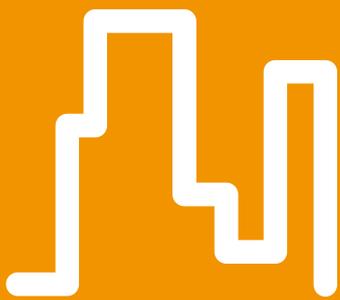


Pooling our energies for building safety

Prisma Plus:
solution for
tested and
IEC compliant
low voltage
switchboards

Schneider
Electric

Let's respond to increasing building requirements together



Ensuring the dependability of electrical installations of tertiary and industrial buildings: continuity of service, safety of life and property.

Prisma Plus: an optimised, tested and IEC compliant solution, for low voltage electrical distribution and control switchboards

Advanced safety from your electrical installation

Grasp the Prisma Plus opportunity: a prefabricated and modular solution, unique in the market, that is safe and simple.

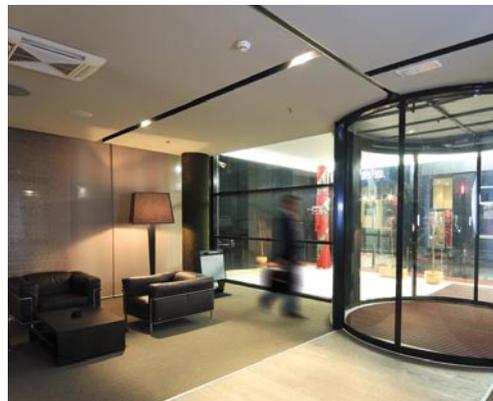
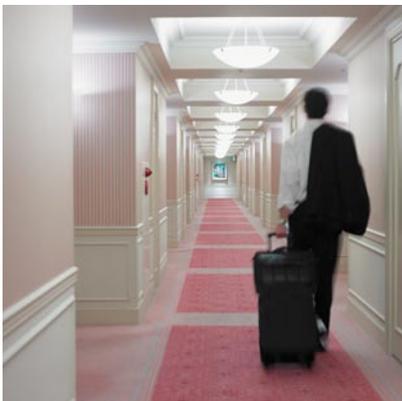
Prisma Plus integrates perfectly the Schneider Electric switchgear to offer the best electrical, mechanical and communication consistency of the market.

Buildings run perfectly. 100% of users are satisfied, feeling safe and comfortable, working efficiently.

You control your costs and deadlines.

 **Make the most of your energy**

Developing installation safety



As professional for tertiary and industrial buildings market, you are faced with growing demands for electrical installation continuity of service, safety of life and property, deadlines and costs control.



Prisma Plus

- > A solution based on more than 25 years of experience in low voltage switchboards.
- > Integrating global specialist in energy management switchgear offerings.
- > Quality production certified ISO 9001.

Using our Prisma Plus optimised and tested solutions, you can easily design, implement and operate safe low voltage electrical distribution and control switchboards.



Improve the continuity of service



Ensure the safety of life and property



Control deadlines and costs

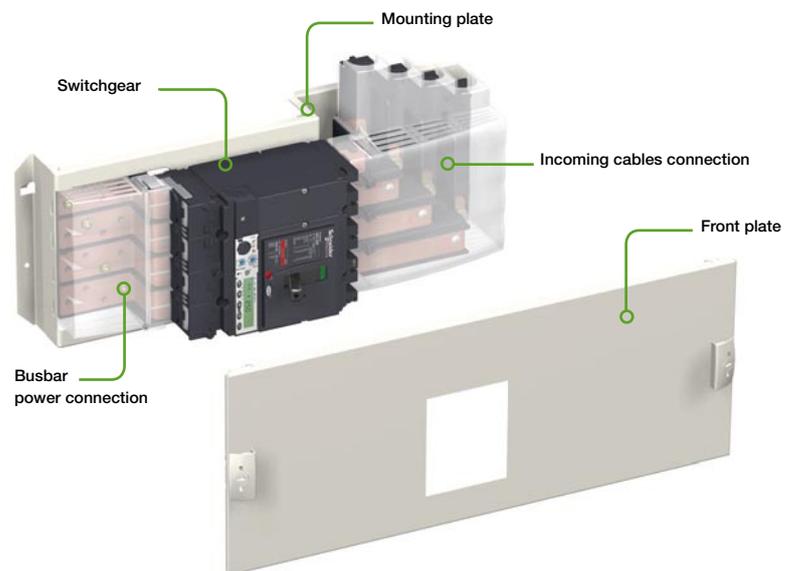
Dedicating ourselves to safe, simple low voltage switchboards up to 3200 A

Prisma Plus, a modular and prefabricated solution based on a complete system in kit form, that fully integrates Schneider Electric switchgear offerings.

