LVS08326	LVS08336
27	1450	LVS08307	LVS08327	LVS08337	LVS08317	LVS08371	LVS08357	LVS08327	LVS08337
33	1750	LVS08309	LVS08329	LVS08339	LVS08319	LVS08371	LVS08359	LVS08329	LVS08339

Type		Ducts W300		Wall-mounted enclosures W300			
		 Dd381527.eps	 Dd381528.eps	Dd381527.eps	 Dd381528.eps	 Dd383032.eps	 DD394507.EPS
Nb. of vertical modules of 50 mm	Height in mm	Rear + plain door	Top and bottom plates	Rear + plain door	Top and bottom plates	Side panels	Struts (set of 2)
7	450	LVS08342	LVS08372	LVS08342	LVS08372	LVS08352	2 x LVS01025
11	650	LVS08343	LVS08372	LVS08343	LVS08372	LVS08353	2 x LVS01025
15	850	LVS08344	LVS08372	LVS08344	LVS08372	LVS08354	2 x LVS01025
19	1050	LVS08345	LVS08372	LVS08345	LVS08372	LVS08355	2 x LVS01025
23	1250	LVS08346	LVS08372	LVS08346	LVS08372	LVS08356	2 x LVS01025
27	1450	LVS08347	LVS08372	LVS08347	LVS08372	LVS08357	2 x LVS01025
33	1750	LVS08349	LVS08372	LVS08349	LVS08372	LVS08359	2 x LVS01025

W850 floor standing enclosure (plinth sold separately)					Duct W300	
 DD385305.eps		Dd381386.eps	 Dd386493.ai	Dd381390.eps	 Dd381527.eps	 Dd381528.eps
Nb. of vertical modules of 50 mm	Height in mm	Floor standing enclosure	Plain door	Transparent door	Rear + plain door	Top and bottom plates
33	1750	LVS08311	LVS08330	LVS08340 (1)	LVS08349	LVS08372

Spare parts > page E-30 ; Dimensions > page E-31

Plinth H = 150 mm	W600	W850 floor standing enclosure	Duct W300
	 DB404574.eps	 Dd381377.eps	 DD119449.eps
Catalog numbers	2 x LVS08392 + LVS08393	LVS08802	LVS08392 + LVS08394

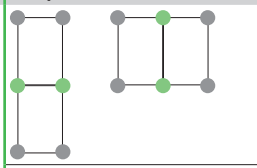
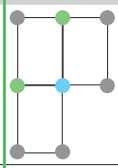
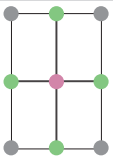
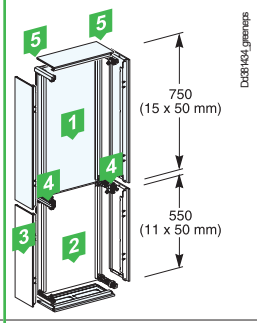
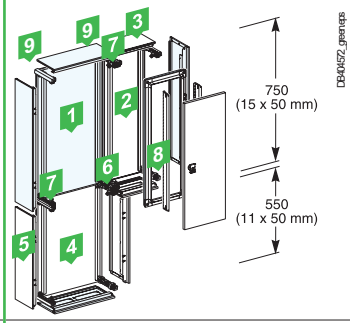
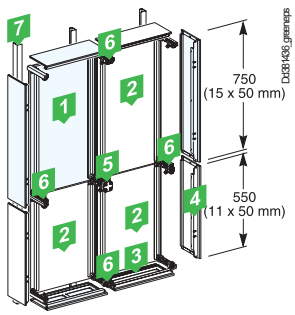
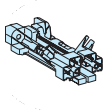
(1) New ref, commercialised mid 2018.
Spare parts > page E-30
Dimensions > page E-31
Partitioning > page C-45

Weatherproof enclosures
Combination kits

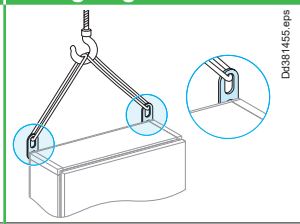
Up to 630 A

Combination kits

	Components catalog numbers				
	Single pillar	Horizontal/vertical combination kit	"L" combination kit	Square combination kit	Mounting upright
Catalog numbers	**LVS01025** (set of 2)	**LVS08381** x 2	**LVS08382** + **LVS08381**	**LVS08383**	**LVS08391**
Characteristics	Supplied with basic enclosures	2 double pillars	2 L pillars + 2 double pillar + 1 single pillar	1 square pillar + 4 double pillar	L = 1950 mm

	Mounting example		
	Simple	**In L**	**In square**
			
			
Wall-mounted enclosures	**1** Basic enclosure Rear plate for enclosure extension **3** 1 set of two side panels	**1** 1 basic enclosure **2** 1 rear + door for duct **3** 1 set of two top and bottom plates for duct W300 or W600 **4** 1 rear plate for enclosure extension **5** 1 set of two side panels	**1** 1 basic enclosure **2** 3 rear plates for enclosure extensions **3** 1 set of two top and bottom plates for enclosure extensions W300 or W600 **4** 1 set of two side panels
Combination kits 	**4** 2 x 1 double pillar **LVS08381**	**6** 1 L pillar **LVS08382** **7** 2 x 1 double pillar **LVS08381** **8** 1 standard pillar **LVS01025**	**5** 1 square pillar **LVS08383** **6** 4 x 1 double pillar **LVS08381**
Mounting uprights	**5** 2 x 1 mounting upright **LVS08391**	**9** 2 x 1 mounting upright **LVS08391**	**7** 3 mounting uprights W = 1950 mm (to reinforce the switchboard) 3 x LVS**08391**

Lifting

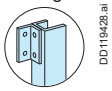
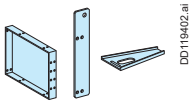
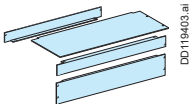
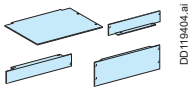
	Lifting rings
	
Catalog number	**LVS08396**
Characteristics	Set of two. supplied with mounting hardware. The lifting rings are secured directly to the switchboard or to the mounting uprights.

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

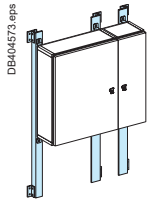
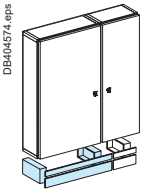
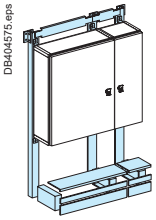
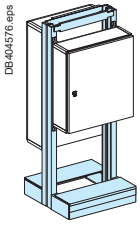
Weatherproof enclosures
Mounting accessories

Up to 630 A

Mounting accessories

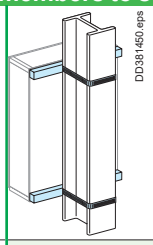
Upright		Plinth		
	Mounting uprights	**Plinth gusset**	**Plinth cover panel (for enclosure)**	**Plinth cover panel (for duct)**
Catalog numbers	**LVS08391**	**LVS08392**	**LVS08393**	**LVS08394**
Characteristics	■ W = 1950 mm ■ Colour: RAL 7016 ■ Supplied with: □ two adjustable fixing brackets, □ one joint for combination with a plinth or another upright. Leave space behind the switchboard for cable running and to improve ventilation. 	■ H = 150 mm ■ Colour: RAL 7016 	■ W = 600 mm ■ Colour: RAL 7016 	■ W = 300 mm ■ Colour: RAL 7016 
Quantity to order	For one enclosure, order two uprights. For each enclosure extension or duct, order one additional upright.	For the basic enclosure, order two gussets and one 600 mm wide plinth cover panel. For each enclosure extension or duct, order one additional gusset and the corresponding cover panel.		

Mounting example

	On uprights	On plinth	On wall structure	Free-standing structure
				
Catalog numbers	3 x **LVS08391**	3 x **LVS08392 + LVS08393 + LVS08394**	3 x **LVS08391** + 3 x **LVS08392 + LVS08393 + LVS08394**	4 x **LVS08391** + 4 x **LVS08392** + 2 x **LVS08393**
Designation	3 mounting uprights	3 gussets + 1 plinth cover panel for enclosure + 1 plinth cover panel for duct	3 uprights + 3 gussets + 1 plinth cover panel for enclosure + 1 plinth cover panel for duct	4 uprights + 4 gussets + 2 plinth cover panels for enclosure
Remarks	The uprights are used to mount on a wall one or more enclosures combined horizontally or vertically.	The plinth, installed in the factory or on-site, raises the switchboard to protect it and facilitate spreading of cables arriving from a trough. The wall-fixing brackets supplied with the plinth ensure that the switchboard cannot topple over.	The supplied external brackets prevent the switchboard from tilting.	Assembly of 2 wall structures connected back-to-back. The switchboard is free-standing. Fixed to the ground and can be moved very easily with lifting rings ref. LVS08396. It can house one or more enclosures.

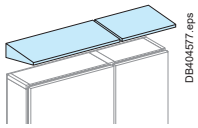
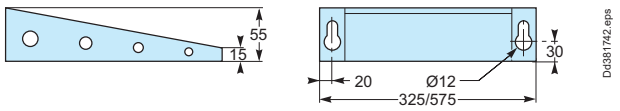
Mounting on a pole

2 reinforcement cross-members to support the enclosure



Catalog number	**LVS08395**
Characteristics	The kit is used to mount an enclosure or an enclosure + duct combination, without drilling, to an I-beam or concrete pole that can be rectangular or cylindrical. The maximum circumference of the pole is 580 mm. Supplied with mounting hardware.

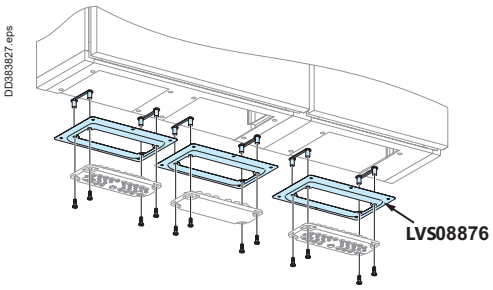
Canopy

Using	For wall-mounted enclosures W600	For duct W300
		
Catalog numbers	**LVS08386**	**LVS08387**
Characteristics	■ Installed on the mounting uprights or directly on the wall, canopies improve switchboard protection against vertically falling water and objects. ■ Colour: RAL 7016. ■ Supplied with: the hardware required for mounting on the uprights, the components required for combination with another canopy.	

Dimensions > *page* E-31 ; Partitioning > *page C-45*

Weatherproof enclosures
Grand plates

Up to 630 A

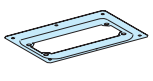


Metal interface plate with cut-outs

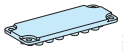
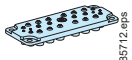
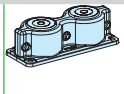
Enclosures are supplied with plain metal gland plates installed on the top or bottom panel of the enclosures (2 plates) or 300 mm wide ducts (1 plate).
These plates can be replaced by metal plates with cut-outs LVS08876 for special cable entry systems made of an insulating material (plain, with knockouts or membrane-type).
They are designed for entry of cables of different cross-sectional areas via the bottom of a switchboard while maintaining the IP55 degree of protection.
The gland plates are easy to install using the mounting kit (supplied with each gland plate) that positions and holds the nuts during installation.
This makes it possible to mount the gland plates using a single tool.

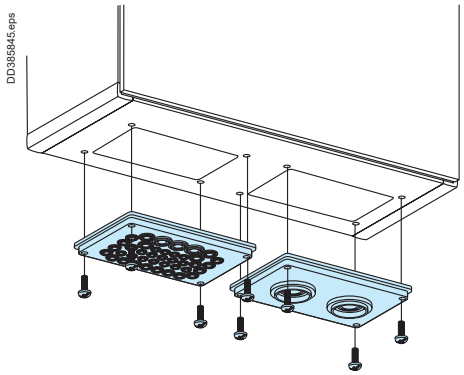
Plain gland plates, plates with knockouts and membrane-type plates

Metal interface plate with cut-outs

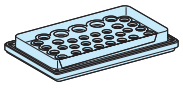
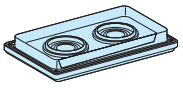
	 DD385844.EPS
Catalog numbers	**LVS08876**
Characteristics	Fitting gland plates: plain and membrane-type.

Gland plates for metal interface

	plain	membrane-type		
	 DD385708.eps	 DD385712.eps	DD385713.eps	 DD385714.eps
Catalog numbers	**LVS08881**	**LVS08872**	**LVS08896**	**LVS08897**
Ø 3 mm	-	-	8	-
Ø 3 to 7 mm	-	4	4	-
Ø 5 mm	-	-	4	-
Ø 7 to 12 mm	-	-	20	-
Ø 7 to 14 mm	-	8	4	-
Ø 7 to 18 mm	-	-	2	-
Ø 10 to 14 mm	-	12	-	-
Ø 14 to 20 mm	-	4	-	-
Ø 20 to 26 mm	-	1	-	-
Ø 17 to 30 mm	-	-	1	-
Ø 8 to 67 mm	-	-	-	2
Total number of entries	-	**29**	**43**	**2**



Gland plates, direct mounting

	 DB124229.eps	 DB124230.eps
Catalog numbers	**LVS08898**	**LVS08899**
Ø 7 to 26 mm	39	-
Ø 33 to 72 mm	-	2
Total number of entries	**39**	**2**

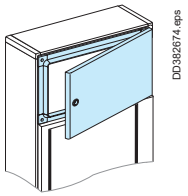
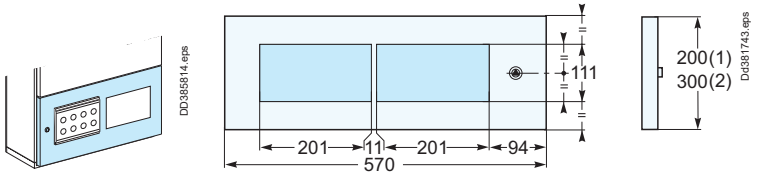
E

Weatherproof enclosures

Partial doors and functional units for partial door

Up to 630 A

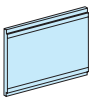
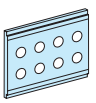
Partial doors

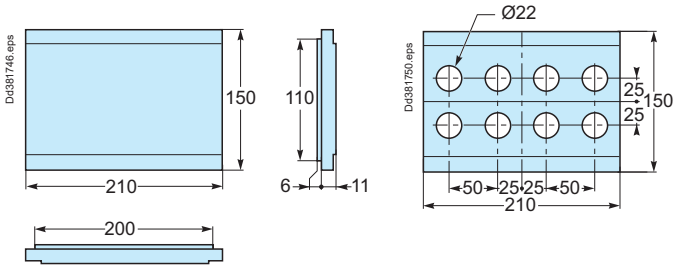
Type	Plain	With cut-outs
		
4 modules (H = 200 mm) for enclosure from 11 to 27 modules	**LVS08374**	**LVS08376**
Installation	■ On a wall-mounted enclosure at least 11 modules high (H = 650 mm). ■ The front must be completed with another door (plain or transparent). ■ Each enclosure or extension can be equipped with only one partial door.	
Caractéristiques	-	■ Designed for two mounting plates with 22 mm diameter devices or Schneider Electric industrial sockets. ■ They are supplied with an insulating plain mounting plate that can be used to: □ blank off a reserve hole, □ install all types of devices (sockets, EPO devices, measurement devices). ■ The dimensions of the two holes are 201 mm x 111 mm.
	■ Hinges that open 170° ■ Equipped with a 8 mm male triangle insert (key not supplied).	

