

The Guiding System, the new way to create your electrical installations

A comprehensive offer

The Guiding System is first and foremost a Merlin Gerin product offer covering all LV and MV electrical distribution needs: SM6 switchboards from 1 to 36 kV, Compact and Masterpact circuit breakers from 100 to 3200 A, modular switchgear and enclosures up to 125 A, Prisma Plus functional system for electrical distribution switchboards up to 3200 A and Canalis busbar trunking up to 5000 A. All these products have been designed to operate together, ensuring electrical, mechanical and communication compatibility. In this way the electrical installation is both optimised and more efficient, providing better continuity of supply, enhanced safety for people and equipment, guaranteed upgradeability and effective control and monitoring.

Tools to simplify design and implementation

With the Guiding System you have a comprehensive range of tools – the Guiding Tools – that will help you increase your product knowledge and implement Merlin Gerin products, in compliance with current standards and procedures. These tools include technical books and guides, design aid software, training courses, etc. and are regularly updated.

The Guiding System, combined with your know-how and creativity, allows optimised, reliable, open-ended and standard-compliant installations.

For a genuine partnership with you

Because each electrical installation is unique, there is no standard solution. With the Guiding System, the variety of combinations allows genuine customised solutions. You can express your creativity and apply your know-how in the design, installation and operation of an electrical installation. You and Merlin Gerin's Guiding System form a genuine partnership.

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As standards and equipment change from time to time, please ask for confirmation of the texts and pictures given in this publication.

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Fixed Motor Control Center

A new direction with Prisma Plus



Simplicity, safety,
productivity,
upgradeability.
All the advantages of
the functional system
for fixed motor feeders.



Prisma Plus Fixed Motor Control Center

Prisma Plus performance is now available for fixed motor feeders

The Prisma Plus Fixed MCC today represents the high-performance solution for all motor control applications including building utilities and infrastructure, water treatment, mills, escalators, air-conditioning, etc.



Productivity

The modular design of the Prisma Plus system and small size of the functional units (up to 36 feeders per enclosure) let you build cost-effective switchboards that perfectly match your needs. Assembly and mounting is fast and easy.



Simplicity

The switchboards are easy to assembly and understand. Functional units are clearly organised and identifiable. Wiring is straightforward and well laid out.



Upgradeability

New motor feeders, pre-wired on a work bench, can be easily added to an existing switchboard (de-energised).

Fast connection ensures minimum installation down time.



Safety

Every effort has been made to protect personnel and the installation. Feeders are independent and fully partitioned with barriers and front panels, etc. Built according to Schneider Electric recommendations, switchboards are type-tested and fully comply with international standard IEC 60439-1.

Advantage Prisma Plus!

Comparison	Prisma Plus Fixed MCC	Universal enclosures
Productivity	++++	++
Upgradeability	+++++	+
Safety	+++++	++
Simplicity	++++	+++

Prisma Plus Fixed Motor Control Center

A technological breakthrough

Enclosure preparation

- 1 Assembly of the framework
- 2 Installation of Linergy busbars
- 3 Installation of horizontal partitions



Functional unit preparation

- 1' Setting up the mounting plate on the mounting/wiring support
- 2' Device installation on the mounting plate
- 3' Complete wiring of the functional unit

The functional principle behind Prisma Plus Fixed MCCs and task separation during mounting greatly increase productivity. The functional units are prepared separately on a work bench, while the enclosures are assembled elsewhere.

Faster quotes

The catalogue and standard diagrams help you get back to your customers quickly with the best solution for their needs.

Faster delivery

The functional system lets you deliver high-quality switchboards even for short deadlines. Last-minute changes are easy to take into account in the workshop or on site.



The functional unit, prepared on a work bench, can be easily installed in the enclosure.

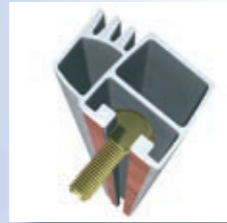
Access to switchgear is fully protected, the switchboard is finished.



Prisma Plus Fixed MCCs, high-quality switchboards even when deadlines are short.

Prisma Plus Fixed Motor Control Center

A new direction to meet all your needs



Current distribution

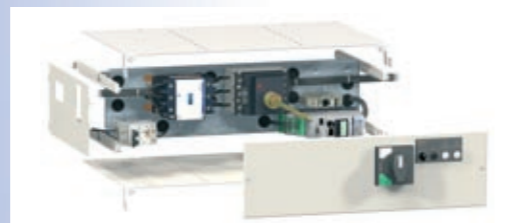
Horizontal and vertical busbars distribute the current throughout the entire switchboard.

On Linergy busbars, no drilling is required for connections. Connection bolts can be slid along the entire height of the busbar for positioning at exactly the right location.