Energy is available in the buildings

All the Schneider Electric offers (switchgear, busbars, distribution blocks, switchboards...) have been designed to operate together with optimised performances: mechanical, electrical and communications consistency are ensured. Switchboards are organised by function and by zone, which improves reliability and facilitates design, installation, operation and upgrading. All switchboard architectures are factory tested in line with specifications that go well beyond the IEC standards.

The same continuity of service is ensured throughout the switchboard's entire life cycle.



> Exemple of functional unit



1 A cable connection area with complete accessibility.

2 A zone for functional units* dedicated to each application in the building (lighting, HVAC, lifts, etc).

3 A zone for current distribution with innovative busbars. The multistage current distribution brings lightness, ergonomics, and easy front access.

4 IPXXB front plates for protecting people from any direct access to live parts.

5 Attractive white finish to fit into any facility.

* A functional unit includes switchgear, mounting plate, front plate and connections.

> Exemple of switchboard



7 expertise fields

- > Mechanical
- > Electrodynamics
- > Thermal
- > Internal arc
- > Electromagnetic compatibility
- > Seismic
- > Insulation

Schneider Electric low voltage assembly expertise: an answer to customer requests

- > Short-circuit withstand
- > Electromagnetic compatibility
- > Protection of persons against electric shock
- > Protection of persons and the assembly against risk of fire
- > Protection of the assembly against environmental conditions

People and properties are safe

With the Prisma Plus solution, you can be sure that the coordination between the switchgear and the current distribution system has been tested on all types of switchboard architecture. This favours flawless equipment operation.

The busbars are located in a protected area. The clearances between conductors have been calculated to prevent any risk of internal arc or current leakage.

The switchgear, installed behind a front plate, reveals only the operating handles.

Cable connection is performed in dedicated areas preventing any contact with live parts.

Deadlines and costs are controlled

The Prisma Plus solution facilitates switchboard upgrading even if its size has been optimised during the design phase.

It offers tools and support services to effectively help designers, panelbuilders contractors as well as operators develop their skills.

The environment is respected

The Prisma Plus solution reduces the environmental impact of the installations through a process of continual improvement in favour of sustainable development.

Schneider Electric uses all its expertise to set up switchboard architectures which optimise energy consumption.



