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A point of reference. For simplicity and effectiveness A complete series, versatile and easy to install

Efficiency, safety, integration: the new System pro *E* comfort MISTRAL65 series rests on the strengths which have consolidated ABB's image over the years for its expertise and reliability in the area of products for protection, control, monitoring, measurement, safety and energy efficiency. These innovative IP65 rated consumer units complete ABB's wide product range for the industrial sector, but also the range for the commercial and residential sectors, in which ABB is represented in the market with the Élos and Chiara ranges of cabling accessories, the integrated Mylos system for home and building automation, the 2Line Musa & Zenith intercom and video intercom systems, and the wireless home automation system DomusTech.

The result of constant research and constant attention paid to technological development, the System pro *E* comfort MISTRAL65 series consumer units are designed to satisfy all requirements electrical installers might have.



The new range of System pro E comfort MISTRAL65 consumer units allows almost any type of electrical distribution system to be implemented in industrial, commercial and residential environments. The consumer units are manufactured in a halogen-free thermoplastic which is completely recyclable. The range includes solutions with transparent or opaque doors which open up to 180°, and a choice of between 4 and 72 modules, meeting the most recent regulatory requirements and ensuring an enormous variety of application types are covered. The refined design is marked by some particular characteristics, for example the perfect symmetry, which allows either the whole consumer unit or just the front panel to be rotated, easily changing the door opening side.

In the multi-row versions, the centre distance of the DIN rails can be varied from 150 mm to 125 mm, further increasing the versatility of the product and using the same standard accessories.

The frame is extractable for quick and easy bench cabling. The ample internal space makes the cables more accessible, facilitating cabling and giving the possibility to anchor the cable-ties to special eyeholes on the frame.

The consumer units are designed to house optional dedicated terminal blocks in two different colour schemes to allow quick and tidy cabling, and making separate power supplies easily recognisable, when used.

The range is completely coordinated with ABB MCBs and MCCBs, all of which can be easily installed simply by moving the rail provided for their housing.

The project design also aimed to optimise cabling, assembly and installation times of the consumer units.

Everything has been designed to make the installer's job quicker and easier, allowing them to implement functional and tidy switchboards.





Innovating today does not just mean looking for functional and technologically advanced solutions. For ABB, being innovative means embracing a longer-term perspective by using eco-compatible materials for our products which respect the environment even at the end of their life cycle. For this reason, 100% recyclable halogen-free thermoplastics have been used for the consumer units. Their environmental compatibility has been assessed using the Life Cycle Assessment (LCA) method, an objective tool for analysing energy and environmental impact which analyses the energy and materials used and the emissions released during production.

A point of arrival. For functions and applications The benefits of a product range designed to last



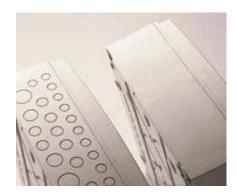
The minimalistic simplicity of the new design combines technological reliability with the most innovative aesthetic trends

The decorative texture of the door underlines the attention to detail and the quality of the finish

The transparent door in the exclusive new petrol blue colour ensures an elegant and original look

The perfect symmetry of the front allows the opening to be completely reversed

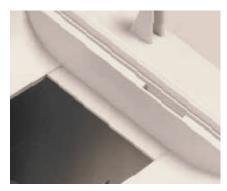
The door has an ergonomic handle with snap-on closing or a lock (optional)



Aside from a series of side knockouts for cable entry and exit, the consumer units can be supplied, on request, with cable entries and exits both at the top and bottom.



Interior slots allow the consumer unit to be fixed to the wall in points which are not visible from the outside, thus contributing to an aesthetically clean installation. Special snap-in closure plugs guarantee protection class II (double insulated).



The possibility to add an additional module by removing two pre-trimmed elements is an extremely useful solution which allows additions to be managed easily and tidily when unforeseen installation requirements are called for.



To speed up cabling and make it neater, various snap-on terminal blocks can be installed (optional and in two different colours), both in the upper and the lower part of the consumer unit. The terminals come in two versions: screw and quickcoupling, for easy and effective cabling with any type of conductor.