Framework

The structure can be made up of one or more combined frameworks.

The rigid and ergonomic sections can be easily mounted by a single person.

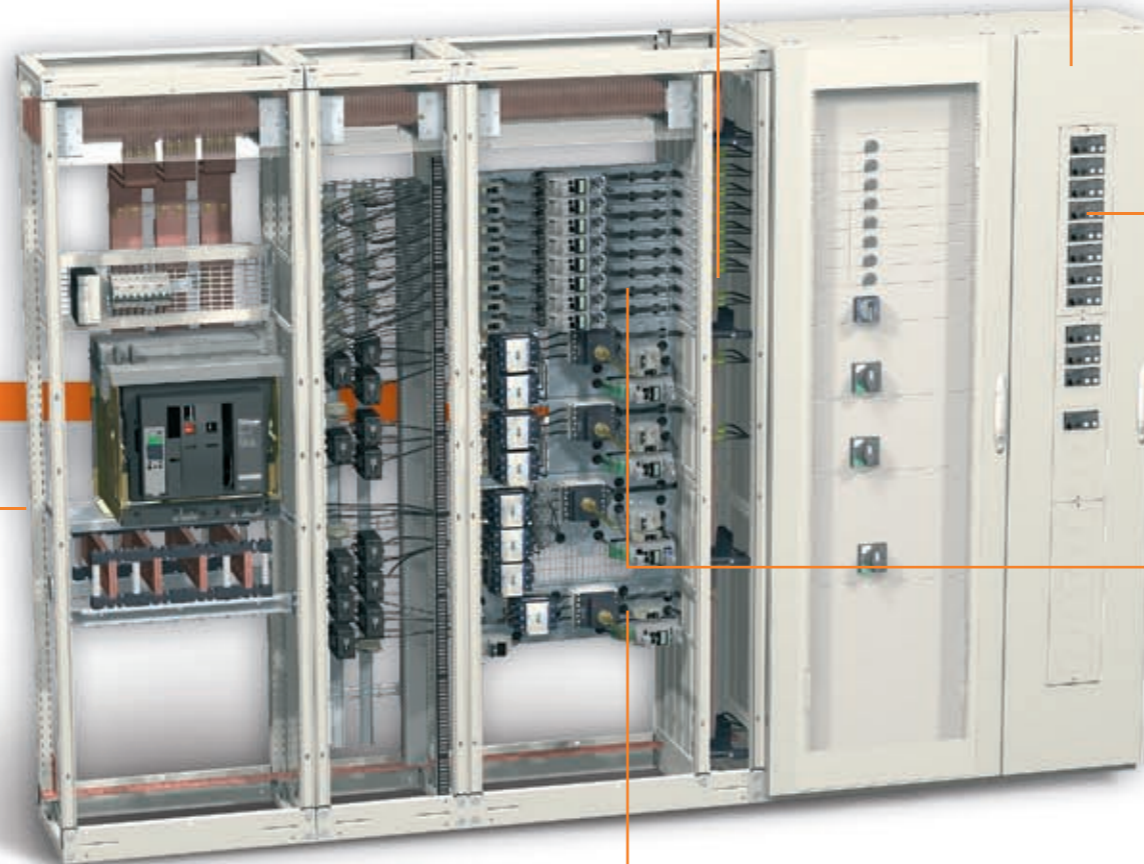


Functional unit

Corresponding to the different feeders, the functional units are modular and arranged rationally, one on top of another, within the enclosure.

They include:

- a dedicated mounting plate for device installation
- a front panel to protect access to live parts
- horizontal partitions and side barriers



Prisma Plus switchboards are the perfect answer to all your needs and can be easily modified. Motor feeders (MCC) and distribution outgoers (PCC) can be combined without any problem.

Use of OTB communication modules or Tesys U controllers on a bus significantly reduces wiring times and errors. The resulting iMCC (intelligent motor control center) can then communicate with a supervisor and transmit measurements and analysis results or receive orders.

Cover panels

Cover panels (IP30 or IP55) can be pre-positioned on the framework and secured by quarter-turn fasteners. Mounting is intuitive and fast.

LCDD unit

The LCDD can be used to control an iMCC feeder locally.



All-in-one motor feeder

Tesys U circuit breaker/contactors:

- For small to mid-sized ratings up to 15 kW
- Up to 36 individual feeders per enclosure
- Continuity of service and total coordination



3-component motor feeder

Circuit breaker or switch-disconnector fuse + contactor + thermal relay.

For complex or special motor feeders up to 250 kW and for all installation and operating conditions.

Accompanying services and tools

A wide range of technical documents are available to help you throughout all phases, including standard diagrams, a dedicated catalogue, technical manuals, etc.