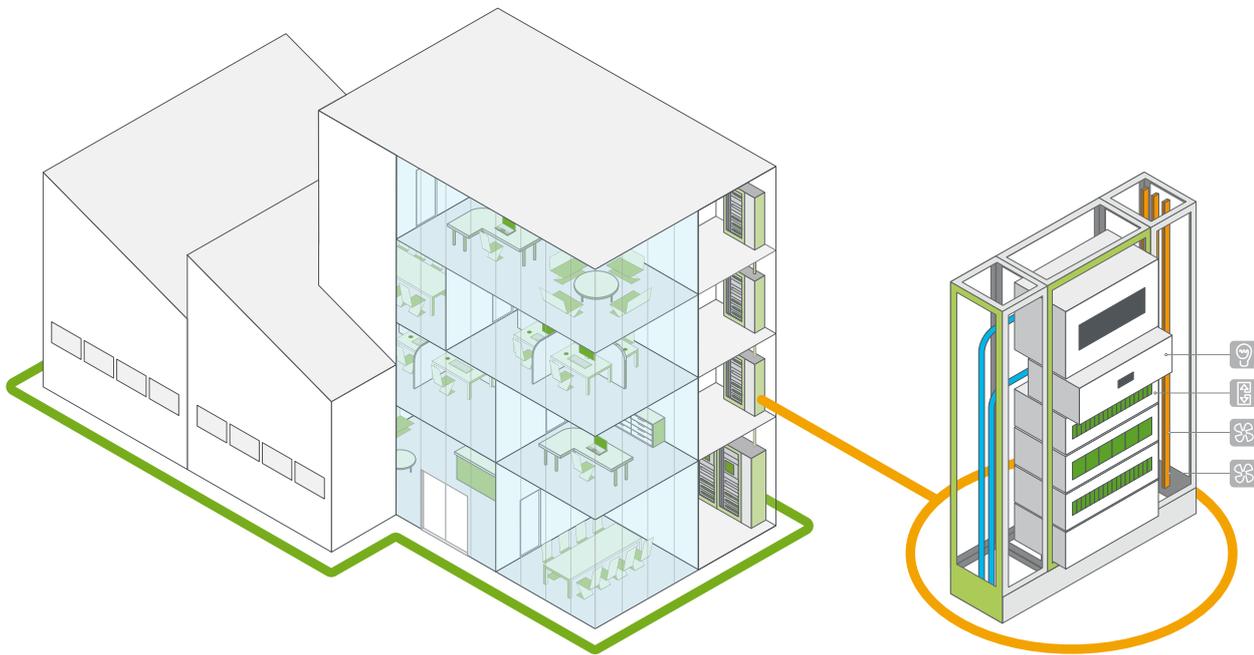
99%

of material used can be recovered by dismantling.

Ensuring the design of optimised, customised switchboards



With the Prisma Plus solution, design offices are thoroughly efficient.



Flexible design for building applications and their operation

Thanks to Prisma Plus 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 the functional units (switchgear, mounting plates, front plates), one for power distribution and one for connection.

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

By supporting design offices with the services and software tools (Ecodial, Softher, Rapsody...) needed to quickly design switchboards, we help them to highlight their professionalism: switchboards using tested architectures and meeting 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 cohesion), front panel design and fast cost studies.



100%

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



Producing tested, IEC compliant switchboards, with complete flexibility





100%

of panelbuilders and contractors using the Prisma Plus solution can prove that their switchboards are tested and compliant with IEC standards.

With the Prisma Plus solution, panelbuilders and contractors are thoroughly efficient.

Assembly and installation in conformity with the standards

Thanks to the prefabricated Prisma Plus solution and the consistency of the entire component set, assembly, wiring and installation can be performed without any difficulty in line with IEC standards. Panelbuilders and contractors work efficiently, whatever the complexity of the technical specifications: switchboards are dependable, delivered and installed right on time.

Tests with issue of a certificate

We propose tools to help panelbuilders and contractors to perform tests and provide proof of those (procedure, training, quality inspection guide, type certificates, etc.).

Ease and speed of assembly and installation

The Prisma Plus solution is designed for logical, obvious switchboard organisation: clarity of zones dedicated to the functional units (switchgear, mounting plates, front plates), power distribution and cable connection.

Specific tools are available to the panelbuilders and contractors to facilitate their work and help them work to state-of-the-art rules:

- > assembly guides and busbar link drawings,
- > "Prisma Plus Bill of Material": tool for product reference determination,
- > "Softther": software for calculating temperature rise inside switchboard,
- > "Rapsody": software to easily design an electrical switchboard.

Switchboards that can be easily modified, even at anytime

Due to the modularity of the Prisma Plus solution, last minute changes are no longer a problem. Panelbuilders and contractors can very easily change or add functional units without any loss of time. Work comfort is improved.



Optimising switchboard operation over the entire installation life cycle

With the Prisma Plus solution, the operating and maintenance teams are thoroughly efficient.



Safe, easy, fast and cost saving operation

The Prisma Plus solution reinforces installation continuity of service and offers maximum safety for contractors, operating and maintenance teams while facilitating their work. Service lead-times are reduced to the very minimum:

- > logical and self-evident switchboard layouts by zone for easy access to switchgear, power distribution, connection points and cable ducts,
- > setting and testing can be performed easily.

