

GENERAL CATALOGUE

Enclosures for Automation

IS2 Enclosures, Gemini switchboards,
SR2 Enclosures, AM2 Cabinets.



- IS2 New Range Extension height 1400 and height 1600 mm.

Enclosures for automation

General Catalogue

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Introduction

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Enclosure for Automation. Great quality, economically unbeatable.

1



A solution for every application

The ABB range of metal structures for automation was conceived and designed based on many years' experience of working alongside the major switchboard and machine manufacturers in Italy and on the most highly industrialised and technological world markets. The metal structures conform to the IEC 62208 and IEC 60439-1 reference Standards and to the new IEC 61439-1-2 Standard. Their performances are the market reference ones: high IP degrees of protection (according to IEC 60529) and IK (according to IEC 62262), which allow installation in most industrial environments.



Ideal enclosures, special apparatus

Where the new enclosures for automation are the most advanced to be found on the market today, ABB's automation apparatus is also a synonym of technological innovation. The enclosures for automation are, of course, integrated with the various ABB control and operating apparatus, and all the electrical and mechanical values (dissipation, short-time withstand currents, insulation distances, etc.) have been analysed and checked by the manufacturer. They also offer a high level of preparation for assembly of the apparatus, with optimised hole drillings, fixings and overall dimensions.

And all this is to save you time!

The safety provided by a certified product.

1

The law states that all the products must conform to the European Directives and to the reference product Standards, but this is not enough for ABB. We prefer an external organization to certify the quality of our products, especially with regard to the more critical aspects, both in technical and application terms.

All the products in the range are also UL approved to satisfy requests from markets where this mark is compulsory.

The technical characteristics and high degree of protection allow their use in environments with a potentially explosive atmosphere.

In fact, the switchgear and enclosures conform to the ATEX 99/92/CE and 94/9/CE Directive (suitable for use in areas 2 and 22).

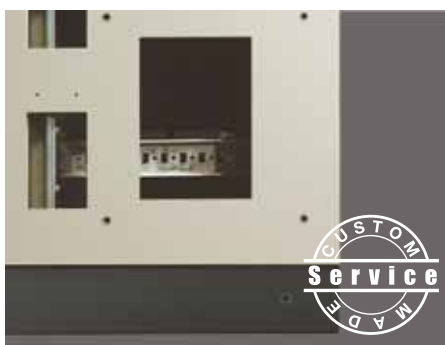
The IS2 enclosure versions dedicated to uses where electromagnetic compatibility (EMC) is required, have also obtained the relative certification.



Customized directly in the factory.

CUSTOM MADE SERVICE is ABB's new service for automation metal structures, which, on request, are supplied painted, drilled and, where necessary, assembled according to the customer's specific requirements. All the components in the catalogue marked with the following stamp can use this service.

1



Painting

A shade of color other than the standard one (grey orange peel RAL 7035) can be requested on the mounted versions of the enclosure.

For the various colors/finishes and for details of the painting cycle characteristics, please consult page 8/13 of this catalogue.

Customized drilling

CUSTOM MADE SERVICE offers a drilling service complying with your own specific drawing, made using CAD dwg or dxf format drawings. The useful dimensions for drilling are indicated on page 9/49 and the following.

Enclosure/Accessories assembly

Should you prefer a solution ready to be worked, you can choose the Custom Made Service solution dedicated to battery assembly of several columns.

The accessories can also be supplied already factory-mounted by ABB.

Instruction manuals

Detailed multi-language instruction manuals, including drawings, show the correct way to assemble the structures and the components inside them. User compliance with manufacturer instructions allows the set-up of correctly selected and assembled electrical enclosures which conform to EN 60439-1 and the new 61439-1-2 (CEI 17/13-1) in accordance with the European Community Low Voltage Directive (Directive 2006/95/ EC which substitutes 73/23/EEC and subsequent amendments.



Gemini switchboards

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Gemini switchboards

General

In the preparation of insulating panels in low voltage, the Gemini series of ABB ensures maximum protection and proper operating condition of all equipment modular.

2

ABB SACE's Gemini range is revolutionizing the market of low voltage electric insulating switchboards.

The reason for this is that it is the first switchboard made of thermoplastic material, to which the co-injection molding technique gives the same mechanical characteristics as polyester.

This means that it is extremely sturdy, with its rigid covering and

expanded internal core. Moreover, it contains no fibreglass, a material that with time rises to the surface, jeopardizing operation and safety of switchboards made of polyester with which it is usually mixed.

Gemini switchboards have IP66 degree of protection (IP30 with the door open and with the appropriate components installed) and



Gemini switchboards are made with co-injection, which ABB SACE is the first manufacturer in the electric field to use as a molding technique. This process obtains a "sandwich" of two materials with a compact external covering and an expanded core, guaranteeing the highest level of mechanical protection against impacts (IK10) without the need to add hardening substances.



a very high resistance to chemical and atmospheric agents. This is the reason why Gemini guarantees excellent performances even in particularly severe operating conditions.

In distribution and mixed applications, the Gemini switchboard is designed to be fitted with System pro *M* modular devices and Tmax moulded-case circuit breakers.

Gemini switchboards are designed to be perfectly compatible with ABB components for low voltage control and monitoring.

For these applications they can be equipped with modular devices belonging to the System pro *M* range, with Tmax moulded-case circuit-breakers and control and signaling devices, creating a truly integrated automation system. When deciding the Gemini layout for control and monitoring applications, not only is it

possible to select the box and door in the required size, but you can also select the base plate in one of the three versions in the range. After wiring with the ducts and the Fix-O-Rapid device, the special standard adjustable feet and hooks must be fitted onto the base plate, allowing it to be inserted inside the box at up to seven different depths and three further levels of adjustment: no tools need to be used to carry out these operations. To finish the job, the inner door can be mounted (reversible and made of insulating material), guaranteeing IP30 degree of protection when the switchboard door is open. No tools are needed unless the inner door is equipped with pushbuttons, warning lights, etc.

To complete the job you can mount the door (reversible and made of insulating material), which guarantees the degree of protection IP30 when the cabinet door is opened. There is no need to use tools unless the inner door is not equipped with buttons, lights etc..



Gemini switchboards

General

In compliance with the safety standards, all components of the framework are applicable on the bottom plate or on the frame without the using any tools.

2



The fixing hooks and feet supplied in the standard versions are applied without having to use tools, making it possible to install the base plate at seven different depths inside the switchboard. They can also be adjusted at three further positions.



Application of the inner door guarantees IP40 degree of protection when the switchboard door is open.



The application of the inner door ensures the degree of protection IP30 when the cabinet door is open. The base plate can be snap-mounted inside the switchboard.



Example of a switchboard configuration for an automation application: some ABB control and protection devices are installed on the plate. The inner door is fitted with light signalling devices.

Gemini can be used in any environment, even extreme: it is the first picture in thermoplastic material with a degree of protection IP66.



Technical characteristics

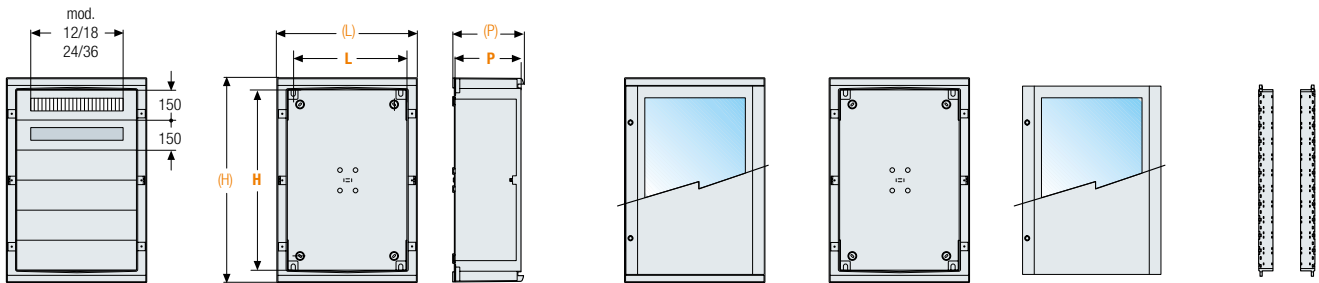
| | |
|--------------------------------------|--------------------------------------------------------------------------------------------|
| Compliance with Standards | CEI EN 50298, CEI 23-48, CEI 23-49, IEC 60670, CEI EN 60439-1 CEI EN 62208 - IEC 61439-1-2 |
| Rated service voltage | Ue 1000 V AC - 1500 V DC |
| Operating temperature °C | -25 °C + 100 °C |
| Resistance to abnormal heat and fire | up to 750 °C |
| Degree of resistance to impacts | IK10 (IEC 62262) |
| Degree of protection (CEI EN 60529) | IP 30 open door IP 66 closed door |
| Recyclable | 100% |

Gemini switchboards

Quick selection table

Quick selection table

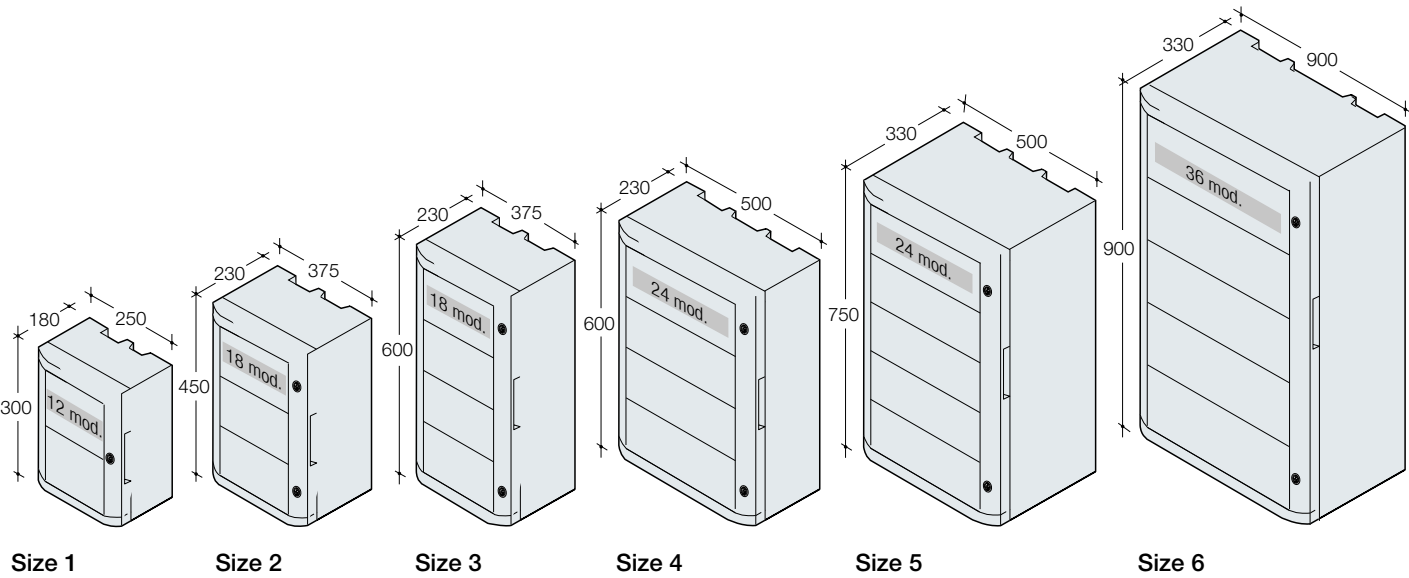
2

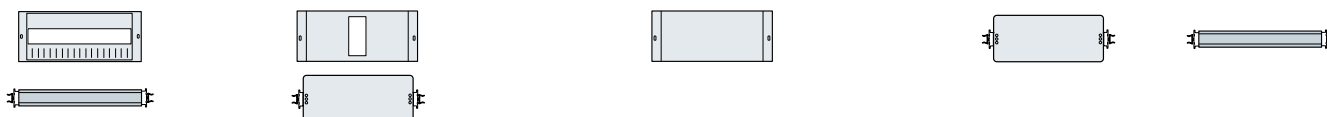


| Size | No. of vertical mod. H=150mm | No. of DIN modules installable | External dimensions | | | Internal dimensions | | | Complete switchboard door | | Box | Door | | Uprights | |
|------|---------------------------------|--------------------------------|---------------------|--------|--------|---------------------|------|------|---------------------------|------------|------------|-------------|------------|------------|--|
| | | | (H) mm | (W) mm | (D) mm | H mm | W mm | D mm | Transparent | Opaque | | Transparent | Opaque | | |
| 1 | 2 | 24 (12x2) | 400 | 335 | 210 | 300 | 250 | 180 | 1SL0211A00 | 1SL0201A00 | 1SL0221A00 | 1SL0241A00 | 1SL0231A00 | 1SL0283A00 | |
| 2 | 3 | 54 (18x3) | 550 | 460 | 260 | 450 | 375 | 230 | 1SL0212A00 | 1SL0202A00 | 1SL0222A00 | 1SL0242A00 | 1SL0232A00 | 1SL0284A00 | |
| 3 | 4 | 72 (18x4) | 700 | 460 | 260 | 600 | 375 | 230 | 1SL0213A00 | 1SL0203A00 | 1SL0223A00 | 1SL0243A00 | 1SL0233A00 | 1SL0285A00 | |
| 4 | 4 | 96 (24x4) | 700 | 580 | 260 | 600 | 500 | 230 | 1SL0214A00 | 1SL0204A00 | 1SL0224A00 | 1SL0244A00 | 1SL0234A00 | 1SL0285A00 | |
| 5 | 5 | 120 (24x5) | 855 | 585 | 360 | 750 | 500 | 330 | 1SL0215A00 | 1SL0205A00 | 1SL0225A00 | 1SL0245A00 | 1SL0235A00 | 1SL0286A00 | |
| 6 | 6 | 216 (36x6) | 1005 | 840 | 360 | 900 | 750 | 330 | 1SL0216A00 | 1SL0206A00 | 1SL0226A00 | 1SL0246A00 | 1SL0236A00 | 1SL0287A00 | |

Sizes available

Available in 6 different sizes with transparent or opaque door, the Gemini switchboards are suitable for installation in any application context.





| DIN rail kit DIN rail+drilled panel | | Kit for Tmax plate+drilled panel | | Blank panel | | | Modular plate | | DIN rail |
|----------------------------------------|-----------------------|-------------------------------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|------------|
| 1 mod. H=150mm | 1+1/2 mod. H=225mm | 1 mod. H=150mm | 2 mod. H=300mm | 1/2 mod. H=75mm | 1 mod. H=150mm | 2 mod. H=300mm | 1 mod. H=150mm | 2 mod. H=300mm | |
| 1SL0307A00 | - | - | - | 1SL0318A00 | 1SL0324A00 | 1SL0330A00 | 1SL0296A00 | - | 1SL0290A00 |
| 1SL0308A00 | 1SL0313A00 | 1SL0336A00 | 1SL0370A00 | 1SL0319A00 | 1SL0325A00 | 1SL0331A00 | 1SL0297A00 | 1SL0302A00 | 1SL0291A00 |
| 1SL0308A00 | 1SL0313A00 | 1SL0336A00 | 1SL0370A00 | 1SL0319A00 | 1SL0325A00 | 1SL0331A00 | 1SL0297A00 | 1SL0302A00 | 1SL0291A00 |
| 1SL0309A00 | 1SL0314A00 | 1SL0337A00 | 1SL0371A00 | 1SL0320A00 | 1SL0326A00 | 1SL0332A00 | 1SL0298A00 | 1SL0303A00 | 1SL0292A00 |
| 1SL0309A00 | 1SL0314A00 | 1SL0337A00 | 1SL0371A00 | 1SL0320A00 | 1SL0326A00 | 1SL0332A00 | 1SL0298A00 | 1SL0303A00 | 1SL0292A00 |
| 1SL0310A00 | 1SL0315A00 | 1SL0338A00 | 1SL0372A00 | 1SL0321A00 | 1SL0327A00 | 1SL0333A00 | 1SL0299A00 | 1SL0304A00 | 1SL0293A00 |

Gemini switchboards

Quick selection table

2

Indications for installation of Tmax moulded-case circuit breakers

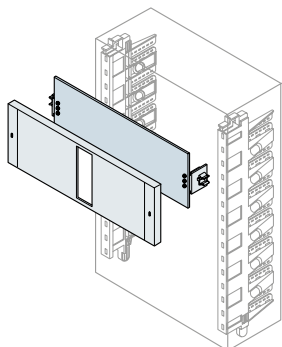
The table indicates the type of installation required for the different versions of Tmax moulded-case circuit breakers in Gemini switchboards. Before carrying out wiring operations, check compliance with Standards on the basis of the technical characteristics of the switchboard and circuit breaker (CEI 23-51 or CEI EN 60439-1).

| Size | Installation | T1 | | | | T2 | | | | T3 | | | | T4 | | | | T5 | | | | XT1 | | | | XT2 | | | | XT3 | | | | XT4 | | | |
|------|--------------|----|----|------|------|----|----|------|------|----|----|------|------|----|----|------|------|----|----|------|------|-----|----|------|------|-----|----|------|------|-----|----|------|------|-----|--|--|--|
| | | 3p | 4p | 3p D | 4p D | 3p | 4p | 3p D | 4p D | 3p | 4p | 3p D | 4p D | 3p | 4p | 3p D | 4p D | 3p | 4p | 3p D | 4p D | 3p | 4p | 3p D | 4p D | 3p | 4p | 3p D | 4p D | 3p | 4p | 3p D | 4p D | | | | |
| 1 | D | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | |
| | O1 | ■ | ■ | | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | | ■ | ■ | ■ | ■ | ■ | ■ | | | | ■ | ■ | | | | | | |
| | T | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | ■ | ■ | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | |
| 2 | D | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | |
| | K1 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | | | ■ | ■ | ■ | | | | | | | | | | | | | | |
| | K2 | | | | | | | | ■ | ■ | ■ | ■ | ■ | | | | | | | | | ■ | ■ | ■ | | ■ | ■ | ■ | ■ | | | | | | | | |
| | O1 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | ■ | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | |
| | O2 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | |
| | T | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | D | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | |
| | K1 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | | | ■ | ■ | ■ | | | | | | | | | | | | | | |
| | K2 | | | | | | | | ■ | ■ | ■ | ■ | ■ | | | | | | | | | ■ | ■ | ■ | | ■ | ■ | ■ | ■ | | | | | | | | |
| | O1 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | ■ | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | |
| | O2 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | |
| | T | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | D | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | |
| | K1 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | | | ■ | ■ | ■ | | | | | | | | | | | | | | |
| | K2 | | | | | | | | ■ | ■ | ■ | ■ | ■ | | | | | | | | | ■ | ■ | ■ | | ■ | ■ | ■ | ■ | | | | | | | | |
| | O1 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | ■ | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | |
| | O2 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | |
| | T | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | D | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | |
| | K1 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | | | ■ | ■ | ■ | | | | | | | | | | | | | | |
| | K2 | | | | | | | | ■ | ■ | ■ | ■ | ■ | | | | | | | | | ■ | ■ | ■ | | ■ | ■ | ■ | ■ | | | | | | | | |
| | O1 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | ■ | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | |
| | O2 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | |
| | T | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | D | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | |
| | K1 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | | | ■ | ■ | ■ | | | | | | | | | | | | | | |
| | K2 | | | | | | | | ■ | ■ | ■ | ■ | ■ | | | | | | | | | ■ | ■ | ■ | | ■ | ■ | ■ | ■ | | | | | | | | |
| | O1 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | ■ | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | |
| | O2 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | |
| | T | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Caption

- D, installation on DIN rail
- K1, installation with Tmax kit H = 150 (holes made)
- K2, installation with Tmax kit H = 300 (holes made)
- O1, installation on modular plate (1 module, H = 150 mm)
- O2, installation on modular plate (2 modules, H = 300 mm)
- T, installation on total base plate

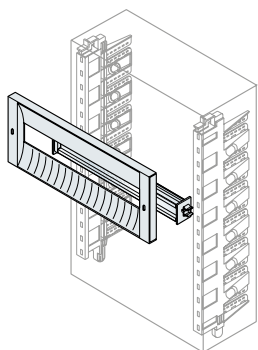
Horizontal installation



Kit for Tmax with pre-drilled holes

| Fixed circuit-breaker Size with front terminals | No. poles | Dimensions H (mm) | Size/Codes | | |
|----------------------------------------------------|-----------|-------------------|------------|------------|------------|
| | | | 2/3 | 4/5 | 6 |
| Tmax T1 | 03/4 | 150 | 1SL0336A00 | 1SL0337A00 | 1SL0338A00 |
| Tmax T2 | 03/4 | 150 | 1SL0336A00 | 1SL0337A00 | 1SL0338A00 |
| Tmax T2+diff.le | 3 | 300 | 1SL0370A00 | 1SL0371A00 | 1SL0372A00 |
| Tmax T3 | 03/4 | 300 | 1SL0370A00 | 1SL0371A00 | 1SL0372A00 |

Vertical installation



Installation on DIN rail

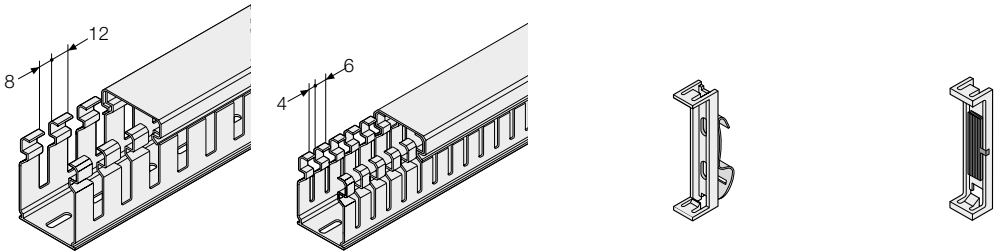
| Fixed circuit-breaker Size with front terminals | No. poles | Dimensions H (mm) | Size/Codes | | | |
|----------------------------------------------------|-----------|-------------------|------------|------------|------------|------------|
| | | | 1 | 2/3 | 4/5 | 6 |
| System Pro <i>M</i> compact modular apparatus | | 150 | 1SL0307A00 | 1SL0308A00 | 1SL0309A00 | 1SL0310A00 |
| | | 225 | | 1SL0313A00 | 1SL0314A00 | 1SL0315A00 |
| Tmax T1-T2-T3 | 3/4 | 225 | | 1SL0313A00 | 1SL0314A00 | 1SL0315A00 |

Gemini switchboards

Kit for installing apparatus

Wiring ducts


2




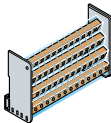
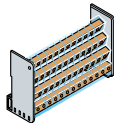
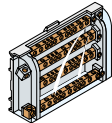

| | | Wiring ducts | | Fix-0-rapid | |
|-----------|--------|---------------|--------------|----------------------------------|-------------------------------|
| Base (mm) | H (mm) | 8-12 mm Slots | 4-6 mm Slots | Quick snap-on bases for DIN rail | Quick snap-on bases for plate |
| 15 | 17 | 05 019 | 05 119 | - | - |
| 25 | 30 | 05 033 | 05 133 | 05 250 | 05 270 |
| | 40 | 05 043 | 05 143 | | |
| | 60 | 05 063 | 05 163 | | |
| | 80 | 05 083 | 05 183 | | |
| | 100 | 05 094 | 05 194 | | |
| 40 | 30 | 05 035 | 05 135 | 05 252 | 05 272 |
| | 40 | 05 045 | 05 145 | | |
| | 60 | 05 065 | 05 165 | | |
| | 80 | 05 085 | 05 185 | | |
| | 100 | 05 095 | 05 195 | | |
| 60 | 30 | 05 037 | 05 137 | 05 254 | 05 274 |
| | 40 | 05 047 | 05 147 | | |
| | 60 | 05 067 | 05 167 | | |
| | 80 | 05 087 | 05 187 | | |
| | 100 | 05 096 | 05 196 | | |
| 80 | 40 | 05 049 | 05 149 | 05 256 | 05 276 |
| | 60 | 05 069 | 05 169 | | |
| | 80 | 05 089 | 05 189 | | |
| | 100 | 05 097 | 05 197 | | |
| 100 | 40 | 05 051 | 05 151 | 05 258 | 05 278 |
| | 60 | 05 071 | 05 171 | | |
| | 80 | 05 091 | 05 191 | | |
| | 100 | 05 098 | 05 198 | | |
| 120 | 40 | 05 053 | 05 153 | 05 260 | 05 280 |
| | 80 | 05 093 | 05 193 | | |
| 150 | 100 | 05 099 | 05 199 | 05 262 | 05 282 |

Distribution systems

Modular dividers

| | | | | | | | | | | | | |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------------------------------------------------------------------|---------|-----------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------------------------------------|---------|-----------------------------------------|--------------------------|
| Single-pole |  | |  | |  | |  | |  | | | |
| Mark | <div><div>CE</div><div>IEC</div><div>RoHS</div><div>UL</div><div>CSA</div><div>EAC</div></div> | | | | | | | | | | | |
| Code | 1SNL312510R0000* | | 1SNL316010R0000* | | 1SNL317510R0000 | | 1SNL325010R0000 | | 1SNL340010R0000 | | | |
| Main technical data | | | | | | | | | | | | |
| Connecting capacity | IEC | | UL | | IEC | | UL | | IEC | | UL | |
| Max current / Copper | 125A/35mm² | | 115A/2AWG | | 160A/70mm² | | 160A/2/0AWG | | 250A/120mm² | | 255A/250Kcmil | |
| Max cross section Aluminium | 100A/35mm² | | 135A/70mm² | | 135A/70mm² | | 200A/120mm² | | 300A/185mm² | | 335A/400Kcmil | |
| Rated voltage | 1000VAC/ 1500VDC | | 1000V | | 1000VAC/ 1500VDC | | 1000V | | 1000VAC/ 1500VDC | | 1000V | |
| Rated impulse voltage | | | | | | | | | | | | |
| Short-time withstand current (I _{cw} 1s) | 4000A | | 11000A | | 11000A | | 21000A | | 21000A | | | |
| Short Circuit Current Rating (SCCR) | | | 100kA | | 100kA | | 100kA | | 100kA | | 100kA | |
| Rated peak withstand current (I _{pk}) | 30kA | | 30kA | | 30kA | | 51kA | | 51kA | | | |
| Protection | IP20 | | NEMA1 | | IP10 | | NEMA1 | | IP10 | | NEMA1 | |
| Connection type/ Cross section | Connection type (mm)Cross section (mm²) | | Connection type (mm)Cross section (mm²) | | Connection type (mm)Cross section (mm²) | | Connection type (mm)Cross section (mm²) | | Connection type (mm)Cross section (mm²) | | Connection type (mm)Cross section (mm²) | |
| | 1xØ9.8 | 10...35 8...2AWG | 10...35 8...2AWG | 1xØ11.8 | 16...50 8...1/0AWG | 16...70 6...2/0AWG | 2xØ11.8 | 10...50 8...1/0AWG | 10...70 6...2/0AWG | 1xØ15.3 | 35...95 2...3/0AWG | 35...120 2...250Kcmil |
| | 1xØ6.8 | 2.5...16 14...6AWG | 6...16 10...6AWG | 1xØ6.8 | 2.5...16 14...6AWG | 6...16 10...6AWG | 10xØ6.4 | 2.5...16 14...6AWG | 2.5...16 14...6AWG | 2xØ8.7 | 2.5...25 14...4AWG | 2.5...35 14...2AWG |
| | 6xØ6.4 | 2.5...16 14...6AWG | 2.5...16 14...6AWG | 6xØ6.4 | 2.5...16 14...6AWG | 2.5...16 14...6AWG | | | | 5xØ6.4 | 2.5...16 14...6AWG | 2.5...16 14...6AWG |
| | | | | | | | | | | 4xØ5.7 | 2.5...10 14...8AWG | 2.5...10 14...8AWG |

* For three poles version, order 3 pcs. of 1SNL.... code. For further data, please see Technical catalogue Nr. 1SNC166001B0202

| | | | | | |
|--------------------------------------|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Four-poles | |  |  |  |  |
| Mark | |  | | | |
| Code | | AD1004 | AD1028 | AD1029 | AD1027 |
| In | (A) | 125 | 125 | 125 | 160 |
| I _{cw} | (kA) | 10 | 4.2 | 4.2 | 6.2 |
| I _{pk} | (kA) | 24 | 25 | 25 | 20 |
| Version | poles | 4.2 | 4 | 4 | 4 |
| Installation | | DIN35/plate | DIN35/plate | DIN35/plate | DIN35 |
| Power supplye Ø cable (mm²) | min. | 6 | 6 | 6 | 10 |
| | max | 35 | 25 with cable terminal | 25 with cable terminal | 50 |
| No.outgoing feeder (mm²) Ø cable | | With cable lugs | Rigid cable | Rigid cable | Rigid cable |
| | | 5L, 4Nx1,5-6mm² | 7x1,5-10mm² | 9x1,5-10mm² | 8x2,25-25mm² |
| | | 2L, 6Nx4-10mm² | 2x6-25mm² | 2x1,5-16mm² | 1x10-50mm² |
| | | 1L, 1Nx6-25mm² | With cable lugs | 2x6-25mm² | 3x16-35mm² |
| | | Without cable lugs | 7x1,5-10mm² | With cable lugs | With cable lugs |
| | | 5L, 4Nx1,5-6mm² | 2x6-16mm² | 2x1,5-6mm² | 8x2,5-16mm² |
| | | 2L, 6Nx4-10mm² | Without cable lugs | 9x1,5-10mm² | 3x6-25mm² |
| | | 1L, 1Nx6-35mm² | 7x2,5-16mm² | 2x6-16mm² | 1x10-35mm² |
| | | | 2x6-35mm² | Without cable lugs | Without cable lugs |
| | | | | 11x2,5-16mm² | 8x6-16mm² |
| | | | 2x6-35mm2 | 3x6-25mm² | |
| | | | | 1x10-35mm² | |
| Dimensions HxWxD | (mm) | 74.5x98x45 | 93x89x48 | 96x126x48 | 90x160.5x50 |
| No. DIN modules | | 5,5 | 5 | 7 | 9 |
| Rated service voltage U _e | (V) | 1000 Vac 1500 Vdc | 440 | 440 | 440 |
| Degree of protection | IP | 20 | 20 | 20 | 20 |

