

Pooling our energies for building safety

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

Advanced safety from your electrical installation

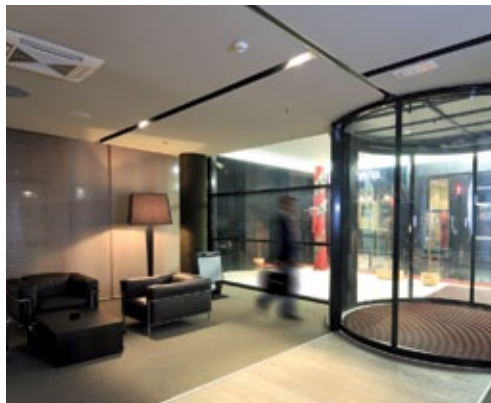
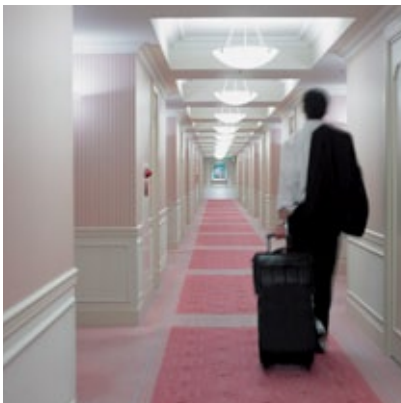
Grasp the Prisma opportunity: a prefabricated and modular solution, unique in the market, that is safe and simple.

Prisma 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

- > A solution based on more than 30 years of experience in low voltage switchboards.
- > Integrating global specialist in energy management switchgear offerings.
- > Quality production certified ISO 9001.

Using our Prisma 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

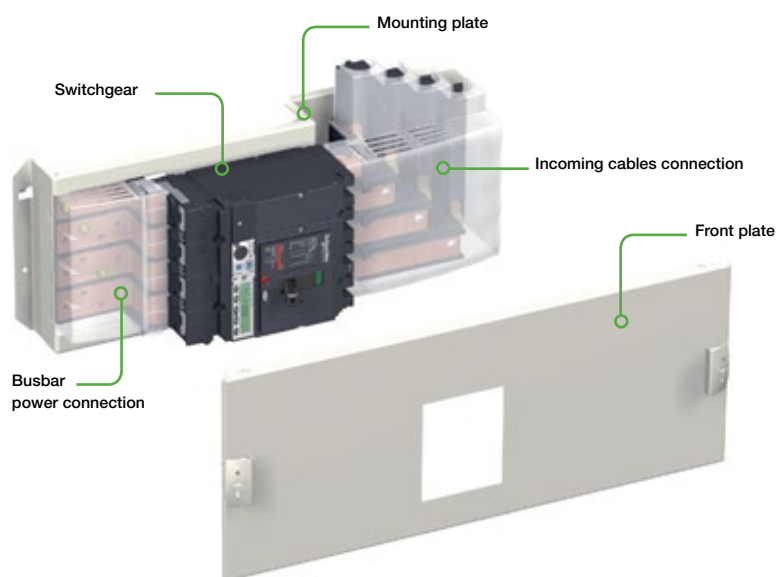
Dedicating ourselves to safe, simple low voltage switchboards up to 4000 A