Plastic plates for equipping openings on partial doors

They can be installed:

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

Type	Plain	For 22 mm diameter devices
		
Catalog numbers	**LVS08861**	**LVS08862**
Characteristics	■ Can be used to: □ blank off partial doors with cut-outs □ mount any type of device (EPO devices, measurement devices, sockets)	■ For installation of eight 22 mm diameter devices (lights, switches, pushbuttons, etc.) ■ Supplied with 4 blanking plug

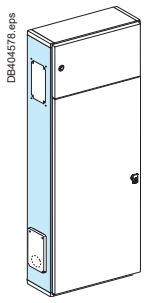


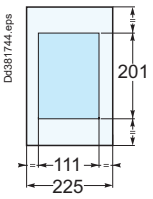
Up to 630 A

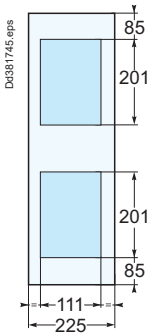
Side panels with cut-outs

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

Side panels with cut-out





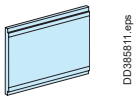


Nb. of vertical modules of 50 mm	Height in mm	Nb. of 111 x 201 mm holes	Catalog numbers
15	850	2	**LVS08364**
33	1750	2	**LVS08369**

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

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

Plastic plate for equipping openings on partial door

Type	Plain
	
Catalog numbers	**LVS08861**
Characteristics	■ Can be used to: □ blank off □ mount any type of device (EPO devices, measurement devices, sockets)

E

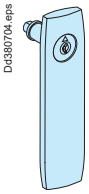
Up to 630 A

Locks

- The small plain and transparent doors (7 to 23 modules) are supplied with a small handle comprising a barrel lock no. 405.
- The large plain and transparent doors (27 to 33 modules) are supplied with a large handle comprising a barrel lock no. 405.
- The partial doors are supplied with an 8 mm male triangle insert.
- All doors can receive as optional equipment:
  - a large or small handle with a barrel lock no. 405. The latter can be replaced by other barrel locks or special inserts
  - a large EURO handle, supplied without a barrel lock
  - door inserts (squares, triangles, double bars, screwdriver slots).

Handles for replacement

Handles

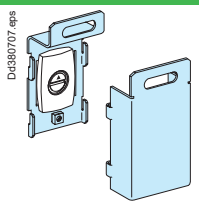


Catalog numbers	**LVS08936**	**LVS08935**	**LVS08934**
Designation	Door latch with lock and 2 no. 405 keys	Handle (W = 155 mm) with lock and 2 no. 405 keys	EURO handle without a barrel lock (1)

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

Padlocking

Padlocking

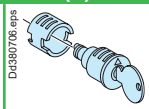


Catalog number	**LVS08939**
Designation	The kit can be installed on all IP55 doors, except those equipped with an EURO lock. Kit designed for three padlocks.

Handle barrel locks and inserts

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

Handle barrel locks (1)



Supplied with	2 keys no. 2433A	2 keys no. 455	2 keys no. 1242E	2 keys no. 3113A	Double bar insert 3 mm	Male triangle insert			Male square insert	
						7 mm	8 mm (CNOMO)	9 mm	7 mm	8 mm
Catalog numbers	**LVS09933**	**LVS09945**	**LVS09942**	**LVS09943**	**LVS09932**	**LVS09937**	**-**	**-**	**LVS09947**	**LVS09948**

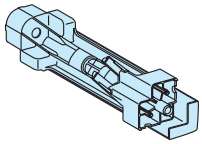
(1) Others A and E combinations are available from Ronis, please contact us.

Weatherproof enclosures
Spare-parts

Up to 630 A

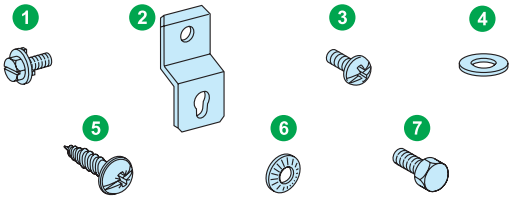
Accessories (IP55)

DD384507_1.EPS



2 pillars — **LVS01025**

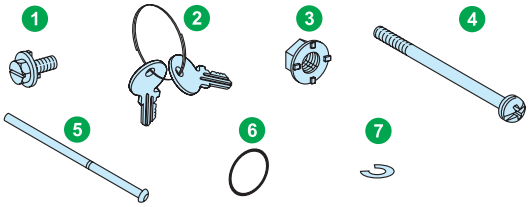
DD384508.EPS



Set of spare parts for wall-mounted enclosure — **LVS01247**

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

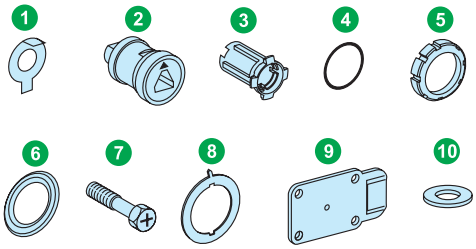
DD384509.EPS



Set of spare parts for door — **LVS01248**

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

DD384510.EPS



Spare parts for closing system — **LVS01249**

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

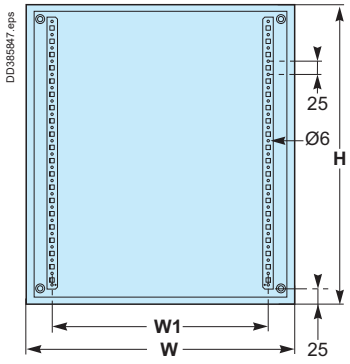
E

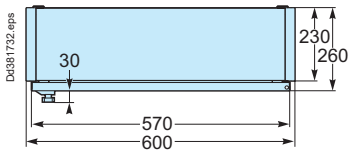
Weatherproof enclosures

Dimensions

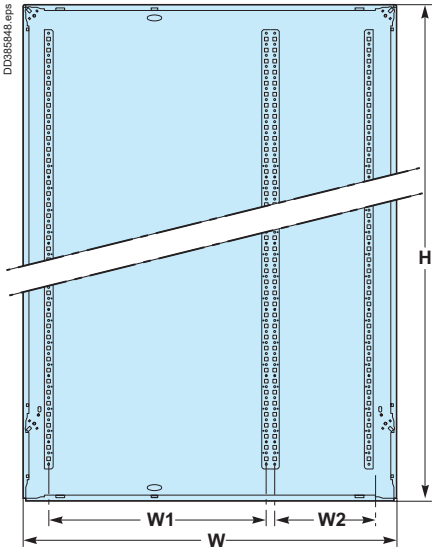
Up to 630 A

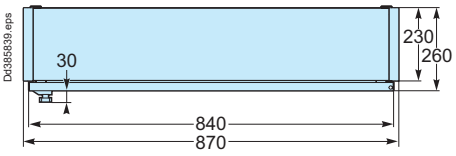
W600 enclosures



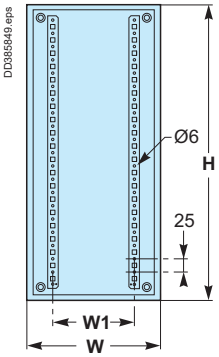


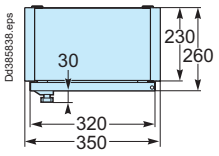
W850 enclosure, 33 mod.





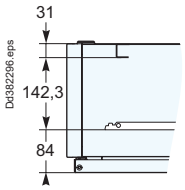
W300 ducts



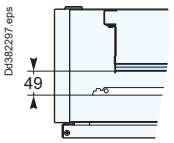


	Nb. of vertical modules		W600		W850			W300	
		H	W	W1	W	W1	W2	W	W1
Enclosures Ducts	7	425	575	450	-	-	-	325	200
	11	625	575	450	-	-	-	325	200
	15	825	575	450	-	-	-	325	200
	19	1025	575	450	-	-	-	325	200
	23	1225	575	450	-	-	-	325	200
	27	1425	575	450	-	-	-	325	200
	33	1725	575	450	845	450	200	325	200

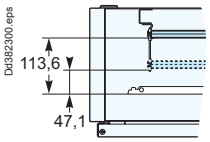
Functional uprights



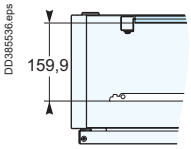
Modular rails



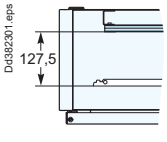
LVS03001.



LVS03002.

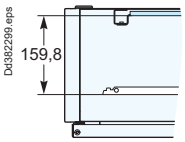


LVS03003.

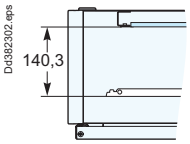


LVS03004.

Slotted mounting plate

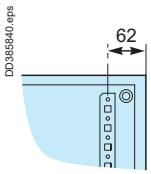


LVS03171/LVS03172/LVS03173/ LVS03176/LVS03177/LVS03178.

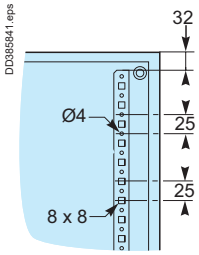


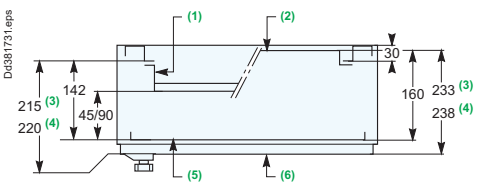
LVS03170/LVS03175.

Cable running



Rear upright



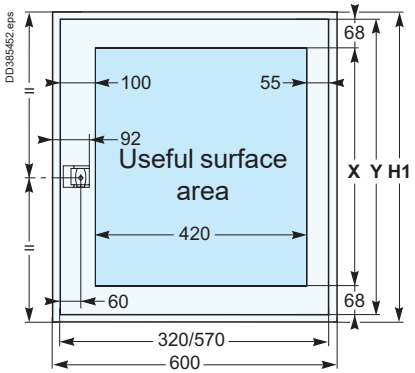


(1) Double profile modular rail.
(2) Recessed slotted mounting plate.
(3) Transparent door.
(4) Plain door.
(5) Front plate.
(6) Door.

Weatherproof enclosures
Dimensions

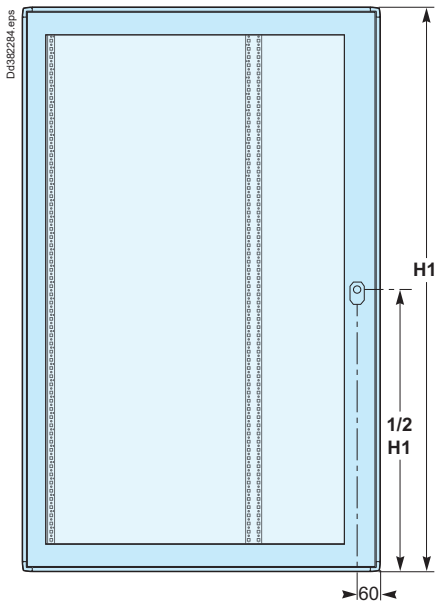
Up to 630 A

Doors W600



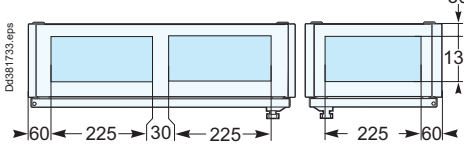
Doors		
H1	X	Y
450	284	420
650	484	620
850	684	820
1050	884	1020
1250	1084	1220
1450	1284	1420
1750	1584	1720

Doors W850 of 33 mod.

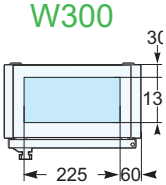


Cable entry

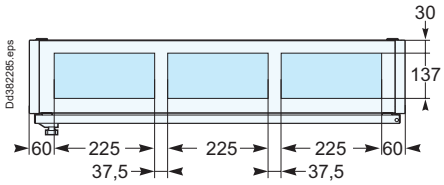
W600



W300

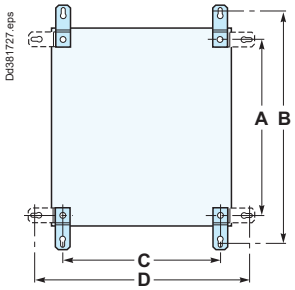


W850

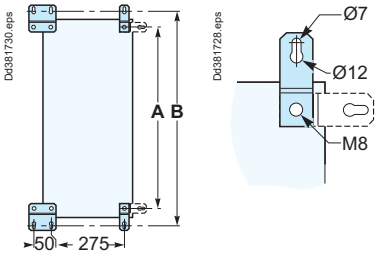


Wall-mounted installation

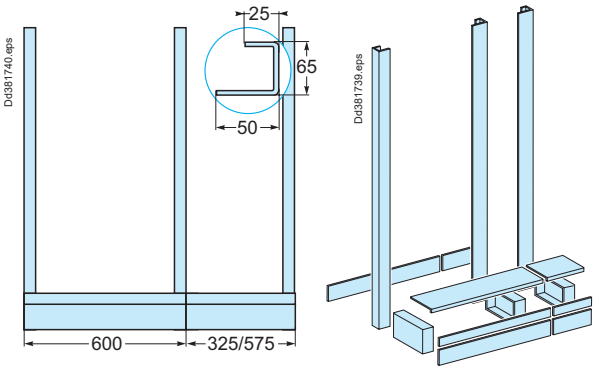
External brackets W600/850



External brackets W300

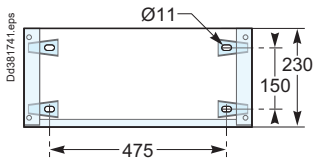


Wall structure

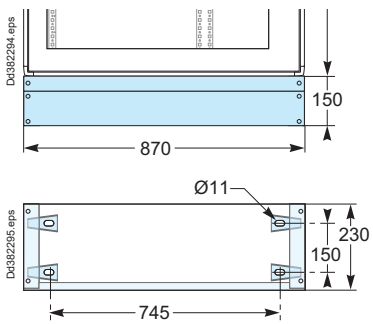


Nb. of vertical modules	A	B	C		D	
			W600	W850	W600	W850
7	375	525	525	-	650	-
11	575	725	525	-	650	-
15	775	925	525	-	650	-
19	975	1125	525	-	650	-
23	1175	1325	525	-	650	-
27	1375	1525	525	-	650	-
33	1675	1825	525	-	650	-

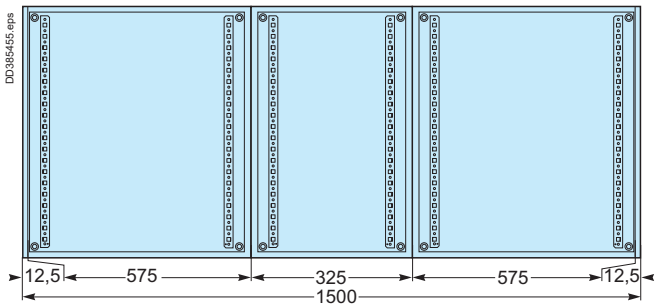
Plinth fixation W600



Plinth fixation W850



Enclosure combinations



E

Pack 250 enclosures

Contents

Pack 250, IP30/IP4X

Presentation
Wall-mounted and floor-standing enclosures **F-2**
Wall-mounted and floor standing enclosures
W600 **F-3**
Wall-mounted and floor standing enclosures + duct
W600 + W300 **F-4**
Installation / Lifting accessories, IP degree level **F-5**
Gland plates, cable running **F-6**
Finishing parts, door accessories **F-7**
Linergy distribution and accessories **F-8**