> Ordering codes page 2/12 > In-depth technical information page 7/1 > Overall dimensions page 8/1

Gemini switchboards

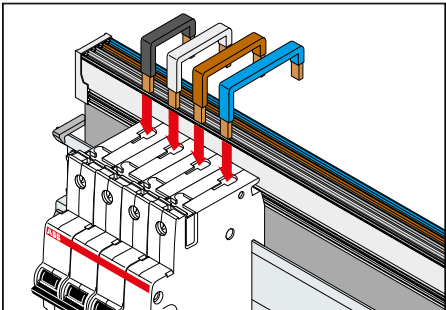
Distribution systems

Unifix L

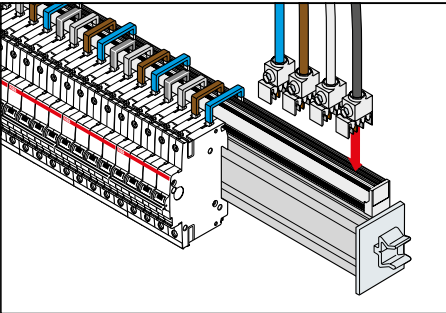
| Technical characteristics | | Unifix L |
|-------------------------------------------------|----------------------|--------------------------------------------|
| Rated service voltage (U_n) | | 400V AC |
| Rated insulation voltage (U_i) | | 500V AC |
| Rated impulse withstand voltage (U_{imp}) | | 6kV |
| Rated frequency | | 50/60Hz |
| Rated current (I_n) | central power supply | 100A |
| | lateral power supply | 80A |
| Rated short-time withstand current (I_{cw}) | | |
| Maximum peak current (I_{pk}) | | |
| Maximum installable circuit-breaker size | | 100A |
| Conditioned short-circuit current (I_{sc}) | Tmax T1 | |
| | Tmax T2 N, S | |
| | Tmax T3 | |
| With circuit-breaker | S200 | 6kA-400V |
| | S200M | 10kA-400V |
| | S200P | 25kA-400V |
| | | |
| Degree of protection | | IP20 |
| Characteristics of the insulating material | | Self-extinguishing thermoplastic V1 (UL94) |
| Characteristics of the conductor material | | Electrolytic copper |
| Width (No. modules/mm) | | 12/400 |
| | | 18/500 |
| | | 24/600 |
| | | 36/800 |

| Circuit-breaker series | Unifix L |
|------------------------------------------|----------------------------------------------|
| SN201 DS201 | ED3272 L1/N 40A |
| | ED3280 L2/N 40A |
| | ED3298 L3/N 40A |
| S200 F200 | ED3033 L1 100A |
| | ED3041 L2 100A |
| | ED3058 L3 100A |
| | ED3066 N 100A |
| F660-F670-S280 (80-100A) E200 - RS370 | ED3132 Power supply L1/L2/L3/N - 350mm |
| | ED0026 Power supply L1/L2/L3/N - 1500mm |
| | ED0025 Power supply L1/L2/L3/N - 2500mm |
| MDRC - Various apparatus | ED3108 Power supply 2 cables L1/N 16A |
| | ED3116 Power supply 3 cables L1/L2/L3 16A |
| | ED3124 Power supply 4 cables L1/L2/L3/N 16A |
| | ED3355 APower supply 2 cables L1/N 40A |
| | ED3363 Power supply 3 cables L1/L2/L3 40A |
| | ED3371 Power supply 42 cables L1/L2/L3/N 71A |

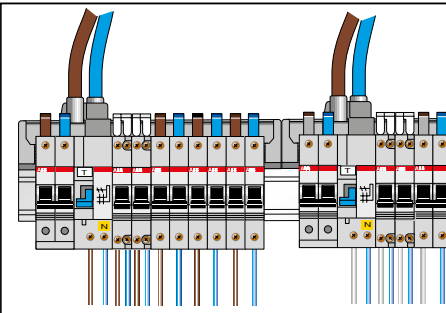
For the DDA locks, order the false module **ED2845** codes separately according to the size of the residual current lock



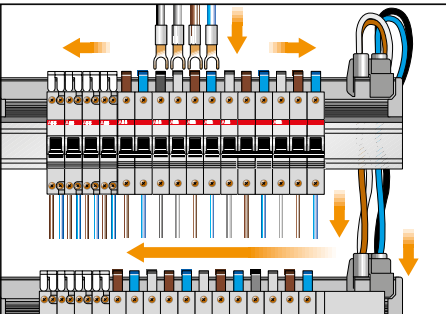
Connections (L1-L2-L3-N) for System Pro M modular apparatus.



Power supply of the busbar with 100A feeder module without cable. Terminal capacity 35mm².



Direct power supply of the busbars by means of feeder module.



Power supply by means of modules and cables in parallel.

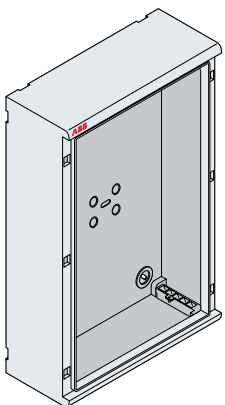
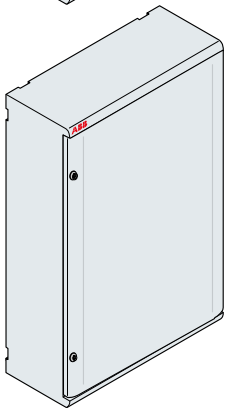
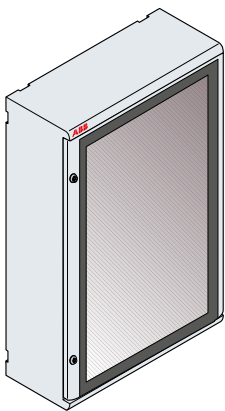
Ordering codes

Boxes and doors

Structures with doors

- Available in 6 sizes
- Single order code combined with box and transparent and opaque door
- Pack with door dismounted and wrapped separately
- Door designed so that it can be hooked onto hinges on both vertical sides and mounted without the use of tools
- To be mounted on the wall using internal holes or fixing brackets supplied as accessories
- Door opening at an angle of more than 180°
- Grey RAL 7035 colour
- Doors supplied with 2 standard double bit locks (3 for sizes 5 and 6) that can be replaced with locks for coded key or with square/triangular impression (the standard triplex key is suitable for use with three types of impression).

2



Structure with transparent door

| Size | No. vertical mod. H=150mm | Useful dimensions WxHxD (mm) | Code | Package/ No. of pieces |
|------|---------------------------|------------------------------|------------|------------------------|
| 1 | 2 | 250x300x180 | 1SL0211A00 | 1/1 |
| 2 | 3 | 375x450x230 | 1SL0212A00 | 1/1 |
| 3 | 4 | 375x600x230 | 1SL0213A00 | 1/1 |
| 4 | 4 | 500x600x230 | 1SL0214A00 | 1/1 |
| 5 | 5 | 500x750x330 | 1SL0215A00 | 1/1 |
| 6 | 6 | 750x900x330 | 1SL0216A00 | 1/1 |

Structure with opaque door

| Size | No. vertical mod. H=150mm | Useful dimensions WxHxD (mm) | Code | Package/ No. of pieces |
|------|---------------------------|------------------------------|------------|------------------------|
| 1 | 2 | 250x300x180 | 1SL0201A00 | 1/1 |
| 2 | 3 | 375x450x230 | 1SL0202A00 | 1/1 |
| 3 | 4 | 375x600x230 | 1SL0203A00 | 1/1 |
| 4 | 4 | 500x600x230 | 1SL0204A00 | 1/1 |
| 5 | 5 | 500x750x330 | 1SL0205A00 | 1/1 |
| 6 | 6 | 750x900x330 | 1SL0206A00 | 1/1 |

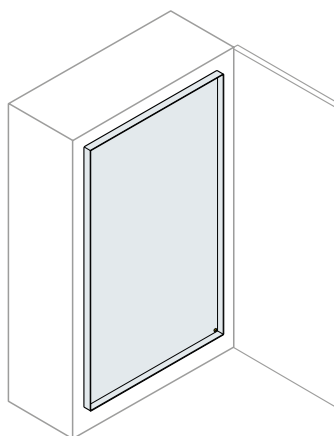
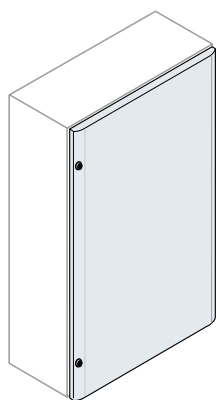
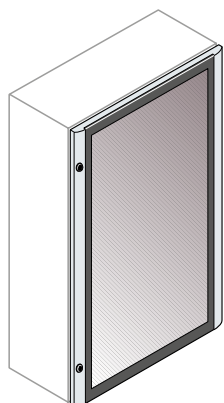
Structures without doors

| Size | No. vertical mod. H=150mm | Useful dimensions WxHxD (mm) | Code | Package/ No. of pieces |
|------|---------------------------|------------------------------|------------|------------------------|
| 1 | 2 | 250x300x180 | 1SL0221A00 | 1/1 |
| 2 | 3 | 375x450x230 | 1SL0222A00 | 1/1 |
| 3 | 4 | 375x600x230 | 1SL0223A00 | 1/1 |
| 4 | 4 | 500x600x230 | 1SL0224A00 | 1/1 |
| 5 | 5 | 500x750x330 | 1SL0225A00 | 1/1 |
| 6 | 6 | 750x900x330 | 1SL0226A00 | 1/1 |

Gemini switchboards

Ordering codes

2



Structure

Single doors

| Transparent door | | | | | | |
|------------------|---------------------------|------------------------------|------------|--|--|------------------------|
| Size | No. vertical mod. H=150mm | Useful dimensions WxHxD (mm) | Code | | | Package/ No. of pieces |
| 1 | 2 | 250x300x180 | 1SL0241A00 | | | 1/1 |
| 2 | 3 | 375x450x230 | 1SL0242A00 | | | 1/1 |
| 3 | 4 | 375x600x230 | 1SL0243A00 | | | 1/1 |
| 4 | 4 | 500x600x230 | 1SL0244A00 | | | 1/1 |
| 5 | 5 | 500x750x330 | 1SL0245A00 | | | 1/1 |
| 6 | 6 | 750x900x330 | 1SL0246A00 | | | 1/1 |

| Opaque door | | | | | | |
|-------------|---------------------------|------------------------------|------------|--|--|------------------------|
| Size | No. vertical mod. H=150mm | Useful dimensions WxHxD (mm) | Code | | | Package/ No. of pieces |
| 1 | 2 | 250x300x180 | 1SL0231A00 | | | 1/1 |
| 2 | 3 | 375x450x230 | 1SL0232A00 | | | 1/1 |
| 3 | 4 | 375x600x230 | 1SL0233A00 | | | 1/1 |
| 4 | 4 | 500x600x230 | 1SL0234A00 | | | 1/1 |
| 5 | 5 | 500x750x330 | 1SL0235A00 | | | 1/1 |
| 6 | 6 | 750x900x330 | 1SL0236A00 | | | 1/1 |

Inner doors

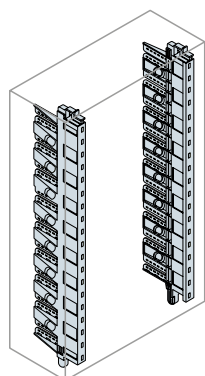
- Made of insulating material
- IP30 degree of protection with door open
- Designed so that door can be hinged on both vertical sides
- Snap-on mounting and fixing

| Inner door | | | | | | |
|------------|---------------------------|------------------------------|------------|--|--|------------------------|
| Size | No. vertical mod. H=150mm | Useful dimensions WxHxD (mm) | Code | | | Package/ No. of pieces |
| 1 | 2 | 250x300x180 | 1SL0251A00 | | | 1/1 |
| 2 | 3 | 375x450x230 | 1SL0252A00 | | | 1/1 |
| 3 | 4 | 375x600x230 | 1SL0253A00 | | | 1/1 |
| 4 | 4 | 500x600x230 | 1SL0254A00 | | | 1/1 |
| 5 | 5 | 500x750x330 | 1SL0255A00 | | | 1/1 |
| 6 | 6 | 750x900x330 | 1SL0256A00 | | | 1/1 |

Completion structure

Uprights

- Incorporated vertical wiring duct (ABB patent)
- Snap-on mounting of all components (installation pitch of 75 mm)
- Snap-on insertion into box
- Depth of installed components adjusted at a pitch of 12.5 mm (4 positions for uprights of size 1 and 6 positions for the remaining ones)
- Ergonomic grip to make it easy to insert and extract

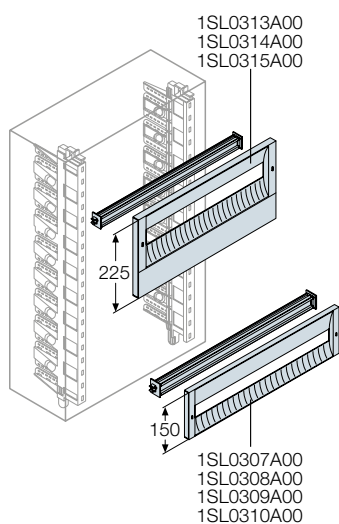


Upright with incorporated wiring duct

| Size | Useful dimensions H (mm) | Code | Package/ No. of pieces |
|------|-----------------------------|------------|---------------------------|
| 1 | 300 | 1SL0283A00 | 1/4 |
| 2 | 450 | 1SL0284A00 | 1/4 |
| 3 | 600 | 1SL0285A00 | 1/4 |
| 4/5 | 750 | 1SL0286A00 | 1/4 |
| 6 | 900 | 1SL0287A00 | 1/4 |

DIN rail Kit

- Front panel + DIN rail complete with supports for press-on fixing onto uprights and adjustable in depth
- Available in two dimensions - 1 module (H 150 mm) and 1+1/2 module (H 225 mm, sizes 2-6)
- Preset for hinging on the two vertical sides
- Snap-on assembly on the uprights (in conformity with the reference Standards, the panel can only be removed using a tool)
- Label-holder box for inserting descriptions of the installed apparatus

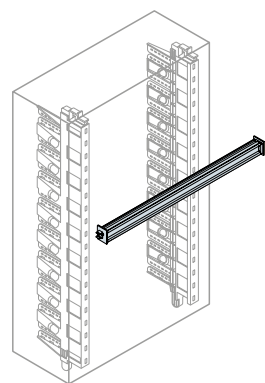


Panel + DIN rail

| Size | Panel Dimensions W (mm) | Code | Package/ No. of pieces |
|----------------------|-------------------------------|------------|---------------------------|
| 1 module | | | |
| 1 | 300 | 1SL0307A00 | 1/8 |
| 2/3 | 450 | 1SL0308A00 | 1/8 |
| 4/5 | 750 | 1SL0309A00 | 1/8 |
| 6 | 900 | 1SL0310A00 | 1/8 |
| 1+1/2 modules | | | |
| 2/3 | 450 | 1SL0313A00 | 1/8 |
| 4/5 | 750 | 1SL0314A00 | 1/8 |
| 6 | 900 | 1SL0315A00 | 1/8 |

DIN rail

- Two-sided version
- Supplied with mounting supports that snap onto uprights
- Depth adjustment on uprights
- Designed so that rapid Unifix L mounting bars can be snapped on



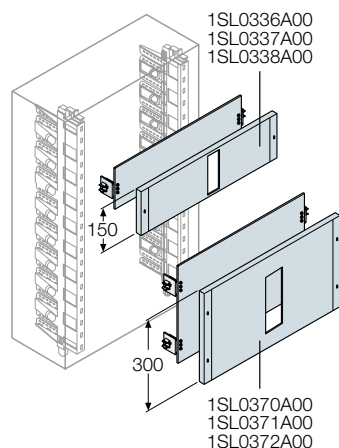
DIN rail

| Size | No. mod. horizontal | Dimensions W (mm) | Code | Package/ No. of pieces |
|------|------------------------|----------------------|------------|---------------------------|
| 1 | 12 | 210 | 1SL0290A00 | 1/10 |
| 2/3 | 18 | 318 | 1SL0291A00 | 1/10 |
| 4/5 | 24 | 443 | 1SL0292A00 | 1/10 |
| 6 | 36 | 663 | 1SL0293A00 | 1/10 |

Gemini switchboards

Ordering codes

2



Completion structure

Kit for installing Tmax moulded-case circuit breakers

- For installing Tmax moulded-case circuit breakers in fixed version with front terminals
- Composed of a plate with special drilled holes and a protection panel with vertical slots that can be hinged on both sides and snap-on mounted (in compliance with reference Standards a tool must be used for removing the panel)
- Available for sizes 2-6
- Version H 150 with drillings for Tmax T1 3 poles (with and without residual current release), Tmax T1 4 poles (with and without residual current release), Tmax T2 3 poles (with and without residual current release), Tmax T2 4 poles (without residual current release)
- Version H 300 with drillings for Tmax T2 4 poles (with residual current release), Tmax T3 3 poles (with and without residual current release), Tmax T3 4 poles (with and without residual current release)
- Snap-on mounting onto uprights with the possibility of adjusting the plate depth.

Plate + panel

| Size | Dimensions W (mm) | Code | | | Package/ No. of pieces |
|--------------------------|----------------------|------------|--|--|---------------------------|
| 1 module H=150mm | | | | | |
| 2/3 | 375 | 1SL0336A00 | | | 1/4 |
| 4/5 | 500 | 1SL0337A00 | | | 1/4 |
| 6 | 700 | 1SL0338A00 | | | 1/2 |
| 2 modules H=300mm | | | | | |
| 2/3 | 375 | 1SL0370A00 | | | 1/4 |
| 4/5 | 500 | 1SL0371A00 | | | 1/4 |
| 6 | 700 | 1SL0372A00 | | | 1/2 |

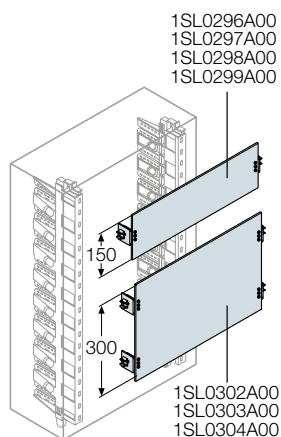
To choose the correct kit, see table on page 2/8.

Kit for installing Tmax XT moulded-case circuit breakers

- For installing Tmax moulded-case circuit breakers in fixed version with front terminals
- Composed of a plate with special drilled holes and a protection panel with vertical slots that can be hinged on both sides and snap-on mounted (in compliance with reference Standards a tool must be used for removing the panel)
- Available for sizes 2-6
- Snap-on mounting onto uprights with the possibility of adjusting the plate depth

Panel + plate

| Size | Dimensions W (mm) | Code | | | Package/ No. of pieces |
|--------------------------|----------------------|------------|--|--|---------------------------|
| 1 module H=150mm | | | | | |
| 2/3 | 375 | 1SL0373A00 | | | 1/4 |
| 4/5 | 500 | 1SL0374A00 | | | 1/4 |
| 6 | 700 | 1SL0375A00 | | | 1/2 |
| 2 modules H=300mm | | | | | |
| 2/3 | 375 | 1SL0376A00 | | | 1/4 |
| 4/5 | 500 | 1SL0377A00 | | | 1/4 |
| 6 | 700 | 1SL0378A00 | | | 1/2 |



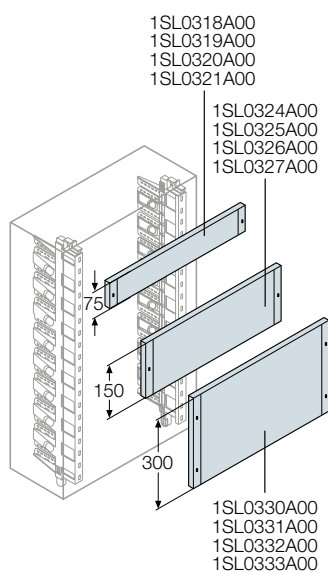
Completion structure

Partial modular plates

- Available in 1 module (H 150 mm) and 2 module (H 300 mm, sizes 2-6) dimensions
- Snap-on mounting onto uprights with depth adjustment

Modular base plate

| Size | Dimensions W (mm) | Code | | Package/ No. of pieces |
|--------------------------|----------------------|------------|--|---------------------------|
| 1 module H=150mm | | | | |
| 1 | 210 | 1SL0296A00 | | 1/6 |
| 2/3 | 318 | 1SL0297A00 | | 1/4 |
| 4/5 | 443 | 1SL0298A00 | | 1/4 |
| 6 | 663 | 1SL0299A00 | | 1/2 |
| 2 modules H=300mm | | | | |
| 2/3 | 318 | 1SL0302A00 | | 1/4 |
| 4/5 | 443 | 1SL0303A00 | | 1/4 |
| 6 | 663 | 1SL0304A00 | | 1/2 |



Blind front panel

- Available in 1/2 module (H 75 mm), 1 module (H 150 mm) and 2 modules (H 300 mm) dimensions
- H 150 mm and H 300 panels designed to be hinged onto both vertical sides
- Snap-on mounting onto uprights (in compliance with reference Standards a tool must be used for removing the panel)

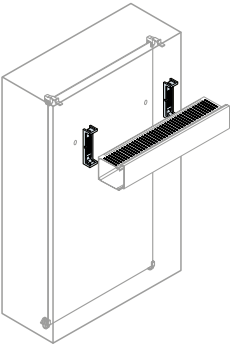
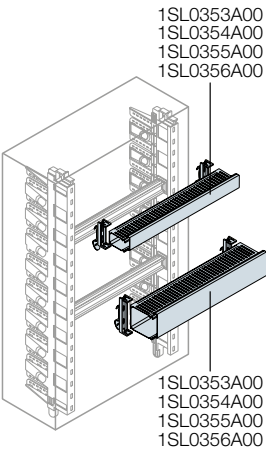
Blind front panel

| Size | Dimensions W (mm) | Code | | Package/ No. of pieces |
|--------------------------|----------------------|------------|--|---------------------------|
| 1/2 module H=75mm | | | | |
| 1 | 250 | 1SL0318A00 | | 1/10 |
| 2/3 | 375 | 1SL0319A00 | | 1/10 |
| 4/5 | 500 | 1SL0320A00 | | 1/6 |
| 6 | 700 | 1SL0321A00 | | 1/4 |
| 1 module H=150mm | | | | |
| 1 | 250 | 1SL0324A00 | | 1/8 |
| 2/3 | 375 | 1SL0325A00 | | 1/8 |
| 4/5 | 500 | 1SL0326A00 | | 1/4 |
| 6 | 700 | 1SL0327A00 | | 1/4 |
| 2 modules H=200mm | | | | |
| 1 | 250 | 1SL0330A00 | | 1/6 |
| 2/3 | 375 | 1SL0331A00 | | 1/6 |
| 4/5 | 500 | 1SL0332A00 | | 1/4 |
| 6 | 700 | 1SL0333A00 | | 1/4 |

Gemini switchboards

Ordering codes

2



Completion structure

Wiring kit

- Composed of wiring duct in versions 25x60 mm and 40x60 mm (WxH, 8-12 mm slots) and Fix-O-Rapid device for the quick snap-on hooking of the ducts on the DIN rail
- Snap-on mounting on uprights with depth adjustment

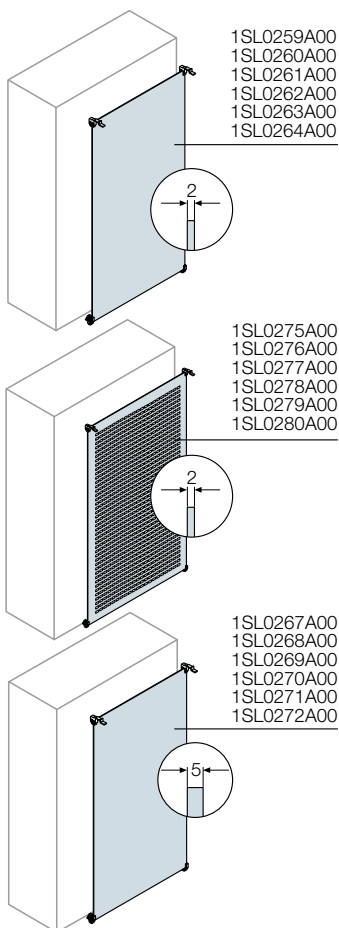
| Wiring duct + Fix-O-Rapid | | | | | |
|---------------------------|----------------------|------------|--|--|---------------------------|
| Size | Dimensions W (mm) | Code | | | Package/ No. of pieces |
| Wiring duct 25x60mm | | | | | |
| 1 | 250 | 1SL0353A00 | | | 1/4 |
| 2/3 | 375 | 1SL0354A00 | | | 1/4 |
| 4/5 | 500 | 1SL0355A00 | | | 1/4 |
| 6 | 700 | 1SL0356A00 | | | 1/4 |
| Wiring duct 40x60mm | | | | | |
| 1 | 250 | 1SL0360A00 | | | 1/4 |
| 2/3 | 375 | 1SL0361A00 | | | 1/4 |
| 4/5 | 500 | 1SL0362A00 | | | 1/4 |
| 6 | 700 | 1SL0363A00 | | | 1/4 |

Fix-O-Rapid

Quick mounting device for attaching wiring ducts to the base plate: it snaps onto the plate after drilling a \varnothing 7 mm hole. Two Fix-O-Rapid device are enough for each wiring duct section. Fix-O-Rapid guarantees maximum insulation since it does not involve the use of any metal components inside the wiring duct. If the wrong wiring duct is selected, it can be dismantled and a version with the same base and a different height can be attached to the Fix-O-Rapid.

| Description | Code | | | Package/ No. of pieces |
|---------------------------------------------|--------|--|--|---------------------------|
| Quick mounting device for wiring duct 25mm | 05 270 | | | 20/600 |
| Quick mounting device for wiring duct 40mm | 05 272 | | | 20/600 |
| Quick mounting device for wiring duct 60mm | 05 274 | | | 20/600 |
| Quick mounting device for wiring duct 80mm | 05 276 | | | 20/240 |
| Quick mounting device for wiring duct 100mm | 05 278 | | | 20/240 |
| Quick mounting device for wiring duct 125mm | 05 280 | | | 20/240 |
| Quick mounting device for wiring duct 150mm | 05 282 | | | 20/240 |

Completion structure



Base plates

- Available in three versions made of blank or drilled metal and insulating material
- Positioning at 3 different depths for size 1, 4 different depths for sizes 2-3-4 and 7 different depths for sizes 5-6 (adjustments with 30 mm pitch)
- Supplied with feet and hooks adjustable at three further positions (with 7.5 mm pitch)
- Snap-on mounting
- Plates can also be mounted directly on the base with the special kit

Base plate

| Size | Box dimensions WxHxD (mm) | Code | | Package/ No. of pieces |
|----------------------------|------------------------------|------------|--|---------------------------|
| Blank metal | | | | |
| 1 | 250x300x180 | 1SL0259A00 | | 1/6 |
| 2 | 375x450x230 | 1SL0260A00 | | 1/6 |
| 3 | 375x600x230 | 1SL0261A00 | | 1/4 |
| 4 | 500x600x230 | 1SL0262A00 | | 1/4 |
| 5 | 500x750x330 | 1SL0263A00 | | 1/4 |
| 6 | 750x900x330 | 1SL0264A00 | | 1/2 |
| Drilled metal | | | | |
| 1 | 250x300x180 | 1SL0275A00 | | 1/6 |
| 2 | 375x450x230 | 1SL0276A00 | | 1/6 |
| 3 | 375x600x230 | 1SL0277A00 | | 1/4 |
| 4 | 500x600x230 | 1SL0278A00 | | 1/4 |
| 5 | 500x750x330 | 1SL0279A00 | | 1/4 |
| 6 | 750x900x330 | 1SL0280A00 | | 1/2 |
| Insulating material | | | | |
| 1 | 250x300x180 | 1SL0267A00 | | 1/6 |
| 2 | 375x450x230 | 1SL0268A00 | | 1/6 |
| 3 | 375x600x230 | 1SL0269A00 | | 1/4 |
| 4 | 500x600x230 | 1SL0270A00 | | 1/4 |
| 5 | 500x750x330 | 1SL0271A00 | | 1/4 |
| 6 | 750x900x330 | 1SL0272A00 | | 1/2 |

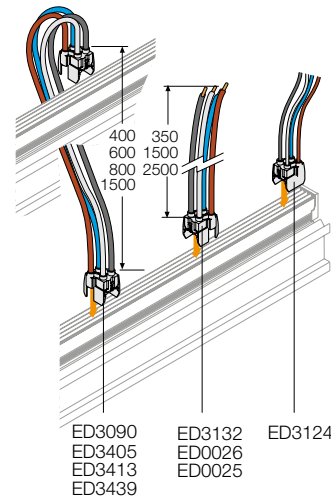
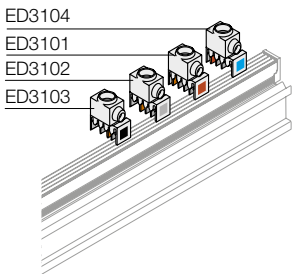
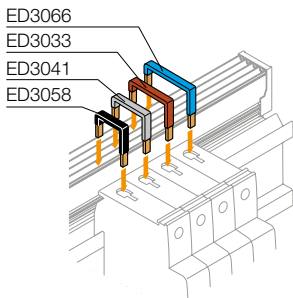
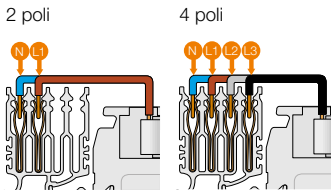
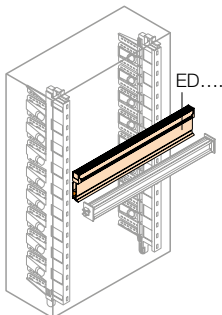
Base mounting kit for metal plate

| Description | Code | | Package/ No. of pieces |
|-----------------------------------|------------|--|---------------------------|
| Base mounting kit for metal plate | 1SL0383A00 | | 1/10 |