Switchboards easily modifiable due to functional design

The Prisma Plus functional solution is designed so that the switchboard can evolve easily with the building in the event of renovation or extension work: modification, addition of functional units, or addition of new enclosures or cubicles.

The electrical installation still offers the same guarantees of performance in terms of continuity of service and safety of life and property.



100%

of electrical connections are reliable and require no maintenance.

100% satisfied



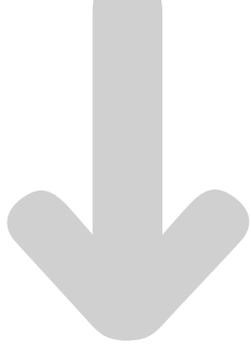
1982

The first functional switchboard made from
Schneider Electric system in kit form.



3 million

tested electrical distribution and control Schneider Electric
low voltage switchboards are in operation worldwide.



Some functional switchboard references

Retail

Spain

- > El Corte Inglés Valdemoro
- > El Corte Inglés Girona

Hospital

Spain

- > Hospital Puerta del Hierro
- > Clínica Quirón Barcelona

Building

Russia

- > Federation tower (biggest tower of "Moscow City" project)
- > TV tower "Ostankino"
- > Residence of President of Russia "Zavidovo"
- > Bolshoy Theatre
- > Kremlin mansion-house

Spain

- > Ciudad de la Justicia Barcelona
- > Sincrotron, Cerdanyola
- > Fira 2000 Barcelona
- > Palacio Congressos Expo Zaragoza

Infrastructure

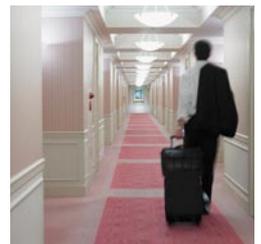
Spain

- > New Madrid Airport
- > New Terminal Barcelona Airport
- > Highway M30 tunnels in Madrid
- > Palma de Mallorca Underground

Hotel

Spain

- > Hotel Sky



Add your own references

Technical data

Cubicles

	A	lcw	lpk	IP	IK	nbr of vertical mod.	height	width	depth	associability
Cubicles	3200 A	85 kA rms/1s	187 kÅ	30/31/55	07 08 10	36	2000 mm	300 mm 400 mm 650 mm 800 mm	400 mm 600 mm	width

Wall mounted and floor standing enclosures

	A	lcw	lpk	IP	IK	nbr of vertical mod.	height	width	depth	associability
Enclosures	630 A	25 kA rms/1s	53 kÅ	30/31/40/ 43/54	07/08/ 10	4 6 12 16 20 24 28 32	300 mm 500 mm 700 mm 900 mm 1100 mm 1300 mm 1600 mm 1800 mm	600 mm (enclosure) 300 mm (cable duct)	235 mm 235 mm 235 mm 235 mm 235 mm 305 mm 305 mm	width and height width

Pack wall mounted enclosure

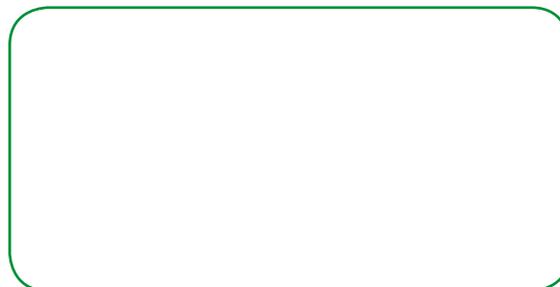
	A	IP	IK	nbr of raw	height	width	depth	associability
Pack	160 A	30	07/08	2 3 4 5 6	480 mm 630 mm 780 mm 930 mm 1080 mm	555 mm	186 mm	

The Prisma Plus solution perfectly incorporates Schneider Electric switchgear:

- > Air circuit breaker: Masterpact NT, NW
- > Molded case circuit breaker: NSX, NS, Easyact
- > Modular devices: Multi 9, Acti 9,...
- > Source change over
- > Fuses switches: Fupact
- > Switches: Interpact
- > Speed drives: Altivar
- > Motor control: TeSys range,...
- > Control & signaling units: Harmony push buttons
- > ...

To find out more

- > www.schneider-electric.com
- > Or refer to the technical catalogue
- > Or contact your distributor



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