F

Presentation

Wall-mounted and floor-standing enclosures

Up to 250 A

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

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

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

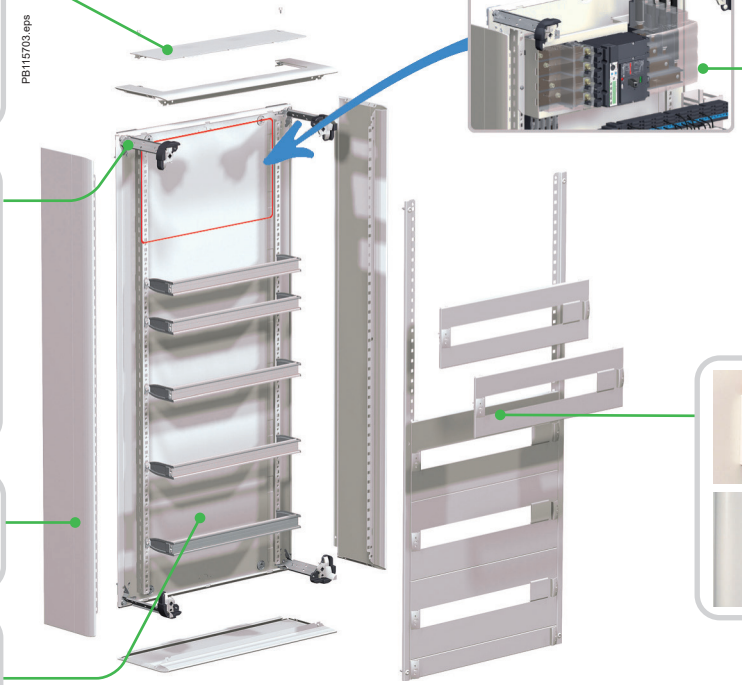
Gland plate
- Dismountable and cuttable

Quick fastening on hook-on rail
- Easy wall mounting

Total accessibility
- Dismountable side panels: flat wiring

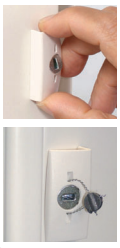
Confortable wiring
- Steel sheet metal with inside painting, not aggressive for the hands of the wiring staffs

Common accessories with PrismaSeT G Active



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

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



Description

Steel sheet metal with electrophoresis treatment + hot-polymerised polyester epoxy powder.
Enclosure:
- width: 595 mm
- height: 630 to 1830 mm
- depth: 205 mm without door / 261 mm with door (including the handle : 16.6 mm)
- properties of metal enclosures > page G-16

Main characteristics

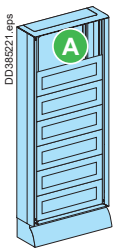
PrismaSeT G Active - **Pack 250 enclosures, IP30/IP4X**	
Rated operational current	In = 250 A, Isc = 50 kA, Icw = 25 kA rms/1 s, Ipk = 52.5 kA
Colour	White colour RAL 9003
Standards conformity	EN 62208, IEC 61439-1-2-3
Degree of protection	IP30 without door IP40 with door IP41 with canopy + door IP43 with canopy + door + gasket
Degree of protection against mechanical impacts	IK07 withour door IK08 with door (transparent) Ik10 with plain door
Seismic characteristics	2.5G without accessory (IEC 60068-2-57)
Isolation	Class 1
Doors	■ Plain or transparent, opening to right or left, 130° ■ By design, electrical continuity of moving parts ■ Supplied with a handle and keylock (key 405) ■ Distance behind door = 58 mm
Mounting	Surface mounting, floor-standing, flush-mounting via a kit

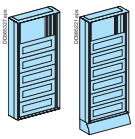
Wall-mounted and floor standing enclosures
W600

Up to 250 A

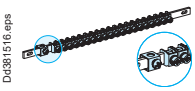
Each enclosure is delivered with H = 150 mm front plates and rails for modular devices (quantity according the number of rows) and a plastic gland plate.

Wall-mounted and floor standing enclosures W600





Optional



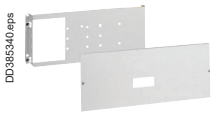
Capacity		Nb of row + Zone A to complete height 300 mm (6 modules)	H x W x D (in mm)	Wall-mounted and floor-standing	Plain door (1)	Transparent door (1)	Earth bar with 40 staples (16 mm²) and 1 incoming terminal (35 mm²)
9-mm pitches	18-mm modules						
Wall-mounted							
96 + 96	48 + 48	**2R +** A	630 x 600 x 205	**LVS08064**	**LVS08124**	**LVS08134**	1
144 + 96	72 + 48	**3R +** A	780 x 600 x 205	**LVS08065**	**LVS08125**	**LVS08135**	1
192 + 96	96 + 48	**4R +** A	930 x 600 x 205	**LVS08066**	**LVS08126**	**LVS08136**	1
240 + 96	120 + 48	**5R +** A	1080 x 600 x 205	**LVS08067**	**LVS08127**	**LVS08137**	2
288 + 96	144 + 48	**6R +** A	1230 x 600 x 205	**LVS08068**	**LVS08128**	**LVS08138**	2
336 + 96	168 + 48	**7R +** A	1380 x 600 x 205	**LVS08069**	**LVS08222**	**LVS08232**	2
Floor-standing							
336 + 96	168 + 48	**7R +** A	1580 x 600 x 205	**LVS08072**	**LVS08222**	**LVS08232**	2
384 + 96	192 + 48	**8R +** A	1730 x 600 x 205	**LVS08073**	**LVS08223**	**LVS08233**	2
432 + 96	216 + 48	**9R +** A	1880 x 600 x 205	**LVS08074**	**LVS08224**	**LVS08234**	2

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

Zone A to complete depending on the incoming device

Zone A (H = 300 mm) to complete

LVS03260



LVS03264

Zone A incoming device	Cat. no.	Composition
Modular devices ≤ 40 A (2 rows)	**LVS03001** x 2 + **LVS03203** x 2	2 modular rails 2 modular front plates (H = 2 x 150 mm)
Modular devices ≤ 63 A (1 row)	**LVS03001** + **LVS03204** + **LVS03802**	1 modular rail 1 modular front plate H = 200 mm 1 plain front plate H = 100 mm
ComPacT INS-INV40-160, NG125, Vigi NG125, C120, Vigi C120 + Modular devices Acti 9	**LVS03260**	1 modular rail + 1 modular front plate H = 250 mm + 1 plain front plate H = 50 mm
NSXm or NSXm Vigi + modular devices	**LVS03261**	1 adjustable modular rail + 1 modular rail + 2 raisers (1) + 1 modular front plate H = 250 mm + 1 plain front plate H = 50 mm
ComPacT INS/INV250 horizontal fixed, toggle	**LVS03264**	1 mounting plate + 1 front plate INS/INV250 H = 200 mm + 2 plain front plates H = 50 mm
ComPacT NSX100/250 horizontal fixed, toggle	**LVS03030** + **LVS03232** + **LVS03802**	1 mounting plate + 1 front plate with cut-out H = 200 mm + 1 plain front plate H = 100 mm
VigicomPacT NSX100/250 horizontal fixed, toggle	**LVS03033** + **LVS03292** + **LVS03802**	1 mounting plate + 1 front plate with cut-out H = 200 mm + 1 plain front plate H = 100 mm
FuPacT ISFT160, horizontal fixed	**LVS03121** + **LVS03326** + **LVS03801** + **LVS03802**	1 mounting plate + 1 front plate with cut-out H = 150 mm + 1 plain front plate H = 50 mm + 1 plain front plate H = 100 mm
FuPacT ISFT250, horizontal fixed	**LVS03124** + **LVS03328** + **LVS03801**	1 mounting plate + 1 front plate with cut-out H = 250 mm + 1 plain front plate H = 50 mm

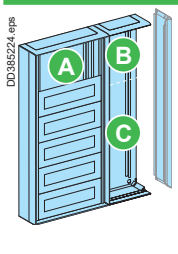
(1) To add modular devices to the row.

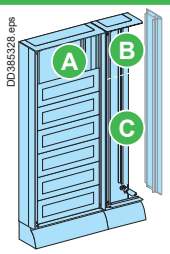
F

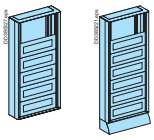
Wall-mounted and floor standing enclosures + duct
W600 + W300

Up to 250 A

Wall-mounted and floor standing enclosures W600 + Ducts W300





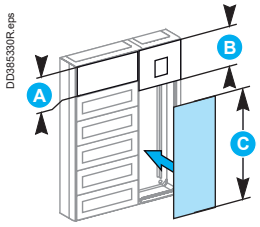


Nb of row + Zone A to complete height 300 mm (6 modules)	Height in mm	Wall-mounted and floor-standing	Optional: Plain door (2)	Optional: Transparent door (2)	Ducts (1)	Optional: Plain door	Optional: Transparent door	Earth bar with 40 staples
Wall-mounted								
2R + A	630	LVS08064	LVS08124	LVS08134	LVS08174	LVS08184	-	1
3R + A	780	LVS08065	LVS08125	LVS08135	LVS08175	LVS08185	-	1
4R + A	930	LVS08066	LVS08126	LVS08136	LVS08176	LVS08186	-	1
5R + A	1080	LVS08067	LVS08127	LVS08137	LVS08177	LVS08187	LVS08197	2
6R + A	1230	LVS08068	LVS08128	LVS08138	LVS08178	LVS08188	LVS08198	2
7R + A	1380	LVS08069	LVS08222	LVS08232	LVS08179	LVS08282	LVS08292	2
Floor-standing								
7R + A	1580	LVS08072	LVS08222	LVS08232	LVS08272	LVS08282	LVS08292	2
8R + A	1730	LVS08073	LVS08223	LVS08233	LVS08273	LVS08283	LVS08293	2
9R + A	1880	LVS08074	LVS08224	LVS08234	LVS08274	LVS08284	LVS08294	2

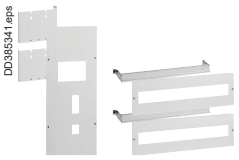
(1) Supplied with a combination kit for enclosure + duct association.
(2) Reversible doors, opening to left or right, equipped with a handle and keylock (key 405).

Zone A to complete with 2 rails (Ref. LVS03001) + 2 front plates (Ref. LVS03203)

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



Location of zones to complete



LVS03267

Incoming device Zone B	Cat. no.	Composition
ComPacT INV250	LVS03267	1 mounting plate INV 1 front plate INV 2 modular rails L = 600 mm 2 front plates L = 600 mm
ComPacT NSX100/250 Vertical fixed, toggle	LVS03050 + LVS03253	1 mounting plate 1 front plate
FuPacT ISFT160 Vertical fixed, toggle	LVS03123 + LVS03327 + LVS03813	1 mounting plate 1 front plate H = 300 mm 1 front plate H = 150 mm
FuPacT ISFT250 Vertical fixed, toggle	LVS03125 + LVS03329	1 mounting plate 1 front plate

Zone C to complete

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

Cat. no. of the duct	Dimensions of zone C (mm) to complete	Cat. no.
LVS08174	150	LVS03813 x 1
LVS08175	300	LVS03816 x 1
LVS08176	450	LVS03817 x 1
LVS08177	600	LVS03816 x 2
LVS08178	750	LVS03815 x 3
LVS08179	900	LVS03816 x 3
LVS08272	900	LVS03817 x 2
LVS08273	1050	LVS03817 x 2 + LVS03813 x 1
LVS08274	1200	LVS03816 x 4

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

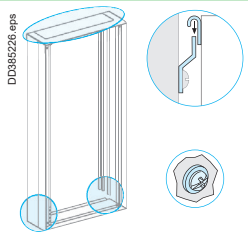
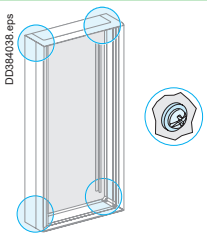
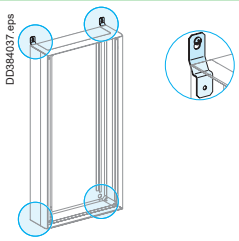
Height (mm)	Cat. no.
50	LVS03811 (3)
100	LVS03812
150	LVS03813
200	LVS03814
250	LVS03815
300	LVS03816
450	LVS03817

(3) Mounting 1 module front plate (LVS03811) on the extreme top or bottom is not allowed.

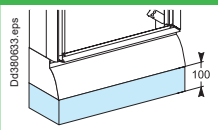
Up to 250 A

Installation possibilities

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

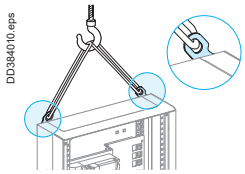
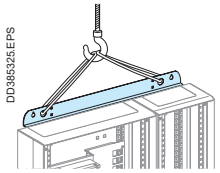
	Hook-on rail system	Mounting via the inside	Mounting using the external wall-mounted brackets
			
Catalog numbers	Delivered with the enclosure	-	**LVS08804**
Characteristics	The enclosure comes with 2 cross-members secured to the back of the enclosure (top and bottom) and a support rail (with levelling adjustment) for screw-mounting on the wall. The enclosure is easily mounted on the hook-on rail system. End the fixation with 2x 8mm diameter screws, at the bottom of enclosure	The enclosure can be mounted through the spacers in the 4 holes provided on the enclosure using 8 mm diameter screws (2 knockouts can be removed if necessary to provide 2 other holes).	4 external wall-mounted brackets.

Plinth raiser

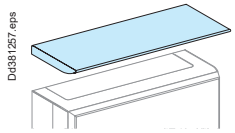
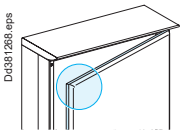
Plinth raiser		
		
Catalog numbers	**LVS08805**	**LVS08807**
Characteristics	For basic floor-standing enclosure or extension W = 600 mm	For a duct W = 300 mm

Lifting accessories

The lifting rings are used to move a single wall-mounted or floor-standing enclosure. For combined enclosures, use the lifting/reinforcement cross-members (see below).