Gemini switchboards

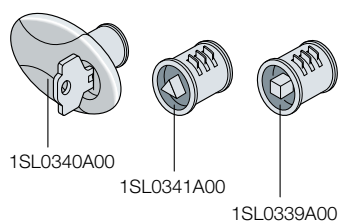
Ordering codes

2



Unifix L

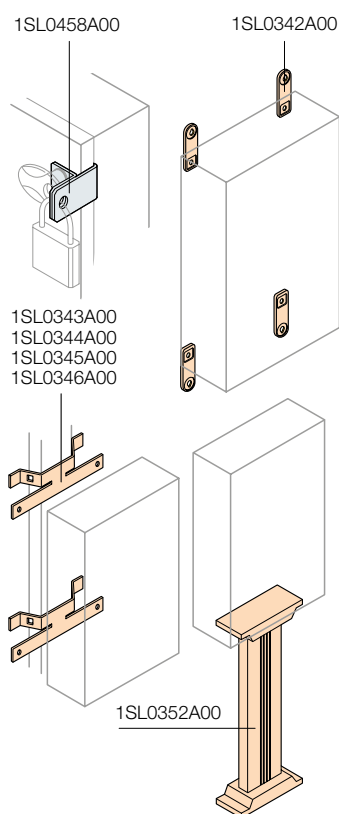
| Description | Dimensions W (mm) | Code | Package/ No. of pieces |
|----------------------------------------------------------|----------------------|--------|---------------------------|
| 2-poles busbars | | | |
| 100A 2P 8 module busbar | 400 | ED2993 | 1/6 |
| 100A 2P 12 module busbar | 450 | ED3009 | 1/6 |
| 100A 2P 18 module busbar | 600 | ED3017 | 1/6 |
| 100A 2P 24 module busbar | 800 | ED3025 | 1/6 |
| 100A 2P 36 module busbar | | | |
| 100A 4P 12 module busbar | 400 | ED2944 | 1/6 |
| 100A 4P 18 module busbar | 450 | ED2951 | 1/6 |
| 100A 4P 24 module busbar | 600 | ED2969 | 1/6 |
| 100A 4P 36 module busbar | 800 | ED2977 | 1/6 |
| Connections for various apparatus | | | |
| Connection with 2 conductors L/N 16A | | ED3108 | 1/6 |
| Connection with 3 conductors L1/L2/L3 16A | | ED3116 | 1/6 |
| Connection with 4 conductors L1/L2/L3/N 16A single phase | | ED3124 | 1/6 |
| Connection with 2 conductors L1/N 40A | | ED3355 | 1/6 |
| Connection with 3 conductors L1/L2/L3 40A | | ED3363 | 1/6 |
| Connection with 4 conductors L1/L2/L3/N 40A | | ED3371 | 1/6 |
| Connections for apparatus | | | |
| No.10 connections L1-N 40 A | | ED3272 | 1/10 |
| No.10 connections L2-N 40 A | | ED3280 | 1/10 |
| No.10 connections L3-N 40 A | | ED3298 | 1/10 |
| No.10 connections L 1 100A | | ED3033 | 1/10 |
| No.10 connections L 2 100A | | ED3041 | 1/10 |
| No.10 connections L 3 100A | | ED3058 | 1/10 |
| No.10 connections N 100A | | ED3066 | 1/10 |
| Feeder with 4P 100A cable (W=350mm) | | ED3132 | 1/1 |
| Feeder with 4P 100A cable (W=1500mm) | | ED0026 | 1/1 |
| Feeder with 4P 100A cable (W=1500mm) | | ED0025 | 1/1 |
| Power supply modules with cable | | | |
| Parallel module 2P 100A with cable (W=600mm) | | ED3082 | 1/1 |
| Parallel module 4P 100A with cable (W=400mm) | | ED3405 | 1/1 |
| Parallel module 4P 100A with cable (W=600mm) | | ED3090 | 1/1 |
| Parallel module 4P 100A with cable (W=800mm) | | ED3413 | 1/1 |
| Parallel module 4P 100A with cable (W=1500mm) | | ED3439 | 1/1 |
| Power supply modules without cable in 100A | | | |
| No.10 single-pole power supply terminals L1 | | ED3101 | 1/10 |
| No.10 single-pole power supply terminals L2 | | ED3102 | 1/10 |
| No.10 single-pole power supply terminals L3 | | ED3103 | 1/10 |
| No.10 single-pole power supply terminals N | | ED3104 | 1/10 |
| Accessories | | | |
| No.10 busbar covers W=600mm | | ED2961 | 1/10 |
| No.2 busbar covers W=800mm | | ED2962 | 1/2 |



Locks

Available in three versions with ciphered key and handle, with triangular and square impressions.

| Description | Code | | | Package/ No. of piece |
|------------------------------------------|------------|--|--|--------------------------|
| Lock with Yale type coded key and handle | 1SL0340A00 | | | 1/10 |
| Lock with triangular impression | 1SL0341A00 | | | 1/10 |
| Lock with square impression | 1SL0339A00 | | | 1/10 |
| Kit for vandalproof closure | 1SL0458A00 | | | 1/10 |



Mounting elements

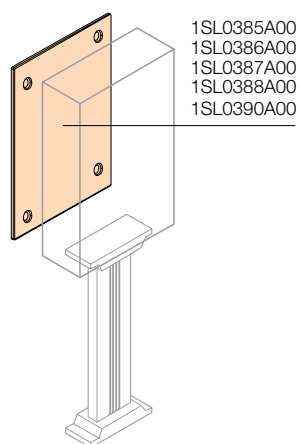
Guarantee optimum wall, pole and floor mounting conditions.

| Description | Code | | | Package/ No. of piece |
|----------------------------------------------------------|------------|--|--|--------------------------|
| (4) horizontal and vertical wall brackets ^(*) | 1SL0342A00 | | | 1/10 |
| Pole mounting kit for sizes 1 switchboards | 1SL0343A00 | | | 1/4 |
| Pole mounting kit for sizes 2-3 switchboards | 1SL0344A00 | | | 1/4 |
| Pole mounting kit for sizes 4-5 switchboards | 1SL0345A00 | | | 1/2 |
| Pole mounting kit for size 6 switchboards | 1SL0346A00 | | | 1/2 |
| Floor mounting pedestal for sizes 1-4 | 1SL0352A00 | | | 1/1 |

(*) types of inserts are provided to adapt the ø 6 and 8 mm fixing brackets.

Base cover

For aesthetic as well as functional purposes, in particular for pedestal installations.

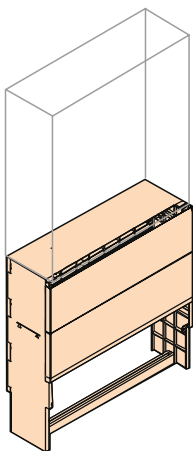


| Description | Code | | | Package/ No. of piece |
|---------------------|------------|---|--|--------------------------|
| Back plugging plate | 1SL0342A00 | 1 | | 1/10 |
| Back plugging plate | 1SL0343A00 | 2 | | 1/4 |
| Back plugging plate | 1SL0344A00 | 3 | | 1/4 |
| Back plugging plate | 1SL0345A00 | 4 | | 1/2 |
| Back plugging plate | 1SL0346A00 | 5 | | 1/2 |
| Back plugging plate | 1SL0352A00 | 6 | | 1/1 |

Gemini switchboards

Ordering codes

2

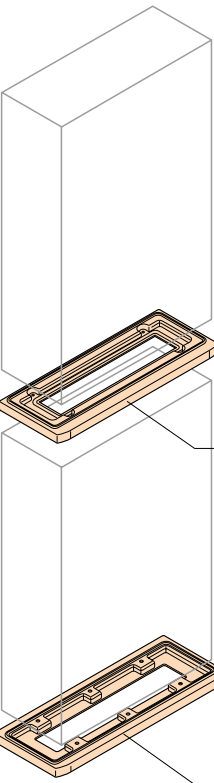


Accessories

Pedestal

This enables the Gemini switchboard to be secured to the ground without the need to build plinths or foundations in cement since it is the pedestal that is buried.

| Size | Description | Code | | | Package/ No. of pieces |
|------|------------------------|------------|--|--|---------------------------|
| 4 | Gemini Pedestal size 4 | 1SL0464A00 | | | 1/1 |
| 5 | Gemini Pedestal size 5 | 1SL0465A00 | | | 1/1 |
| 6 | Gemini Pedestal size 6 | 1SL0466A00 | | | 1/1 |



1SL0413A00
1SL0414A00
1SL0415A00
1SL0416A00

1SL0423A00
1SL0424A00
1SL0425A00
1SL0426A00

Coupling kit

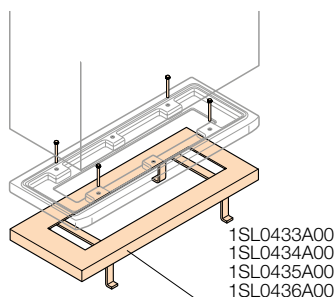
Follows the aesthetic outline of the boxes. On request, contact ABB for minimum order quantities.

| Size | Description | Code | | | Package/ No. of piece |
|------|---------------------------------|------------|--|--|--------------------------|
| 2/3 | Vertical coupling kit for sizes | 1SL0413A00 | | | 1/2 |
| 4 | Vertical coupling kit for sizes | 1SL0414A00 | | | 1/2 |
| 5 | Vertical coupling kit for sizes | 1SL0415A00 | | | 1/2 |
| 6 | Vertical coupling kit for sizes | 1SL0416A00 | | | 1/2 |

Bottom base H 30

For fixing the Gemini switchboard directly to the floor.

| Size | Description | Code | | | Package/ No. of piece |
|------|-------------|------------|--|--|--------------------------|
| 2/3 | Bottom base | 1SL0423A00 | | | 1/2 |
| 4 | Bottom base | 1SL0424A00 | | | 1/2 |
| 5 | Bottom base | 1SL0425A00 | | | 1/2 |
| 6 | Bottom base | 1SL0426A00 | | | 1/2 |

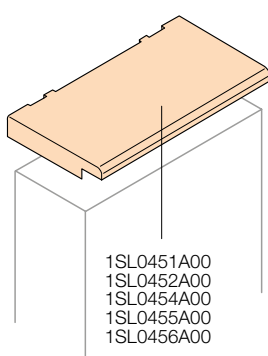


Accessories

Fixed frame

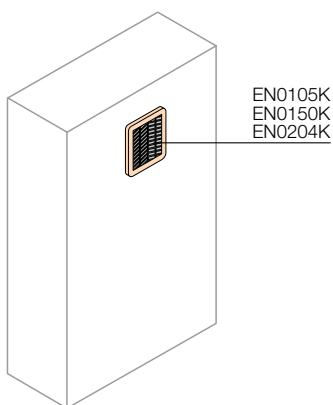
In combination with bottom base H 30. For fixing onto poured concrete floors and bases.

| Size | Description | Code | | | Package/ No. of piece |
|------|---------------------------|------------|--|--|--------------------------|
| 2/3 | Frame for fixing to floor | 1SL0433A00 | | | 1/2 |
| 4 | Frame for fixing to floor | 1SL0434A00 | | | 1/2 |
| 5 | Frame for fixing to floor | 1SL0435A00 | | | 1/2 |
| 6 | Frame for fixing to floor | 1SL0436A00 | | | 1/2 |



Full covers

| Description | Code | | | Package/ No. of pieces |
|--------------------------------------|------------|--|--|---------------------------|
| Full cover for size 1 switchboards | 1SL0451A00 | | | 1/1 |
| Full cover for size 2-3 switchboards | 1SL0452A00 | | | 1/1 |
| Full cover for size 4 switchboards | 1SL0454A00 | | | 1/1 |
| Full cover for size 5 switchboards | 1SL0455A00 | | | 1/1 |
| Full cover for size 6 switchboards | 1SL0456A00 | | | 1/1 |



Ventilation kit IP21/54

- Composed of plastic grilles (ABS self-extinguishing UL94V0) and filter
- Degree of protection without filter IP21
- Degree of protection with filter IP54
- Equipped with pre-mounted gasket

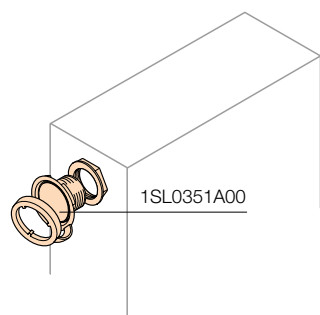
| Description | Dimensions WxW (mm) | Code | | | Package/ No. of pieces |
|---------------------------------------------------------|------------------------|---------|--|--|---------------------------|
| Grille + air filter kit | 105x105 | EN0105K | | | 1/1 |
| Grille + air filter kit (cannot be used with Size 1) | 150x150 | EN0150K | | | 1/1 |
| Grille + air filter kit (cannot be used with Size 1) | 204x204 | EN0204K | | | 1/1 |

Screws not included, use 4 self-tapping screws 2.9x13 or order Code 1SL0384A00

Gemini switchboards

Ordering codes

2

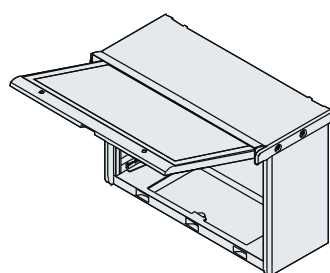


Accessories

Anti-condensation kit

- Kit made of special material to prevent condensation from forming inside the switchboard: it includes **GORE™ MEMBRANE VENTING**
- Impermeable to water (pressure): 0.6 bar/60 sec.
- Air flow: 400 ml/min. (dp = 70 mbar)
- 1 kit for sizes 1-2, 2 kits for sizes 3-4 and 3 kits for sizes 5-6 are recommended to guarantee adequate dissipation. In any case the number of kits to be installed depends on the number and type of devices installed inside the switchboard.

| Description | Code | | | Package/ No. of piece |
|-----------------------|------------|--|--|--------------------------|
| Anti-condensation kit | 1SL0351A00 | | | 1/6 |



Horizontal Gemini kit

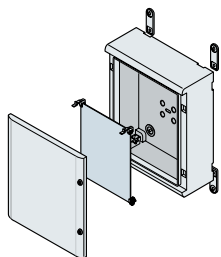
Kit to use for opening switchboard upwards in correct manner.

| Description | Code | | | Package/ No. of pieces |
|--------------------------------|------------|--|--|---------------------------|
| Horizontal Gemini Kit size 2 | 1SL0470A00 | | | 1/1 |
| Horizontal Gemini Kit size 3/4 | 1SL0471A00 | | | 1/1 |
| Horizontal Gemini Kit size 5 | 1SL0472A00 | | | 1/1 |
| Horizontal Gemini Kit size 6 | 1SL0473A00 | | | 1/1 |

Other accessories

| Description | Code | | | Package/ No. of pieces |
|-------------------------------------------------------|------------|--|--|---------------------------|
| Universal drill bit | 12 849 | | | 1/30 |
| Module covers in grey RAL 7035, 4 modules | 12 863 | | | 25/300 |
| Deep adapters | 12 851 | | | 10/80 |
| Small bag containing base plates | 1SL0380A00 | | | 1/10 |
| Small bag containing DIN supports | 1SL0381A00 | | | 1/10 |
| Small bag containing partial plate | 1SL0382A00 | | | 1/10 |
| Small bag containing screws and inserts | 1SL0397A00 | | | 1/10 |
| Small bag containing ventilation kit fastening screws | 1SL0384A00 | | | 10/50 |
| Spare spanner | 1SL0457A00 | | | 1/10 |

Examples of configurations

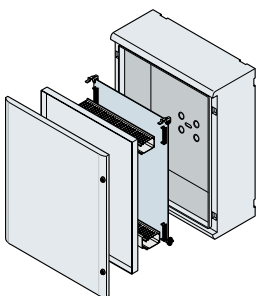


Gemini Switchboard Size 1

Dim. 300x250x180 (400x335x210) mm (external hxwxd) IP66

| Description | Code | | | Q.ty |
|-------------------------|------------|--|--|------|
| Enclosure + opaque door | 1SL0201A00 | | | 1 |
| Metal back plate | 1SL0259A00 | | | 1 |
| Counterdoor | 1SL0251A00 | | | 1 |
| Wall fixing brackets | 1SL0342A00 | | | 1 |

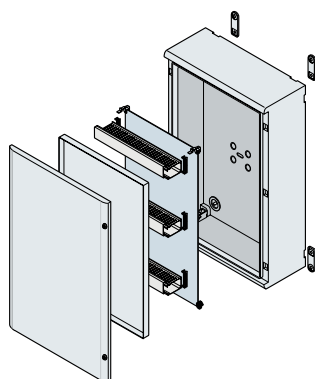
2



Gemini Switchboard Size 2

Dim. 450x375x230 (550x460x260) mm (external hxwxd) IP66

| Description | Code | | | Q.ty |
|-------------------------|------------|--|--|------|
| Enclosure + opaque door | 1SL0202A00 | | | 1 |
| Metal back plate | 1SL0260A00 | | | 1 |
| Counterdoor | 1SL0252A00 | | | 1 |



Gemini Switchboard Size 3

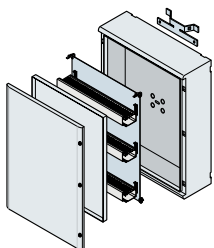
Dim. 600x375x230 (700x460x260) mm (external hxwxd) IP66

| Description | Code | | | Q.ty |
|-------------------------|------------|--|--|------|
| Enclosure + opaque door | 1SL0203A00 | | | 1 |
| Metal back plate | 1SL0269A00 | | | 1 |
| Counterdoor | 1SL0253A00 | | | 1 |
| Wall fixing brackets | 1SL0342A00 | | | 1 |

Gemini switchboards

Examples of configurations

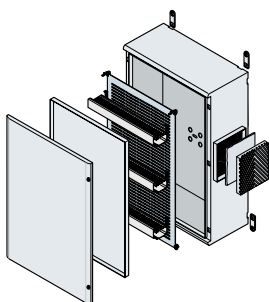
2



Gemini Switchboard Size 4

Dim. 600x500x230 (700x590x260) mm (external hxwxh) IP66

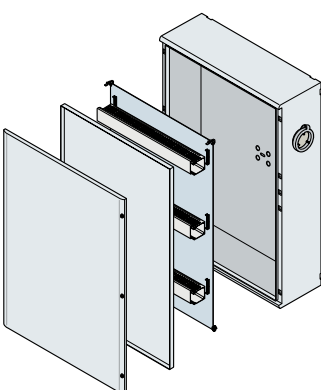
| Description | Code | | | Q.ty |
|-------------------------|------------|--|--|------|
| Enclosure + opaque door | 1SL0204A00 | | | 1 |
| Metal back plate | 1SL0262A00 | | | 1 |
| Counterdoor | 1SL0254A00 | | | 1 |
| Kit for fixing to pole | 1SL0345A00 | | | 1 |



Gemini Switchboard Size 5

Dim. 750x500x330 (855x590x360) mm (external hxwxh) IP66

| Description | Code | | | Q.ty |
|-------------------------|------------|--|--|------|
| Enclosure + opaque door | 1SL0205A00 | | | 1 |
| Perforated back plate | 1SL0279A00 | | | 1 |
| Counterdoor | 1SL0255A00 | | | 1 |
| Wall fixing brackets | 1SL0342A00 | | | 1 |
| Ventilation Kit | 1SL0350A00 | | | 1 |



Gemini Switchboard Size 6

Dim. 900x750x330 (1005x840x360) mm (external hxwxh) IP66

| Description | Code | | | Q.ty |
|-------------------------|------------|--|--|------|
| Enclosure + opaque door | 1SL0206A00 | | | 1 |
| Metal back plate | 1SL0264A00 | | | 1 |
| Counterdoor | 1SL0256A00 | | | 1 |
| Triangular lock | 1SL0341A00 | | | 3 |
| Anticondensation Kit | 1SL0351A00 | | | 3 |

SR2 - SR2 EMC Enclosures

| | |
|-------------------------|-----|
| SR2 Enclosures | |
| General characteristics | 3/2 |
| Selection table | 3/5 |
| Ordering codes | 3/6 |

| | |
|--------------------------------------------|------|
| SR2 EMC Enclosures | |
| General characteristics and ordering codes | 3/22 |

SR2 Enclosures

General characteristics

The range of SR2 enclosures is a complete offer of monobloc enclosures for constructing small and medium-sized electric automation, switching and control switchboards.

3

The SR2 enclosures come from the experience ABB has gained over the years in building IP65 metal structures (in accordance with the IEC 60529 Standard), together with the innovative new production process used for construction and patented by ABB. The typical use of SR2 Enclosures is to make switchgear and controlgear switchboards for a very wide variety of industrial machines: from large machinery with automated production lines or parts of these, down to the typical installations of on-board machine switchboards, boilers, heating plants and so on.

They conform to the EN 62208 Standard "Empty enclosures for low voltage protection switchgear and controlgear assemblies" and allow realization of electrical equipment conforming to the prescriptions of the IEC 60204-1 Standard "Safety of machinery. Electrical equipment of machines" and of the EN 60439- 1 Standard and the new EN 61439-1-2 Standard "Low voltage protection switchgear and controlgear for assemblies". The degree of protection, in accordance with the IEC 60529 Standard

"Degrees of protection of enclosures (IP Code)", is IP65. The SR2 enclosures have also passed the control required to obtain the UL (Underwriters Laboratories) and CSA (Canadian Standards Association) Type 12 marks.

The SR2 enclosures also allow secondary distribution switchboards to be made, thanks to the possibility, in the 400, 600 and 800 mm widths, of installing the whole range of apparatus and modular circuit-breakers on DIN rails combined with special pre-drilled and hinged modular front panels, thereby allowing construction of AS/ANS type electrical switchgear conforming to the IEC 60439-1 Standard and the new EN 61439-1-2 Standard. A single line of metalwork structures therefore allows construction of automation and secondary and end distribution electrical switchboards thanks to the availability of a series of accessories (modular panels, DIN rails) and to the possibility of stacking the enclosures.



The SR2 enclosures are available in two versions (blind door or glazed door) and in 23 different dimensions, as well as a further 19 combinations obtained by stacking the enclosures, up to a maximum height of 2000 mm, which guarantee ample selection possibilities for the various end applications.

The SR2 enclosures have been designed to fulfil all the typical needs of the builder or installer of switchgear in the best way possible and the user is presented with a unique ensemble of functional characteristics:

- wide dimensional range
- certified IP65 degree of protection
- internal galvanised sheet mounting plate with 20/10 thickness (made to allow threaded holes to be made easily), adjustable in depth by using a special accessory
- fairlead plate screwed on (at top and bottom) made of 15/10 thick galvanised sheet, with a sealing gasket applied inside
- complete reversibility of the enclosure, so the door can open either on the right or on the lefthand side
- possibility of installing all the apparatus and modular circuit-breakers on a DIN rail combined with a hinged modular panel.

The standard colour is RAL 7035 orange peel. On request, the SR2 enclosures can be ordered in a wide range of RAL colours (see page 7/12).

Both the enclosures with glazed door or blind door can be stacked: stacking is done simply by removing the fairlead plates and inserting the IP65 sealing gasket (GZ...), made of neoprene with closed cells.

Assembly of the stacked enclosures is carried out by means of the same holes used for the fairlead plates.

The door is supplied with the enclosure (single code) so as to reduce the number of articles and assembly times.



SR2 Enclosures

General characteristics

The range is completed with a series of accessories: brackets for wall assembly, rain shield top cover, locks of various types, internal document pocket, spacers, and spray paint for touching up. It is possible floor fixing by means plinth.

3



Plastic document pocket, RAL 7035, size A4, the pocket is apply within the solid doors wider than 400 mm, with stickers provided.



Many closure systems can replace the standard closures of the external doors. The inserts are interchangeable and easily replaced by loosening a nut.





The brackets for wall mounting allows installation of the boxes on the wall using the holes located on the back of the enclosure.



The bars, made of electrolytic copper with M6 threaded holes in 25 mm, can be mounted on mounting plates using the appropriate supports.

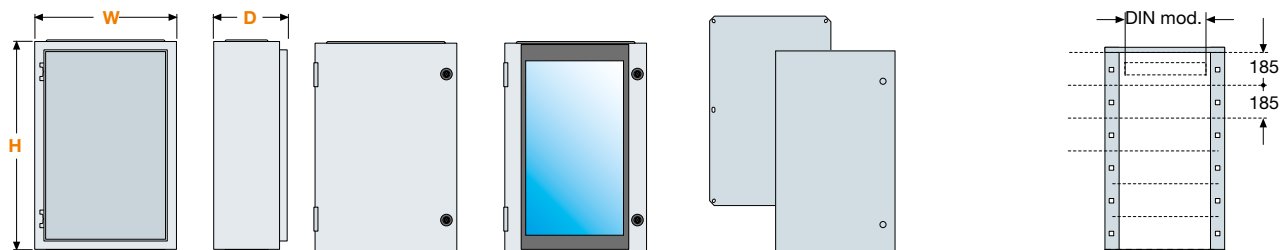
Technical characteristics

| | | |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| Conformity with Standard | IEC 62208, IEC 61439-1-2 | |
| Degree of protection | IP65 (IEC 60529) TYPE 12 (Normativa UL) | |
| Degree of mechanical strength | IK10 blind door IK09 glazed door (IEC 62262) | |
| Certifications |   | |
| Type of material | Metallic | |
| Installation site | Indoors | |
| Fixing method | floor/wall | |
| Normal service conditions - ambient temperature | from -5 up to +40°C | |
| Operating climate (t°/Ur%) | costant | 23°C/83% - 40°C/93% |
| | variable | 23°C/98% - 40°C/98% |

SR2 Enclosures

Selection table

Quick selection table

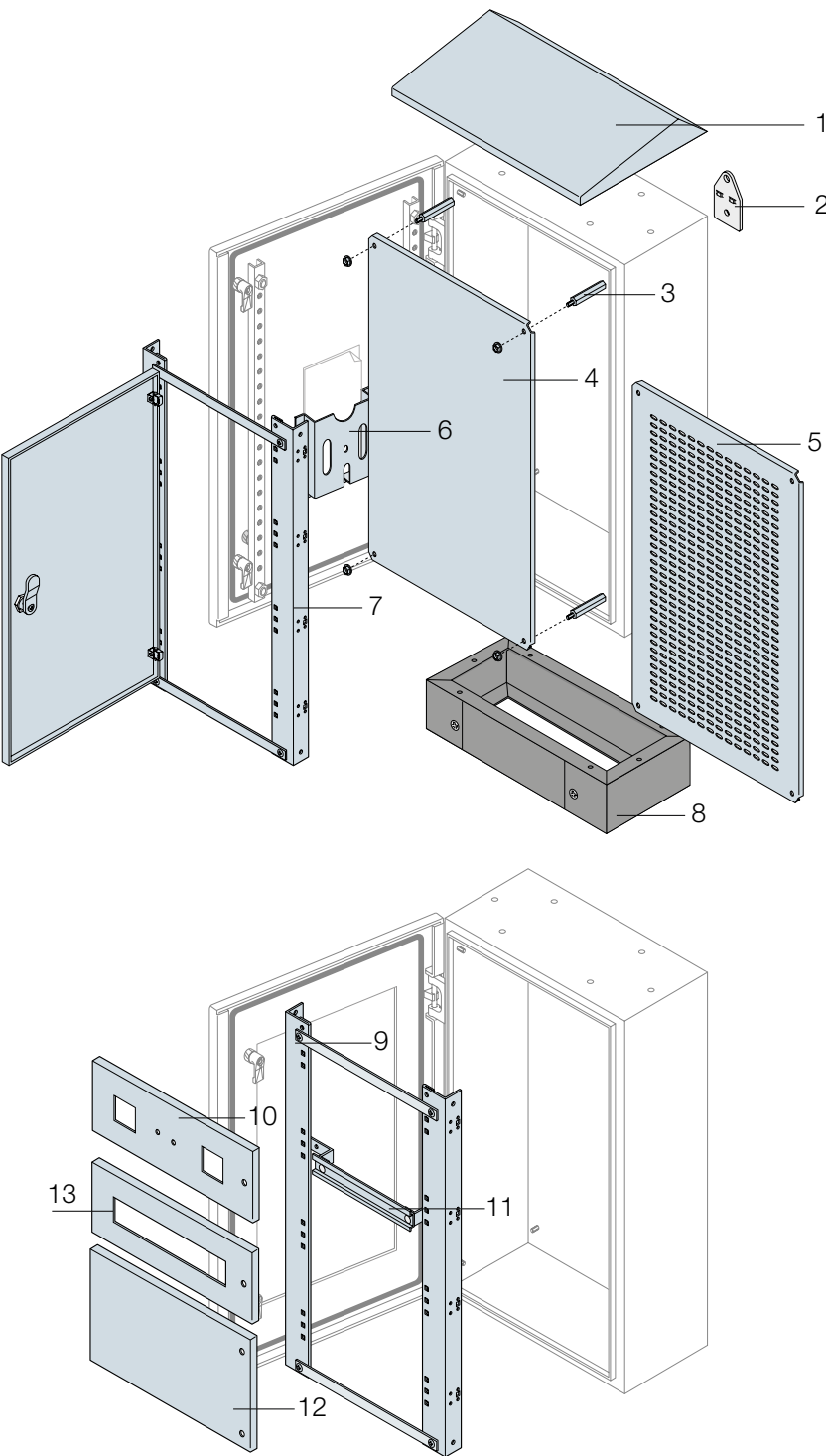


| Overall dimensions | | | Enclosures | | Kit for automation | | Kit for distribution Supports for mounting modular panels | | | |
|--------------------|---------|---------|-----------------------------------------------|-----------------------|----------------------|---------------|--------------------------------------------------------------|-------------------------|------------------|-----------------|
| H mm | W mm | D mm | Enclosures with blind door + back plate | with glazed door * | Blind counterdoor | Back plate | No. vertical mod. H=185mm | No. DIN mod. per row | Total modules | DIN Supports |
| 300 | 200 | 150 | SRN3215K | | | | | | | |
| | 300 | | SRN3315K | | | | | | | |
| | 400 | | SRN3415K | | | | | | | |
| 400 | 300 | 150 | SRN4315K | | | | | | | |
| | 300 | | SRN4320K | | | | | | | |
| | 400 | 200 | SRN4420K | | | | | | | |
| | 600 | | SRN4620K | | | | | | | |
| 500 | 300 | 200 | SRN5320K | | | | | | | |
| | 400 | | SRN5420K | SRN5420VK* | KC5040K | PF5040 | 2 | 14 | 28 | KD5040K |
| | 400 | 250 | SRN5425K | SRN5425VK* | KC5040K | PF5040 | 2 | 14 | 28 | KD5040K |
| 600 | 400 | 200 | SRN6420K | SRN6420VK* | KC6040K | PF6040 | 3 | 14 | 42 | KD6040K |
| | 400 | | SRN6425K | SRN6425VK* | KC6040K | PF6040 | 3 | 14 | 42 | KD6040K |
| | 600 | 250 | SRN6625K | | | | | | | |
| 700 | 500 | 200 | SRN7520K | SRN7520VK* | KC7050K | PF7050 | | | | |
| | 500 | 250 | SRN7525K | SRN7525VK* | KC7050K | PF7050 | | | | |
| 800 | 600 | 250 | SRN8625K | SRN8625VK* | KC8060K | PF8060 | 4 | 25 | 100 | KD8060K |
| | 600 | | SRN8630K | SRN8630VK* | KC8060K | PF8060 | 4 | 25 | 100 | KD8060K |
| | 800 | 300 | SRN8830K | | | | | | | |
| 1000 | 600 | 250 | SRN10625K | SRN10625VK* | KC1060K | PF1060 | 5 | 25 | 125 | KD1060K |
| | 600 | | SRN10630K | SRN10630VK* | KC1060K | PF1060 | 5 | 25 | 125 | KD1060K |
| | 800 | 300 | SRN10830K | SRN10830VK* | KC1080K | PF1080 | 5 | 36 | 180 | KD1080K |
| 1200 | 600 | 300 | SRN12630K | SRN12630VK* | KC1260K | PF1260 | 6 | 25 | 150 | KD1260K |
| | 800 | | SRN12830K | SRN12830VK* | KC1280K | PF1280 | 6 | 36 | 216 | KD1280K |

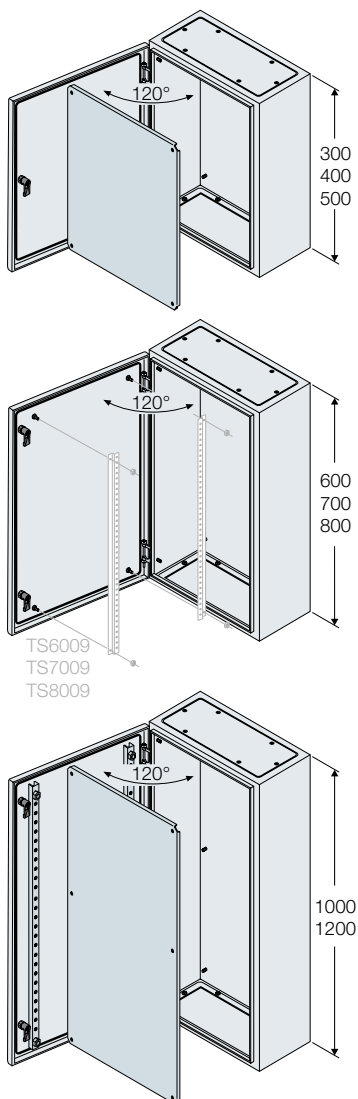
* The mounting plate must be ordered separately.