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

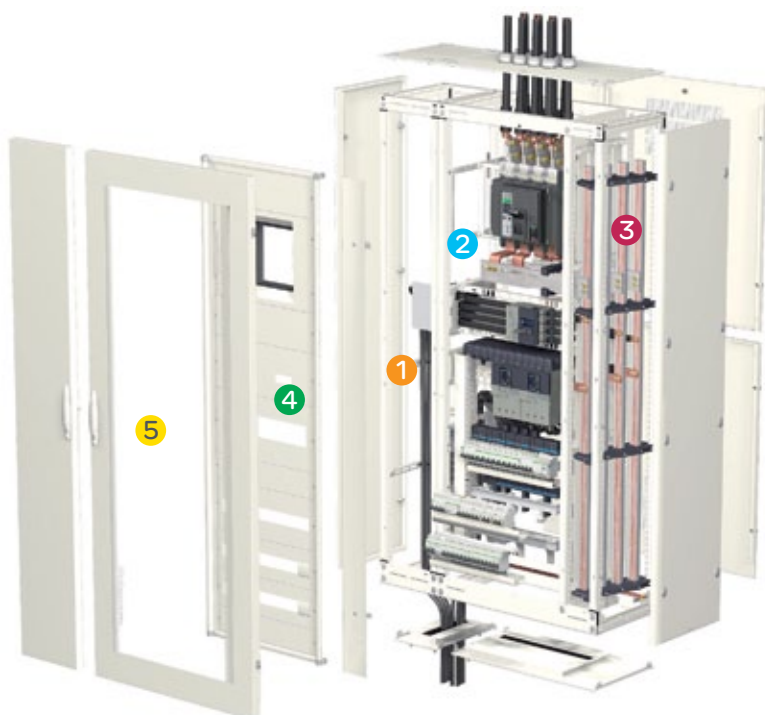
Energy is available in the buildings

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. Linergy 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 (RAL 9001) to fit into any facility.

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

> Exemple of switchboard



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
- > Full coordination of protection devices

People and properties are safe

With the Prisma 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 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 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.



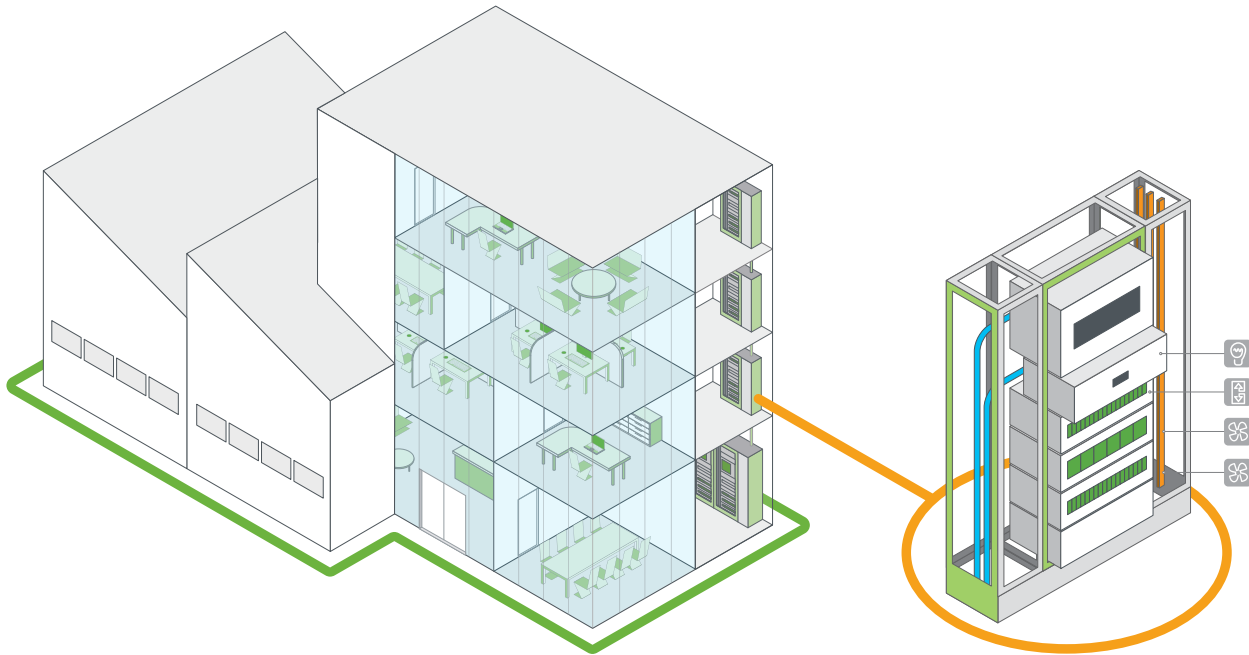
99%

of material used can be recovered by dismantling.