	2 lifting rings for single wall-mounted or floor-standing enclosures	Lifting/reinforcement cross-members for combined enclosures
		
Catalog numbers	**LVS08801**	**LVS08812**
Characteristics	Set of two lifting rings	Have 2 types of holes: for lifting and for mounting on a wall

Accessories to increase the degree of protection IP

	Canopy to increase the IP value from IP30 to IP31 (1)		Gasket for the door to increase the IP value from IP31 to IP43
			
Used with	**1 wall-mounted enclosure**	**1 wall-mounted enclosure + 1 duct (2)**	**Enclosures or a duct from 6 to 36 modules**
Catalog numbers	**LVS08830**	**LVS08832**	**LVS08841**
Designation	The addition of a canopy over a wall-mounted or floor-standing enclosure equipped with a door ensures compliance with the degree of protection IP41.		When the switchboard is equipped with a canopy, a gasket for the doors ensures compliance with the degree of protection IP43. L = 5.3 m

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

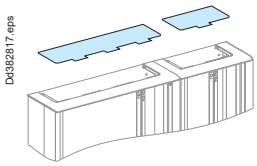
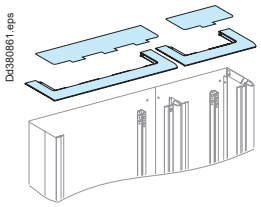
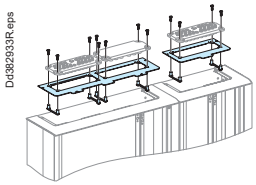
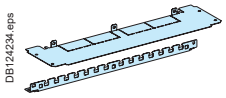
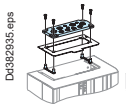
F

Gland plates, cable running

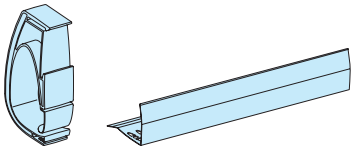
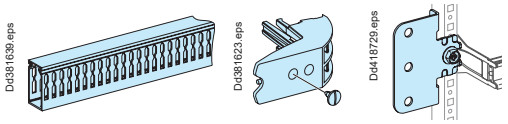
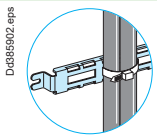
Up to 250 A

Gland plates

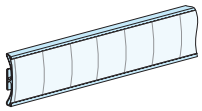
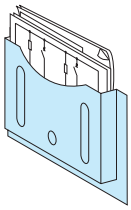
Enclosures (wall-mounted, floor-standing, ducts) are supplied with a plastic gland plate installed on the top or bottom for wall-mounted enclosures and the top for floor-standing enclosures.
The existing plastic gland plate can be replaced by this metal gland plate or by an interface plate with cut-out.

Wall-mounted and floor-standing W600 and duct W300	Pages
Plain metal gland plates	
	E-12
Metal plates with cut-outs + plastic gland plates	
	E-12
Metal plate with cut-outs	
	E-12
Metal gland plates for plinth	
	E-7
Gland plates, plain with knockouts or membrane-type	
	E-12

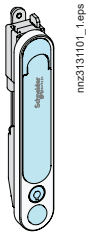
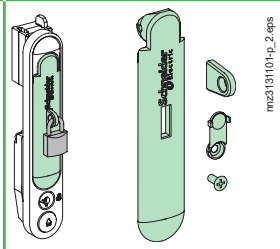
Cable running

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

Up to 250 A

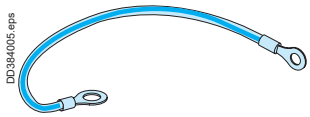
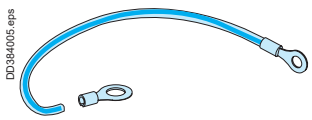
Labels	Pages
Adhesive labels	
	C-45
Adhesive drawing holder	
	C-45

Door handles and padlocking *See page E-13*

	Rotary handle	Padlocking
		
Catalog numbers	**LVS01218**	**LVS07938**
Characteristics	New rotary handle - RAL 9003	For new rotary handle

Earthing braid

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

	Earthing braid, 6 mm²	Earthing wire, 6 mm²
		
Catalog numbers	**LVS08910**	**LVS08911**
Characteristics	Equipped with a 4 mm diameter lug at one end and a 6 mm diameter lug on the other L = 200 mm	Equipped with a 5 mm diameter lug at one end and a 6 mm diameter lug on the other. L = 200 mm

Spare parts

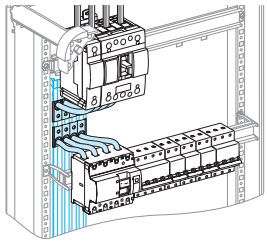
> see pages E-14 to E-16.

Dimensions

> see page E-17.

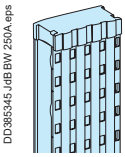
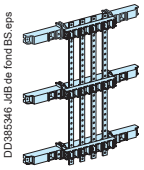
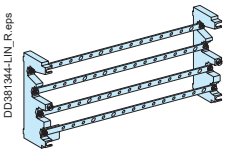
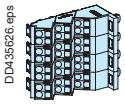
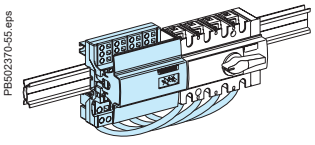
F

Up to 250 A



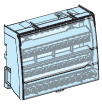
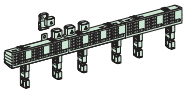
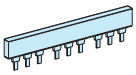
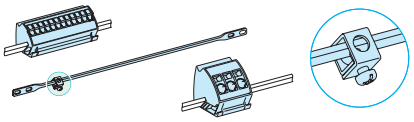
Presentation

At the head of a switchboard, the incoming device can be supplied by one of the following:
- busbars mounted in rear of the enclosure
- centralised distribution blocks
- row distribution blocks.

Linergy distribution		Catalog numbers	Pages
Linergy BW insulated busbars up to 250 A			
	125 A	**LVS04103, LVS04104, LVS04107, LVS04108**	D-4
	160 A	**LVS04111, LVS04121, LVS04116, LVS04126**	
	250 A	**LVS04112, LVS04122, LVS04117, LVS04127**	
Linergy BS rear busbars			
	160 A	**LVS04161, LVS04171**	D-6
	250 A	**LVS04162, LVS04172**	
	Support	**LVS04191**	
Linergy BS multi-stage distribution block up to 250 A / Linergy BS multi-stage busbars up to 250 A			
	**Complete**		D-7, D-8
	160 A	**LVS04052**	
	250 A	**LVS04053**	
	To be assembled		
	160 A	**LVS04161, LVS04171**	
	250 A	**LVS04162, LVS04172**	
Linergy DP quick distribution blocks 160 A / Linergy DP quick distribution blocks 250 A			
	NSXm up to 160 A	**LVS04038 (3P)**	D-13
	NSXm up to 160 A	**LVS04039 (4P)**	
	NSX100 to 250 A	**LVS04033, LVS04155 (3P)**	D-12
	NSX100 to 250 A	**LVS04034, LVS04156 (4P)**	
Linergy DX distribution block			
	63 A	**LVS04040, LVS04041 (4P)**	D-10, D-11
	125 A	**LVS04045 (4P)**	
	160 A	**LVS04031 (1P), LVS04046 (4P)**	

Note: see pages C-53, C-50 for prefabricated connections.

Up to 250 A

Linergy distribution		Catalog numbers	Pages
Linergy DS screw distribution blocks			
 DD385267.eps	100 A 125 A 160 A 250 A	**LGY410028** **LGY112510, LGY416048, LGY412560** **LGY116013, LGY412548** **LGY125014**	D-14, D-15
Linergy FM quick device feeders			
 DD381674-LIN.eps	63 A 80 A 160 A 200 A	**LVS04008 (4P)** **LVS04004 (4P)** **LVS04018 (4P)** **LVS04012 (1P+N), LVS04013 (3P), LVS04014 (4P)**	D-16, D-17
Horizontal comb busbars Linergy FH			
 DD382484.eps			D-18 to D-22
Linergy TB earth bar, neutral bar			
 DD381560-LIN.eps		**LVS04201, LVS04214, LVS04215, LVS04200, LVS04202, LVS04210**	D-23

Note: see pages C-53, C-50 for prefabricated connections.

F

Additional information

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G

Designing PrismaSeT power circuits
Presentation and approach

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

PB115625_65.eps

In the following pages you will find a number of examples, validated for PrismaSeT switchboards, intended to assist in determining the busbars as well as the upstream and downstream connections for the installation.
The examples assume that the devices have already been selected.
A complete process involves a number of steps before making final choices (transformer, conductors, protection, etc.).
Schneider Electric offers a number of tools to assist in designing a complete installation (technical guides, software).

Busbar sizing

The factors that must be taken into account in determining the size of busbars include:

- the diversity factor.

Not all the loads supplied by a set of busbars are used at full rated load or at the same time. The diversity factor is the means to determine the maximum load current used to size the busbars.

Standard IEC 61439-1 and 2 §4.7 specifies the table below:

Number of circuits	Rated diversity factor (RDF)
2 and 3	0.9
4 and 5	0.8
6 and 9	0.7
10 and more	0.6

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

Supply of devices for outgoers ⩽ 630 A

Flexible copper bars with an insulating cover.

To determine the required sizes for flexible bars, see the tables starting on *> see page G-3* which indicate the correct size for each type of connected device.

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

Cables

To determine the cables required, see the tables. on *> see page G-5*.
They can be used to determine:

- the size of cables as a function of:
  - the circuit breaker rating
  - the current
  - the ambient temperature around the switchboard
- the permissible current for individually tied cables or touching cables as a function of:
  - the size of the cables
  - the degree of protection for the switchboard.

Rapsody software
Easy design with
> see page B-20

Electrical characteristics

Flexible copper bars with an insulating sheath

Switchboards that comply with standard IEC 61439-1 and 2

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

Insulated flexible bars are better solution than cables:

- better insulation temperature withstand (125 °C for bars, 105 °C for cables) and a larger exchange surface for an equivalent size, i.e. a smaller size for a given current
- greater rigidity offering better electrodynamic characteristics for short-circuit currents
- no intermediate parts (lugs) for a direct connection between the device and the busbars therefore less temperature rise and less risk of error
- fast implementation of prefabricated connections already cut to length, formed and drilled.

Technical characteristics
- thickness of the insulation: variable depending on the bar size, 2 mm on average
- rated insulation level Ui = 1000 V
- impulse withstand voltage Uimp = 12 kV
- maximum withstand temperature of insulating material = 125 °C.

Connection

In all enclosures with IP ⩽ 55
- the switchboard internal temperature is 60 °C
- the withstand temperature of the insulating material is 125 °C.

If the withstand temperature of the insulation is only 105 °C, use the next largest flexible bar.
The bar sizes (S) indicated below take into account the derating curves of devices.

Connection of devices and distribution blocks to busbars

Device	INS-INV125	INS-INV160	INS-INV250	INS-INV320 INS-INV400	INS-INV500 INS-INV630	GS250 ISFT250	GS400 ISFT400	GS630 ISFT630
S (mm)	20 x 2	20 x 2	20 x 3	32 x 5	32 x 6	24 x 5	32 x 5	32 x 8

To connect a ComPacT NSX250 to Linergy BW busbars, use a 24 x 5 mm flexible bar (LVS04746).

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

Disconnectors, terminal blocks, connections, busbars to busbars

I max. (60 °C)	200 A	250 A	400 A	400 A	480 A	520 A	580 A	660 A
S (mm)	20 x 2	20 x 3	24 x 5	24 x 5	24 x 6	32 x 5	32 x 6	32 x 8

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

G

Designing connections ⩽ 630 A
ComPacT circuit breakers NSX100 to 630

Electrical characteristics

ComPacT NSX100 to NSX250

Insulated flexible copper bars

Devices		Rated current of a circuit I_{nc} (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
IP ⩽ 55							
NSX100 TMD-TMG	Size per phase	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2
	I_{nc} (A)	100	97.5	95	92.5	90	85
NSX125 TMD-TMG	Size per phase	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2
	I_{nc} (A)	125	122	119	116	113	100
NSX160 (1) TMD-TMG	Size per phase	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3
	I_{nc} (A)	160	156	152	147	144	140
NSX250 (1) TMD-TMG	Size per phase	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3
	I_{nc} (A)	250	244	238	231	225	198
NSX100 STR	Size per phase	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2	20 x 2
	I_{nc} (A)	100	100	100	100	100	100
NSX160 STR	Size per phase	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3
	I_{nc} (A)	160	160	160	160	160	160
NSX250 (2) STR	Size per phase	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3	20 x 3
	I_{nc} (A)	250	250	237.5	237.5	225	225

ComPacT NSX400 to NSX630

Insulated flexible copper bars

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

Note: the values indicated above have been validated for PrismaSeT switchboards.
(1) For a withdrawable NSX160 or NSX250 equipped with a Vigi or NSX Vigi (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 (ELCB) or an insulation-monitoring module, multiply the In values by 0.86.

Cables

Schneider Electric provides cabling recommendations according to the rating of the circuit breaker.
The size of cables must be selected according to:

- the level of current
- the ambient temperature around the conductors
- the degree of protection for the switchboard.

When mounting Schneider Electric prefabricated connections, short terminal shields can be used or not if the function is already integrated in prefabricated connections.
Note: For some devices, it is recommended to use Schneider Electric prefabricated connections. If not, switchgears must be equipped with long terminal shields for personnel safety.

ComPacT NSX100 to NSX250

Copper cable, withstand temperature = 105 °C

Devices		Rated current of a circuit I_{nc} (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
IP ⩽ 55							
NSX100 TMD-TMG	Size per phase (mm²)	50	50	50	50	50	50
	I_{nc} (A)	100	97.5	95	92.5	90	85
NSX125 TMD-TMG	Size per phase (mm²)	70	70	70	70	70	70
	I_{nc} (A)	125	122	119	116	113	100
NSX160 (1) TMD-TMG	Size per phase (mm²)	95	95	95	95	95	95
	I_{nc} (A)	160	156	152	147	144	140
NSX250 (1) TMD-TMG	Size per phase (mm²)	120	120	120	120	120	120
	I_{nc} (A)	250	244	238	231	225	198
NSX250 (1) Withdrawable TMD-TMG	Size per phase (mm²)	120	120	120	120	120	120
	I_{nc} (A)	238	231	223	215	204	195
NSX100 STR	Size per phase (mm²)	50	50	50	50	50	50
	I_{nc} (A)	100	100	100	100	100	100
NSX160 STR	Size per phase (mm²)	95	95	95	95	95	95
	I_{nc} (A)	160	160	160	160	160	160
NSX250 (2) STR	Size per phase (mm²)	120	120	120	120	120	120
	I_{nc} (A)	250	250	237.5	237.5	225	225

ComPacT NSX400 to NSX630

In case of cable connection

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

(1) For a withdrawable NSX160 or NSX250 equipped with a Vigi or an insulation-monitoring module, multiply the In values by 0.9.
(2) For a withdrawable NSX250 equipped with a Vigi or an insulation-monitoring module, multiply the In values by 0.86.
Note: the values indicated above have been validated for PrismaSeT switchboards.

ComPacT NSXm up to 160

Copper cable, withstand temperature = 105°C

Devices		Rated current of a circuit I_{nc} (A)					
		Ambient temperature around the switchboard					
		25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
IP ⩽ 55							
NSXm100 TMD	Size per phase (mm²)	50	50	50	50	50	50
	I_{nc} (A)	96	94	90	87	83	80
NSXm125 TMD	Size per phase (mm²)	70	70	70	70	70	70
	I_{nc} (A)	120	117	113	109	104	100
NSXm160 TMD	Size per phase (mm²)	95	95	95	95	95	95
	I_{nc} (A)	156	152	148	144	139	133
NSXm Vigi (ELCB) 100	Size per phase (mm²)	50	50	50	50	50	50
	I_{nc} (A)	100	100	100	100	96	93
NSXm Vigi (ELCB) 160	Size per phase (mm²)	95	95	95	95	95	95
	I_{nc} (A)	160	155	150	145	140	135

Note: For use of NSXm in PrismaSeT Pack multiply the Inc values by 0.98.