SR2 Enclosures

Ordering codes



| | | |
|-----------|-------------------------------------|------|
| 1 | Spray protection roof | |
| Page..... | | 3/6 |
| 2 | Wall-mounting brackets | |
| Page..... | | 3/11 |
| 3 | Spacers for back plates | |
| Page..... | | 3/10 |
| 4 | Blind internal plate | |
| Page..... | | 3/9 |
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| 6 | Document pocket | |
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| 8 | Plinth | |
| Page..... | | 3/11 |
| 9 | Frame for DIN rail | |
| Page..... | | 3/13 |
| 10 | Modular panels for apparatus | |
| Page..... | | 3/14 |
| 11 | DIN rail | |
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| Page..... | | 3/14 |
| 13 | Modular panel for DIN rail | |
| Page..... | | 3/14 |



SR2 Enclosures with blind door (internal plate included)

The enclosures with blind door, typically for making automation switchgear, are already fitted with the internal galvanised sheet mounting plate.

Enclosures with blind door (internal plate included)

| Dimensions (mm) | | | Code | Article | Price EUR | Package/ No. of pieces |
|--------------------|-----|-----|-----------|---------|--------------|---------------------------|
| H | W | D | | | | |
| 300 ⁽¹⁾ | 200 | 150 | SRN3215K | | | 1/1 |
| | 300 | 150 | SRN3315K | | | 1/1 |
| | 400 | 150 | SRN3415K | | | 1/1 |
| 400 ⁽¹⁾ | 300 | 150 | SRN4315K | | | 1/1 |
| | 300 | 200 | SRN4320K | | | 1/1 |
| | 400 | 200 | SRN4420K | | | 1/1 |
| | 600 | 200 | SRN4620K | | | 1/1 |
| 500 ⁽¹⁾ | 300 | 200 | SRN5320K | | | 1/1 |
| | 400 | 200 | SRN5420K | | | 1/1 |
| | 400 | 250 | SRN5425K | | | 1/1 |
| 600 | 400 | 200 | SRN6420K | | | 1/1 |
| | 400 | 250 | SRN6425K | | | 1/1 |
| | 600 | 250 | SRN6625K | | | 1/1 |
| 700 | 500 | 200 | SRN7520K | | | 1/1 |
| | 500 | 250 | SRN7525K | | | 1/1 |
| 800 | 600 | 250 | SRN8625K | | | 1/1 |
| | 600 | 300 | SRN8630K | | | 1/1 |
| | 800 | 300 | SRN8830K | | | 1/1 |
| 1000* | 600 | 250 | SRN10625K | | | 1/1 |
| | 600 | 300 | SRN10630K | | | 1/1 |
| | 800 | 300 | SRN10830K | | | 1/1 |
| 1200* | 600 | 300 | SRN12630K | | | 1/1 |
| | 800 | 300 | SRN12830K | | | 1/1 |

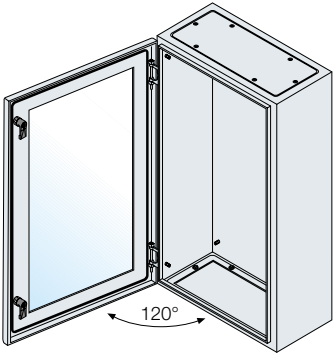
⁽¹⁾ The enclosures with height less or equal to 500mm have only a closing box.

* Plates height 1000 / 1200mm have six mounting points .

SR2 Enclosures

Ordering codes

3



Enclosures with glazed door

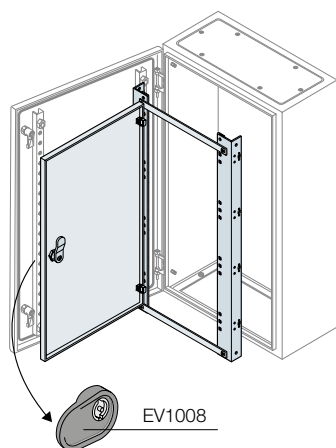
The enclosures with glazed door are also used for distribution configurations. The internal equipment is made, alternatively, by selecting the special kits:

- KD... (Distribution Kit) consisting of a pair of functional uprights for assembly of the modular panels (to be ordered separately) and of any compensation panel (see page 2/8).

The modular panels, which can also be installed on the enclosures with blind door with the help of the KD.. kit itself, are all hinged and have vertical modularity of 185 mm.

| Enclosures with glazed door | | | | | | |
|-----------------------------|-----|-----|------------|---------|-----------|------------------------|
| Dimensions (mm) | | | Code | Article | Price EUR | Package/ No. of pieces |
| H | W | D | | | | |
| 500 ⁽¹⁾ | 400 | 200 | SRN5420VK | | | 1/1 |
| | 400 | 250 | SRN5425VK | | | 1/1 |
| 600 | 400 | 200 | SRN6420VK | | | 1/1 |
| | 400 | 250 | SRN6425VK | | | 1/1 |
| 700 | 500 | 200 | SRN7520VK | | | 1/1 |
| | 500 | 250 | SRN7525VK | | | 1/1 |
| 800 | 600 | 250 | SRN8625VK | | | 1/1 |
| | 600 | 300 | SRN8630VK | | | 1/1 |
| 1000 | 600 | 250 | SRN10625VK | | | 1/1 |
| | 600 | 300 | SRN10630VK | | | 1/1 |
| | 800 | 300 | SRN10830VK | | | 1/1 |
| 1200 | 600 | 300 | SRN12630VK | | | 1/1 |
| | 800 | 300 | SRN12830VK | | | 1/1 |

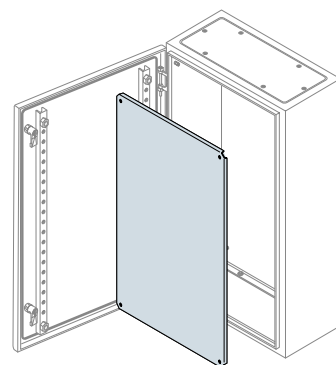
⁽¹⁾ The enclosures with height less or equal to 500mm hare only a closing box.



Blind counterdoor

The internal counterdoor guarantees IP20 degree of protection. Made of steel sheet 15/10mm thick, galvanized and painted orange peel RAL 7035 colour, complete with the EV1008 ergonomic box and insert with double tongue.

| Blind counterdoor | | | | |
|-------------------|-----|---------|--|---------------------------|
| Dimensions (mm) | | Code | | Package/ No. of pieces |
| H | W | | | |
| 500 | 400 | KC5040K | | 1/1 |
| 600 | 400 | KC6040K | | 1/1 |
| 700 | 500 | KC7050K | | 1/1 |
| 800 | 600 | KC8060K | | 1/1 |
| 1000 | 600 | KC1060K | | 1/1 |
| 1000 | 800 | KC1080K | | 1/1 |
| 1200 | 600 | KC1260K | | 1/1 |
| 1200 | 800 | KC1280K | | 1/1 |



Blind internal mounting plate

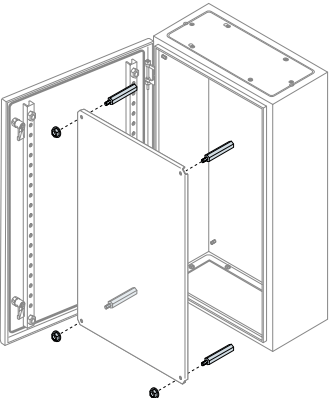
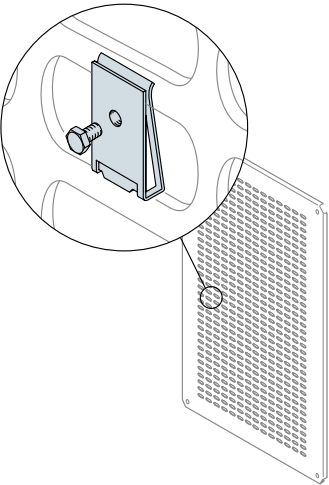
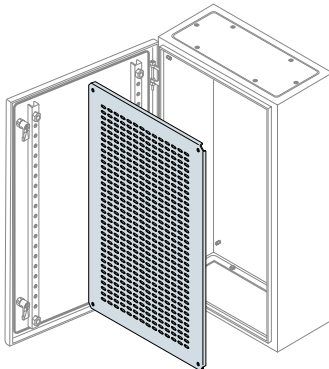
Internal galvanised sheet mounting plate 20/10mm thick complete with fixing with small items provided. Possibility of adjusting the depth with the help of a special spacer kit (to be ordered separately).

| Blind back plate for enclosure | | | | |
|--------------------------------|-----|--------|--|---------------------------|
| Dimensions (mm) | | Code | | Package/ No. of pieces |
| H | W | | | |
| 300 | 200 | PF3020 | | 1/1 |
| 300 | 300 | PF3030 | | 1/1 |
| 300 | 400 | PF3040 | | 1/1 |
| 400 | 300 | PF4030 | | 1/1 |
| 400 | 400 | PF4040 | | 1/1 |
| 400 | 600 | PF4060 | | 1/1 |
| 500 | 300 | PF5030 | | 1/1 |
| 500 | 400 | PF5040 | | 1/1 |
| 600 | 400 | PF6040 | | 1/1 |
| 600 | 600 | PF6060 | | 1/1 |
| 700 | 500 | PF7050 | | 1/1 |
| 800 | 600 | PF8060 | | 1/1 |
| 800 | 800 | PF8080 | | 1/1 |
| 1000 | 600 | PF1060 | | 1/1 |
| 1000 | 800 | PF1080 | | 1/1 |
| 1200 | 600 | PF1260 | | 1/1 |
| 1200 | 800 | PF1280 | | 1/1 |

SR2 Enclosures

Ordering codes

3



Slotted internal mounting plate

Fixing with small items provided. Possibility of adjusting the depth with the help of a special spacer kit (to be ordered separately).

| Back plate for enclosure | | | | |
|--------------------------|------|--------|--|------------------------|
| Dimensions (mm) | | | | |
| W | H | Code | | Package/ No. of pieces |
| 200 | 300 | TQ3020 | | 1/1 |
| 300 | 300 | TQ3030 | | 1/1 |
| 400 | 300 | TQ3040 | | 1/1 |
| 300 | 400 | TQ4030 | | 1/1 |
| 400 | 400 | TQ4040 | | 1/1 |
| 600 | 400 | TQ4060 | | 1/1 |
| 300 | 500 | TQ5030 | | 1/1 |
| 400 | 500 | TQ5040 | | 1/1 |
| 400 | 600 | TQ6040 | | 1/1 |
| 600 | 600 | TQ6060 | | 1/1 |
| 500 | 700 | TQ7050 | | 1/1 |
| 600 | 800 | TQ8060 | | 1/1 |
| 800 | 800 | TQ8080 | | 1/1 |
| 600 | 1000 | TQ1060 | | 1/1 |
| 800 | 1000 | TQ1080 | | 1/1 |
| 600 | 1200 | TQ1260 | | 1/1 |
| 800 | 1200 | TQ1280 | | 1/1 |

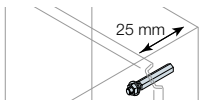
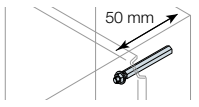
Clip nuts

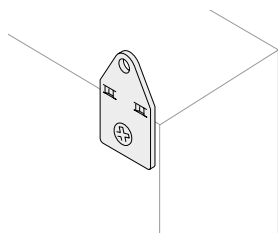
For slotted plates with M6x10mm hexagonal head screws.

| Description | Code | | | Package/ No. of pieces |
|-----------------|--------|--|--|------------------------|
| No.20 clip nuts | TQ6610 | | | 1/20 |

Spacer Kit for adjusting the depth of the back plates

Kit consisting of 12 spacers for fixing the back plate with the possibility of adjusting the depth with 25 mm pitch.

| Description | Code | | | Package/ No. of pieces |
|-------------------------------------------------------------------------------------|--------|--|--|------------------------|
| Spacers 25mm long | AA8025 | | | 1/12 |
|  | | | | |
| Spacers 50mm long | AA8050 | | | 1/12 |
|  | | | | |

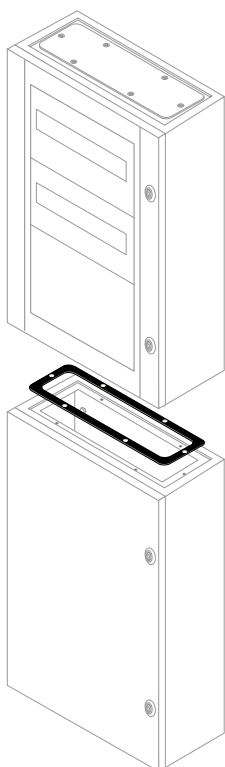


Brackets for wall fixing

These allow wall installation of the enclosures and are mounted by using the special holes positioned on the rear of the enclosures.

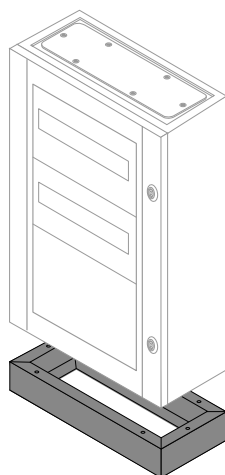
| Description | Code | | | Package/ No. of pieces |
|--------------------------|--------|--|--|---------------------------|
| Brackets for wall fixing | AA1206 | | | 1/4 |

3



Accessories for stacking

| Dimensions (mm) | | Code | | | Package/ No. of pieces |
|-----------------|-----|--------|--|--|---------------------------|
| W | D | | | | |
| IP65 gasket | | | | | |
| 400 | 200 | GZ4020 | | | 1/1 |
| | 250 | GZ4025 | | | 1/1 |
| 600 | 200 | GZ6020 | | | 1/1 |
| | 250 | GZ6025 | | | 1/1 |
| | 300 | GZ6030 | | | 1/1 |
| 800 | 300 | GZ8030 | | | 1/1 |



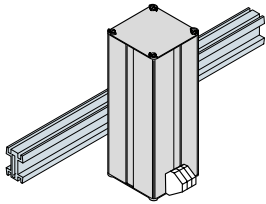
Plinth

Steel plinth 25/10 thick grey RAL7012 color.

| Plinth | | | | | |
|-----------------|-----|-----|--------|--|---------------------------|
| Dimensioni (mm) | | | Code | | Package/ No. of pieces |
| W | D | H | | | |
| 400 | 200 | 100 | ZA4020 | | 1/1 |
| | 250 | 100 | ZA4025 | | 1/1 |
| 600 | 250 | 100 | ZA6025 | | 1/1 |
| | 300 | 100 | ZA6030 | | 1/1 |
| 800 | 300 | 100 | ZA8030 | | 1/1 |

SR2 Enclosures

Ordering codes



3

Temperature management

Heater for IP20 electrical switchboards

Their use prevents condensation in the electric cabinets. They consist of a heating element (PTC thermistor) inserted in an aluminium alloy ground plate. The PTC thermistor is a component which modifies its impedance according to the operating temperature. It is intrinsically stable and ensures primary safety features for the heater and service stability. The main qualities of the heaters using PTC are:

- electrical absorption (or dissipated power) which is almost constant in the range of power supply voltage between 100 and 250V;
- electrical absorption bound by inverse law to the trend of the ambient temperature;
- natural or forced ventilator with incorporated ventilator;
- ambient thermostat integrated in the heater (versions with forced ventilation).

Snap-on assembly on 35 mm DIN rail. Requires a thermostat.

| Description | Dimensions (mm) | | | Weight (kg) | Inrush current (A) | Fuse/ MCB (A) | Code | | Package/ No. of pieces |
|------------------------------------------------------------|-----------------|----|----|-------------|--------------------|---------------|--------|--|------------------------|
| | H | W | D | | | | | | |
| Anti-condensation heater 30W, 110-240 Vac-dc | 125 | 42 | 42 | 0,30 | 1.0-1.5 | 2 / C6 | VA7930 | | 1/1 |
| Anti-condensation heater 50W, 110-240 Vac-dc | 150 | 42 | 42 | 0,40 | 1.0-1.5 | 2 / C6 | VA7950 | | 1/1 |
| Anti-condensation heater 75W, 110-240 Vac-dc | 150 | 42 | 42 | 0,40 | 2.0-2.5 | 2 / C6 | VA7975 | | 1/1 |
| Anti-condensation heater 100W, 110-240 Vac-dc | 150 | 42 | 51 | 0,45 | 2.0-3.0 | 2 / C6 | VA7910 | | 1/1 |
| Anti-condensation heater 150W, 110-240 Vac-dc | 150 | 82 | 51 | 0,55 | 5.0-6.0 | 4 / C10 | VA7915 | | 1/1 |
| Anti-condensation heater with fan 300W, 110-240 Vac 50-60H | 125 | 80 | 91 | 0,75 | 8.0-10 | 4 / C10 | VA8300 | | 1/1 |

All the heaters with PTC absorb a higher power than the rated one on inrush according to a transitory which lasts a few tenths of a second.

If the heaters are to be supplied by means of an auxiliary transformer, its apparent power must be sized taking 1.5 times the rated power of the heaters with natural aeration and twice those with forced ventilation into consideration.

IEC 890 method for calculating the effective cooling surface (CEI 17-43 method)

The total power dissipation P of an enclosure is linked to the exchange effective dissipating surface S, the ΔT difference between the inner and outer temperature and the k coefficient of heat exchange relative to the material of the enclosure:

$$P = k \cdot \Delta T \cdot S$$

k = 5,5 for painted steel

$$\Delta T = T_1 - T_2;$$

T1 = dew point temperature (on overage 25°C)

T2 = minimum ambient temperature.

The exchange surface S can be calculated using the following table taken from the CEI 17-43.

| Disposition of the cabinet | Calculating the enclosure surface S (mm ²) | Dimensions (m) |
|-------------------------------------------------------|------------------------------------------------------------------|--------------------------------------|
| Detached, exposed on all sides | $S = 1,8 \times H \times (L+P) + 1,4 \times L \times P$ | L = width H = height P = depth |
| For closed to a wall structures | $S = 1,4 \times L \times (H+P) + 1,8 \times P \times H$ | |
| Left or right exposed structure | $S = 1,4 \times P \times (H+L) + 1,8 \times L \times H$ | |
| Left or right closed to a wall structure | $S = 1,4 \times H \times (P+L) + 1,4 \times L \times P$ | |
| Central exposed structure | $S = 1,8 \times L \times H + 1,4 \times L \times P + P \times H$ | |
| Central closed to a wall structure | $S = 1,4 \times L \times (H+P) + P \times H$ | |
| Central closed to a wall structure, with covered roof | $S = 1,4 \times L \times H + 0,7 \times L \times P + P \times H$ | |

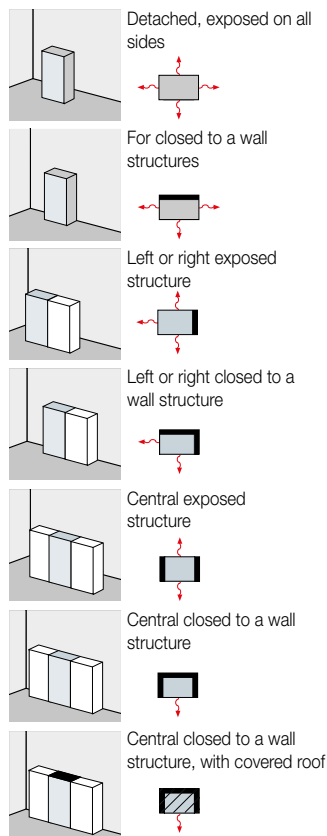
Using a SRN8630K box, in "for closed to a wall structures" case we will obtain:

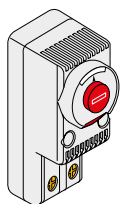
$$T_1 = 25 \text{ °C}; T_2 = 20 \text{ °C}; K = 5,5; \Delta T = (25-20) = 5 \text{ °C}; S = 1,4\text{m}^2$$

The total power dissipation P obtained will be:

$$P = k \cdot \Delta T \cdot S = 38,5 \text{ W}$$

The recommended heater is VA7950 (50W).





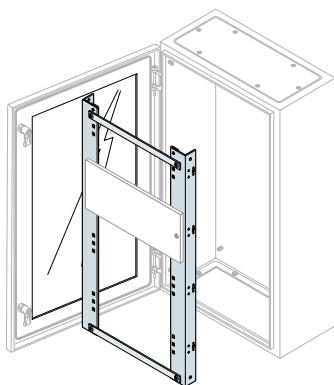
Temperature management

IP20 Thermostat

Conforms to EN 60730-1, CE and cURus standards, IP20 degree of protection. Grey RAL 7035 colour; electrical life 100,000 cycles. Dimensions (HxWxD) 68x29x45mm, can be mounted on DIN rail. The version with NO (normally open) contact allows closure of a circuit activating ventilation, air conditioning, or alarms. The version with NC (normally closed) contact allows opening of a circuit, disconnecting any anti-condensation resistances.

| Description | Standard power supply V~/50-60Hz | | Code | | Package/ No. of pieces |
|---------------------------|-------------------------------------|--|---------|--|---------------------------|
| NO ventilation thermostat | 12-60 V d.c.; 110-250V a.c. | | EN0101K | | 1/1 |
| NC heating thermostat | 12-60 V d.c.; 110-250V a.c. | | EN0102K | | 1/1 |

| Code | Standard power supply V~/50-60Hz | Contact capacity Load Ω | Load L | Temperature scale | Type of contact | Weight |
|---------|-------------------------------------|----------------------------|--------|----------------------|-----------------|--------|
| EN0101K | 12-60 V d.c.; 110-250V a.c. | 10A | 2A | -10 +80 °C | NO | 54g |
| EN0102K | 12-60 V d.c.; 110-250V a.c. | 10A | 2A | -10 +80 °C | NC | 54g |



Frame for DIN rail

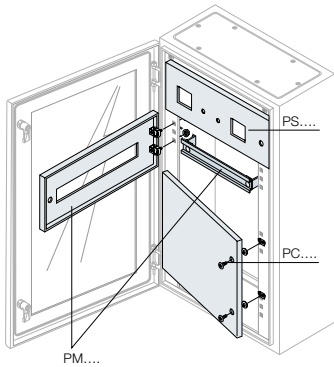
Internal supports for fixing modular panels and DIN rails, colour RAL 7035 orange peel.

| Description | Dimensions (mm) | | Code | | | Package/ No. of pieces |
|-------------------------------|-----------------|-----|---------|--|--|---------------------------|
| | H | W | | | | |
| Supports 14 mod. DIN x 2 rows | 500 | 400 | KD5040K | | | 1/1 |
| Supports 14 mod. DIN x 3 rows | 600 | 400 | KD6040K | | | 1/1 |
| Supports 25 mod. DIN x 4 rows | 800 | 600 | KD8060K | | | 1/1 |
| Supports 25 mod. DIN x 5 rows | 1000 | 600 | KD1060K | | | 1/1 |
| Supports 36 mod. DIN x 5 rows | 1000 | 800 | KD1080K | | | 1/1 |
| Supports 25 mod. DIN x 6 rows | 1200 | 600 | KD1260K | | | 1/1 |
| Supports 36 mod. DIN x 6 rows | 1200 | 800 | KD1280K | | | 1/1 |

SR2 Enclosures

Ordering codes

3



Modular panels

Modular panels made of 12/10mm thick sheet steel painted RAL 7035 colour orange peel. The modular hinged panels can be mounted on the enclosures by using the special kit (KD...) consisting of functional uprights and compensation panel. The hinges patented by ABB, allow automatic earthing for panel contact when it is closed and are also suitable conventional earthing (with a cable). Each modular panel (PM) has a DIN rail provided (adjustable in depth), the fixing brackets and the relative small items. Modular and circuit-breakers and Tmax moulded-case circuit-breakers up to T3 can be placed side by side on the same DIN rail using the special depth adapter AP6001. To install moulded-case circuit-breakers, it is necessary to fix the DIN rail in a position towards the back. The fixing brackets of the DIN rail allow the wiring duct to be mounted up to a maximum size of 60 x 60 mm.

Modular hinged panels for modular apparatus (DIN rail and fixing brackets included)

| Description | Dimensions (mm) | | Code | | | Package/ No. of pieces |
|------------------------------|-----------------|-----|---------|--|--|---------------------------|
| | H | W | | | | |
| 14 mod. DIN + fixing bracket | 185 | 400 | PM1414K | | | 1/1 |
| 25 mod. DIN + fixing bracket | 185 | 600 | PM1625K | | | 1/1 |
| 36 mod. DIN + fixing bracket | 185 | 800 | PM1836K | | | 1/1 |

Modular hinged panels for measuring instruments

| Description | Dimensions (mm) | | Code | | | Package/ No. of pieces |
|-------------------------|-----------------|-----|---------|--|--|---------------------------|
| | H | W | | | | |
| 2 instruments 72 x 72mm | 185 | 400 | PS2476K | | | 1/1 |
| 2 instruments 72 x 72mm | 185 | 600 | PS2676K | | | 1/1 |
| 2 instruments 72 x 72mm | 185 | 800 | PS2876K | | | 1/1 |

Modular hinged blind panels

| Description | Dimensions (mm) | | Code | | | Package/ No. of pieces |
|-------------|-----------------|-----|---------|--|--|---------------------------|
| | H | W | | | | |
| Blind panel | 185 | 400 | PC1406K | | | 1/1 |
| Blind panel | 185 | 600 | PC1606K | | | 1/1 |
| Blind panel | 185 | 800 | PC1806K | | | 1/1 |
| Blind panel | 370 | 600 | PC2606K | | | 1/1 |
| Blind panel | 370 | 800 | PC2806K | | | 1/1 |

DIN rail and fixing brackets

| Description | No. of modules | W (mm) | Code | | | Package/ No. of pieces |
|------------------------------|----------------|--------|--------|--|--|---------------------------|
| DIN rail and fixing brackets | 14 | 400 | GD4006 | | | 1/1 |
| DIN rail and fixing brackets | 25 | 600 | GD6006 | | | 1/1 |
| DIN rail and fixing brackets | 36 | 800 | GD8006 | | | 1/1 |

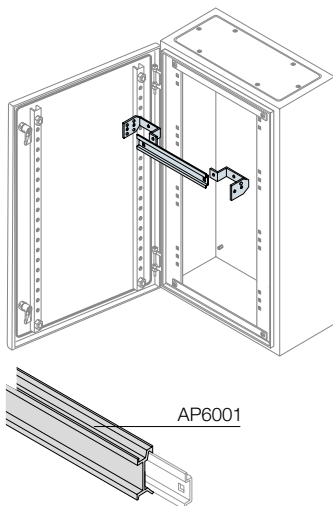
Depth adapter

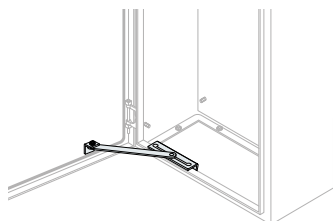
| | | | | | |
|---------------------------------------------------------|--------|--|--|--|-----|
| No.1 depth adapter for Tmax T1-T2-T3-XT1-XT3 W=600mm | AP6001 | | | | 1/4 |
|---------------------------------------------------------|--------|--|--|--|-----|

Polished flange for DIN-Rail mounting

| Description | Code | | | Package/ No. of pieces |
|------------------------------------------------|--------|--|--|---------------------------|
| Polished flange for XT1 3P mounted on DIN rail | AD3301 | | | 1/1 |
| Polished flange for XT1 4P mounted on DIN rail | AD3302 | | | 1/1 |
| Polished flange for XT3 3P mounted on DIN rail | AD3303 | | | 1/1 |
| Polished flange for XT3 4P mounted on DIN rail | AD3304 | | | 1/1 |

Already supplied in the DIN-Rail mounting kit for breakers in MCCBs catalogue

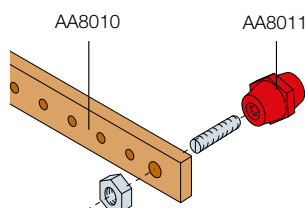




Door anti-closure device

It can't be mounted with the inner-door or with modular/blind panels mounted down in structure and hinged.