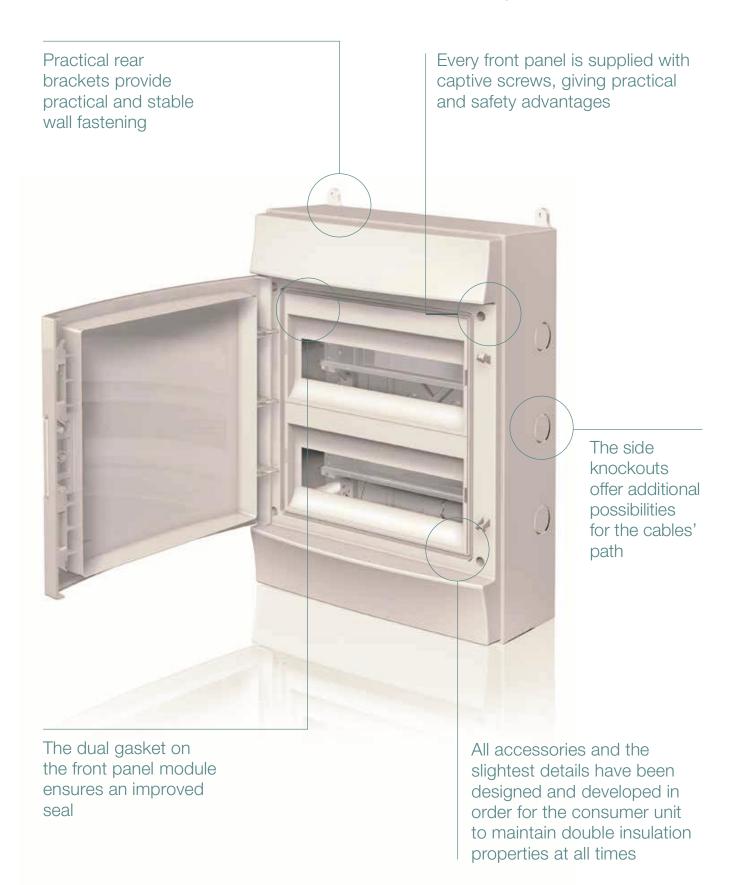


The standard door with ergonomic handle and snap-on closure can be supplied with a lock and key on request, ensuring only authorised persons have access and avoiding tampering or incorrect operations.



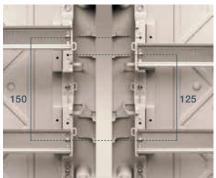
The new polycarbonate accessory for trunking entry can be positioned at the top or bottom of the consumer unit, connecting and protecting the conductor bundles. A series of internal knockouts allows it to house any type of trunking.

A point of view. Never seen before The technical characteristics and installation possibilities





The extractable frame simplifies and speeds up bench cabling operations. The slotted holes in the frame allow it to be quickly fixed inside the enclosure.



In order to create space at the top or bottom of the consumer unit, the centre distance of the DIN rails can be modified from the standard distance of 150 mm to 125 mm. The closure panels, which are completely reversible, can be unhooked, reversed and reinstalled with a simple click.



Spaces have been created inside the consumer units to make cabling even easier, with cable clips and holes for fastening the conductors to the frame with simple cable-ties.



If the consumer unit must be made completely inaccessible, it is possible to use accessories to seal the front panel.



The consumer units can be installed side by side, with cable gland accessories protecting the conductors' path between adjacent units.



The accessories include blind panels and base plates allowing installation of other types of devices aside from modular DIN rail products such as contactors, manual motor starters or devices on the front of the panel.

A point of contact with the world of ABB Perfect coordination with all products

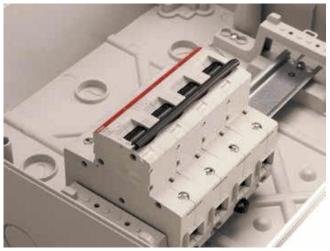
The project was inspired by the objective of allowing a wide range of products and solutions with different functions and dimensions to be installed in a single IP65 consumer unit, thus meeting the widest range of needs.

MCBs, MCCBs and devices installed in the front of the panel in an integrated, rational and functionally appropriate position.





The frame allows for two different DIN rail positions. This allows products with different depths to be installed, for example MCCBs which, thanks to this solution, are perfectly aligned with other devices in the panel.