Designing connections ⩽ 630 A

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

Electrical characteristics

ComPacT NSX100 to NSX630

Horizontal mounting

Determining the permissible current of NSX100 to NSX630 connection and power supply blocks as a function of the ambient temperature around the switchboard and their IP degree of protection.

Device				Rated current of a circuit I_{nc} (A)											
				Ambient temperature around the switchboard											
				25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
				IP ⩽ 31	IP > 31	IP ⩽ 31	IP > 31	IP ⩽ 31	IP > 31	IP ⩽ 31	IP > 31	IP ⩽ 31	IP > 31	IP ⩽ 31	IP > 31
NSX100 TMD-TMG	Incoming connection block	via the top	LVS04066	100	95	100	92	100	90	97	87	95	85	92	■
		via the bottom	LVS04067												
	Power supply block		LVS04060												
NSX100STR	Incoming connection block	via the top	LVS04066	100	100	100	97	100	95	100	92	100	90	97	■
		via the bottom	LVS04067												
	Power supply block		LVS04060												
NSX160 TMD-TMG	Incoming connection block	via the top	LVS04066	160	152	160	147	160	144	156	140	152	136	147	■
		via the bottom	LVS04067												
	Power supply block		LVS04060												
NSX160STR	Incoming connection block	via the top	LVS04066	160	160	160	156	160	152	160	147	160	144	156	■
		via the bottom	LVS04067												
	Power supply block		LVS04060												
NSX250 TMD-TMG	Incoming connection block	via the top	LVS04066	238	213	231	207	225	200	219	193	213	185	207	■
		via the bottom	LVS04067												
	Power supply block		LVS04060												
NSX250STR	Incoming connection block	via the top	LVS04066	250	219	245	213	238	207	225	200	219	193	213	■
		via the bottom	LVS04067												
	Power supply block		LVS04060												
NSX400B/F/ N/H/S/L fixed	Incoming connection block		LVS04076	400	360	390	350	380	340	370	330	360	320	350	■
	Power supply block		LVS04070												
NSX630B/F/ N/H/S/L fixed	Incoming connection block		LVS04076	570	520	555	505	540	490	525	470	510	450	495	■
	Power supply block		LVS04071												

Note: the values indicated above have been validated for PrismaSeT switchboards.
■ connection not possible.

The indicated performance characteristics are valid for:
- ComPacT NSX100/160/250/400 circuit breakers used as incoming or outgoing devices
- ComPacT NSX630 circuit breakers used as incoming device.

Designing connections with cables

Tubular lugs

Tubular lugs for incoming connection blocks

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

	Standard Cu lugs	*Narrow Cu lugs*	*Narrow bimetal lugs*
Incoming connection block for NSX-INS-INV250 supplied via the top or bottom, cat. no. LVS04066 and LVS04067	150 mm²	240 mm²	185 mm²
In-duct incoming connection block for NSX630, cat. no. LVS04076	240 mm²	300 mm²	300 mm²

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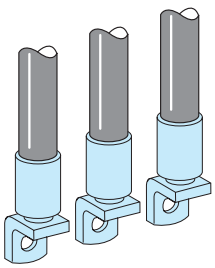


Narrow bimetal lugs

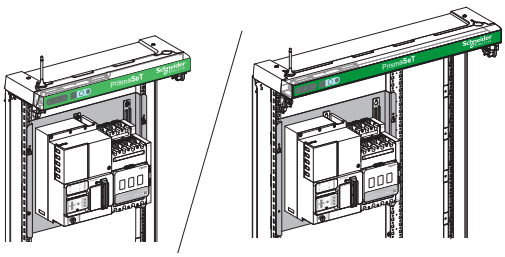
Catalog numbers selection

Catalog numbers	*Cable size (mm²)*	*Quantity*
Lugs for aluminium cable(1)		
LV429504	150	3
LV429505	150	4
LV429506	185	3
LV429507	185	4
LV432504	240	3
LV432505	240	4
LV432506	300	3
LV432507	300	4

(1) Supplied with 2 or 3 interphase barriers.

Designing connections ⩽ Frame 250

TransferPacT Active Automatic/Automatic/Remote Frame 250



Cables

Schneider Electric provides cabling recommendations according to the rating of the TransferPacT switch.
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.

Note: When mounting, TransferPacT devices must be equipped with long terminal shield for personnel safety.

TransferPacT Frame 250

Copper cable, withstand temperature = 105 °C

Vertical Mounting

Front Connection

Incoming Top Connection - Cable

Outgoing Bottom Connection - Cable

Incoming and Outgoing Connections - Cable

Cable Used 120mm²

Devices		Permissible Current (A)											
		Ambient temperature around the switchboard											
		25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
IP ⩽ 55	Cable Size	IP ⩽ 31	IP > 31	IP ⩽ 31	IP > 31	IP ⩽ 31	IP > 31	IP ⩽ 31	IP > 31	IP ⩽ 31	IP > 31	IP ⩽ 31	IP > 31
TransferPacT 250	Size per phase (mm²)	120	120	120	120	120	120	120	120	120	120	120	120
	I (A)	250	250	250	250	250	250	250	240	250	235	240	225

Designing Connection with Cable

Tubular Lugs

Note: The values indicated above have been validated for PrismaSeT G Active switchboards.
Select Copper or Aluminium lugs using TransferPacT device catalog along with the respective cable size.

Electrical characteristics

Size of PEN protective conductor

Practical guidelines

The size of the PEN is determined in the same manner as a neutral conductor, i.e.:
- for copper single-phase circuits or sized y 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.

Implementing the PEN protective conductor

Practical guidelines

According to standard IEC 61439-1 and 2, the practical guidelines for implementing the PEN are the following:
- at the entry to the assembly, the PEN connection must be next to the phase connections
- within the assembly, the PEN does not need to be insulated from the exposed conductive parts (except on sites where there is a risk of fire or explosion)
- the size of the conductor must be at least equal to that of the neutral
- the size must remain constant throughout the main busbars
- the change from a TNC to a TNS system must take place at a single point in the switchboard, via a marked neutral-disconnection bar that is accessible and can be dismantled to facilitate the impedance measurement of the fault loop
- after the TNS creation point, it is forbidden to recreate a TNC system.

The PE and the neutral must meet their specific requirements.

Electrical characteristics

- To ensure protection of persons, first connect the switchboard protective conductor to the earth electrode.
- Tie the cables as close as possible to the connections to avoid any mechanical stresses on the device terminals. When not using cable glands, also attach the cables near to the electrical switchboard.
- Cables must never be in contact with or passed between live conductors.
- Sharp edges of the framework must be protected where cables pass to avoid damaging the conductors.
- Comply with a minimum radius of curvature of 6 to 8 times the cable outside diameter.
- All power connections must be made with class 8.8 mounting hardware and elastic contact washers, tightened to the torque indicated in the table below.
- When connecting aluminium cables to copper terminals, use bimetal lugs or interfaces.
- Separate the different types of circuits into separate cable bundles (power, control, 48 V, 24 V, DC, AC, etc).

Cable bundles

Cable cross-sectional area (mm^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

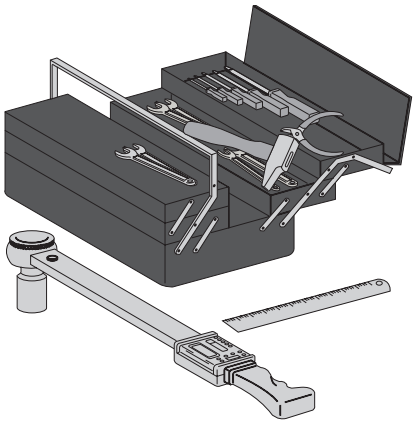
For cable sizes of 50 mm^2 or more, use 9 mm wide fixing ties.

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

Tools required for mounting and connection

DD383904.eps



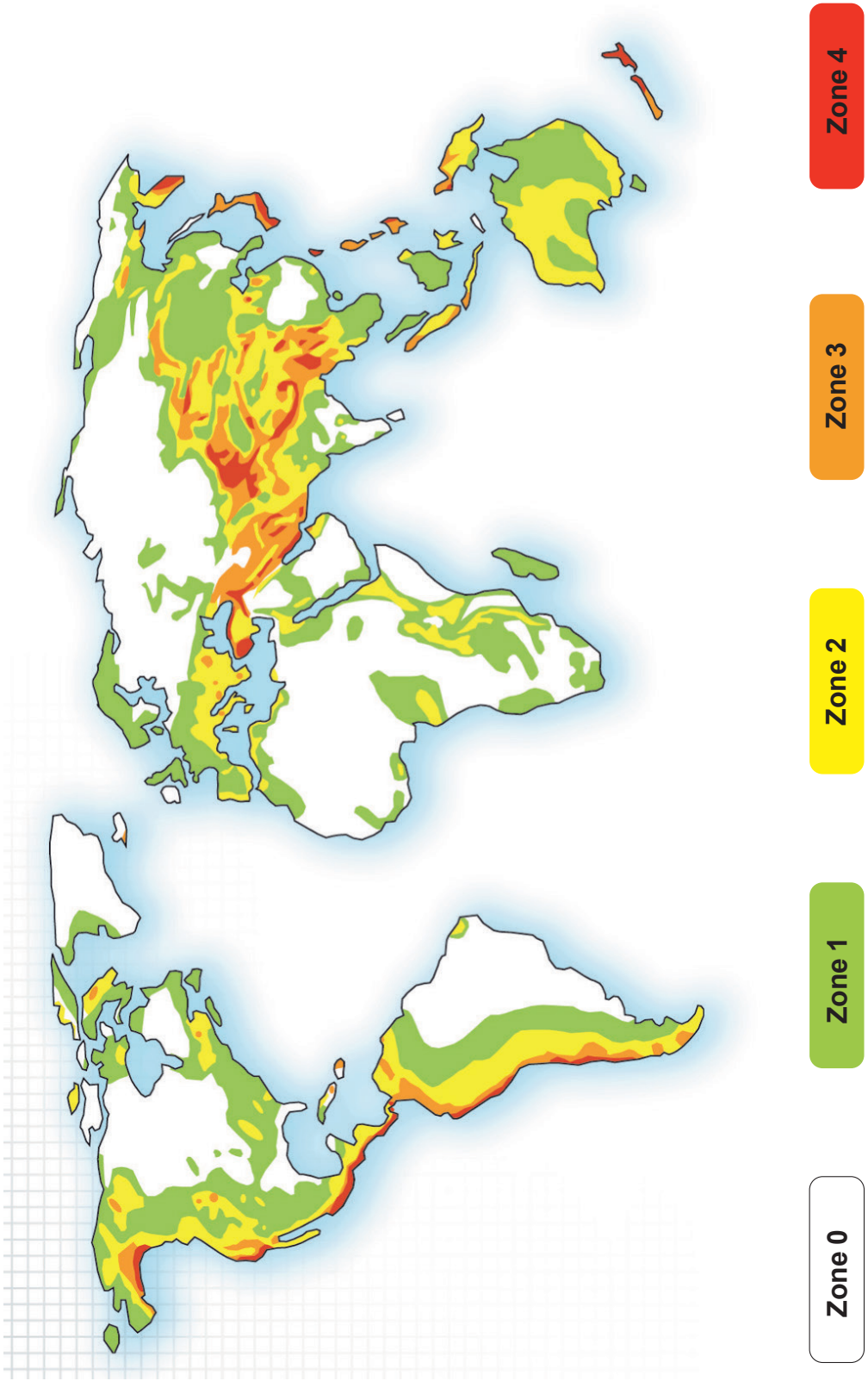
Practical information

- Vacuum cleaner to clean the switchboards
- Ratchet wrench with sockets
- Torque wrench with sockets and ring bits to tighten the electrical connections to the correct torque (max. torque 50 Nm)
- Open-ended spanners (15 to 27 mm)
- Electrician's knife
- 7, 8, 10, 13, 16, 17 and 19 mm sockets
- Bit holder socket
- 4, 5, 6, 8 and 10 mm hexagonal-head bits
- Pozidriv no. 1, 2 and 3 bits
- Rubber mallet
- Level
- Measurement and inspection tools and instruments
- Drill
- Semi-circuit nosed pliers
- Cable-tie pliers
- Wire stripper
- Crimping tool
- Diagonal cutter
- Wire cutters
- Flat-nosed pliers
- Bit holder for screwdriver
- Extension
- Electric saw
- Jig saw
- Clamp for cubicle alignment
- Buzzer or tester
- 3, 4, 5, 5.5 and 8 mm flat screwdrivers
- 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
- LoRA tester
- Smartphone or Tablet

PrismaSeT G Active seismic

Seismic zone

Around the world can be found different zones with a specific seismic risk.
These zones have been classified according to the Uniform Building Code (UBC).



PrismaSeT G Active seismic

Switchboard qualification

Tests are carried out on switchboards to ensure that they operate correctly (structural and functional integrity) under severe earthquake conditions and meet specific safety requirements.
The tests carried out to qualify these switchboards are described in the international standard IEC 60068-3-3.

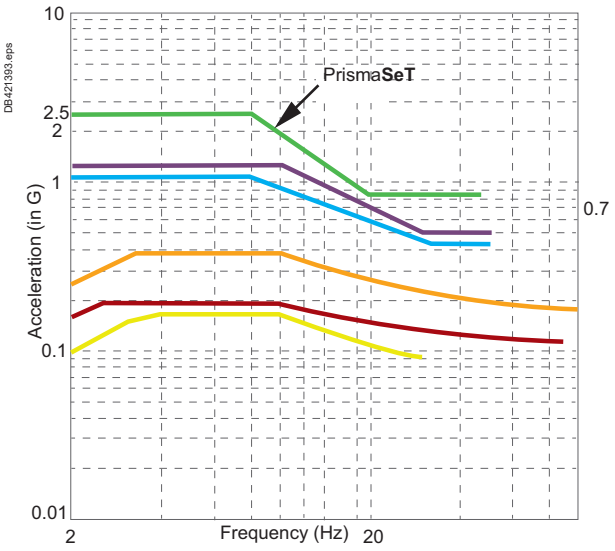
Classification

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

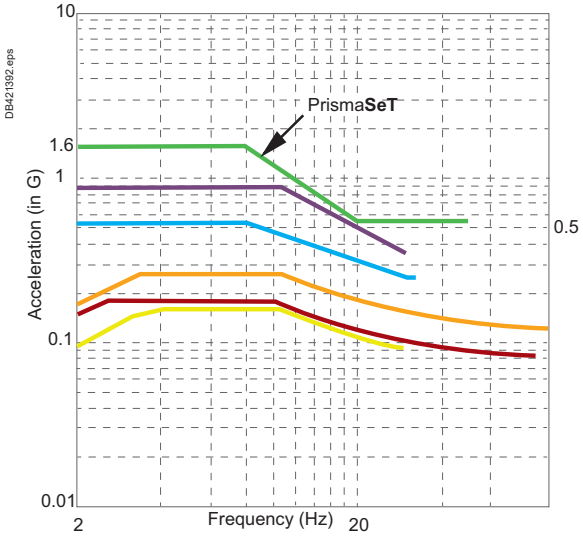
IEC 60068 -3-3 Ground acceleration	Seismic characteristics			
References	General description	Richter scale magnitude	MSK Intensity	UBC Zone
AG2	Intensity from weak to average	< 5 .5	< VIII	0 1
AG3	Intensity from average to strong	5.5 to 7.0	VIII to IX	2 3
AG5	Intensity from strong to very strong	> 7.0	> IX	4

PrismaSeT G Active is compliant up to level AG5 from IEC 60068-3-3 (2,5G) :

Compare PrismaSeT G Switchboards Performances with seismic Standard Damping % - **horizontal**



Compare PrismaSeT G Switchboards Performances with seismic Standard Damping % - **vertical**



Country	Standard	Parameters
PrismaSeT G Active	IEC60068-3-3	Up to level AG5
Russia	GOST 17516.1-90	Civil Market (Seismic intensity 8, all installation levels) or (Up to Seismic Intensity 9, Level 1 only)
Chile	ENDESA 1986	All seismic categories
Turkey	Seismic Turkish Code 2009	All seismic zones, all site class
Greece	EAK 2000	All soil types, Worst case
Australia	AS1170	All soil types, Worst case

Warning: use the seismic kit **LVS04130** when using linergy BW *> see page D-4*

What is a standard?