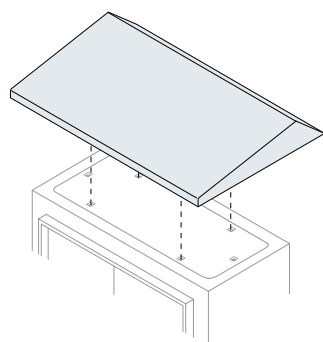
| Description | Code | | Package/ No. of pieces |
|--------------------------|--------|--|---------------------------|
| Door anti-closure device | EV0015 | | 1/4 |



Neutral or earthing busbars

The busbars, made of electrolytic copper with M6 threaded holes with 25 mm pitch, can be mounted on the back plates by means of the special supports. They must be sized according to the enclosure and the position they are installed in.

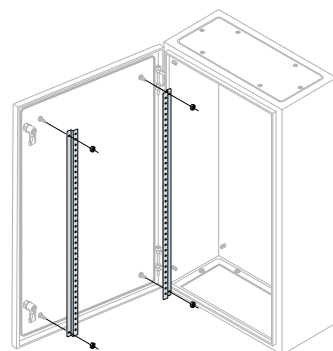
| Description | W (mm) | Code | Package/ No. of pieces |
|----------------------------|-----------|--------|---------------------------|
| No. 4 busbars sect. 20x5mm | 1000 | AA8010 | 1/4 |
| No.5 support for busbar | | AA8011 | 1/5 |



Spray protection roofs

To improve protection against entry of liquids and rain. Made of 15/10mm thick sheet steel, painted RAL 7035 colour orange peel.

| Spray protection roof | | | |
|-----------------------|-----|---------|---------------------------|
| Dimensions (mm) | | | |
| W | D | Code | Package/ No. of pieces |
| 200 | 150 | TT2015K | 1/1 |
| 300 | 150 | TT3015K | 1/1 |
| 400 | 150 | TT4015K | 1/1 |
| 300 | 200 | TT3020K | 1/1 |
| 400 | 200 | TT4020K | 1/1 |
| 500 | 200 | TT5020K | 1/1 |
| 600 | 200 | TT6020K | 1/1 |
| 400 | 250 | TT4025K | 1/1 |
| 500 | 250 | TT5025K | 1/1 |
| 600 | 250 | TT6025K | 1/1 |
| 600 | 300 | TT6030K | 1/1 |
| 800 | 300 | TT8030K | 1/1 |



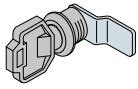
Shaped sections for accessories

These allow fixing of accessories (e.g. wiring ducts) inside the blind doors. They consist of a pair of vertical cross-pieces made of 15/10mm thick white galvanised sheet, pre-drilled with 25 mm pitch. In the enclosures with 1000 and 1200 mm height with blind door, the shaped sections are already provided.

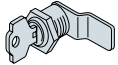
| Description | Dimensions (mm) H | Code | Package/ No. of pieces |
|--------------------------------|----------------------|--------|---------------------------|
| No. 2 shaped sections for door | 600 | TS6009 | 1/2 |
| No. 2 shaped sections for door | 700 | TS7009 | 1/2 |
| No. 2 shaped sections for door | 800 | TS8009 | 1/2 |

SR2 Enclosures

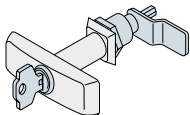
Ordering codes



AA8001



AA8002



AA8003



EV1008

Closing systems

These can replace the standard closures of the external doors. The inserts are interchangeable and easily replaced by loosening a single nut.

| Description | Code | | | Package/ No. of pieces |
|--------------------------------------------------------|--------|--|--|---------------------------|
| Box Ø 19 mm double tongue and plastic key (spare part) | AA8001 | | | 1/1 |
| Box Ø 19 mm with security insert and Yale type key | AA8002 | | | 1/1 |
| Box Ø 19 mm with handle and Yale type key | AA8003 | | | 1/1 |
| Box Ø 19 mm with triangular insert | AA5200 | | | 1/1 |
| Plastic key for triangular insert AA5200 | AA5190 | | | 1/1 |
| Ergonomic box complete with double tongue insert | EV1008 | | | 1/1 |
| Single code Yale insert | EV1036 | | | 1/1 |
| Ronis 455 insert for | EV1037 | | | 1/1 |
| 3mm Double tongue insert | EV1039 | | | 1/1 |

Document pocket RAL 7035

Made of plastic, RAL 7035 colour, A4 size. The pocket can be glued inside the blind door with a width of more than 400 mm, using the adhesives provided.

| Description | Code | | | Package/ No. of pieces |
|--------------------------------|---------|--|--|---------------------------|
| Plastic document pocket for A4 | EV1075K | | | 1/1 |

Special Painting Service

Special painting service has to manage with code of enclosure SRN....SPEC (e.g. SRN4320SPEC VERN SR + note about color required). It is necessary specify the color required in the order. Minimum order quantity 4 pieces. For any other component or further information, please contact you local sales network.

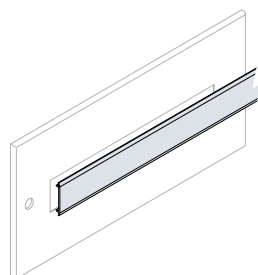
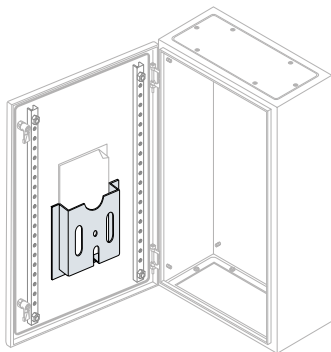
| Description | Code | | | Package/ No. of pieces |
|------------------------------------|--------|--|--|---------------------------|
| Extra cost for special SR painting | VERNSR | | | |

See page 8/13 for the colours available.

Accessories for DIN panel

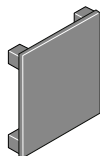
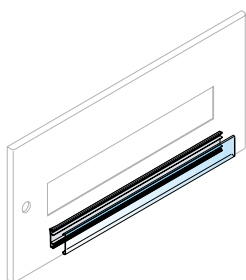
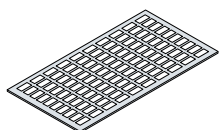
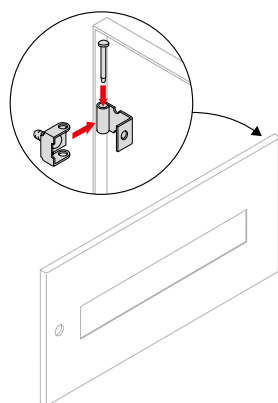
Hole covering strip RAL7035 colour

| Description | Code | | | Package/ No. of pieces |
|-----------------------------------------|--------|--|--|---------------------------|
| No.10 hole covers W=2000mm, grey | AD1086 | | | 1/10 |
| No.3 hole covers 24 DIN modules W=600mm | AD1088 | | | 1/3 |
| No.3 hole covers 36 DIN modules W=800mm | AD1089 | | | 1/3 |





EV1137

EV1135
EV1136AD1101-AD1102
AD1103-AD1104EH2118-EH2129
AD1600-AD1800

Closing plug for instrument holder panels

| Description | Code | | | Package/ No. of pieces |
|------------------------------------------------------------|--------|--|--|---------------------------|
| No.10 closing plug for instrument holder panels 72x72mm | EV1135 | | | 1/10 |
| No.5 closing plug for instrument holder panels 96x96mm | EV1136 | | | 1/5 |
| No.50 tappi di chiusura per pulsanti Ø22mm | EV1137 | | | 1/50 |

Adhesive name label holders

| Description | Dimensions (mm) W | Code | | | Package/ No. of pieces |
|---------------------------------|-------------------------|--------|--|--|---------------------------|
| No. 20 label holders 18 DIN mod | 325 | EH2118 | | | 1/20 |
| No. 20 label holders 29 DIN mod | 525 | EH2129 | | | 1/20 |
| No. 20 label holders 24 DIN mod | 432 | AD1600 | | | 1/20 |
| No. 20 label holders 36 DIN mod | 634 | AD1800 | | | 1/20 |

Etichette scrivibili con sistema Grafoplast compatibile

| Description | No. of DIN mod. | Code | | | Package/ No. of pieces |
|---------------------------|--------------------|--------|--|--|---------------------------|
| No. 288 labels 1 DIN mod. | 1 | AD1101 | | | 1/288 |
| No. 192 labels 2 DIN mod. | 2 | AD1102 | | | 1/192 |
| No. 96 labels 3 DIN mod. | 3 | AD1103 | | | 1/96 |
| No. 96 labels 4 DIN mod. | 4 | AD1104 | | | 1/96 |

Hinges and quick closures for panels

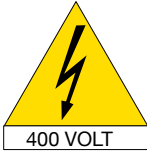
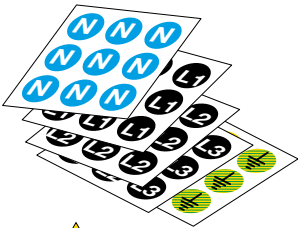
| Description | Code | | | Package/ No. of pieces |
|---------------------------------------|-----------------------|--|--|---------------------------|
| No. 10 hinges for panels | EH1889 ⁽¹⁾ | | | 1/10 |
| No. 5 quick closures for front panels | EH1890 | | | 1/5 |

⁽¹⁾ Use No.2 hinges for panel H=150/200/300/400mm, No.3 hinges for panel H=500/600mm.

SR2 Enclosures

Ordering codes

3



Marking

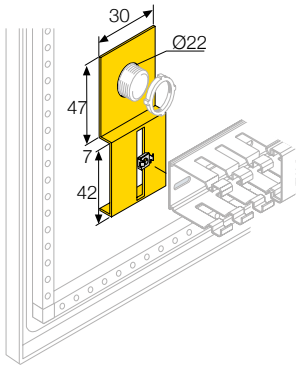
| Description | Code | | | Package/ No. of pieces |
|-------------------------------------------------------------------------|--------|--|--|---------------------------|
| No.5 adhesive labels ABB-IS2 W=1000mm | EV1157 | | | 1/5 |
| No.490 adhesive labels Ø 12mm N symbol | EV1150 | | | 1/490 |
| No.490 adhesive labels Ø 12mm L1 symbol | EV1151 | | | 1/490 |
| No.490 adhesive labels Ø 12mm L2 symbol | EV1152 | | | 1/490 |
| No.490 adhesive labels Ø 12mm L3 symbol | EV1153 | | | 1/490 |
| No.490 adhesive labels Ø 12mm T symbol | EV1154 | | | 1/490 |
| No.10 triangular adhesive labels 125mm with 400V lightning arrow symbol | EV1155 | | | 1/10 |
| No.100 triangular adhesive labels 50mm with light-ning arrow symbol | EV1156 | | | 1/100 |

Screws for apparatus

| Description | Code | | | Package/ No. of pieces |
|--------------------------------------------------------|--------|--|--|---------------------------|
| No.1000 perforating screws 4.2x13mm cross slotted head | EV1100 | | | 1/1000 |
| No.1000 perforating screws 4.2x19mm cross slotted head | EV1101 | | | 1/1000 |
| No.50 trilobed screws M6 L=10mm | AD1033 | | | 1/50 |

Wiring duct support brackets

| Description | Code | | | Package/ No. of pieces |
|-----------------------------------------------------------|--------|--|--|---------------------------|
| No. 100 wiring duct support brackets on upright structure | EV1131 | | | 1/100 |



Spare parts

| Description | Code | | Package/ No. of pieces |
|-------------------------------------------------------------------|----------|--|---------------------------|
| Ergonomic box complete with double tongue insert (without tongue) | EV1008 | | 1/1 |
| N. 10 hinges for SR2 enclosures + countersunk rivets | AA1204 | | 1/1 |
| N. 16 screws and nuts M6x14 for flange | AA1203 | | 1/2 |
| N. 2 fairlead plates for SRN3215K | FLN3215K | | 1/2 |
| N. 2 fairlead plates for SRN3315K-SRN4315K | FLN3315K | | 1/2 |
| N. 2 fairlead plates for SRN3415K | FLN3415K | | 1/2 |
| N. 2 fairlead plates for SRN4320K-SRN5320K | FLN4320K | | 1/2 |
| N. 2 fairlead plates for SRN4420K-SRN5420K-SRN6420K | FLN4420K | | 1/2 |
| N. 2 fairlead plates for SRN5425K-SRN6425K | FLN4425K | | 1/2 |
| N. 2 fairlead plates for SRN4620K | FLN4620K | | 1/2 |
| N. 2 fairlead plates for SRN6625K-SRN8625K-SRN10625K | FLN6625K | | 1/2 |
| N. 2 fairlead plates for SRN7520K | FLN7520K | | 1/2 |
| N. 2 fairlead plates for SRN7525K | FLN7525K | | 1/2 |
| N. 2 fairlead plates for SRN8630K-SRN10630K-SRN12630K | FLN8630K | | 1/2 |
| N. 2 fairlead plates for SRN8830K-SRN10830-SRN12830K | FLN8830K | | 1/2 |
| Blind door 1000x600mm (hxl) | PRN1066K | | 1/1 |
| Blind door 1000x800mm (hxl) | PRN1086K | | 1/1 |
| Blind door 1200x600mm (hxl) | PRN1266K | | 1/1 |
| Blind door 1200x800mm (hxl) | PRN1286K | | 1/1 |
| Blind door 300x200mm (hxl) | PRN3026K | | 1/1 |
| Blind door 300x300mm (hxl) | PRN3006K | | 1/1 |
| Blind door 300x400mm (hxl) | PRN3046K | | 1/1 |
| Blind door 400x300mm (hxl) | PRN4036K | | 1/1 |
| Blind door 400x400mm (hxl) | PRN4046K | | 1/1 |
| Blind door 400x600mm (hxl) | PRN4066K | | 1/1 |
| Blind door 500x300mm (hxl) | PRN5036K | | 1/1 |
| Blind door 500x400mm (hxl) | PRN5046K | | 1/1 |
| Blind door 600x400mm (hxl) | PRN6046K | | 1/1 |
| Blind door 600x600mm (hxl) | PRN6066K | | 1/1 |
| Blind door 700x500mm (hxl) | PRN7056K | | 1/1 |
| Blind door 800x600mm (hxl) | PRN8066K | | 1/1 |
| Blind door 800x800mm (hxl) | PRN8086K | | 1/1 |
| Glazed door 1000x600mm (hxl) | PTN1066K | | 1/1 |
| Glazed door 1000x800mm (hxl) | PTN1086K | | 1/1 |
| Glazed door 1200x600mm (hxl) | PTN1266K | | 1/1 |
| Glazed door 1200x800mm (hxl) | PTN1286K | | 1/1 |
| Glazed door 500x400mm (hxl) | PTN5046K | | 1/1 |
| Glazed door 600x400mm (hxl) | PTN6046K | | 1/1 |
| Glazed door 700x500mm (hxl) | PTN7056K | | 1/1 |
| Glazed door 800x600mm (hxl) | PTN8066K | | 1/1 |

SR2 Enclosures

Ordering codes



Painting Special Service

| Description | Code | Package/ No. of pieces |
|------------------------------------|--------|---------------------------|
| Extra cost for special SR painting | VERNSR | |

Standard size enclosures, standard colour

Special painting service with standard colour (for available colours, see page 8/13) for standard size enclosures in quantities equal to or greater than 4 units with single code to be managed with code SRN ... SPEC + VERNSR overprice equal to the number of enclosures + colour note to be specified in the order.

Example: **SRN4320SPEC** 4
VERNSR 4
COLOUR NOTE

Standard size enclosures, non-standard colour

Request feasibility of implementation by completing the relevant Form for special quotations and send it to the R&D ECS office.

Management is per offer.

If the offer is accepted and after having received it, it will be possible to place the order with the codes indicated in the offer with the following features:

Example: **SRN4320SPEC** 4
VERNSR 4
OFFER REFERENCE IN THE ORDER

Non-standard size enclosures, standard colour

Request feasibility of implementation by completing the relevant Form for special quotations and send it to the R&D ECS office.

Management is per offer.

If the offer is accepted and after having received it, it will be possible to place the order with the codes indicated in the offer, that will not be SRN...SPEC, but dummy ones:

Always remember to indicate the offer reference in the order.

Non-standard size enclosures, non-standard colour

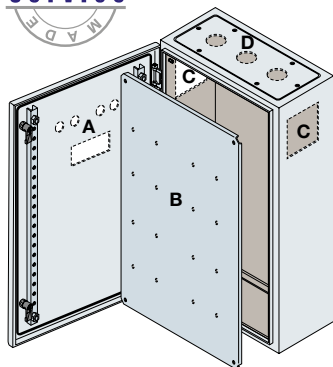
Request feasibility of implementation by completing the relevant Form for special quotations and send it to the R&D ECS office.

Management is per offer.

If the offer is accepted and after having received it, it will be possible to place the order with the codes indicated in the offer, that will not be SRN...SPEC, but dummy ones:

Always remember to indicate the offer reference in the order.

Please note that the minimum quantity is four pieces with a single code.



Special Drilling Service

The overprice amount depends on the number of individual drilled parts and not on the number of holes.

For single part it means: A-door B-plate; C-housing; D-top/bottom part.

Please note that the minimum quantity is 4 pieces with a single code.

The price of the special drilling service depends on the number of parts to be drilled and on the amount of enclosures to be drilled.

| Description | Code | No. of enclosures to be drilled |
|-----------------------------------------|--------|---------------------------------|
| Raise for single drilled part (A-B-C-D) | FORSR1 | 4-5-6 |
| Raise for single drilled part (A-B-C-D) | FORSR2 | 7-8-9 |
| Raise for single drilled part (A-B-C-D) | FORSR | ≥ 10 |

3

Standard size enclosures with special drilling

The special drilling service for standard size enclosures in quantities equal to or greater than 4 units with a single code has to be managed with code SRN ... SPEC + overprice FORSR/FORSR1/FORSR2 (see table) equal to the number of enclosures and the number of parts to be drilled + hole layout to be attached to the order (see useful drilling areas, page 9/49)

Example: Enclosure (4 pcs) with door to be drilled (1 part)

Example: **Enclosure (4 pcs) with door and plate to be drilled (1 parts)**

SRN4320SPEC 4

FORSR1 4

DRAWINGS TO BE ATTACHED

Example: **Enclosure (4 pcs) with door and plate to be drilled (2 parts)**

SRN4320SPEC 4

FORSR1 8

DRAWINGS TO BE ATTACHED

Non-standard enclosure sizes, special drilling

Request feasibility of implementation by completing the relevant Form for special quotations and send it together with the drill layout to the R&D ECS office.

Management is per offer.

If the offer is accepted and after having received it, it will be possible to place the order with the codes indicated in the offer, that will not be SRN...SPEC, but dummy ones.

Always remember to indicate the offer reference in the order.

Ricordarsi sempre di indicare nell'ordine il riferimento dell'offerta.

SR2 EMC Enclosures

General characteristics and ordering codes

The range of SR2 Enclosures EMC (Electromagnetic Compatibility) version has undergone shielding efficiency tests with success according to the MIL STD 285: 1956 Standard.

3

This series of products is suitable for making small and medium-sized electric switchboards for automation, operation and control. The electromagnetic compatibility problem also requires attention when selecting enclosures and cabinets.

The increased number of components in the operation and regulation electronics and the high processing speeds of signals increasingly often leave a possibility of introducing errors which can be attributed to electromagnetic interference.

These interferences may be caused continuously, periodically or at random, from internal or external sources, which generate electric, magnetic or electromagnetic fields.

The suitability tests according to MIL STD 285: 1956 ("Attenuation measurements for enclosures, electromagnetic shielding, for electronic test purposes, method of") have confirmed conformity of the SR2 EMC enclosure with the requirements of the standard. The attenuation level (measured in dB) remains at high levels for a wide spectrum of frequencies (from 30MHz to 10GHz).

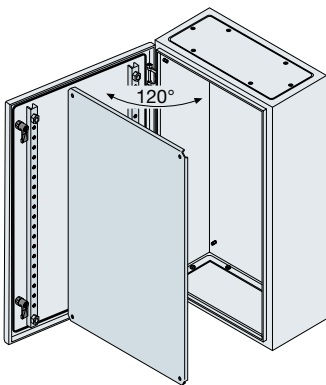
The SR2 EMC galvanized sheet enclosures are painted externally with orange peel RAL 7035 colour.

Furthermore, they do not have cable entry flanges on the roof and on the base.

Technical characteristics

| | | |
|--------------------------------------------------|----------|--------------------------------|
| Conformity with the Standard | | IEC 62208 |
| Degree of protection | | IP54 (IEC 60529) |
| Degree of mechanical strength | | IK10 blind door (IEC 62262) |
| Type of material | | Metallic |
| Installation site | | Indoors |
| Fixing method | | floor/wall |
| Normal service conditions ambient temperature | | from -5 up to +40°C |
| Operating climate (t°/Ur%) | costant | 23°C/83% - 40°C/93% |
| | variable | 23°C/98% - 40°C/98% |

Ordering codes



IP54 - EMC Enclosures with blind door

The enclosures with blind door, typically destined for making automation switchboards, are already provided with the internal galvanized sheet plate.

Enclosures with blind door and mounting plate

| Dimensions (mm) | | | Code | | | Package/ No. of pieces |
|-----------------|-----|-----|-------------|--|--|---------------------------|
| H | W | D | | | | |
| 400 | 600 | 200 | SR4620EMCK | | | 1/1 |
| 600 | 600 | 250 | SR6625EMCK | | | 1/1 |
| 1000 | 800 | 300 | SR10830EMCK | | | 1/1 |

For completion of the structure, see accessories on page 3/6



AM2 Cabinets

| | |
|------------------------------------------|------|
| General characteristics and applications | 4/2 |
| Selection of the structure | 4/6 |
| Ordering codes | 4/8 |
| Structure | 4/10 |
| Mounting plates | 4/19 |
| Structures for modular apparatus | 4/22 |
| 19" rack structures "L" shaped profile | 4/28 |
| Accessories | 4/29 |
| Spare parts | 4/41 |

AM2 Cabinets

General characteristics and applications

The range of AM2 cabinets allows construction of electric switchboards for operation and control of technological plants, covering the middle market segment of automation switchboards in particular.

These monobloc enclosures are suitable for making floor-mounted electric switchboards, offering numerous customization possibilities based on individual needs and habits. The AM2 cabinets, within the range of ABB automation

enclosures, take an intermediate position in terms of dimensions, functions and price, in between the SR2 enclosures and the IS2 cabinets, offering a unique ensemble of technical characteristics, along with simplicity of assembly.

4



Available versions

- Enclosure with blind door (single or double with overlapping depending on the dimension);
- Enclosure with glazed door;
- Enclosure with 19" fixed rack frame "L" shaped profile;
- Distribution cabinet with DIN rails and panels.

The range of AM2 cabinets is available with 30 different dimensions:

- Height 1000 and 1200mm
- Width from 600 to 1600mm (the cabinets with width ≥ 1200 mm are only supply at the front with double door)
- Depth 300, 400 and 500mm
- Two different versions: with blind door and with glazed door.

The AM2 cabinets can also be installed in environments with risk of explosion due to the presence of dust (ATEX), as foreseen under the European 94/9 CE directive and from the relative EN 50281-3 Standard.

The full compliance with the IEC 62208 Standards (Empty enclosures for low voltage switchgear and controlgear assemblies) and the relative technical characteristics, allow use of the AM2 cabinets in the most varied application contexts, as prescribed by the IEC 60204-1 Standard on electrical equipment, "Safety of electrical equipment of machines", by the EN 60439-1 Standard and by the new EN 61439-1-2 Standard on "Low voltage switchgear and controlgear assemblies".

The whole range of AM2 cabinets is characterised by its IP65 degree of protection, tested and verified according to the EN 60529 Standard. AM2 cabinets have also passed the checks required to obtain the TYPE 12 UL marks (Underwriters Laboratories).

Impact resistance is in conformity with the IEC 62262 Standard and is IK10 for the versions with blind doors and IK09 for those with glass doors. The standard colour is orange peel RAL 7035. On request, it is possible to order the AM2 cabinets in a wide range of RAL colours (see page 7/12) and to use the mounted accessories service.

The above-mentioned versatility features are such as to allow the use of AM2 cabinets as switchgear and controlgear of industrial processing machines and plants, air conditioning plants, up to application such as distribution switchboards for plants, buildings etc.



AM2 Cabinets

General characteristics and applications

Briefly, the main technical and functional characteristics of the AM2 cabinets and their components are as follows:

4



Structure

- Made of steel sheet 1,5mm thick automatically welded by means of a robot, M6 pins for earthing applied inside.
- IP65 degree of protection verified according to the IEC60529 Standard.
- Mounting plate in galvanized sheet with 2,5mm thickness and such as to therefore guarantee protection even of the parts drilled by the user; the plate is adjustable in depth with a pitch of 25mm.

Assembly of the plates in the cabinets height-wise is facilitated by the presence of two sliding supports at the back of the cabinet.



Cable tightening plates and plinth

- The cable tightening plates, not included in the supply, are of the sliding type, fitted with tightness gasket all depth.
- Palletisable plinths consisting of h=100mm four angle pieces already fixed onto the base of the structure. The four closing flanges must be ordered separately



Door

- Front doors with 120° opening made of steel sheet 1,5mm thick, with internal polyurethane foam gasket, laid using a continuous casting process.
The blind doors are fitted with an internal tube section which increases the rigidity and allows easy assembly of wiring ducts and accessories.
The version with glazed doors are fitted with hardened safety glass 4mm thick glued from the outside and such as to guarantee the IP65 degree of protection.
- the doors are fitted with two closing points by means of a box with double tongue key.
- Screwed rear panel, made of 1,5mm thick steel sheet, removable and replaceable with a door.
- Internal counterdoor made of 1,5mm thick painted sheet, fixed onto a pair of internal uprights and positioned at a distance of 50mm from the external front door



Distribution switchboard



- The AM2 cabinets can be fitted with modular panels in 600 and 800mm widths made of 1,5mm thick steel sheet as accessories. The modular panels are available in the version with DIN cut-out for one or three rows of modular apparatus, in the blind version and for 72x72mm and 96x96mm measuring instruments. All the panels have vertical modularity of 200mm and are available in fixed or hinged version (by means of an accessory). The panels with 600mm wide DIN cut-out, allow installation of 18 or 24 DIN modules, whereas those 800mm wide, allow installation of 29 or 36 DIN modules, according to whether the wiring duct is placed to the front or to the back in relation to the DIN rail. Installation of the modular panels in the AM2 cabinets requires the use of special uprights for modular panels which are screwed onto the cabinet structure. The useful space for installation of the modular panels is always 100mm less than the nominal dimension of the cabinet. The DIN rails are ordered separately and the kit includes the rail, the supports and the small fixing items. Finally, the modular galvanized internal plates are available in the 600 and 800mm widths and in the heights from 200 to 800mm. The modular plates are fixed using a kit of side crosspieces to be ordered separately according to the depth of the cabinet.



Enclosure with 19" rack frame with "L" shaped profile

- Uprights with sections for mounting 19" rack panels and accessories are available for the whole range of AM2 cabinets; this allows various electronic applications or is suitable for making small cabinets for local networks (LAN). The 19" rack uprights with "L" shaped profile are made of 2,00mm thick galvanized sheet and are applied to the structure of the AM2 cabinets 600mm wide by means of special screws: they are available for all the AM2 cabinet heights, up to a maximum of 42 HE vertical modules. The buffer panels are available in the dimensions up to 20 HE modules, are blind and are made of natural opaque colour anodized aluminium 30/10mm thick.