Among these components with greater depth dimensions which can benefit from this flexibility of the frame, we must remember high-performance MCBs with greater than standard depth.



The first depth level allows standard products to be housed; these include most modular products currently available on the market.

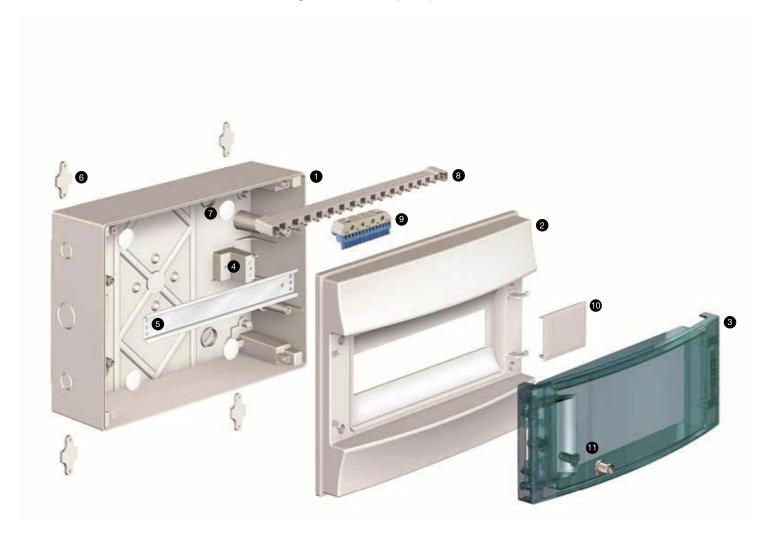


Among the accessories, the availability of blank panels and base plates allows non-modular equipment to be installed on the front of the consumer unit, such as control buttons and indicator lights.

A point of departure for made-to-measure solutions The flexibility of a range designed for every application

The simplicity of the consumer units makes adapting them to various system requirements easy.

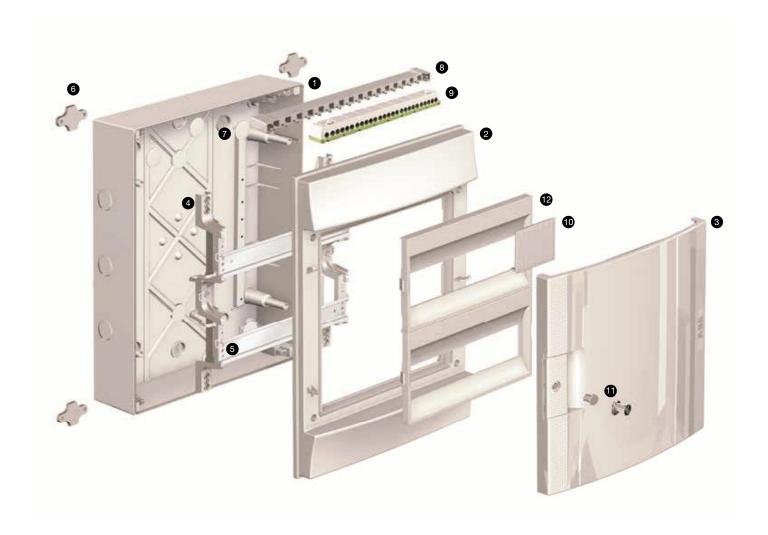
Optional terminal blocks which can be installed in the top or bottom of the consumer unit allow the cabling to be performed in a tidy manner and their different colours facilitate recognition of any separate circuits.



- 1. Box for wall mounting
- 2. Reversible front panel
- 3. Transparent door
- 4. Fixed support for DIN rail
- 5. DIN rail
- 6. Wall fastening brackets

- 7. Plugs, protection class II
- 8. Jumper for terminals
- 9. Quick-coupling terminals
- 10. Module cover
- 11. Finish or closure elements (lock and key optional)

The perfectly symmetrical design of the front panel makes the choice of opening direction for the door simple - this can be changed just by rotating the whole structure, without having to perform risky separation of parts. The extractable doors also facilitate access to the various components installed in the consumer unit.