A common reference

"A standard helps to define a common language between economic stakeholders (producers, users and consumers), to clarify and harmonize practices and to define the levels of quality, safety, compatibility, and least environmental impact of products, services and practices.
Standards facilitate trade, both national and international, and help to better structure the economy and facilitate the everyday life of everyone."

Afnor definition

IEC international standards

The IEC (International Electrotechnical Commission) is a worldwide organisation for standardisation comprising all national electrotechnical committees (IEC National Committees).
The object of the IEC is to promote international cooperation on all questions concerning standardisation in the electrical and electronic fields.
To that end, the IEC publishes International Standards.
Their preparation is entrusted to technical committees and any IEC National Committee interested in the subject dealt with may participate in the preparatory work.

National standards

In Europe

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

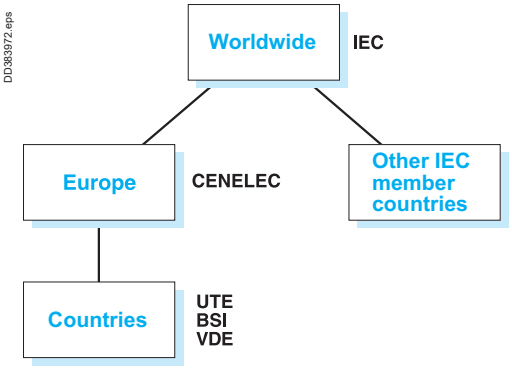
- either a European standard (EN), often identical to the IEC standard, which then becomes the applicable national standard in all the member countries
- or, in the event of differences, a harmonisation document (HD).

Other IEC member countries

Each country is autonomous and can accept the IEC standard as the national standard, with or without modifications.
Even though they are IEC members, countries such as Japan and the United States continue to develop their own standardisation systems.

Countries without a standardisation system

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

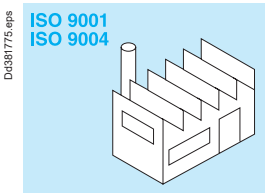


CEI / IEC
Commission Electrotechnique Internationale
CENELEC
Comité Européen de Normalisation ELECtrotechnique
UTE
Union Technique de l'Électricité
VDE
Verband der Elektrotechnik, Elektronik und Informationstechnik e.v. (German electrotechnical, electronics and computer technology standardisation organisation)
BSI
British Standards Institution

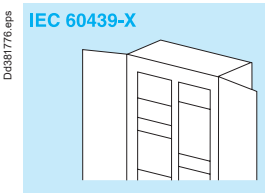
G

The different types of standards

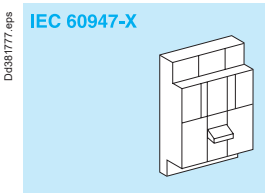
There are different types of standards, including:
- management standards
- installation standards
- product standards.



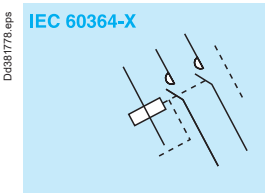
Design and manufacture.



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.

Low voltage installation standards

The set of IEC 60364 standards defines the main principles and rules for the design and the mounting of the electrical installation:
- determining general characteristics of installations
- protection
- selection and installation of equipment
- verification and maintenance of installations.

Switchgears standards

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

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

- The IEC 61439 switchboard standard:
  - characterizes the electrical switchboard and specifies the design, construction and verification rules
  - describes in detail all low voltage switchgear and controlgear: definitions, technical characteristics, conditions of use, and construction and verification requirements
  - applies to power switchgear and controlgear assemblies (PSC assemblies) whose rated voltage does not exceed 1000 V in alternating current or 1500 V in direct current.

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

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

> More informations in *pages B-22* to *B-25*.

Enclosure standards

Standard IEC 62208 lay down definitions, classifications, characteristics and test requirements for enclosures used for switchgear and controlgear assemblies.
They apply to empty enclosures before installation of the devices by the panelbuilder, as supplied by the manufacturer.
They apply to one-piece enclosures and to enclosures supplied in kit form.

Type tests of standard IEC 62208

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

CE marking

CE marking is a regulatory symbol attributed under the sole responsibility of the manufacturer and intended for the verification authorities of the European countries that enforce the European regulations.
It allows free circulation of a product in the European Union and certifies that it complies with the basic requirements in all the applicable European directives.
CE marking is not a quality symbol and does not indicate conformity with a standard

The CE declaration is intended exclusively for the authorities in charge of verifying compliance with the applicable regulations and it is drafted, signed and held for presentation to the authorities by the manufacturer.
For the PrismaSeT 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 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 range, CE marking is applied:
- on the packing of "mechanical" components
- on the product itself for "electrical" components.

For the LV assemblies created by the panelbuilder, CE marking is applied:
- on the packing
- on the rating plate (if applicable)
- on one of the documents accompanying the switchboard when it is shipped.

Standards

Schneider Electric enclosures comply with standard IEC 62208 for empty enclosures. The sheet metal used for Schneider Electric enclosures receives an anti-corrosion epoxy electrophoresis treatment and a coating of a thermosetting, polyester-resinmodified epoxy powder for colour and appearance.
This two-coat system provides excellent finish and corrosion protection.
The characteristics of this coating are much better than those of traditional epoxy powders:

- improved colour stability
- wider operating temperature range.

Mechanical properties of enclosures

Static load on doors, wall-mounted and floor-standing enclosures and cubicles	
Floor-standing enclosure	64 kg
Wall-mounted enclosure	48 kg
Floor-standing enclosure door	4 kg
Wall-mounted enclosure door	4 kg

Mechanical properties of powder coated surfaces

Test conditions
Test piece made of 1 mm thick steel sheet, degreased, iron phosphated, final rinsing with 100000 Ω cm DI water, 15 microns of anti-corrosion electrophoresis treatment and 35 microns of powder paint.

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

Artificial ageing test on powder coating

Test conditions: two tests carried out on the same 1 mm thick steel sheet test piece.

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

Evaluation of corrosion as per ISO 4628:

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

Chemical properties of powder coating

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

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

Film intact.

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

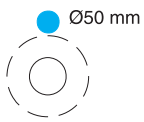
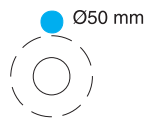
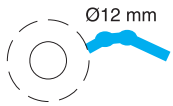
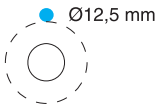
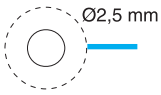
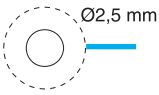
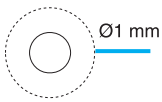
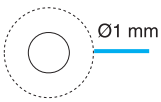
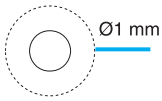
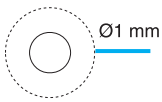
(1) No cracking of the paint film after dropping a weight of one kilogram on the test piece from a height of 50 centimetres.
(2) Film cracks over a length of 10 millimetres maximum.

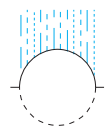
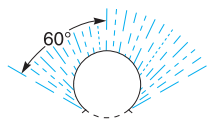
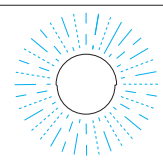
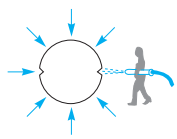
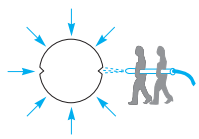
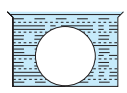
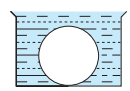
Degree of protection

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

IP code

Standard IEC 60529 (IP code, February 2001) indicates the degrees of protection provided by an enclosure for electrical devices against access to hazardous parts, against penetration of solid foreign objects and against penetration of water.
These standards do not apply for the protection against the risks of explosion or conditions such 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.

	1st numeral Protection of persons		Protection against ingress of solid objects	
1	Protected against access with back of hand	Dd381959.eps 	Protection against solid foreign objects larger than 50 mm	Dd381959.eps 
2	2 Protected against access with a finger	Dd381960.eps 	Protection against solid foreign objects larger than 12.5 mm	Dd381963.eps 
3	Protected against access with a tool	Dd381961.eps 	Protection against solid foreign objects larger than 2.5 mm	Dd381961.eps 
4	4 Protected against access with a wire	Dd381962.eps 	Protection against solid foreign objects larger than 1 mm	Dd381962.eps 
5	Protected against access with a wire	Dd381962.eps 	Protected against dust (dust protected)	Dd381964.eps
6	Protected against access with a wire	Dd381962.eps 	Dust tight	Dd381965.eps

	2nd numeral Protection against ingress of water	
1	Protected against vertically dripping water (condensation)	Dd381966.eps 
2	Protected against dripping water up to 15° from vertical	Dd381967.eps
3	Protected against spraying water up to 60° from vertical	Dd381968.eps 
4	Protected against splashing water from all directions	Dd381969.eps 
5	Protected against water jets from all directions	Dd381970.eps 
6	Protected against powerful water jets from all directions	Dd381971.eps 
7	Protected against the effects of temporary immersion in water	Dd381972.eps 
8	Protected against the effects of continuous immersion in water	Dd381973.eps 
9	Protected against close-range high pressure, high temperature spray downs	

G

Version : 14 - 11/12/2023
150E8200

TOC

Life Is On Schneider Electric

G-17

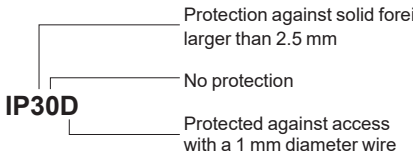
Additional letter

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

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

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

Illustration of the above explanations:



Remarks

- The degree of protection IP must always be read and understood numeral by numeral and not as a whole.

For example, an IP31 wall-mount enclosure is suitable for an environment that requires a minimum degree of protection IP21. However an IP30 wall-mount enclosure is not suitable.

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

IK code

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

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

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

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

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 switchboards are designed for indoor installation.
Unless the rules, standards and regulations of a specific country stipulate otherwise, Schneider Electric recommends the following IP and IK values based on French guide UTE C 15-103 (March 2004).

Using the table

1. Opposite the relevant premises, read the recommended IP and IK values.
2. The ■ symbol indicates the enclosure or cubicle satisfying the criteria of the UTE guide.
   Any enclosure or cubicle with a higher degree of protection can also be used.
3. If several degrees of protection are possible (refer to the standard for more details) and the □ and ■ symbols are indicated (e.g. 24□/25■), enclosures that correspond to the higher degree of protection (■) are suitable for the lower degree of protection (□).

Example:
Selection of an enclosure for a laundry room.
Minimum degree of protection: IP21/IK02
A wall-mounted enclosure with a door (plain or transparent), a canopy and a gasket offer IP43/IK08 degrees of protection and are therefore suitable for this application.

Type of premises	Enclosures						
	Wall-mounted enclosure		without door	with door (1)	with door + canopy (1)	with door + canopy + gasket (1)	IP55
	Floor-standing enclosure		without door	with door (1)	with door + canopy (1)	with door + canopy+ gasket (1)	
	Min. IP/IK required		IP30/IK07	IP40/IK08 - IK10	IP41/IK08 - IK10	IP43/IK08 - IK10	IP55/IK10
	IP	**IK**					
Domestic or comparable premises or locations							
Porch	24	07					■
Bathrooms (see washrooms)							
Bicycles, motorcycles, tricycles, etc. (premises for)	20	07	■				
Water, sewer and heating connections	23	02				■	
Laundries	21	02			■		
Cellars, garages, furnace rooms	20	02/07	■				
Bedrooms	20	02	■				
Trash rooms	25	07					■
Halls in cellars	20	07	■				
Courtyards	24/25	02/07					■
Kitchens	20	02	■				
Shower rooms (see washrooms)							
Indoor stairways and alleys	20	02/07	■				
Outdoor stairways and outdoor alleys without roofs	24	07					
Outdoor alleys with roofs	21	02			■		
Attics (roof space)	20	02	■				
Garden shelters	24/25	02/07					■
Latrines	20	02	■				
Dustbin rooms	25	07					■
Ironing room	20	02	■				
Access ramps to garages	25	07					■

N/A

(1) IK08 with transparent door, IK10 with plain door.

G

Selection of enclosures according to the premises

Enclosure characteristics

Type of premises		Enclosures						
		Wall-mounted enclosure		without door	with door (1)	with door + canopy (1)	with door + canopy + gasket (1)	IP55
		Floor-standing enclosure		without door	with door (1)	with door + canopy (1)	with door + canopy + gasket (1)	
		Min. IP/IK required		IP30/IK07	IP40/IK08 - IK10	IP41/IK08 - IK10	IP43/IK08 - IK10	IP55/IK10
		IP	IK					
Washrooms, rooms containing a bathtub or shower	volume 0	27	02					
	volume 1	24	02					■
	volume 2	23	02				■	
	volume 3	21	02			■		
Lounges, living rooms, etc		20	02	■				
Drying rooms		21	02			■		
Covered terraces		21	02			■		
WCs		20	02	■				
Verandas		20	02	■				
Crawl spaces		23	07				■	
Commercial premises and adjoining areas								
Gunsmiths (storage area, workshop)		30	08		■			
Laundries (wash room)		24	07					■
Butchers	shop	24	07					■
	cold room: ≤ -10 °C	23	07				■	
Bakers, cake shops (kitchens)		50	07					■
Coffee roasters		21	02			■		
Coal, wood, oil		20	08		■			
Delicatessen (production)		24	07					■
Sweets (production)		20	02	■				
Shoe repair shops		20	02	■				
Dairies		24	02					■
Hardware stores (storage areas for chemicals and paint)		33	07				■	
Wood workers		50	07					■
Art galleries		20	02/07	■				
Florists		24	07					■
Furriers		20	07	■				
Fruit and vegetable merchants		24	07					■
Grain shops		50	07					■
Bookshops, stationers		20	02	■				
Motorcycle and bicycle repairs and accessories		20	08		■			
Messenger services		20	08		■			
Furniture shops (antiques, secondhand)		20	07	■				
Glass and mirror merchants (workshop)		20	07	■				
Wallpaper shop (storage area)		20	07	■				
Cosmetics shop (storage area)		20	02	■				
Chemists (storage area)		20	02	■				
Photographers (dark room)		23	02				■	
Plumbers (storage area)		20	08		■			
Fishmongers		25	07					■
Dry cleaners		23	02				■	
Hardware stores (without paint, chemicals, etc.)		20	07	■				
Locksmiths		20	07▫/08▪		■			
Vintners, spirits		20	07	■				
Interior decorator (carding)		50	07					■
Tailors, clothing retailers (storage area)		20	02	■				
Pet care		35	07					■

N/A

(1) IK08 with transparent door, IK10 with plain door.