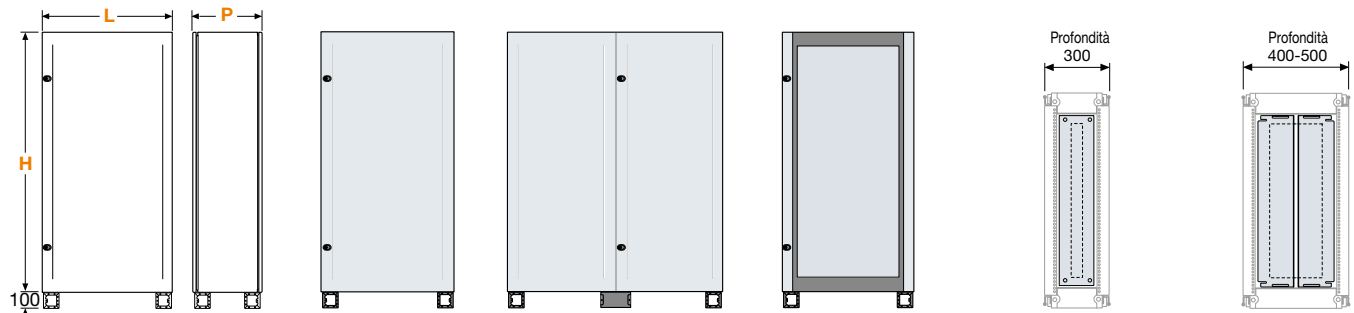
Technical characteristics

| | | |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| Conformity with Standard | IEC 62208, IEC 60439-1, IEC 61439-1-2 | |
| Degree of protection | IP65 (IEC 60529) TYPE 12 (UL Standard) | |
| Degree of mechanical strength | IK10 blind door IK09 glazed door (IEC 62262) | |
| Certifications |   | |
| Type of material | Metallic | |
| Installation site | Indoors | |
| Fixing method | floor/wall | |
| Normal service conditions - ambient temperature | from -5 up to +40°C | |
| Operating climate (t°/Ur%) | constant | 23°C/83% - 40°C/93% |
| | variable | 23°C/98% - 40°C/98% |

AM2 Cabinets

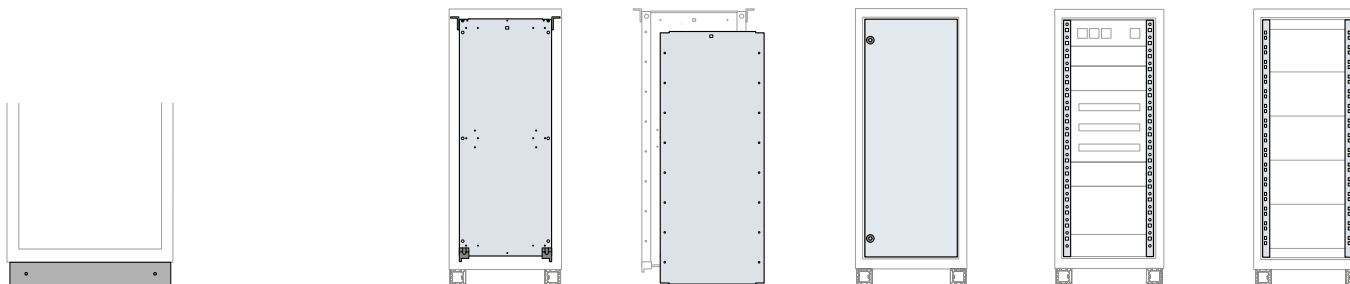
Selection of the structure

Quick selection table



| Overall dimensions | | | Cabinet with blind door | | Cabinet with glazed door | Cable entry flanges | |
|--------------------|---------|---------|-------------------------|-----------------------------------------------|--------------------------|---------------------|------------|
| H (*) mm | W mm | D mm | Single blind door | Double blind door with overlapping closure | Single glazed door | Fixed | Sliding |
| 1000 | 600 | 300 | TM2063K | | | EF6032N | |
| | 800 | | TM2083K | TM2083FV4K | | EF8032N | |
| | 1000 | | | TM2003FV5K | | EF1032N | |
| | 600 | 400 | TM2064K | | TM2064VK | EF6043 | EF6040 |
| | 800 | | TM2084K | TM2084FV4K | TM2084VK | EF8042 | EF8040 |
| | 1000 | | TM2004K | TM2004FV5K | | EF1042 | EF1040 |
| 1200 | 1200 | | | TM2024K | | 2 x EF6043 | 2 x EF6040 |
| | 1600 | | | TM2074K | | 2 x EF8042 | 2 x EF8040 |
| | 600 | 300 | TM2263K | | | EF6032N | |
| | 800 | | | TM2283FV4K | | EF8032N | |
| | 1200 | | | TM2223K | | 2 x EF6032N | |
| | 600 | 400 | TM2264K | | TM2264VK | EF6043 | EF6040 |
| | 800 | | TM2284K | | TM2284VK | EF8042 | EF8040 |
| | 1000 | | TM2204K | TM2204FV5K | TM2204VK | EF1042 | EF1040 |
| | 1200 | | | TM2224K | | 2 x EF6043 | 2 x EF6040 |

(*) The useful height is always less than 100mm compared to the external dimension of the enclosure to which the plinth dimension (H=100mm) must be added.

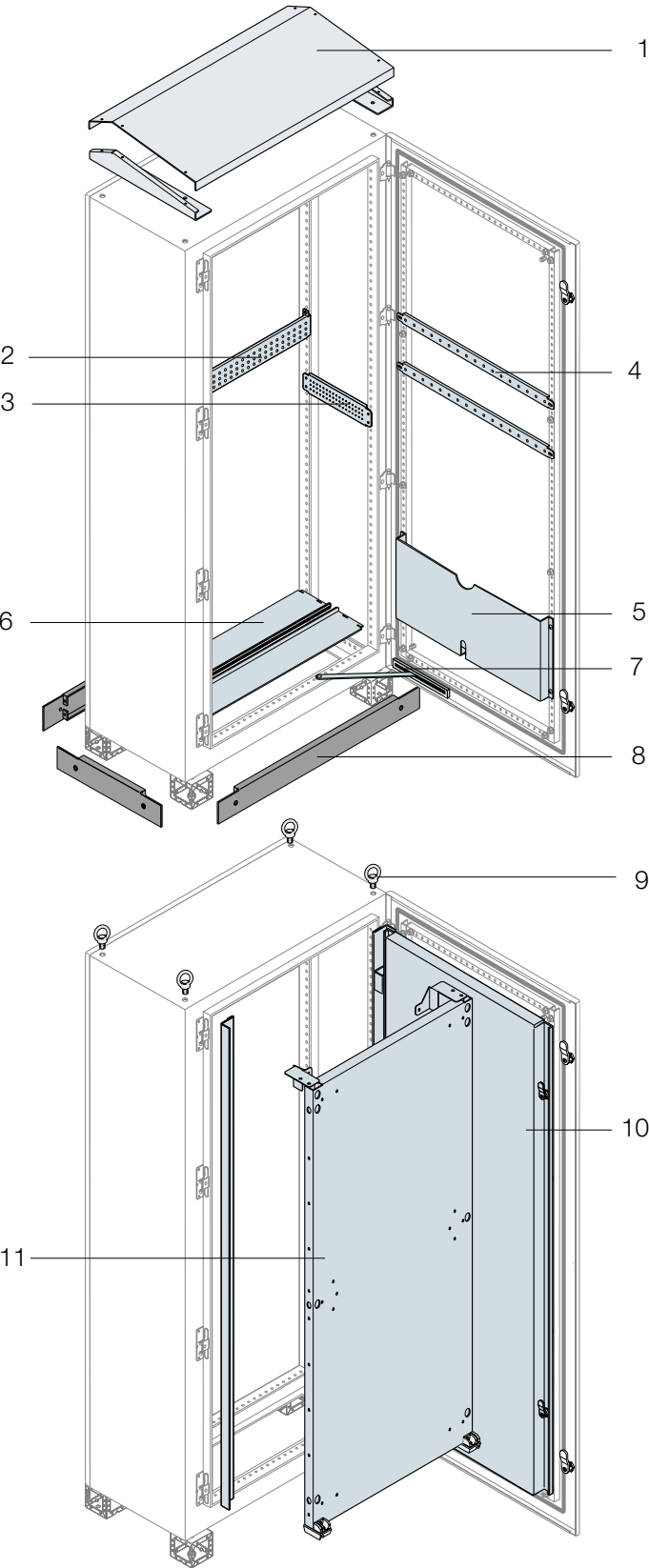


| Plinth Flanges | | Internal plate | | Counterdoor | DIN rail Uprights | 19" rack frames "L" shaped profile |
|----------------|--------|----------------|---------------|----------------------------|-------------------|------------------------------------|
| front/rear | side | Mounting plate | Opposed plate | RAL7035 orange peel colour | | |
| ZN6000 | ZN3011 | EA1060 | EA5060 | TF1060K | MD1000 | TK1000 |
| ZN8000 | | EA1080 | EA5082 | TF1080K | MD1000 | |
| ZN1000 | | EA1010 | EA5010 | TF1010K | | |
| ZN6000 | | EA1060 | EA5060 | TF1060K | MD1000 | |
| ZN8000 | ZN4011 | EA1080 | EA5082 | TF1080K | MD1000 | TK1000 |
| ZN1000 | | EA1010 | EA5010 | TF1010K | | |
| ZN1200 | | EA1012 | | | | |
| 2 x ZN8000 | | EA1016 | | | | |
| ZN6000 | ZN3011 | EA1260 | EA5260 | TF1260K | MD1200 | TK1200 |
| ZN8000 | | EA1280 | EA5280 | TF1280K | MD1200 | |
| ZN1200 | | EA1213 | | | | |
| ZN6000 | | EA1260 | EA5260 | TF1260K | MD1200 | |
| ZN8000 | ZN4011 | EA1280 | EA5280 | TF1280K | MD1200 | TK1200 |
| ZN1000 | | EA1210 | EA5210 | TF1210K | | |
| ZN1200 | | EA1213 | | | | |

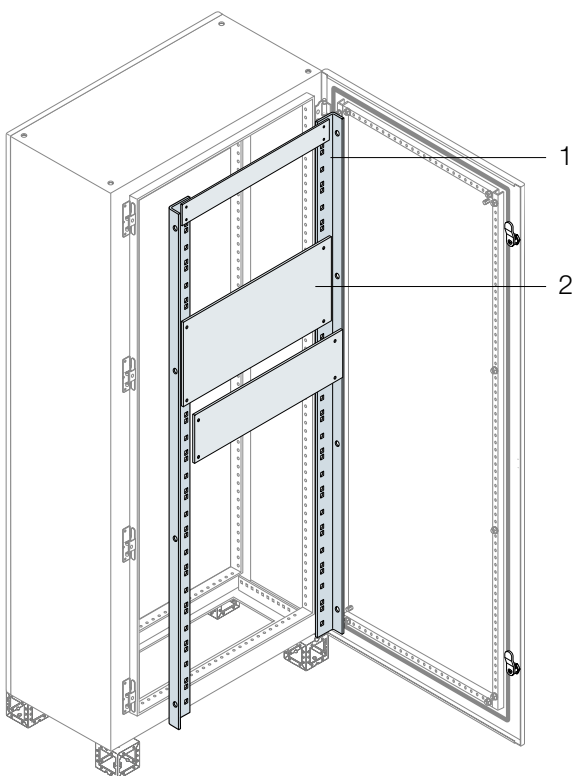
AM2 Cabinets

Ordering codes

4



| | |
|-----------|-----------------------------------------|
| 1 | Spray protection roof |
| Page..... | 4/28 |
| 2 | Crosspieces for back accessories |
| Page..... | 4/15 |
| 3 | Crosspieces for side accessories |
| Page..... | 4/14 |
| 4 | Door reinforcement profiles |
| Page..... | 4/28 |
| 5 | Document pocket |
| Page..... | 4/28 |
| 6 | Cable entry flanges |
| Page..... | 4/13 |
| 7 | Door anti-closure device |
| Page..... | 4/25 |
| 8 | Plinth covering flanges |
| Page..... | 4/11 |
| 9 | Lifting eyebolts |
| Page..... | 4/25 |
| 10 | Inner door |
| Page..... | 4/14 |
| 11 | Mounting plate |
| Page..... | 4/16 |



1
19" rack frame
Page..... 4/24

2
Blind compensation panels
Page..... 4/24

3
Uprights for DIN rail
Page..... 4/18

4
Panels for measuring instruments
Page..... 4/21

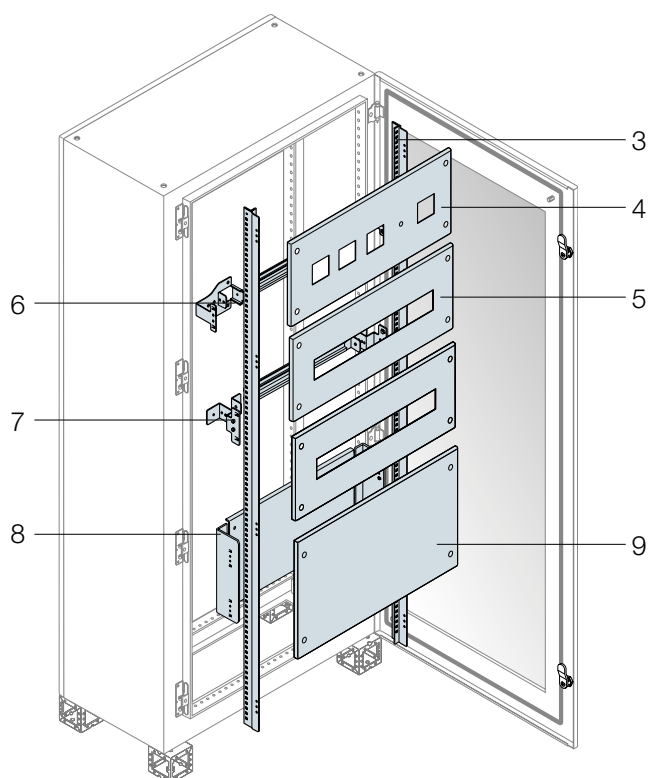
5
Panels for modular equipment
Page..... 4/19

6
DIN rail kit 18/29 mod.
Page..... 4/18

7
DIN rail kit 24/36 mod.
Page..... 4/18

8
Blind apparatus holder back plate
Page..... 4/19

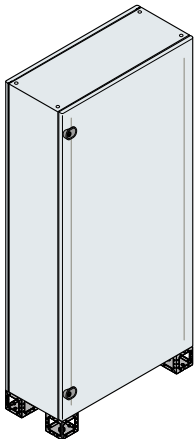
9
Blind panels for apparatuses
Page..... 4/20



AM2 Cabinets

Ordering codes

4

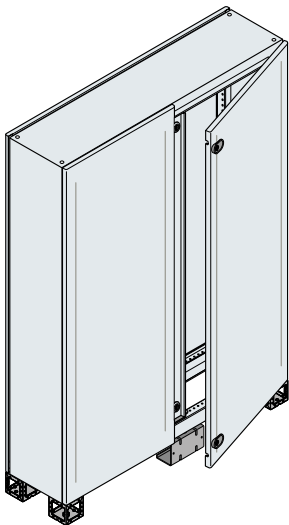


Structures

Cabinet with blind door

Monobloc structure complete with non-removable side panels and roof, reversible blind door, rear panel, plinth H=100mm consisting of four angle pieces. To be completed with plinth flanges, cable entry flanges and mounting plate or other internal equipment.

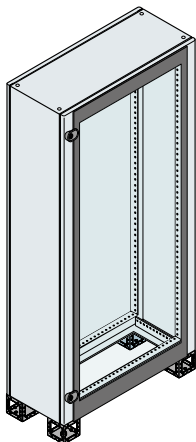
| Cabinet with blind door | | | | | |
|-------------------------|------|-----|---------|--|---------------------------|
| Dimensions (mm) | | | | | |
| H | W | D | Code | | Package/ No. of pieces |
| 1000 | 600 | 300 | TM2063K | | 1/1 |
| | 800 | 300 | TM2083K | | 1/1 |
| | 600 | 400 | TM2064K | | 1/1 |
| | 800 | 400 | TM2084K | | 1/1 |
| | 1000 | 400 | TM2004K | | 1/1 |
| 1200 | 600 | 300 | TM2263K | | 1/1 |
| | 600 | 400 | TM2264K | | 1/1 |
| | 800 | 400 | TM2284K | | 1/1 |
| | 1000 | 400 | TM2204K | | 1/1 |



Cabinets with double blind door with overlapping closure

Monobloc structure complete with non-removable side panels and roof, reversible double blind doors with overlapping closure, rear panel, plinth H=100mm consisting of four angle pieces. To be completed with flanges plinth, cable entry flanges and mounting plate or other internal equipment.

| Cabinet with double blind door | | | | | |
|--------------------------------|------|-----|------------|--|---------------------------|
| Dimensions (mm) | | | | | |
| H | W | D | Code | | Package/ No. of pieces |
| 1000 | 800 | 300 | TM2083FV4K | | 1/1 |
| | 1000 | 300 | TM2003FV5K | | 1/1 |
| | 800 | 400 | TM2084FV4K | | 1/1 |
| | 1000 | 400 | TM2004FV5K | | 1/1 |
| | 1200 | 400 | TM2024K | | 1/1 |
| | 1600 | 400 | TM2074K | | 1/1 |
| 1200 | 800 | 300 | TM2283FV4K | | 1/1 |
| | 1200 | 300 | TM2223K | | 1/1 |
| | 1000 | 400 | TM2204FV5K | | 1/1 |
| | 1200 | 400 | TM2224K | | 1/1 |



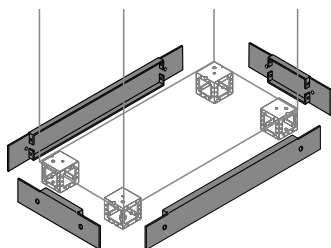
Structures

Cabinets with glazed door

Monobloc structure complete with non-removable side panels and roof, reversible type glazed door, rear panel, plinth H=100mm consisting of four angle pieces. To be completed with plinth flanges, cable entry flanges and mounting plate or other internal equipment.

| Cabinet with glazed door | | | | | | |
|--------------------------|------|-----|----------|--|--|---------------------------|
| Dimensions (mm) | | | | | | |
| H | W | D | Code | | | Package/ No. of pieces |
| 1000 | 600 | 400 | TM2064VK | | | 1/1 |
| | 800 | 400 | TM2084VK | | | 1/1 |
| 1200 | 600 | 400 | TM2264VK | | | 1/1 |
| | 800 | 400 | TM2284VK | | | 1/1 |
| | 1000 | 400 | TM2204VK | | | 1/1 |

4



Flanges front/rear H=100mm

Removable flanges made of 1510 sheet painted orange peel RAL 7012 colour (not self-supporting).

| Dimensions (mm) | | | | | | Package/ No. of pieces |
|-------------------------------------|-----|------|-----------|--|--|---------------------------|
| H | W | D | Code | | | |
| Blind flanges | | | | | | |
| Pair of flanges, front/back | 100 | 600 | ZN6000* | | | 1/2 |
| Pair of flanges, front/back | | 800 | ZN8000* | | | 1/2 |
| Pair of flanges, front/back | | 1000 | ZN1000 | | | 1/2 |
| Pair of flanges, front/back | | 1200 | ZN1200 | | | 1/2 |
| Pair of flanges, front/back | | 1600 | ZN1600 | | | 1/2 |
| Pair of side flanges | 100 | 300 | ZN3011 | | | 1/2 |
| Pair of side flanges | | 400 | ZN4011 | | | 1/2 |
| Aerated flanges | | | | | | |
| Pair of aerated flanges, front/back | 100 | 600 | ZN0006 ** | | | 1/2 |
| Pair of aerated flanges, front/back | | 800 | ZN0008 ** | | | 1/2 |
| Pair of aerated flanges, front/back | | 1000 | ZN0010 | | | 1/2 |

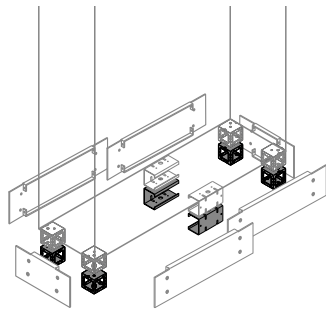
* AM2 structure W=1200/1600mm are not provided with intermediate plinth. It is possible to use No.2 flanges ZN6000/ZN8000 only in combination with code ZN1020 (intermediate plinth).

** AM2 structure W=1200/1600mm are not provided with intermediate plinth. It is possible to use No.2 flanges ZN0006/ZN0008 only in combination with code ZN1020 (intermediate plinth).

AM2 Cabinets

Ordering codes

4

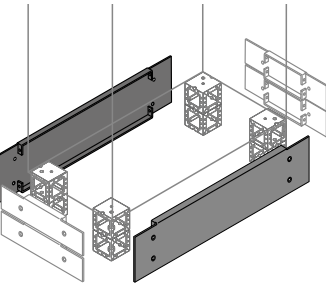


Structure

Additional Plinth

To obtain a plinth 200mm high, order a kit of angle pieces H=100mm to be added to the angle pieces already present on the structure. Complete with 2 covering flanges (H=100mm) for each side of the structure.

| Description | Dimensions (mm) | | Code | | Package/ No. of pieces |
|--------------------------------------------------------|-----------------|--|--------|--|---------------------------|
| | H | | | | |
| No. 4 angle pieces 2,5mm thick | 100 | | ZN1010 | | 1/4 |
| No. 2 angle pieces 2,5mm thick for intermediate plinth | 100 | | ZN1020 | | 1/2 |

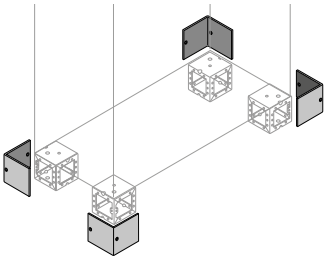


Plinth Covering Flanges H=200mm

Removable flanges made of 1,5mm sheet painted orange peel RAL 7012 colour (not self-supporting).

| Description | Dimensions (mm) | | Code | | Package/ No. of pieces |
|---------------------------------------------|-----------------|------|----------|--|---------------------------|
| | H | W | | | |
| Blind flanges H=200mm for additional plinth | | | | | |
| Pair of flanges, front/back | 200 | 600 | ZN6002 * | | 1/2 |
| Pair of flanges, front/back | | 800 | ZN8002 * | | 1/2 |
| Pair of flanges, front/back | | 1000 | ZN1002 | | 1/2 |

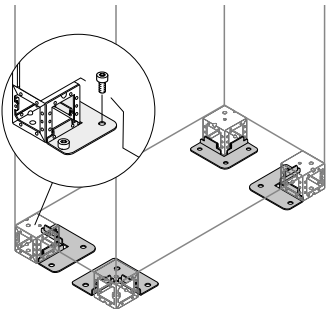
* AM2 structures W=1200/1600mm are not provided with intermediate plinth. In order to complete a plinth with H=200mm flanges, it is possible to use ZN6002/ZN8002 (H=200mm) in addition to code ZN1020 (2 pcs.)
As an alternative, it is possible to use No. 2 pairs of flanges ZN1200 (H=100mm).
Side flanges are only available with H=100mm.



Covers “L” shape for single plinth

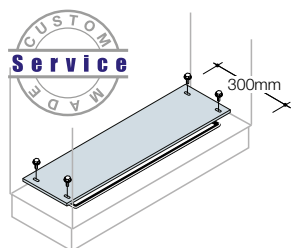
It allows to cover the sides of the plinth in case of non-use of plinth flanges.

| Descrizione | Dimensioni (mm) H | Codice | | | Package/ No. of pieces |
|-----------------------|----------------------|--------|--|--|---------------------------|
| No.4 cover for plinth | 100 | ZN1040 | | | 1/4 |

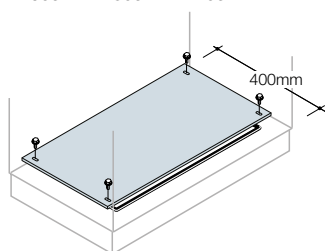


Brackets for floor fixing

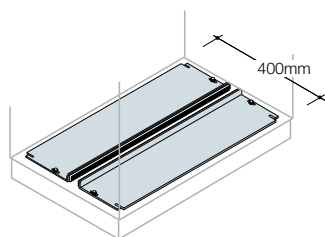
| Description | Code | | | Package/ No. of pieces |
|--------------------------------|--------|--|--|---------------------------|
| No.4 brackets for floor fixing | ZN1041 | | | 1/4 |



EF6032N-EF8032N-EF1032N



EF6043-EF8042-EF1042



EF6040-EF8040-EF1040

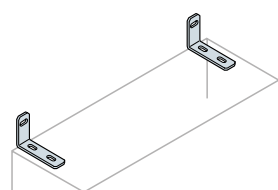
Structure

Cable entry flanges

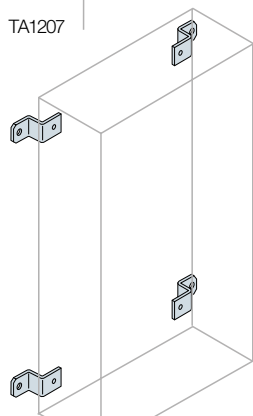
Flanges in 2,00mm galvanized sheet of sliding type for the 400mm depth and fixed for the 300/400mm depth. The thickness of the flanges is 1,5mm , while it is 2,00mm for fixed/sliding flanges.

| Dimensions (mm) | | Code | Custom Made Service* | | | Package/ No. of pieces |
|-----------------------------|-----|------------|-------------------------|--|--|---------------------------|
| W | D | | | | | |
| Sliding cable entry flanges | | | | | | |
| 600 | 400 | EF6040 | | | | 1/1 |
| 800 | 400 | EF8040 | | | | 1/1 |
| 1000 | 400 | EF1040 | | | | 1/1 |
| 1200 | 400 | 2 x EF6040 | | | | 1/1 |
| 1600 | 400 | 2 x EF8040 | | | | 1/1 |
| Fixed cable entry flanges | | | | | | |
| 600 | 300 | EF6032N | EF6032NM | | | 1/1 |
| 800 | 300 | EF8032N | EF8032NM | | | 1/1 |
| 1000 | 300 | EF1032N | EF1032NM | | | 1/1 |
| 1200 | 300 | 2 x EF6032 | | | | 1/1 |
| 1600 | 300 | 2 x EF8032 | | | | 1/1 |
| 600 | 400 | EF6043 | | | | 1/1 |
| 800 | 400 | EF8042 | | | | 1/1 |
| 1000 | 400 | EF1042 | | | | 1/1 |
| 1200 | 400 | 2 x EF6042 | | | | 1/1 |
| 1600 | 400 | 2 x EF8042 | | | | 1/1 |

* Code only valid for factory-assembled enclosures.



TA1207



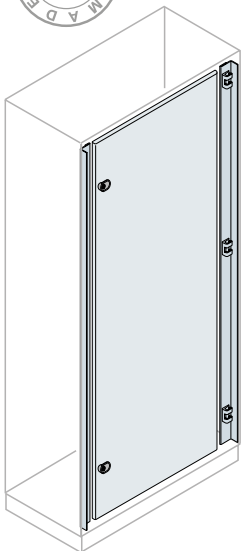
Brackets for wall fixing

Allow the installation on the wall of the more compact versions, or the wall installation of the floor-standing structures.

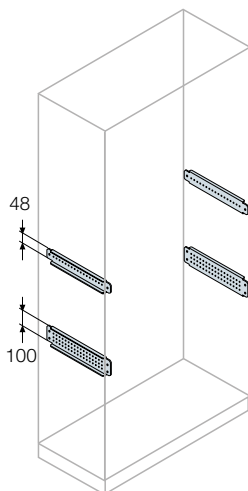
| Descrizione | Code | | | Package/ No. of pieces |
|-----------------------------------------------------------|--------|--|--|---------------------------|
| No. 2 anti-tilting brackets for floor-standing structures | TA1207 | | | 1/2 |
| No. 4 supporting brackets, 250 kg of capacity | TA1208 | | | 1/4 |

AM2 Cabinets

Ordering codes



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Structure

Inner doors

Internal door made of 1,5mm thick steel sheet, complete with reinforcement tube, frame, hinges and No. 2 boxes with interchangeable key with double tongue inserts (see page 4/38). Only for single door versions.

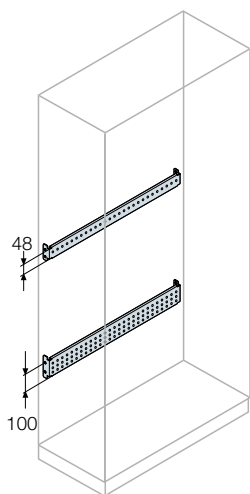
| Dimensions (mm) | | Code | Custom Made Service* | | | Package/ No. of pieces |
|----------------------|------|---------|-------------------------|--|--|---------------------------|
| H | W | | | | | |
| Internal counterdoor | | | | | | |
| 1000 | 600 | TF1060K | TF1060KMT | | | 1/1 |
| | 800 | TF1080K | TF1080KMT | | | 1/1 |
| | 1000 | TF1010K | TF1010KMT | | | 1/1 |
| 1200 | 600 | TF1260K | TF1260KMT | | | 1/1 |
| | 800 | TF1280K | TF1280KMT | | | 1/1 |
| | 1000 | TF1210K | TF1210KMT | | | 1/1 |

* Code only valid for factory-assembled enclosures.