- 1. Box for wall mounting
- 2. Reversible front panel
- 3. RAL 7035 opaque door
- 4. Fixed support for DIN rail
- 5. DIN rail
- 6. Wall fastening brackets
- 7. Plugs, protection class II

- 8. Jumper for terminals
- 9. Quick-coupling terminals
- 10. Module cover
- 11. Finish or closure elements (lock and key optional)
- 12. Reversible panels

Order codes









18 modules

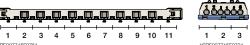


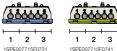
24 modules



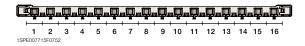
24 modules

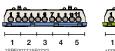
| Description | | N. modules [18 mm] | | ABB code | Order code | Pack./ N. pieces |
|------------------------------------|-----|--------------------------|-------------|-----------------|-----------------|---------------------|
| MISTRAL65 transparent door 8M 12SM | 650 | 8 | 232x250x154 | 1SLM006501A1201 | 1SLM006501A1201 | 1/11 |





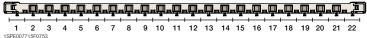
| MISTRAL65 transparent door 12M 22SM | 650 | 12 | 320x250x155 | 1SLM006501A1202 | 1SLM006501A1202 | 1/7 |
|-------------------------------------|-----|----|-------------|-----------------|-----------------|-----|
|-------------------------------------|-----|----|-------------|-----------------|-----------------|-----|







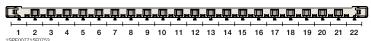
| MISTRAL65 transparent door 18M 12SM 650 18 430x250x155 1SLM006501A1203 15LM006501A1203 1/4 | | | | | | | حمقت قمي | _ قمر |
|--|---|-------------------------------------|-----|----|-------------|-----------------|-----------------|-------|
| | Ī | MISTRAL65 transparent door 18M 12SM | 650 | 18 | 430x250x155 | 1SLM006501A1203 | 1SLM006501A1203 | 1/4 |

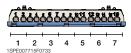


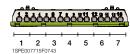




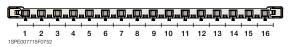
| MISTRAL65 transparent door 18M 32SM | 650 | 18 | 430x250x155 | 1SLM006502A1203 | 1SLM006502A1203 | 1/4 |
|-------------------------------------|-----|----|-------------|-----------------|-----------------|-----|
|-------------------------------------|-----|----|-------------|-----------------|-----------------|-----|







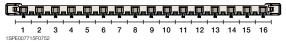
| MISTRAL 65 transparent door 24M 22SM | 650 | 24 | 320x435x155 | 1SI M006501A1204 | 1SI M006501A1204 | 1/4 | |
|--------------------------------------|-----|----|-------------|------------------|------------------|-----|--|

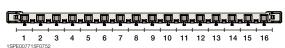


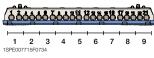


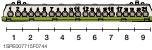


| MISTRAL65 transparent door 24M 42SM | 650 | 24 | 320x435x155 | 1SI M006502A1204 | 1SLM006502A1204 | 1/4 |
|---------------------------------------|-----|------|----------------|------------------|-------------------|------|
| IVIISTRAL65 transparent door 24W 425W | 000 | i 24 | 1 32014331 133 | 15LMUU05U2A12U4 | ISLIVIUU05UZA1ZU4 | 11/4 |