Ensuring the design of optimised, customised switchboards



With the Prisma solution,
design offices are thoroughly efficient.



Flexible design for building applications and their operation

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

- > organisation by functional units, each corresponding to an application in the building (lighting, HVAC, lifts, etc.)
- > organisation by dedicated physical zones: one for 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, 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.

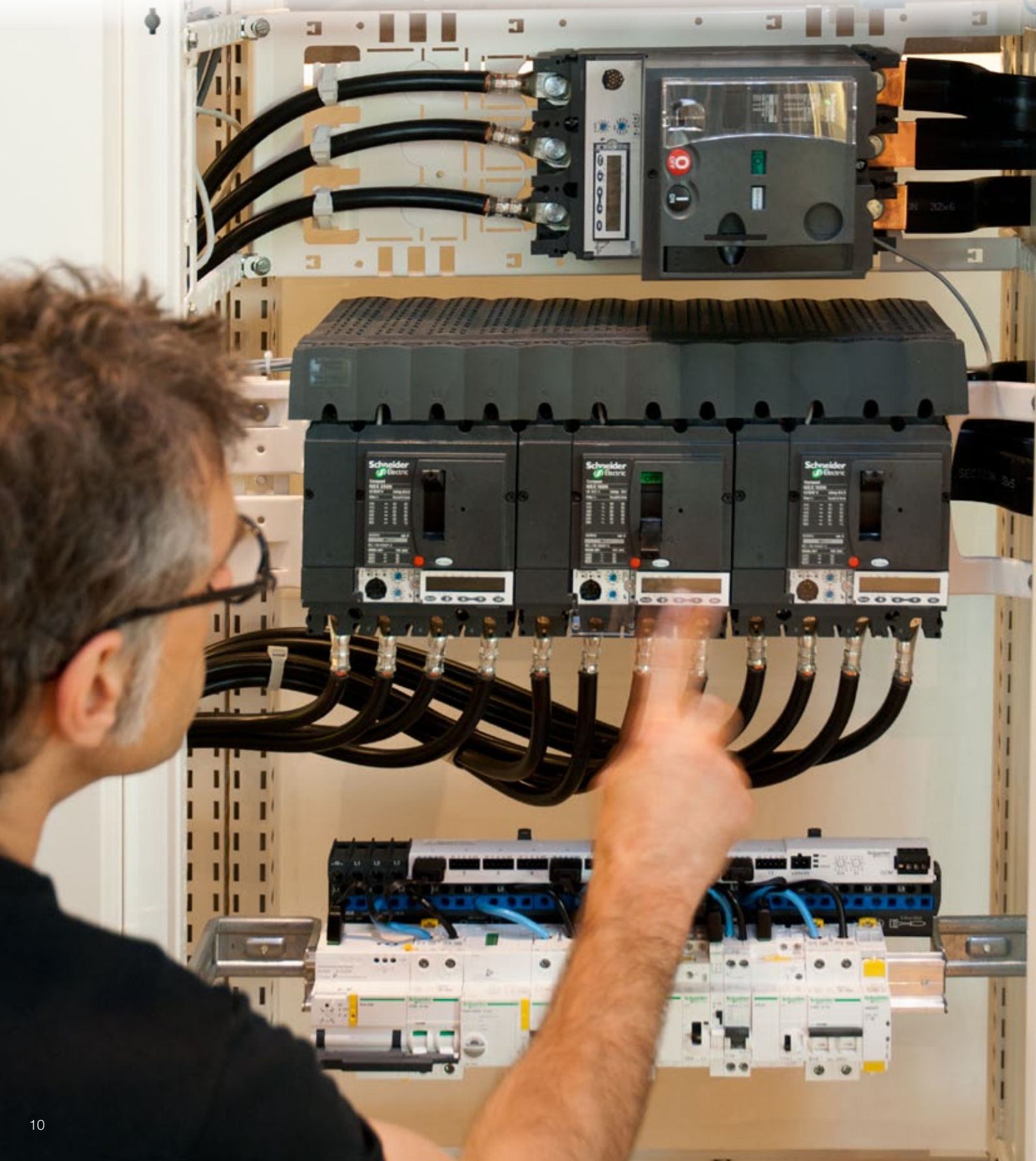


100%

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 solution can prove that their switchboards are tested and compliant with IEC standards.