Side crosspieces

Multi-purpose crosspieces made of 2,00mm thick galvanized sheet H=48/100mm drilled with round hole and square hole with 25mm pitch. They are mounted on the side of the enclosure according to the depth.

| Description | Dimensions (mm) D | Code | | | Package/ No. of pieces |
|------------------------------------------------|----------------------|--------|--|--|---------------------------|
| Side crosspieces H=48mm | | | | | |
| No. 2 side crosspieces for fixing accessories | 300 | TS1003 | | | 1/2 |
| No. 2 side crosspieces for fixing accessories | 400 | TS1004 | | | 1/2 |
| Side crosspieces H=100mm | | | | | |
| No. 2 crosspieces for fixing front accessories | 300 | TS2003 | | | 1/2 |
| No. 2 crosspieces for fixing front accessories | 400 | TS2004 | | | 1/2 |

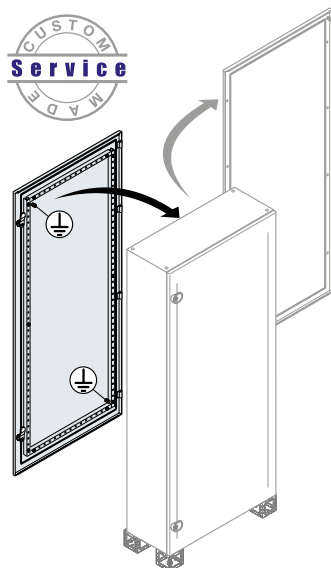


Structure

Back crosspieces

Multi-purpose crosspieces made of 2,00mm thick galvanized sheet.

| Description | Dimensions (mm) | | Code | | Package/ No. of pieces |
|------------------------------------------------|-----------------|-----|--------|--|---------------------------|
| | W | H | | | |
| Back crosspieces H=48mm | | | | | |
| No. 2 crosspieces for fixing front accessories | 600 | 48 | EB0600 | | 1/2 |
| No. 2 crosspieces for fixing front accessories | 800 | 48 | EB0800 | | 1/2 |
| No. 2 crosspieces for fixing front accessories | 1000 | 48 | EB1000 | | 1/2 |
| No. 2 crosspieces for fixing front accessories | 1200 | 48 | EB1200 | | 1/2 |
| Back crosspieces H=100mm | | | | | |
| No. 2 crosspieces for fixing front accessories | 600 | 100 | EB0660 | | 1/2 |
| No. 2 crosspieces for fixing front accessories | 800 | 100 | EB0880 | | 1/2 |
| No. 2 crosspieces for fixing front accessories | 1000 | 100 | EB1010 | | 1/2 |
| No. 2 crosspieces for fixing front accessories | 1200 | 100 | EB1020 | | 1/2 |



Replacement of rear panel with door

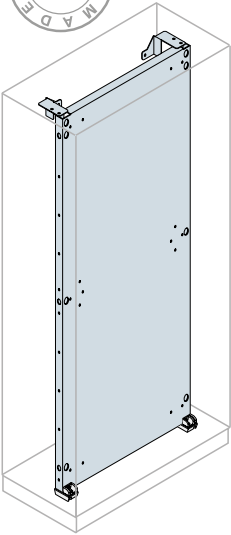
The supply foresees replacement of the rear panel with a blind door mounted directly in the factory (or double doors where this is foreseen).

| Description | Dimensions (mm) | | Custom Made Service* | | Package/ No. of pieces |
|------------------------------------------|-----------------|---------|-------------------------|--|---------------------------|
| | H | W | | | |
| Replacement rear panel/blind door | 1000 | 600 | TC1006KMT | | 1/1 |
| Replacement rear panel/blind door | | 800 | TC1008KMT | | 1/1 |
| Replacement rear panel/blind door | | 1000 | TC1010KMT | | 1/1 |
| Replacement rear panel/double blind door | | 400+400 | TC1008DKMT | | 1/1 |
| Replacement rear panel/double blind door | | 500+500 | TC1010DKMT | | 1/1 |
| Replacement rear panel/double blind door | | 600+600 | TC1012DKMT | | 1/1 |
| Replacement rear panel/double blind door | | 800+800 | TC1016DKMT | | |
| Replacement rear panel/blind door | 1200 | 600 | TC1206KMT | | 1/1 |
| Replacement rear panel/blind door | | 800 | TC1208KMT | | 1/1 |
| Replacement rear panel/blind door | | 1000 | TC1210KMT | | 1/1 |
| Replacement rear panel/double blind door | | 400+400 | TC1208DKMT | | 1/1 |
| Replacement rear panel/double blind door | | 500+500 | TC1210DKMT | | 1/1 |
| Replacement rear panel/double blind door | | 600+600 | TC1212DKMT | | 1/1 |

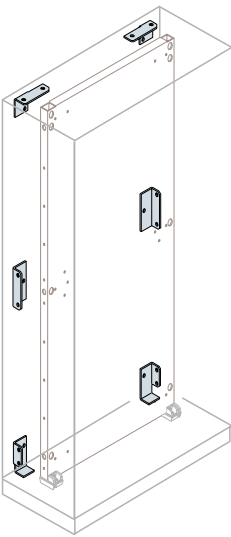
* Code only valid for factory-assembled enclosures.

AM2 Cabinets

Ordering codes



4



Mounting plates

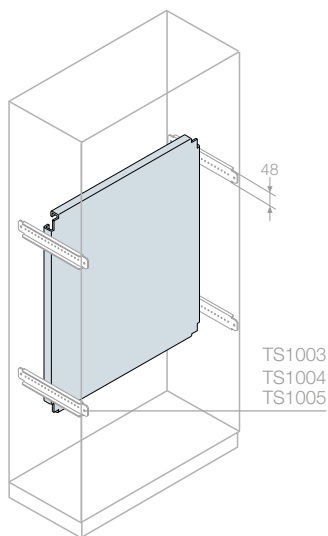
Mounting plate

Plates in 2,5mm galvanized steel which can be inserted at the front and/ or at the back.
Complete with supports for sliding and fixing.

| Dimensions (mm) | | Code | | | Package/ No. of pieces |
|-----------------|------|--------|--|--|---------------------------|
| H | W | | | | |
| Mounting plate | | | | | |
| 1000 | 600 | EA1060 | | | 1/1 |
| | 800 | EA1080 | | | 1/1 |
| | 1000 | EA1010 | | | 1/1 |
| | 1200 | EA1012 | | | 1/1 |
| | 1600 | EA1016 | | | 1/1 |
| 1200 | 600 | EA1260 | | | 1/1 |
| | 800 | EA1280 | | | 1/1 |
| | 1000 | EA1210 | | | 1/1 |
| | 1200 | EA1213 | | | 1/1 |

Kit for recessing mounting plate

| Description | Code | | | Package/ No. of pieces |
|------------------------------|--------|--|--|---------------------------|
| Kit recessing mounting plate | EA5100 | | | 1/1 |

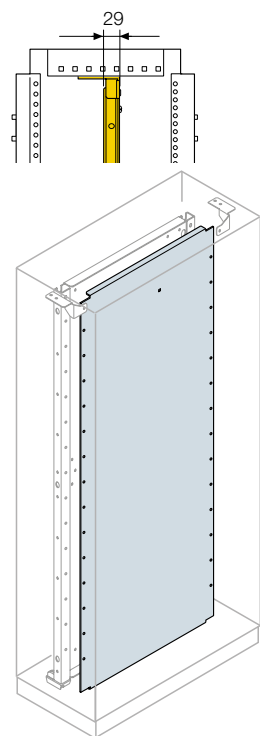


Mounting plates

Partial height Mounting plate

Plate made of 2,5mm galvanized steel can be inserted on the front and/or rear according to the width of the cabinet. It is fixed to the structure by means of the crosspieces H=48mm (TS....).

| Description | Dimensions (mm) | | Code | | | Package/ No. of pieces |
|-------------------------------|-----------------|-----|--------|--|--|---------------------------|
| | H | W | | | | |
| Partial height mounting plate | 200 | 600 | EA2062 | | | 1/1 |
| Partial height mounting plate | 300 | | EA3061 | | | 1/1 |
| Partial height mounting plate | 400 | | EA4061 | | | 1/1 |
| Partial height mounting plate | 500 | | EA5061 | | | 1/1 |
| Partial height mounting plate | 600 | | EA6061 | | | 1/1 |
| Partial height mounting plate | 800 | | EA8061 | | | 1/1 |
| Partial height mounting plate | 1000 | | EA1061 | | | 1/1 |
| Partial height mounting plate | 200 | 800 | EA2081 | | | 1/1 |
| Partial height mounting plate | 300 | | EA3081 | | | 1/1 |
| Partial height mounting plate | 400 | | EA4081 | | | 1/1 |
| Partial height mounting plate | 500 | | EA5081 | | | 1/1 |
| Partial height mounting plate | 600 | | EA6081 | | | 1/1 |
| Partial height mounting plate | 800 | | EA8081 | | | 1/1 |
| Partial height mounting plate | 1000 | | EA1081 | | | 1/1 |



Opposed mounting plate

Mounting plate with extremely reduced overall dimensions in depth, able to mount components on both sides (front and rear). Made of 2,5mm galvanized steel, they can be inserted on the front and/or rear. Complete with supports for sliding and fixing.

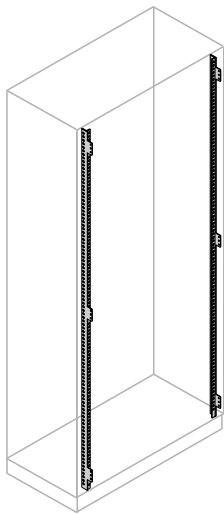
| Description | Dimensions (mm) | | Code | | | Package/ No. of pieces |
|------------------------|-----------------|------|--------|--|--|---------------------------|
| | H | W | | | | |
| Opposed mounting plate | 1000 | 600 | EA5060 | | | 1/1 |
| Opposed mounting plate | | 800 | EA5082 | | | 1/1 |
| Opposed mounting plate | | 1000 | EA5010 | | | 1/1 |
| Opposed mounting plate | 1200 | 600 | EA5260 | | | 1/1 |
| Opposed mounting plate | | 800 | EA5280 | | | 1/1 |
| Opposed mounting plate | | 1000 | EA5210 | | | 1/1 |

It is necessary also order a standard mounting plate.

AM2 Cabinets

Ordering codes

4



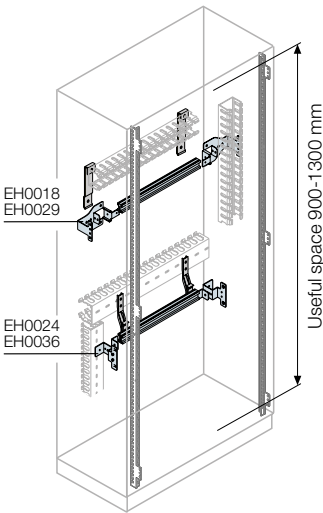
Structures for modular apparatus

Uprights for DIN rails

The fixed uprights are made of 2,00mm thick galvanized steel, and are fixed onto the front of the structure. Structures 600 and 800mm wide can be equipped.

| Description | Dimensions (mm) | | Code | | Package/ No. of pieces |
|-------------------------------------|-----------------|--|--------|--|---------------------------|
| | H | | | | |
| No.2 uprights for modular apparatus | 1000 | | MD1000 | | 1/2 |
| No.2 uprights for modular apparatus | 1200 | | MD1200 | | 1/2 |

With the uprights for DIN rail it is not possible to mount the crosspieces depthwise (TS.... on page 4/17).



DIN rail Kit 18/29 DIN modules

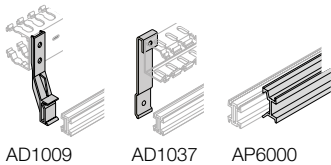
Kit consisting of double aluminium section (DIN 35), complete with shaped brackets for fixing the wiring ducts (60x80mm max). The DIN rails are fixed directly onto the uprights MD.... and are able to hold 18 and 29 modules for 600 and 800mm width respectively guaranteeing front wiring access. Adjustable in depth it allows installation of moulded-case circuit-breakers up to XT3. The useful dimension of the enclosure is still 100mm less in relation to the total height of the enclosure.

| Description | Dimensions (mm) | | Code | | Package/ No. of pieces |
|-------------------------------------------------------------------------|-----------------|--|--------|--|---------------------------|
| | W | | | | |
| DIN rail kit complete with supports for fixing front duct (max 60x80mm) | | | | | |
| DIN rail and fixing supports (18 DIN mod.) | 600 | | EH0018 | | 1/1 |
| DIN rail and fixing supports (29 DIN mod.) | 800 | | EH0029 | | 1/1 |

DIN rail Kit 24/36 DIN modules

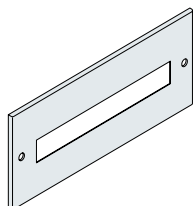
These keep the characteristics of the previous ones, with the difference of the 24 and 36 module modular capacity and with rear assembly/access of the wiring ducts.

| Description | Dimensions (mm) | Code | | | Package/ No. of pieces |
|-------------------------------------------------------------------------|-----------------|--------|--|--|---------------------------|
| | W | | | | |
| DIN rail kit complete with supports for fixing front duct (max 60x80mm) | | | | | |
| DIN rail and fixing supports (24 DIN mod.) | 600 | EH0024 | | | 1/1 |
| DIN rail and fixing supports (36 DIN mod.) | 800 | EH0036 | | | 1/1 |

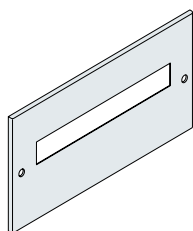


Accessories for DIN rail

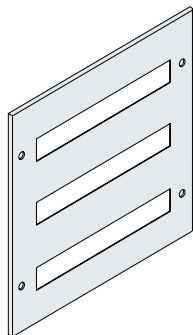
| Description | Code | | Package/ No. of pieces |
|----------------------------------------------------|--------|--|---------------------------|
| Supports for horizontal wiring ducts | | | |
| No. 4 plastic supports for horizontal wiring ducts | AD1009 | | 1/4 |
| No. 4 metal supports for horizontal wiring ducts | AD1037 | | 1/4 |
| Depth adapter | | | |
| No.1 depth adapter W=600mm | AP6000 | | 1/4 |



EH1518K-EH2018K-EH1529K
EH2029K-EH1524K-EH2024K
EH1536K-EH2036K



EH3018K-EH3029K



EH6018K-EH6029K-EH6025K
EH6036K

Structures for modular apparatus

Panels for modular apparatus

Panel with modular cut-out in sheet 1,2mm painted RAL7035 colour with quick fixing, suitable for hinges EH1889 (accessory). The useful dimension of the enclosure is always 100mm less than the total height of the enclosure.

| Description | Dimensions (mm) | | Code | | | Package/ No. of pieces |
|-------------------------------------------|-----------------|-----|---------|--|--|---------------------------|
| | H | W | | | | |
| Panel 18 DIN mod. | 150 | 600 | EH1518K | | | 1/1 |
| | 200 | 600 | EH2018K | | | 1/1 |
| Panel 18 DIN mod. off-centre | 300 | 600 | EH3018K | | | 1/1 |
| Panel 54 DIN mod. (3 rows x 18 DIN mod.) | 600 | 600 | EH6018K | | | 1/1 |
| Panel 29 DIN mod. | 150 | 800 | EH1529K | | | 1/1 |
| | 200 | 800 | EH2029K | | | 1/1 |
| Panel 29 DIN mod. off-centre | 300 | 800 | EH3029K | | | 1/1 |
| Panel 87 DIN mod. (3 rows x 29 DIN mod.) | 600 | 800 | EH6029K | | | 1/1 |
| Panel 24 DIN mod. | 150 | 600 | EH1524K | | | 1/1 |
| | 200 | 600 | EH2024K | | | 1/1 |
| Panel 72 DIN mod. (3 rows x 24 DIN mod.) | 600 | 600 | EH6025K | | | 1/1 |
| Panel 36 DIN mod. | 150 | 800 | EH1536K | | | 1/1 |
| | 200 | 800 | EH2036K | | | 1/1 |
| Panel 108 DIN mod. (3 rows x 36 DIN mod.) | 600 | 800 | EH6036K | | | 1/1 |

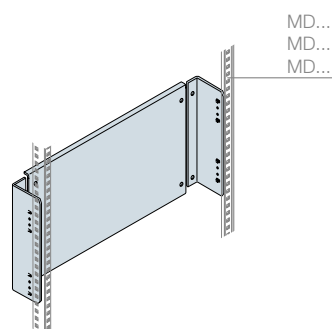
Tmax XT cover plate for DIN rail

| Description | Code | | | Package/ No. of pieces |
|-------------------------------------------------|--------|--|--|---------------------------|
| Cover plate for Tmax XT1 3P mounted on DIN rail | AD3301 | | | 1/1 |
| Cover plate for Tmax XT1 4P mounted on DIN rail | AD3302 | | | 1/1 |
| Cover plate for Tmax XT3 3P mounted on DIN rail | AD3303 | | | 1/1 |
| Cover plate for Tmax XT3 4P mounted on DIN rail | AD3304 | | | 1/1 |

Blind apparatus holder back plates

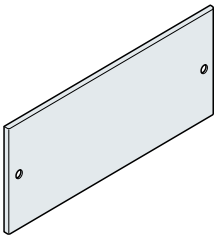
Blind apparatus holder back plate, with 1,5mm thickness. It is fixed directly onto the uprights MD... (see page 4/22). The useful dimension is always 100mm less than the total height of the enclosure.

| Description | Dimensions (mm) | | Codice | | | Package/ No. of pieces |
|-----------------------------------|-----------------|-----|--------|--|--|---------------------------|
| | H | W | | | | |
| Blind apparatus holder back plate | 200 | 600 | EH2065 | | | 1/1 |
| Blind apparatus holder back plate | 300 | | EH3065 | | | 1/1 |
| Blind apparatus holder back plate | 400 | | EH4065 | | | 1/1 |
| Blind apparatus holder back plate | 200 | 800 | EH2085 | | | 1/1 |
| Blind apparatus holder back plate | 300 | | EH3085 | | | 1/1 |
| Blind apparatus holder back plate | 400 | | EH4085 | | | 1/1 |



AM2 Cabinets

Ordering codes



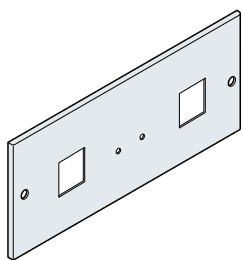
4

Structures for modular apparatus

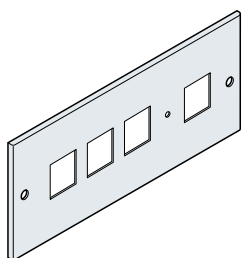
Blind panels for apparatus

Blind panel in 1,2mm (W=600mm) sheet painted RAL7035 colour with quick fixing, suitable for hinges EH1889 (accessory). The useful dimension of the enclosure is always 100mm less than the total height of the enclosure.

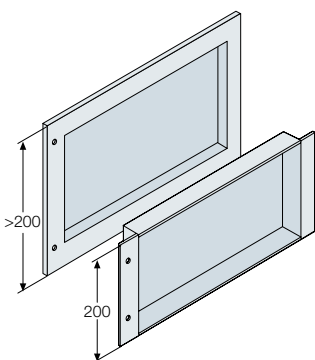
| Description | Dimensions (mm) | | Code | | | Package/ No. of pieces |
|-------------|-----------------|-----|---------|--|--|---------------------------|
| | H | W | | | | |
| Blind panel | 50 | 600 | EH0562K | | | 1/1 |
| Blind panel | 100 | | EH1062K | | | 1/1 |
| Blind panel | 150 | | EH1562K | | | 1/1 |
| Blind panel | 200 | | EH2062K | | | 1/1 |
| Blind panel | 300 | | EH3063K | | | 1/1 |
| Blind panel | 400 | | EH4062K | | | 1/1 |
| Blind panel | 500 | | EH5062K | | | 1/1 |
| Blind panel | 600 | | EH6062K | | | 1/1 |
| Blind panel | 50 | 800 | EH0582K | | | 1/1 |
| Blind panel | 100 | | EH1082K | | | 1/1 |
| Blind panel | 150 | | EH1582K | | | 1/1 |
| Blind panel | 200 | | EH2082K | | | 1/1 |
| Blind panel | 300 | | EH3082K | | | 1/1 |
| Blind panel | 400 | | EH4082K | | | 1/1 |
| Blind panel | 500 | | EH5082K | | | 1/1 |
| Blind panel | 600 | | EH6082K | | | 1/1 |



EH2272K-EH2297K-EH3272K
EH3296K



EH2472K-EH3472K-EH3496K



Structures for modular apparatus

Panel for square measuring instruments

Panel with cut-outs for measuring instruments made of 1,2mm sheet painted RAL7035 colour with quick fixing, suitable for hinges EH1889 (accessory). The useful dimension of the enclosure is always 100mm less than the total height of the enclosure.

| Description | Dimensions (mm) | | Code | | | Package/ No. of pieces |
|---------------------------------|-----------------|-----|---------|--|--|---------------------------|
| | H | W | | | | |
| Panel No. 2 instruments 72x72mm | 200 | | EH2272K | | | 1/1 |
| Panel No. 4 instruments 72x72mm | 200 | 600 | EH2472K | | | 1/1 |
| Panel No. 2 instruments 96x96mm | 200 | | EH2297K | | | 1/1 |
| Panel No. 2 instruments 72x72mm | 200 | | EH3272K | | | 1/1 |
| Panel No. 2 instruments 96x96mm | 200 | 800 | EH3296K | | | 1/1 |
| Panel No. 2 instruments 72x72mm | 200 | | EH3472K | | | 1/1 |
| Panel No. 2 instruments 96x96mm | 200 | | EH3496K | | | 1/1 |

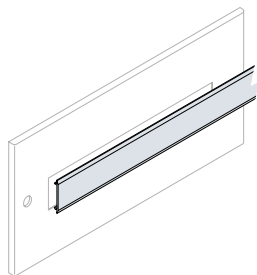
Recessed blind panels

Blind panel in sheet 1,2mm painted RAL7035 colour with quick fixing, suitable for EH1889 hinges (accessory). The useful dimension of the enclosure is always 100mm less than the total height of the enclosure.

| Description | Dimensions (mm) | | Code | | | Package/ No. of pieces |
|----------------------|-----------------|-----|---------|--|--|---------------------------|
| | H | W | | | | |
| Recessed blind panel | 200 | 600 | EH2063K | | | 1/1 |
| Recessed blind panel | | 800 | EH2083K | | | 1/1 |
| Recessed blind panel | 300 | 600 | EH3064K | | | 1/1 |
| Recessed blind panel | | 800 | EH3083K | | | 1/1 |
| Recessed blind panel | 400 | 600 | EH4064K | | | 1/1 |
| Recessed blind panel | | 800 | EH4083K | | | 1/1 |
| Recessed blind panel | 500 | 600 | EH5063K | | | 1/1 |
| Recessed blind panel | | 800 | EH5084K | | | 1/1 |
| Recessed blind panel | 600 | 600 | EH6063K | | | 1/1 |
| Recessed blind panel | | 800 | EH6084K | | | 1/1 |

AM2 Cabinets

Ordering codes



Structures for modular apparatus

Accessoris for modular panel

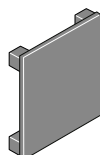
Hole covering strip RAL7035 colour

| Description | Code | | | Package/ No. of pieces |
|-----------------------------------------|--------|--|--|---------------------------|
| No.10 hole covers W=2000mm, grey | AD1086 | | | 1/10 |
| No.3 hole covers 24 DIN modules W=600mm | AD1088 | | | 1/3 |
| No.3 hole covers 36 DIN modules W=800mm | AD1089 | | | 1/3 |

4



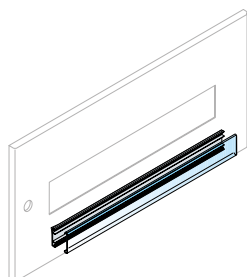
EV1137



EV1135
EV1136

Closing plug for instrument holder panels

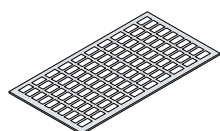
| Description | Code | | | Package/ No. of pieces |
|---------------------------------------------------------|--------|--|--|---------------------------|
| No.10 closing plug for instrument holder panels 72x72mm | EV1135 | | | 1/10 |
| No.5 closing plug for instrument holder panels 96x96mm | EV1136 | | | 1/5 |
| No.50 closing plugs for pushbuttons Ø22mm | EV1137 | | | 1/50 |



AD1101-AD1102
AD1103-AD1104

Adhesive name label holders

| Description | Dimensions (mm) W | Code | | Package/ No. of pieces |
|---------------------------------|-------------------------|--------|--|---------------------------|
| No. 20 label holders 18 DIN mod | 325 | EH2118 | | 1/20 |
| No. 20 label holders 29 DIN mod | 525 | EH2129 | | 1/20 |
| No. 20 label holders 24 DIN mod | 432 | AD1600 | | 1/20 |
| No. 20 label holders 36 DIN mod | 634 | AD1800 | | 1/20 |

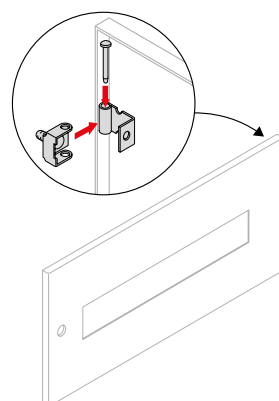


EH2118-EH2129
AD1600-AD1800

Labels can be written using compatible Grafoplast system

| Description | No. of DIN mod. | Code | | Package/ No. of pieces |
|--------------------------------------|--------------------|-----------------------|--|---------------------------|
| No. 288 labels 1 DIN mod. | 1 | AD1101 ⁽²⁾ | | 1/288 |
| No. 192 labels 2 DIN mod. | 2 | AD1102 ⁽²⁾ | | 1/192 |
| No. 96 labels 3 DIN mod. | 3 | AD1103 ⁽²⁾ | | 1/96 |
| No. 96 labels 4 DIN mod. | 4 | AD1104 ⁽²⁾ | | 1/96 |
| N.5 ABB-AM2 adhesive strips W=1000mm | | TL1157 | | 1/5 |

⁽²⁾ Labels can be written using compatible Grafoplast system.




Hinges and quick closures for panels


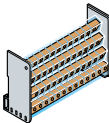
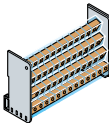
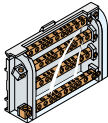

| Description | Code | | | Package/ No. of pieces |
|---------------------------------------|-----------------------|--|--|---------------------------|
| No. 10 hinges for panels | EH1889 ⁽¹⁾ | | | 1/10 |
| No. 5 quick closures for front panels | EH1890 | | | 1/5 |

⁽¹⁾ Use No.2 hinges for panel H=150/200/300/400mm, No.3 hinges for panel H=500/600mm.

Modular dividers

| | | | | | | | | | | | | | | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------|--|------------------------------------------|--|------------------------------------------|--|------------------------------------------|--|------------------------------------------|--|------------------------------------------|--|-----------------------|--|-----------------------|--|
| Single-pole | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | |
| <div>Mark</div> <div><div>CE</div><div>IEC</div><div>RoHS</div><div>UL</div><div>CSA</div><div>EAC</div></div> | | | | | | | | | | | | | | | | | |
| Code | | 1SNL312510R0000* | | 1SNL316010R0000* | | 1SNL317510R0000 | | 1SNL325010R0000 | | 1SNL340010R0000 | | | | | | | |
| Main technical data | | | | | | | | | | | | | | | | | |
| Connecting capacity | | IEC | | UL | | IEC | | UL | | IEC | | UL | | | | | |
| Max current / Copper | | 125A/35mm² | | 115A/2AWG | | 160A/70mm² | | 160A/2/0AWG | | 175A/70mm² | | 175A/2/0AWG | | | | | |
| Max cross section Aluminium | | 100A/35mm² | | 135A/70mm² | | 135A/70mm² | | 135A/70mm² | | 200A/120mm² | | 255A/250Kcmil | | | | | |
| Rated voltage | | 1000VAC/ 1500VDC | | 1000V | | 1000VAC/ 1500VDC | | 1000V | | 1000VAC/ 1500VDC | | 1000V | | | | | |
| Rated impulse voltage | | | | | | | | | | | | | | | | | |
| Short-time withstand current (I _{cw} 1s) | | 4000A | | 11000A | | 11000A | | 11000A | | 21000A | | 21000A | | | | | |
| Short Circuit Current Rating (SCCR) | | 100kA | | 100kA | | 100kA | | 100kA | | 100kA | | 100kA | | | | | |
| Rated peak withstand current (I _{pk}) | | 30kA | | 30kA | | 30kA | | 30kA | | 51kA | | 51kA | | | | | |
| Protection | | IP20 | | NEMA1 | | IP10 | | NEMA1 | | IP10 | | NEMA1 | | | | | |
| Connection type/ Cross section | | Connection type (mm) Cross section (mm²) | | Connection type (mm) Cross section (mm²) | | Connection type (mm) Cross section (mm²) | | Connection type (mm) Cross section (mm²) | | Connection type (mm) Cross section (mm²) | | Connection type (mm) Cross section (mm²) | | | | | |
| | | 1xØ9.8 | | 10...35 8...2AWG | | 1xØ11.8 | | 16...50 8...1/0AWG | | 16...70 6...2/0AWG | | 2xØ11.8 | | 10...50 8...1/0AWG | | | |
| | | 1xØ6.8 | | 2.5...16 14...6AWG | | 6...16 10...6AWG | | 10xØ6.4 | | 2.5...16 14...6AWG | | 2.5...16 14...6AWG | | 2xØ8.7 | | 2.5...25 14...4AWG | |
| | | 6xØ6.4 | | 2.5...16 14...6AWG | | 2.5...16 14...6AWG | | 6xØ6.4 | | 2.5...16 14...6AWG | | 2.5...16 14...6AWG | | 5xØ6.4 | | 2.5...16 14...6AWG | |
| | | | | | | | | | | | | | | 4xØ5.7 | | 2.5...10 14...8AWG | |

* For three poles version, order 3 pcs. of 1SNL.... code. For further data, please see Technical catalogue Nr. 1SNC166001B0202

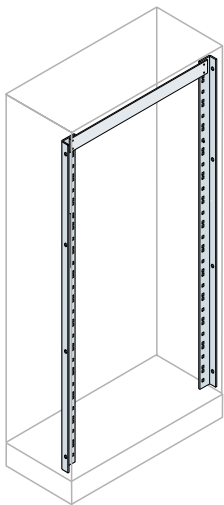
| | | | | | | | | | |
|--------------------------------------|-------|-------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|--|
| Four-poles | |  | |  | |  | |  | |
| Mark | |  | | | | | | | |
| Code | | AD1004 | | AD1028 | | AD1029 | | AD1027 | |
| In | (A) | 125 | | 125 | | 125 | | 160 | |
| I _{cw} | (kA) | 10 | | 4.2 | | 4.2 | | 6.2 | |
| I _{pk} | (kA) | 24 | | 25 | | 25 | | 20 | |
| Version | poles | 4.2 | | 4 | | 4 | | 4 | |
| Installation | | DIN35/plate | | DIN35/plate | | DIN35/plate | | DIN35 | |
| Power supplye Ø cable (mm²) | min. | 6 | | 6 | | 6 | | 10 | |
| | max | 35 | | 25 with cable terminal | | 25 with cable terminal | | 50 | |
| No.outgoing feeder (mm²) Ø cable | | With cable lugs | | Rigid cable | | Rigid cable | | Rigid cable | |
| | | 5L, 4Nx1,5-6mm² | | 7x1,5-10mm² | | 9x1,5-10mm² | | 8x2,25-25mm² | |
| | | 2L, 6Nx4-10mm² | | 2x6-25mm² | | 2x1,5-16mm² | | 1x10-50mm² | |
| | | 1L, 1Nx6-25mm² | | With cable lugs | | 2x6-25mm² | | 3x16-35mm² | |
| | | Without cable lugs | | 7x1,5-10mm² | | With cable lugs | | With cable lugs | |
| | | 5L, 4Nx1,5-6mm² | | 2x6-16mm² | | 2x1,5-6mm² | | 8x2,5-16mm² | |
| | | 2L, 6Nx4-10mm² | | Without cable lugs | | 9x1,5-10mm² | | 3x6-25mm² | |
| | | 1L, 1Nx6-35mm² | | 7x2,5-16mm² | | 2x6-16mm² | | 1x10-35mm² | |
| | | | | 2x6-35mm² | | Without cable lugs | | Without cable lugs | |
| | | | | | | 11x2,5-16mm² | | 8x6-16mm² | |
| | | | | 2x6-35mm2 | | 3x6-25mm² | | | |
| | | | | | | 1x10-35mm² | | | |
| Dimensions HxWxD | (mm) | 74.5x98x45 | | 93x89x48 | | 96x126x48 | | 90x160.5x50 | |
| No. DIN modules | | 5,5 | | 5 | | 7 | | 9 | |
| Rated service voltage U _e | (V) | 1000 Vac 1500 Vdc | | 440 | | 440 | | 440 | |
| Degree of protection | IP | 20 | | 20 | | 20 | | 20 | |

> Quick selection table page 4/6 > In-depth technical information page 7/1 > Overall dimensions page 8/1

AM2 Cabinets

Ordering codes

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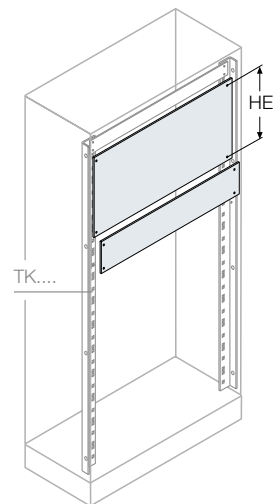


19" rack frames

Fixed 19" rack frames

The fixed uprights are made of 2,00mm galvanized steel and are fixed onto the front of the structure W=600mm.