Selection of enclosures according to the premises

Enclosure characteristics

Type of premises			Enclosures						
			Wall-mounted enclosure		without door	with door (1)	with door + canopy (1)	with door + canopy + gasket (1)	IP55
			Floor-standing enclosure		without door	with door (1)	with door + canopy (1)	with door + canopy + gasket (1)	
			Min. IP/IK required		IP30/IK07	IP40/IK08 - IK10	IP41/IK08 - IK10	IP43/IK08 - IK10	IP55/IK10
			IP	IK					
Buildings open to the general public									
Shared premises of buildings open to the general public		storage rooms	20	08		■			
		packing rooms	20	08		■			
		archive rooms	20	02	■				
		film and magnetic media storage	20	02	■				
		linen rooms	20	02	■				
		laundry rooms	24	07					■
		misc. shops	21	07/08			■		
		kitchens (large)							
J	Reception old and handicapped people		20	02	■				
L	Lecture halls, meeting rooms, auditoriums, halls used for several purposes	halls	20	02/07	■				
		stage areas	20	08		■			
		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▪					■

(1) IK08 with transparent door, IK10 with plain door.

Selection of enclosures according to the premises

Enclosure characteristics

Type of premises		Enclosures						
		Wall-mounted enclosure		without door	with door (1)	with door + canopy (1)	with door + canopy + gasket (1)	IP55
		Floor-standing enclosure		without door	with door (1)	with door + canopy (1)	with door + canopy + gasket (1)	
		Min. IP/IK required		IP30/IK07	IP40/IK08 - IK10	IP41/IK08 - IK10	IP43/IK08 - IK10	IP55/IK10
		IP	IK					
Technical premises								
Battery rooms		23	02/07				■	
Lifts (machine rooms and pulley rooms)		20	07□/08■	□	■			
Electrical rooms		20	07	■				
Control rooms		20	02	■				
Workshops		21□/23■	07□/08■			□	■	
Laboratories		21□/23■	02□/07■			□	■	
Air conditioning washers		24	07					■
Garages (used exclusively for parking vehicles) of an area not exceeding 100 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 rooms		21	02			■		
Garages and car parks of an area exceeding 100 m²								
Parking lots		21	07□/10■			□		■
Carwash areas (inside premises)		25	07					■
Petrol stations	inside	21	07			■		
	outside							
Lubrication areas		23	08				■	
Battery recharging areas		23	07				■	
Workshops		21	08			■		
Public building (other than for the general public)								
Offices		20	02	■				
Libraries		20	02	■				
Archives		20	02	■				
Computer rooms		20	02	■				
Design offices		20	02	■				
Rooms containing reprographic machines		20	02	■				
Sorting rooms		20	07	■				
Refectories in restaurants or canteens		21	07			■		
Large kitchens								
Sports rooms		20	07□/08■	□	■			
Barracks		20	07	■				
Meeting rooms		20	02	■				
Waiting rooms, lounges, halls		20	02	■				
Medical consulting rooms, not fitted with specific equipment		20	02	■				
Demonstration and exhibition rooms		20	02/07	■				

N/A

(1) IK08 with transparent door, IK10 with plain door.

Selection of enclosures according to the premises

Enclosure characteristics

Type of premises	Enclosures						
	Wall-mounted enclosure		without door	with door (1)	with door + canopy (1)	with door + canopy + gasket (1)	IP55
	Floor-standing enclosure		without door	with door (1)	with door + canopy (1)	with door + canopy + gasket (1)	
	Min. IP/IK required		IP30/IK07	IP40/IK08 - IK10	IP41/IK08 - IK10	IP43/IK08 - IK10	IP55/IK10
	IP	IK					
Industrial facilities							
Slaughter houses	55	08					■
Batteries (manufacture)	33	07				■	
Acid (manufacture and storage)	33	07				■	
Alcohol (manufacture and storage)	33	07				■	
Aluminium (manufacture and storage)	51	08					■
Livestock (raising, fattening and sale)	45	07					■
Asphalt and bitumen storage	53	07					■
Wool beating and carding	50	08					■
Industrial laundry	24/25	07					■
Wood (processing)	50	08					■
Meat packers	24/25	07					■
Bakeries	50	07					■
Breweries	24	07					■
Brickworks	53	08					■
Rubber (production and processing)	54	07					■
Carbide (manufacture and storage)	51	07					■
Ammunition factories	53	08					■
Carton board (production)	33	07				■	
Quarries	55	08					■
Celluloid (manufacture of objects)	30	08		■			
Cellulose (manufacture)	34	08					■
Coal (depots)	53	08					■
Pork products	24/25	07					■
Boiler-making works	30	08		■			
Lime kilns	50	08					■
Rag (storage)	30	07	■				
Chlorine (manufacture and storage)	33	07				■	
Chrome-plating	33	07				■	
Cement works	50	08					■
Coking plant	53	08					■
Adhesives (production)	33	07				■	
Bottling lines	35	08					■
Liquid fuels (storage)	31▫/33▪	08			□	■	
Fats (processing)	51	07					■
Leather (tanning and storage)	31	08			■		
Copper (ore processing)	31	08			■		
Paint stripping	54	08					■
Detergents (manufacture)	53	07					■
Distilleries	33	07				■	
Electrolysis	33	08				■	
Ink manufacturing	31	07			■		
Fertilisers (manufacture and storage)	53	07					■
Explosives (manufacture and storage)	55	08					■
Iron (production and processing)	51	08					■
Spinning mills	50	07					■
Furriers (beating process)	50	07					■
Cheese factories	25	07					■
Gas (production and storage)	31	08			■		
Tar (processing)	33	05				■	
Seed production	50	07					■
Metal engraving	33	07				■	
Oils (extraction)	31	07			■		
Petroleum products (manufacture)	33▫/34▪	08				□	■
Printworks	20	08		■			

(1) IK08 with transparent door, IK10 with plain door.

Selection of enclosures according to the premises

Enclosure characteristics

Type of premises	Enclosures						
	Wall-mounted enclosure		without door	with door (1)	with door + canopy (1)	with door + canopy + gasket (1)	IP55
	Floor-standing enclosure		without door	with with door (1)	with door + canopy (1)	with door + canopy + gasket (1)	
	Min. IP/IK required		IP30/IK07	IP30/IK07	IP41/IK08 - IK10	IP43/IK08 - IK10	IP55/IK10
	IP	IK					
Industrial establishments (continued)							
Dairies	25	07					■
Public wash-houses	25	07					■
Liqueurs (production)	21	07			■		
Halogenated liquids (use)	21	08			■		
Inflammable products (storage and workshops where they are used)	21	08			■		
Magnesium (production, storage and use)	31	08			■		
Machine rooms	20	08		■			
Plastics (production)	51	08					■
Cabinet makers	50	08					■
Metals (processing)	31▫/33▪	08			□	■	
Combustion engines (testing of)	30	08		■			
Ammunition storage	33	08				■	
Nickel (ore processing)	33	08				■	
Household waste (processing)	54	07					■
Paper (production)	33▫/34▪	07				□	■
Paper (storage)	31	07			■		
Perfume (production and storage)	31	07			■		
Pulp mill	34/35	07					■
Paint (production and storage)	33	08				■	
Plaster (processing and storage)	50	07					■
Gunpowder factory	55	08					■
Chemicals (production)	30▫/50▪	08		□			■
Oil refineries	34/35	07					■
Salt preserve factories	33	07				■	
Soap (production)	31	07			■		
Saw mills	50	08					■
Metalwork shops	30	08		■			
Grain or sugar silos	50	07					■
Silk and artificial hair factories	50	08					■
Sodium carbonate (processing and storage)	33	07				■	
Sulphur (processing)	51	07					■
Spirits (storage)	33	07				■	
Sugar mills	55	07					■
Tanners	35	07					■
Dye works	35	07					■
Textile and fabric (production)	51	08					■
Varnish (production and application)	33	08				■	
Glass works	33	08				■	
Zinc works	31	08			■		

(1) IK08 with transparent door, IK10 with plain door.

Selection of enclosures according to the premises

Enclosure characteristics

Type of premises		Enclosures						
		Wall-mounted enclosure		without door	with door (1)	with door + canopy (1)	with door + canopy + gasket (1)	IP55
		Floor-standing enclosure		without door	with door (1)	with door + canopy (1)	with door + canopy + gasket (1)	
		Min. IP/IK required		IP30/IK07	IP40/IK08 - IK10	IP41/IK08 - IK10	IP43/IK08 - IK10	IP55/IK10
		IP	IK					
Farm premises or locations								
Alcohol (storage)		23	07				■	
Closed cattle sheds		35	07					■
Laundries		24	07					■
Wood storage rooms		30	10					■
Threshing floors		50	07					■
Distilling cellars		23	07				■	
Vat rooms (wine)		23	07				■	
Courtyards		35	07					■
Poultry barns		35	07					■
Stables		35	07					■
Fertiliser (storage)		50	07					■
Stables		35	07					■
Manure heaps		24	07					■
Haylofts		50	07					■
Haystacks, forage (storage)		50	07					■
Granaries, barns		50	07					■
Straw (storage)		50	07					■
Greenhouses		23	07				■	
Grain silos		50	07					■
Milking rooms		35	07					■
Pig sties		35	07					■
Chicken houses		35	07					■
Miscellaneous installations								
Fair facilities		33	08				■	
Water treatment facilities		24/25	07/08					■
Thermodynamic installations, air-conditioned rooms and cold rooms								
Height above ground	from 0 to 1.10 m	25	07					■
	from 1.10 to 2 m	24	07					■
	above 2 m under evaporator or water drain pipe	21	07			■		
	ceiling and up to 10 cm underneath	23	07				■	
Temperature ≤ -10 °C		23	07				■	
Compressor	room	21	08			■		
	integral unit located outside or on a terrace	34	08					

N/A

(1) IK08 with transparent door, IK10 with plain door.

G

Thermal management of switchboards
General

Thermal characteristics

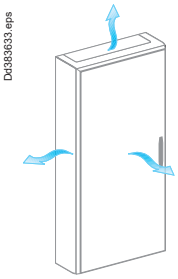
A switchboard is designed for operation under normal ambient conditions.
Most devices do not operation correctly outside a temperature range of -10 and +70 °C.
It is therefore important to maintain the switchboard internal temperature within this temperature range by:
- correctly sizing the switchboard during design
- correcting the temperature using suitable means.

Management of the internal temperature

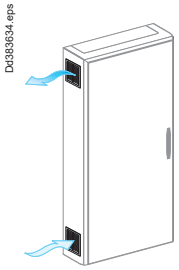
Cooling

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

Convection

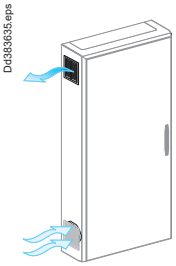


IP > 31
Ensured naturally in PrismaSeT enclosures.



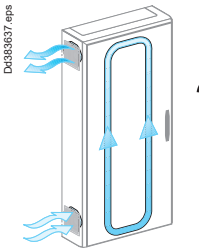
IP ⩽ 31

Forced-air ventilation



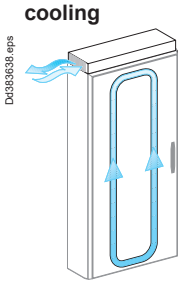
IP ⩽ 54
Using fans, it significantly increases the thermal capacity of an enclosure.

Forced-air ventilation with air-air exchanger



IP > 31
On special request.

Forced convection and cooling

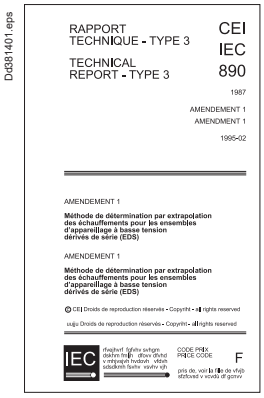


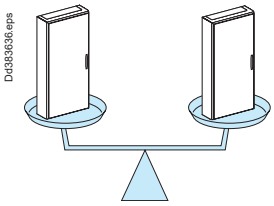
IP > 31

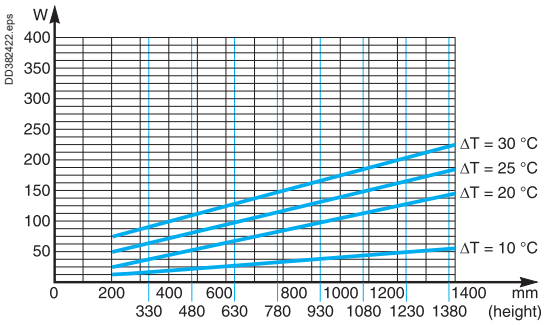
For these extreme cases, many installers prefer to set up the switchboards with other electrotechnical and electronic devices in air-conditioned electrical rooms.

Heating

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







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 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.

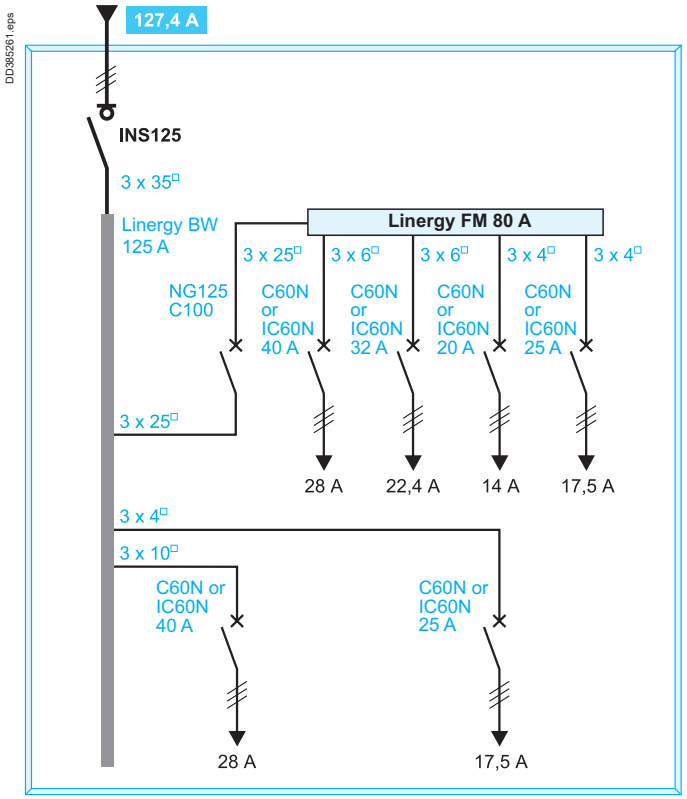
They can be used sufficiently precisely to determine the variations in temperature and the dissipated-power levels for the different types of wall-mount enclosures, floor-standing enclosures and cubicles.