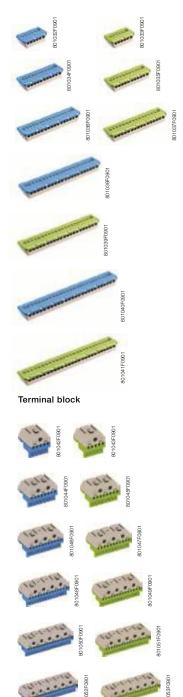








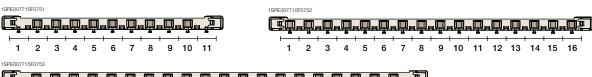
Order codes

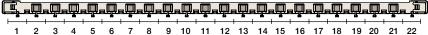


| Description | Maximum current | ABB code | Order code | Pack./ N. pieces |
|---|--------------------|-----------------|-----------------|---------------------|
| Terminal block | 1 | | | - : |
| Terminal block N 3x16mm²+3x6mm² | 100 A | 1SPE007715F0731 | 1SPE007715F0731 | 5/270 |
| Terminal block N 5x16mm²+6x6mm² | 100 A | 1SPE007715F0732 | 1SPE007715F0732 | 5/150 |
| Terminal block N 7x16mm²+9x6mm² | 100 A | 1SPE007715F0733 | 1SPE007715F0733 | 5/120 |
| Terminal block N 9x16mm²+12x6mm² | 100 A | 1SPE007715F0734 | 1SPE007715F0734 | 5/90 |
| Terminal block N 11x16mm²+15x6mm² | 100 A | 1SPE007715F0735 | 1SPE007715F0735 | 5/90 |
| Terminal block PE 3x16mm²+3x6mm² | 100 A | 1SPE007715F0741 | 1SPE007715F0741 | 5/270 |
| Terminal block PE 5x16mm²+6x6mm² | 100 A | 1SPE007715F0742 | 1SPE007715F0742 | 5/150 |
| Terminal block PE 7x16mm²+9x6mm² | 100 A | 1SPE007715F0743 | 1SPE007715F0743 | 5/120 |
| Terminal block PE 9x16mm²+12x6mm² | 100 A | 1SPE007715F0744 | 1SPE007715F0744 | 5/90 |
| Terminal block PE 11x16mm²+15x6mm² | 100 A | 1SPE007715F0745 | 1SPE007715F0745 | 5/90 |
| Terminal block screwless | | | •••••• | |
| Terminal block screwless N 5x1,5-4mm² | 63 A | 1SPE007715F9701 | 1SPE007715F9701 | 5/280 |
| Terminal block screwless N 5x1,5-4mm²+1x25mm² | 63 A | 1SPE007715F9702 | 1SPE007715F9702 | 5/180 |
| Terminal block screwless N 8x1,5-4mm²+2x25mm² | 63 A | 1SPE007715F9703 | 1SPE007715F9703 | 5/150 |
| Terminal block screwless N 11x1,5-4mm²+3x25mm² | 63 A | 1SPE007715F9704 | 1SPE007715F9704 | 5/120 |
| Terminal block screwless N 14x1,5-4mm²+4x25mm² | 63 A | 1SPE007715F9705 | 1SPE007715F9705 | 5/90 |
| Terminal block screwless N 17x1,5-4mm ² +5x25mm ² | 63 A | 1SPE007715F9706 | 1SPE007715F9706 | 5/70 |
| Terminal block screwless N 20x1,5-4mm²+6x25mm² | 63 A | 1SPE007715F9707 | 1SPE007715F9707 | 5/60 |
| Terminal block screwless PE 5x1,5-4mm²+1x25mm² | 63 A | 1SPE007715F9712 | 1SPE007715F9712 | 5/180 |
| Terminal block screwless PE 8x1,5-4mm²+2x25mm² | 63 A | 1SPE007715F9713 | 1SPE007715F9713 | 5/150 |
| Terminal block screwless PE 11x1,5-4mm²+3x25mm² | 63 A | 1SPE007715F9714 | 1SPE007715F9714 | 5/120 |
| Terminal block screwless PE 14x1,5-4mm²+4x25mm² | 63 A | 1SPE007715F9715 | 1SPE007715F9715 | 5/90 |
| Terminal block screwless PE 17x1,5-4mm²+5x25mm² | 63 A | 1SPE007715F9716 | 1SPE007715F9716 | 5/70 |
| Terminal block screwless PE 20x1,5-4mm²+6x25mm² | 63 A | 1SPE007715F9717 | 1SPE007715F9717 | 5/60 |

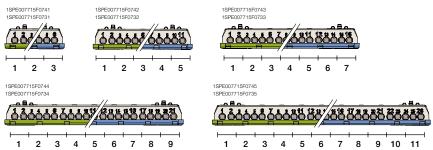
Terminal blocks

Terminal carriers

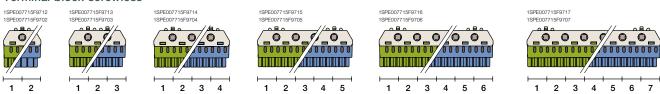




Terminal block



Terminal block screwless



Assembly examples