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

Assembly and installation in conformity with the standards

Thanks to the prefabricated Prisma 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 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,
- > busbar link drawings,
- > "Rapsody": software to easily design an electrical switchboard,
- > installation and wiring guide.

Switchboards that can be easily modified, even at anytime

Due to the modularity of the Prisma 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 solution, the operating and maintenance teams are thoroughly efficient.



Safe, easy, fast and cost saving operation

The Prisma 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 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



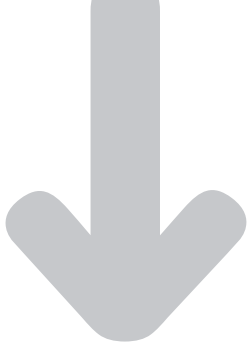
1982

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

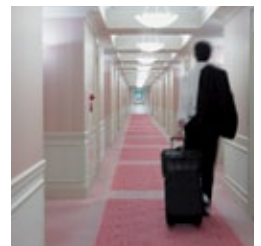
Spain

- > 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 Prisma P

	I (A)	Icw (kA rms/1s)	Ipk (kA)	IP	IK	nbr of vertical mod.	height (mm)	width (mm)	depth (mm)	associability
Cubicles	4000	100	220	30/31/55	07 08 10	36	2000	300 400 650 800	400 600	width depht

Wall mounted and floor standing enclosures Prisma G

	I (A)	Icw (kA rms/1s)	Ipk (kA)	IP	IK	nbr of vertical mod.	height (mm)	width (mm)	depth (mm)	associability
Wall-mounted enclosures	630	25	53	30/31/43	07/08	6 9 12 15 18 21 24 27	330 480 630 780 930 1080 1230 1380	595 (enclosure) 305 (cable duct)	235 235 235 235 235 235 305 305	width and height width width
Floor-standing enclosures	630	25	53	30/31/43	07/08	27 30 33	1530 1800 1830	595 (enclosure) 305 (cable duct)	305 305	width width
Wall-mounted and floor-standing enclosures - IP 55	630	25	53	55	10	7 11 15 19 23 27 33	450 650 850 1050 1250 1450 1750	600 for wall-mounted and floor-standing enclosures and, 325 for duct.	235 235 235 235 235 235 305	290 (including 30 for handle).

Wall mounted enclosure Prisma Pack

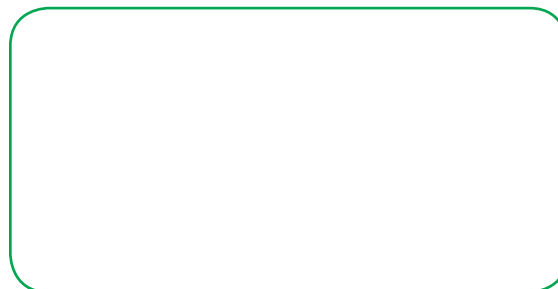
	I (A)	IP	IK	nbr of raw	height (mm)	width (mm)	depth (mm)	associability
Pack	160	30/31/43	07/08	2 3 4 5 6	480 630 780 930 1080	555	186	

The Prisma Plus solution perfectly incorporates Schneider Electric switchgear:

- > Air circuit breaker: Masterpact NT, NW
- > Molded case devices: Compact NSX/INS, Easypact CVS
- > Modular devices: Acti 9,...
- > Source change over
- > Fuses switches: Fupact
- > 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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