Thermal management of switchboards
Comparative method

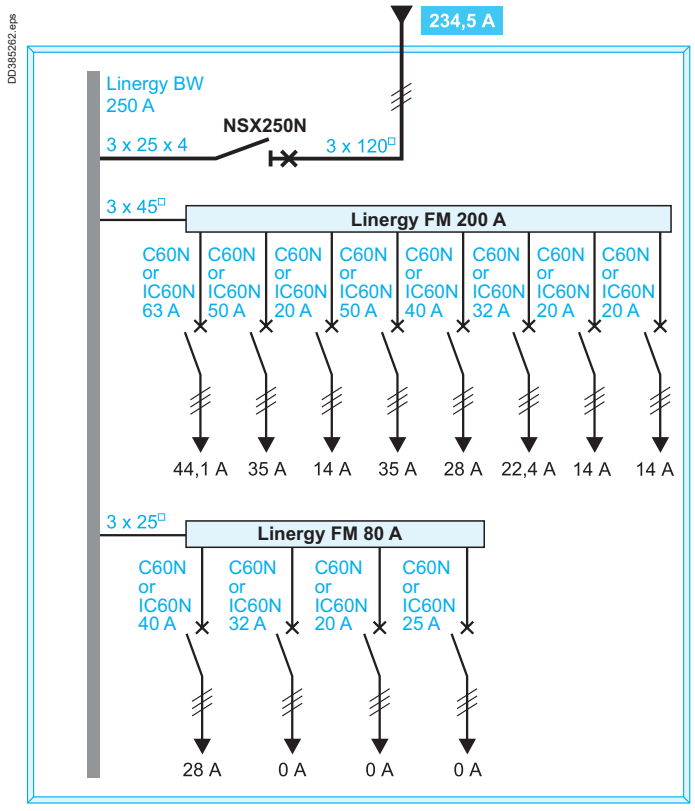
Comparative method

You will have no problems with your switchboard if:
- the volume of the enclosure is greater than that of the tested enclosure with a similar assembly
- the P(W) of the installed assembly is less than the P(W) of the tested configuration in the same size enclosure.

Pack enclosure, 3 rows, IP30
Diversity factor: 0.7
Ambient temperature around the switchboard: 35 °C
P(W) = 95 W



Wall-mounted enclosure, 23 modules, IP30/IP4X
Diversity factor: 0.7
Ambient temperature around the switchboard: 35 °C
P(W) = 170 W

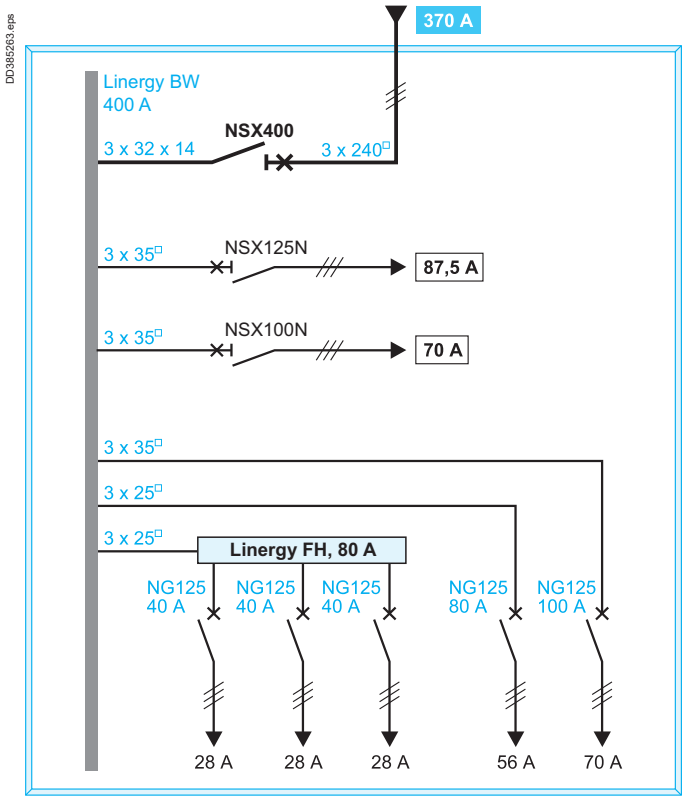


Thermal management of switchboards
Comparative method

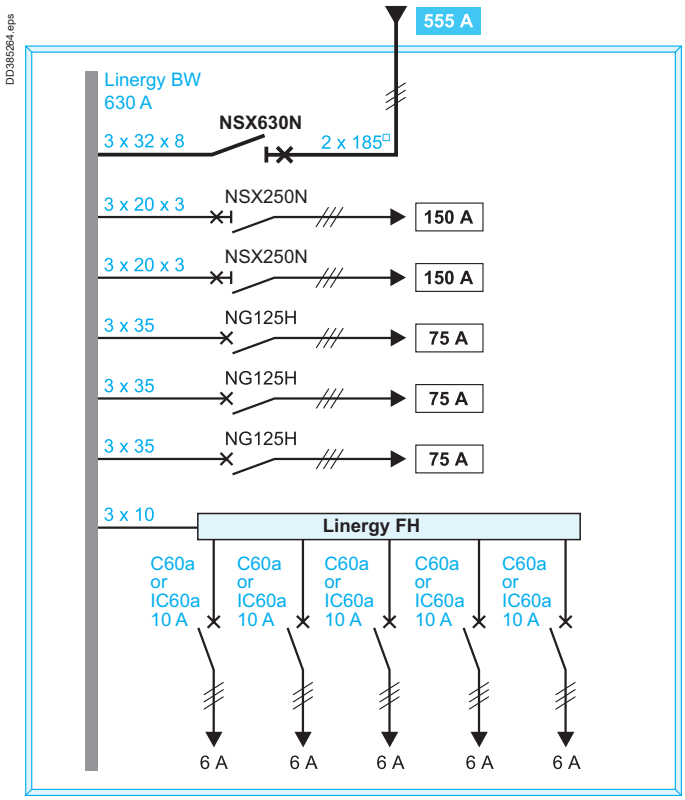
Comparative method

You will have no problems with your switchboard if:
- the volume of the enclosure is greater than that of the tested enclosure with a similar assembly
- the P(W) of the installed assembly is less than the P(W) of the tested configuration in the same size enclosure.

Wall-mounted enclosure, 23 modules, plain door, IP30/IP4X
Diversity factor: 0.7
Ambient temperature around the switchboard: 35 °C
P(W) = 200 W



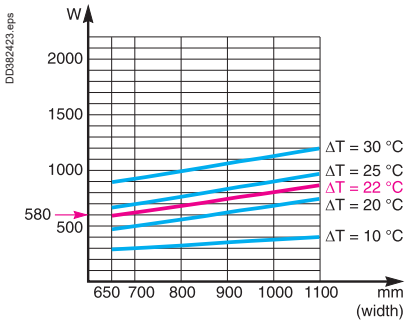
Floor-standing enclosure, 33 modules, IP30/IP4X
Diversity factor: 0.7
Ambient temperature around the switchboard: 35 °C
P(W) = 270 W



Thermal management of switchboards
Example

Thermal characteristics

Once the dissipated power of the devices has been determined and the enclosure with its IP selected, transfer the results (sum of the dissipated power and width of the device zone) to the chart corresponding to the enclosure IP.



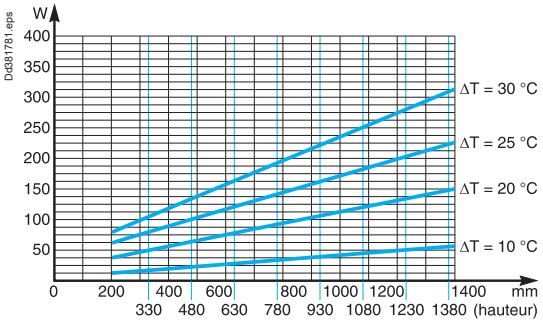
Draw a line parallel to the others on the chart and read the corresponding difference in temperature.
For the given example, the heat rise is 22 °C at mid-height in the enclosure.
The internal temperature = external temperature + heat rise
= 35 °C + 22 °C = 57 °C
57 °C < 60 °C stipulated by the standard, i.e. the result is acceptable for an IP30/IP4X all-mounted and floor-standing enclosures.
This gives roughly:
Internal temperature = 60 °C at mid-height in the enclosure for a low IP value.
= 70 °C at mid-height in the enclosure for a high IP value.

Thermal characteristics

Quick calculation charts for internal temperatures

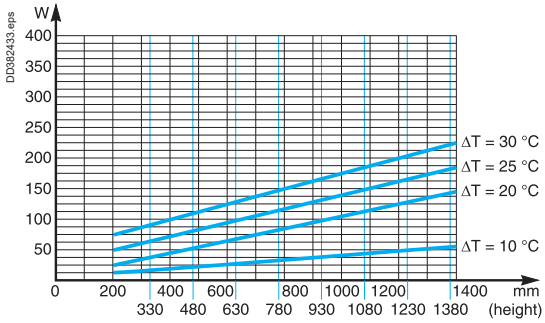
The indicated internal heat rise is that measured at mid-height in the enclosure.

IP3X wall-mounted enclosure



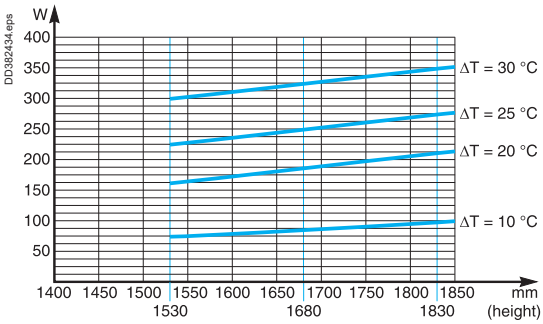
Test conditions:
600 mm wide enclosure mounted directly on wall without fixing lugs.

IP43 wall-mounted enclosure



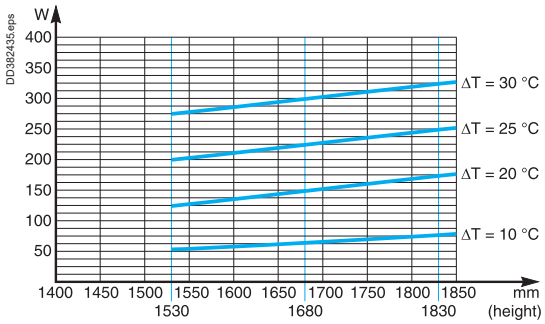
Test conditions:
600 mm wide enclosure mounted directly on wall without fixing lugs.

IP3X floor-standing enclosure



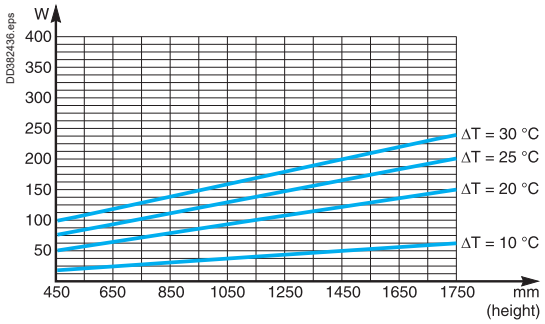
Test conditions:
600 mm wide enclosure on floor against a wall.

IP43 floor-standing enclosure



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

IP55 wall-mounted and floor-standing enclosures



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

Thermal characteristics

Switchboard ventilation

The air enters the lower section via the fans and exits the upper section:
- through a ventilated roof
- or through a ventilation opening.

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

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

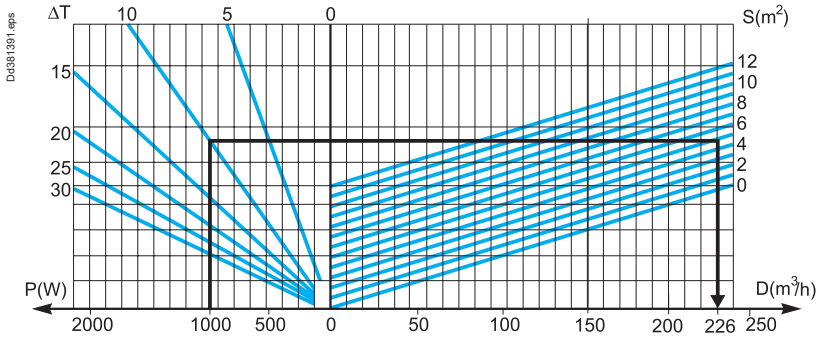
The chart below can be used to determine the necessary throughput, based on the dissipated power, the difference in temperature (internal - external) and the exposed surface area of the enclosure.

Example

Consider an IP3X cubicle, 650 mm wide and 400 mm deep, containing components (devices, connections, busbars, etc.) dissipating 1000 W.
The ambient temperature around the cubicle is 50 °C.
Given that the average temperature at mid-height should not exceed 60 °C, the difference in temperature ΔT is equal to 60 - 50 = 10 °C.
The exposed surface of the cubicle (non adjacent to a wall or other cubicle) is 4.46 m².
(back = 1.3 m², front = 1.3 m², roof = 0.26 m², side panels = 1.6 m²).
What is the necessary throughput of the ventilation system?
The throughput can be calculated as:

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

D = 234 m³/h.
In the range of PrismaSeT accessories, select a system with a throughput of 300 m³/h.



Calculation data

P : power dissipated by the devices, connections and busbars (in Watts)
P_r : power of the heating resistor (in Watts)
T_m : maximum internal temperature in the device zone (in °C)
T_i : average internal temperature (in °C)
T_e : average external temperature (in °C)
$\Delta T_m = T_m - T_e$
$\Delta T = T_i - T_e$
S : total free surface area of the enclosure (expressed in m²)
K : thermal-conduction coefficient of the material (W/m² °C)
K = 5.5 W/m² °C for painted sheet metal
D : ventilation throughput (in m³/h)

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

Thermal characteristics

Switchboard heating

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

- using the equation: 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)

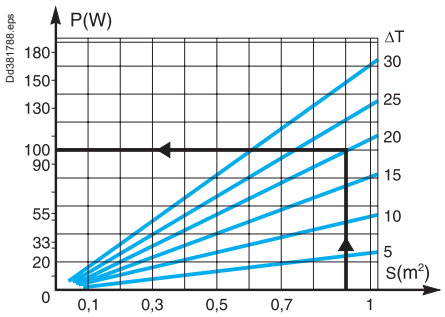
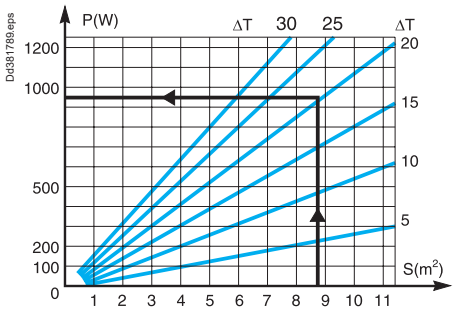


Chart to determine the heating resistor for all types of enclosures



Calculation data

P : power dissipated by the devices, connections and busbars (in Watts)
P_r : power of the heating resistor (in Watts)
T_m : maximum internal temperature in the device zone (in °C)
T_i : average internal temperature (in °C)
T_e : average external temperature (in °C)
$\Delta T_m = T_m - T_e$
$\Delta T = T_i - T_e$
S : total free surface area of the enclosure (expressed in m²)
K : thermal-conduction coefficient of the material (W/m² °C)
K = 5.5 W/m² °C for painted sheet metal
D : ventilation throughput (in m³/h)

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

G

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