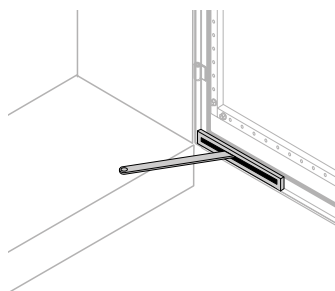
| Description | Dimensions (mm) | Code | | | Package/ No. of pieces |
|----------------------------------|--------------------|--------|--|--|---------------------------|
| | H | | | | |
| Pair of uprights fixed rack 20HE | 1000 | TK1000 | | | 1/2 |
| Pair of uprights fixed rack 24HE | 1200 | TK1200 | | | 1/2 |



Blind panels made of aluminium for rack frame 19"

Blind compensation panels made of opaque colour natural anodized aluminium with 3,00mm thickness, with 465mm centre distances between the holes.

| Description | Dimensions (mm) | Code | | | Package/ No. of pieces |
|-----------------------------------------|--------------------|--------|--|--|---------------------------|
| | H | | | | |
| Aluminium panel for 19" rack frame 1HE | 44,45 | EG1991 | | | 1/1 |
| Aluminium panel for 19" rack frame 2HE | 89 | EG1902 | | | 1/1 |
| Aluminium panel for 19" rack frame 3HE | 133 | EG1903 | | | 1/1 |
| Aluminium panel for 19" rack frame 4HE | 177,5 | EG1904 | | | 1/1 |
| Aluminium panel for 19" rack frame 5HE | 222 | EG1905 | | | 1/1 |
| Aluminium panel for 19" rack frame 6HE | 266,5 | EG1906 | | | 1/1 |
| Aluminium panel for 19" rack frame 7HE | 311 | EG1907 | | | 1/1 |
| Aluminium panel for 19" rack frame 8HE | 355,5 | EG1908 | | | 1/1 |
| Aluminium panel for 19" rack frame 9HE | 400 | EG1909 | | | 1/1 |
| Aluminium panel for 19" rack frame 10HE | 444,5 | EG1910 | | | 1/1 |
| Aluminium panel for 19" rack frame 11HE | 488 | EG1911 | | | 1/1 |
| Aluminium panel for 19" rack frame 12HE | 533 | EG1912 | | | 1/1 |
| Aluminium panel for 19" rack frame 13HE | 577,5 | EG1913 | | | 1/1 |
| Aluminium panel for 19" rack frame 14HE | 622 | EG1914 | | | 1/1 |
| Aluminium panel for 19" rack frame 15HE | 666 | EG1915 | | | 1/1 |
| Aluminium panel for 19" rack frame 16HE | 711 | EG1916 | | | 1/1 |
| Aluminium panel for 19" rack frame 17HE | 755,5 | EG1917 | | | 1/1 |
| Aluminium panel for 19" rack frame 18HE | 800 | EG1918 | | | 1/1 |
| Aluminium panel for 19" rack frame 19HE | 844,5 | EG1999 | | | 1/1 |
| Aluminium panel for 19" rack frame 20HE | 889 | EG1920 | | | 1/1 |



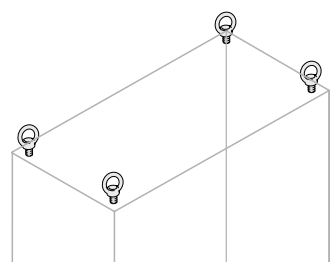
Accessories

Anti-closing device for door

Device which can only be mounted in the versions with blind door; in the case of double door versions, two devices are needed. Keeps the door in the open position.

| Description | Code | Package/ No. of pieces |
|------------------------------|--------|---------------------------|
| Anti-closing device for door | TA5510 | 1/1 |

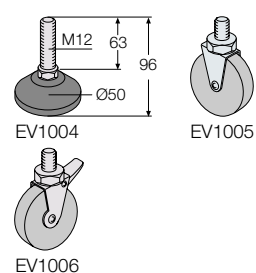
Cannot be mounted where there is a counterdoor, glass door and modular panel.



Lifting eyebolts

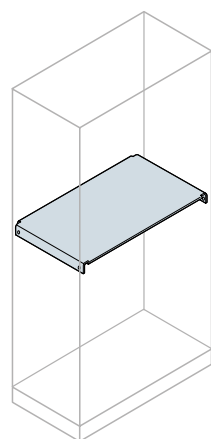
Allow enclosure handling by means of a bridge crane. They are fixed directly on the enclosure roof. Made of steel and coated with white galvanization treatment.

| Description | Code | Package/ No. of pieces |
|-------------------------------------------|--------|---------------------------|
| No. 2 eyebolts M12 for structures D=300mm | TA9600 | 1/2 |
| No. 4 eyebolts M12 for structures D=300mm | TA9601 | 1/4 |



Feet and wheels

| Description | Code | Package/ No. of pieces |
|---------------------------------------------------------------|--------|---------------------------|
| No. 4 anti-vibration levelling feet M12, 500 kg capacity each | EV1004 | 1/4 |
| No. 4 free wheels Ø 80mm, 70 kg capacity each | EV1005 | 1/4 |
| No. 4 braked wheels Ø 80mm, 70 kg capacity each | EV1006 | 1/4 |

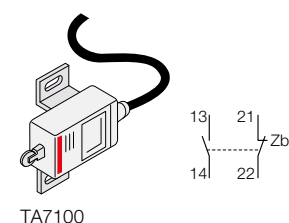


Horizontal division panels

Panel made of 1,5mm thick galvanized steel sheet.

| Description | Dimensions (mm) | | Code | Package/ No. of pieces |
|------------------|-----------------|-----|--------|---------------------------|
| | L | D | | |
| Horizontal shelf | 600 | 300 | TE6031 | 1/1 |
| | | 400 | TE6041 | 1/1 |
| | | 500 | TE6051 | 1/1 |
| Horizontal shelf | 800 | 300 | TE8031 | 1/1 |
| | | 400 | TE8041 | 1/1 |
| | | 500 | TE8051 | 1/1 |
| Horizontal shelf | 1000 | 300 | TE1031 | 1/1 |
| | | 400 | TE1041 | 1/1 |
| | | 500 | TE1051 | 1/1 |

Do not be mounted with double door W=800/1000mm.



Position switch

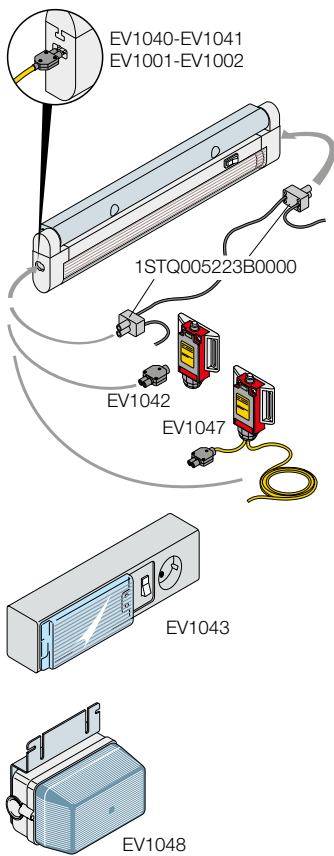
Conforming to the EN 50047 Standard, IP65 degree of protection, UL approved, can be assembled in all the positions directly on the enclosure structure by means of the accessory supplied. Technical data: $U_i=500V$
Dimensions: 84x30x30mm. Aux. contact $I_n=3A$ at 230V \approx or 1.8A at 400V \approx (in AC-15 EN 60947-5-1).

| Description | Code | Package/ No. of pieces |
|----------------------|--------|---------------------------|
| Door position device | TA7100 | 1/1 |

AM2 Cabinets

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Accessories

Led electronic lamp/fluorescent lamps

The electronic led lamps 3.6 W and 6.5 W and fluorescent lamps 8 W and 13 W are complete with mounting brackets and can be integrated with devices for voltage indicator.

The lamps have the following characteristics:

- Rotatable 180 degrees on the axis of the aluminum bracket
- Possibility of being mounted in series up to 5 elements (Fig. 1), the chain of lamps can be controlled by a single micro switch simplifying the installation and reducing the number of cables for connecting of the elements.

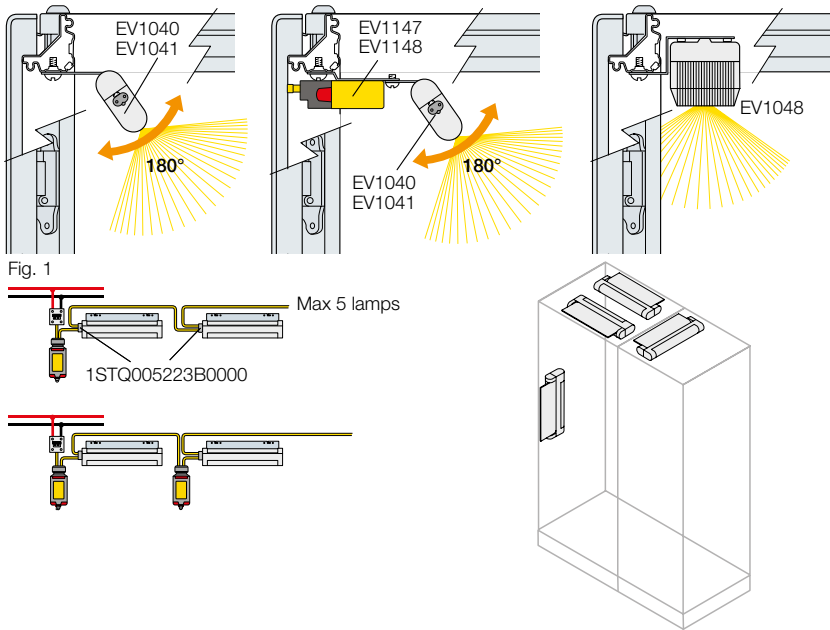
Moreover, the conformation of the electronic led lamps provides a very wide light emission and an increase of 70% compared to traditional lamps. So a lamp 8W is comparable with a 14W, and 13W with a version from 18/21W.

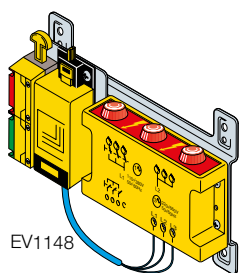
| Description | Code | | Package/ No. of pieces |
|----------------------------------------------------------------------------|--------|--|---------------------------|
| Led electronic lamp | | | |
| Led electronic lamp 3,6W-24V AC/DC L=342mm | EV1001 | | 1/1 |
| Led electronic lamp 6,5W-24V AC/DC L=574mm | EV1002 | | 1/1 |
| Fluorescent lamps | | | |
| Fluorescent lamp 8W-220/240V L=342mm | EV1040 | | 1/1 |
| Fluorescent lamp 13W-220/240V L=574mm | EV1041 | | 1/1 |
| Fluorescent lamp + socket 11W-230V L=355mm, complete with magnetic support | EV1043 | | 1/1 |
| Lamp holder | | | |
| Lamp holder E27 220V max 60W (without lamp) | EV1048 | | 1/1 |

Accessories for lamps

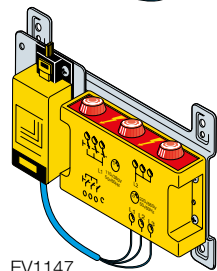
| Description | Code | | Package/ No. of pieces |
|---------------------------------------------------------------------------------|-----------------|--|---------------------------|
| System for positioning limit switch + connector (to be cabled) No.2 NC contacts | EV1042 | | 1/1 |
| No.5 universal bipolar power connectors | 1STQ005223B0000 | | 1/5 |
| Two-pole cable L=10 metres | EV1045 | | 1/1 |
| Limit switch and cabled two-pole connector | EV1047* | | 1/1 |

* There are two cables L=1900mm and L=380mm in the pack.

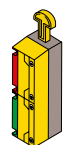




EV1148



EV1147



EV1143

Accessories

Voltage detector device

Allows the passive safety level to be increased inside the electric enclosure, flashing when the door is opened. The basic version consists of a three-phase flashing light, three-pole limit switch and fixing bracket.

Compared to the basic version, the one with an auxiliary circuit is completed with a mechanical interlock which activates the electric contacts to control the auxiliary circuits. The interlock is always fitted with a NC contact code EV1144 (NO installed with door closed) which allows supply of a current launching coil.

A NC contact EV1144 can be added (NO installed with door closed) to allow opening of an undervoltage coil. It is also possible to supply circuits relative to internal lighting and/or to turn off fans/air conditioners using other contacts (2 NC EV1144, NO installed with door closed). Order the fixing screws W=46mm code EV1146 separately for any additional contact. NO contact EV1145 (NC installed with door closed) is also available.

Possibility of exclusion during the testing stage with relative automatic recover when the door has been closed.

In compliance with EN60947- 5-1 Standards, UL approved, operating temperature from -25 °C to +65 °C.

Flashing: terminal capacity max. 3mm², Ue/Ie auxiliary contact capacity:

110V/6A, 230V/3A, 400V/2A, 600V/1.2A.

Rated thermal current Ith: 10 A

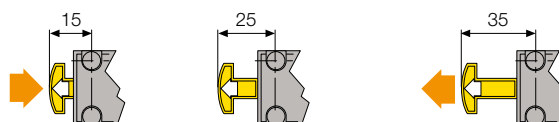
Max. terminal capacity: 2x1.5mm² / 1x3mm²

Flashing signalling device:

- Single phase 110-400V DC/AC 50/60Hz power supply voltage

- Three-phase AC 220-690V 50/60Hz

| Description | Ue (V) | Ui (V) | | Code | | Package/ No. of pieces |
|----------------------------------------------------|-----------|-----------|--|--------|--|---------------------------|
| Voltage detector device | 380/600 | 690 | | EV1147 | | 1/1 |
| Voltage detector device + interlock + 1 NC contact | 380/600 | 690 | | EV1148 | | 1/1 |
| Interlock + 1 NC contact | | | | EV1143 | | 1/1 |
| 1 NC contact | | | | EV1144 | | 1/1 |
| 1 NO contact | | | | EV1145 | | 1/1 |
| Screw L=46mm x 2 contacts | | | | EV1146 | | 1/1 |

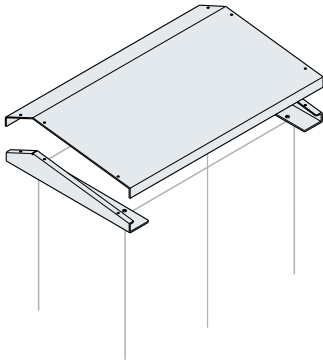


| | Code | Closed door | Open door | Open door By pass |
|----------------------|--------|-------------|-----------|-------------------|
| Position of contacts | EV1144 | : |] | : |
| | EV1145 | [| : | [|

AM2 Cabinets

Ordering codes

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Accessories

Spray protection roofs

To improve protection against entry of liquids and rain. Made of 1,5mm thick sheet steel, painted RAL 7035 colour orange peel.

| Description | Dimensions (mm) | | Code | | | Package/ No. of pieces |
|-----------------------|-----------------|-----|---------|--|--|---------------------------|
| | L | D | | | | |
| Spray protection roof | 600 | 300 | TP6030K | | | 1/1 |
| Spray protection roof | 600 | 400 | TP6040K | | | 1/1 |
| Spray protection roof | 800 | 300 | TP8030K | | | 1/1 |
| Spray protection roof | 800 | 400 | TP8040K | | | 1/1 |
| Spray protection roof | 1000 | 300 | TP1030K | | | 1/1 |
| Spray protection roof | 1000 | 400 | TP1040K | | | 1/1 |
| Spray protection roof | 1200 | 300 | TP1230K | | | 1/1 |
| Spray protection roof | 1200 | 400 | TP1240K | | | 1/1 |

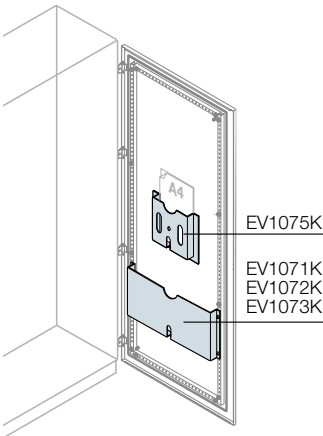
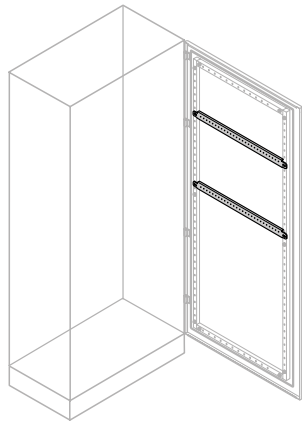


Diagram holder pockets RAL 7035

Fixed inside the door by means of adhesive parts in the case of the plastic version EV1075K, or directly by means of screws to the sections of the door for the metal versions. Both versions are RAL 7035 colour.

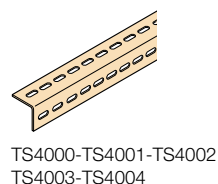
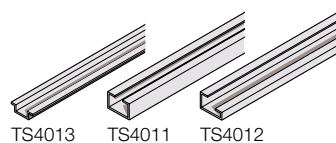
| Description | Code | | | Package/ No. of pieces |
|-----------------------------------------------|---------|--|--|---------------------------|
| Metal diagram holder pocket for door l=600mm | EV1071K | | | 1/1 |
| Metal diagram holder pocket for door l=800mm | EV1072K | | | 1/1 |
| Metal diagram holder pocket for door l=1000mm | EV1073K | | | 1/1 |
| Plastic diagram holder pocket for A4 | EV1075K | | | 1/1 |



Horizontal reinforcement sections for door

Crosspieces made of galvanized sheet with drilling with 25mm pitch, these allow fixing of accessories (e.g. wiring ducts) inside the blind doors. They are fixed on the door reinforcement tube.

| Description | Dimensions (mm) | | Code | | | Package/ No. of pieces |
|----------------------------------|-----------------|--|--------|--|--|---------------------------|
| | W | | | | | |
| No. 2 horizontal sections h=35mm | 600 | | EB1041 | | | 1/2 |
| No. 2 horizontal sections h=35mm | 800 | | EB1042 | | | 1/2 |
| No. 2 horizontal sections h=35mm | 1000 | | EB1043 | | | 1/2 |

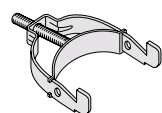


Accessories

Sections for accessories

Universal sections of different types for mounting any component or for cable locking.

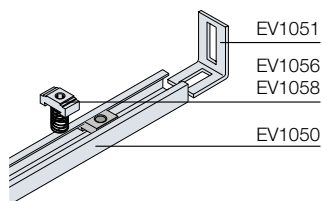
| Description | Dimensions (mm) | | Code | | Package/ No. of pieces |
|-----------------------------------|-----------------|--|--------|--|---------------------------|
| | W | | | | |
| No. 2 EN sections 5002 C30 | 2000 | | TS4011 | | 1/2 |
| No. 2 EN sections G32 | 2000 | | TS4012 | | 1/2 |
| No. 2 DIN EN sections 5022 35x7.5 | 2000 | | TS4013 | | 1/2 |
| No. 2 sections for structures | 600 | | TS4000 | | 1/2 |
| No. 2 sections for structures | 800 | | TS4001 | | 1/2 |
| No. 2 sections for structures | 1000 | | TS4002 | | 1/2 |
| No. 2 sections for structures | 1200 | | TS4003 | | 1/2 |
| No. 2 sections for structures | 1600 | | TS4004 | | 1/2 |



Brackets for anchoring cables

Adjustable cable clamping bracket. Can be mounted on sections with 10mm slot EV1050.

| Description | Code | | | Package/ No. of pieces |
|-------------------------------------------------|--------|--|--|---------------------------|
| No. 10 cable clamping brackets Ø9÷16mm min÷max | EV1090 | | | 1/10 |
| No. 10 cable clamping brackets Ø16÷30mm min÷max | EV1091 | | | 1/10 |
| No. 5 cable clamping brackets Ø30÷48mm min÷max | EV1092 | | | 1/5 |
| No. 5 cable clamping brackets Ø48÷72mm min÷max | EV1093 | | | 1/5 |



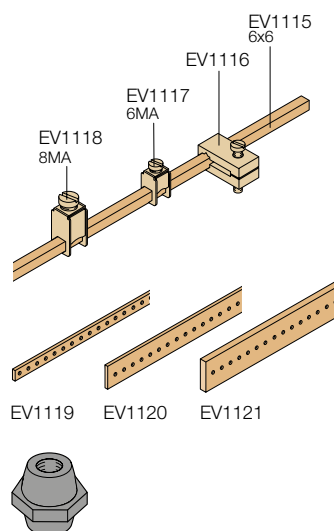
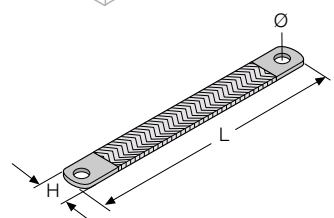
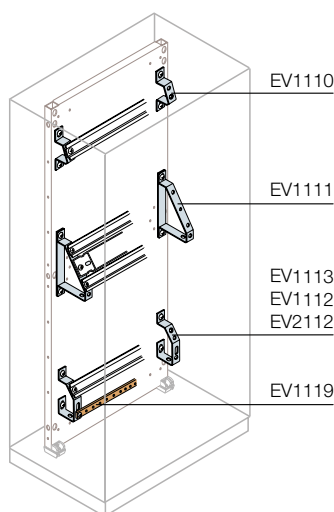
Sliding aluminium rails for general purposes

| Description | Code | | | Package/ No. of pieces |
|------------------------------------------------|--------|--|--|---------------------------|
| No. 10 aluminium sections 30x15x1,8 - L=2000mm | EV1050 | | | 1/10 |
| No. 25 fixing brackets for EV1050 | EV1051 | | | 1/25 |
| No. 100 M6 aluminium nuts for EV1050 | EV1056 | | | 1/100 |
| No. 100 M8 aluminium nuts for EV1050 | EV1058 | | | 1/100 |

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EV1122-EV1123
EV1124-EV1125

Accessories

Angled supports for terminal boxes and earthing busbars

| Description | Code | | | Package/ No. of pieces |
|--------------------------------------------------|--------|--|--|---------------------------|
| No.50 angled supports 1 row of terminals | EV1110 | | | 1/50 |
| No.10 angled supports 1 row of terminals | EV2110 | | | 1/10 |
| No.50 angled supports 1 row of terminals + earth | EV1112 | | | 1/50 |
| No.10 angled supports 1 row of terminals + earth | EV2112 | | | 1/10 |
| No.2 angled supports 1 row of terminals + earth | EV1113 | | | 1/2 |
| No.10 angled supports double row of terminals | EV1111 | | | 1/10 |

Cables for earthing

| Description | Dimensioni (mm) | | Code | | | Package/ No. of pieces |
|---------------------------------|-----------------|-----|--------|--|--|---------------------------|
| | H | L | | | | |
| No.5 earthing cables sect. 16mm | 17 | 200 | AA6840 | | | 1/5 |
| No.5 earthing cables sect. 16mm | 17 | 300 | AA6850 | | | 1/5 |
| No.5 earthing cables sect. 25mm | 22 | 200 | AA6880 | | | 1/5 |
| No.5 earthing cables sect. 25mm | 22 | 300 | AA6890 | | | 1/5 |

Neutral/earthing copper busbars

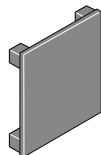
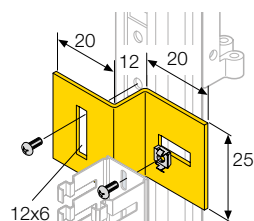
| Description | Code | | | Package/ No. of pieces |
|---------------------------------------------------------------|--------|--|--|---------------------------|
| Neutral/earthing busbar 6x6mm W=2000mm | EV1115 | | | 1/1 |
| No. 50 insulators for neutral/earthing busbar for EV1115 | EV1116 | | | 1/50 |
| No. 100 terminals for cable ø0.5-16mm ² for EV1115 | EV1117 | | | 1/100 |
| No. 100 terminals for cable ø4-35mm ² for EV1115 | EV1118 | | | 1/100 |
| No. 2 drilled and threaded 20x5mm busbars M6 W=2000mm | EV1119 | | | 1/2 |
| No. 2 drilled and threaded 25x5mm busbars M6 W=2000mm | EV1120 | | | 1/2 |
| No. 2 drilled and threaded 50x5mm busbars M6 W=2000mm | EV1121 | | | 1/2 |
| No.50 hexagonal insulators 30x30mm M6 | EV1122 | | | 1/50 |
| No.50 hexagonal insulators 30x30mm M8 | EV1123 | | | 1/50 |
| No.25 hexagonal insulators 36x50mm M6 | EV1124 | | | 1/25 |
| No.25 hexagonal insulators 36x50mm M8 | EV1125 | | | 1/25 |

Screws for apparatus

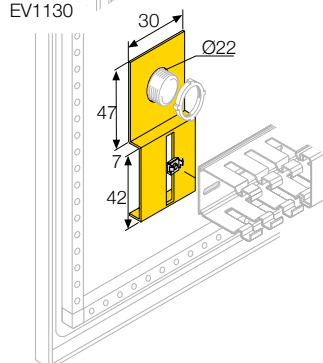
| Description | Code | | | Package/ No. of pieces |
|--------------------------------------------------------|--------|--|--|---------------------------|
| No.1000 perforating screws 4.2x13mm cross slotted head | EV1100 | | | 1/1000 |
| No.1000 perforating screws 4.2x19mm cross slotted head | EV1101 | | | 1/1000 |
| No.50 trilobed screws M6 L=10mm | AD1033 | | | 1/50 |



EV1137

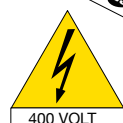
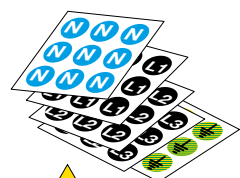
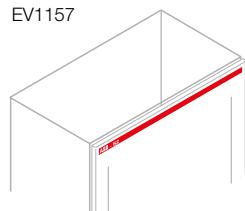
EV1135
EV1136

EV1130



EV1131

EV1157



Accessories

Hole cover cap

| Description | Code | | | Package/ No. of pieces |
|--------------------------------------------------|--------|--|--|---------------------------|
| No. 10 closing caps for instrument panel 72x72mm | EV1135 | | | 1/10 |
| No. 5 closing caps for instrument panel 96x96mm | EV1136 | | | 1/5 |
| No. 50 closing caps for pushbuttons ø 22mm | EV1137 | | | 1/50 |

Wiring duct support brackets

| Description | Code | | | Package/ No. of pieces |
|-----------------------------------------------------------|--------|--|--|---------------------------|
| No. 100 wiring duct support brackets on upright structure | EV1130 | | | 1/100 |
| No. 100 wiring duct support brackets on pushbuttons ø 22 | EV1131 | | | 1/100 |

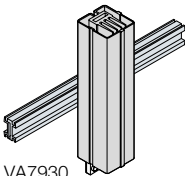
Marking

| Description | Code | | | Package/ No. of pieces |
|-------------------------------------------------------------------------|--------|--|--|---------------------------|
| No.5 adhesive labels ABB-IS2 W=1000mm | EV1157 | | | 1/5 |
| No.490 adhesive labels Ø 12mm N symbol | EV1150 | | | 1/490 |
| No.490 adhesive labels Ø 12mm L1symbol | EV1151 | | | 1/490 |
| No.490 adhesive labels Ø 12mm L2 symbol | EV1152 | | | 1/490 |
| No.490 adhesive labels Ø 12mm L3 symbol | EV1153 | | | 1/490 |
| No.490 adhesive labels Ø 12mm T symbol | EV1154 | | | 1/490 |
| No.10 triangular adhesive labels 125mm with 400V lightning arrow symbol | EV1155 | | | 1/10 |
| No.100 triangular adhesive labels 50mm with lightning arrow symbol | EV1156 | | | 1/100 |

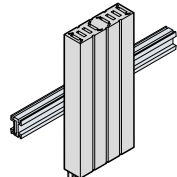
AM2 Cabinets

Ordering codes

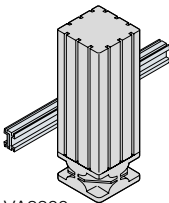
4



VA7930
VA7950
VA7975
VA7910



VA7915



VA8300

Accessories

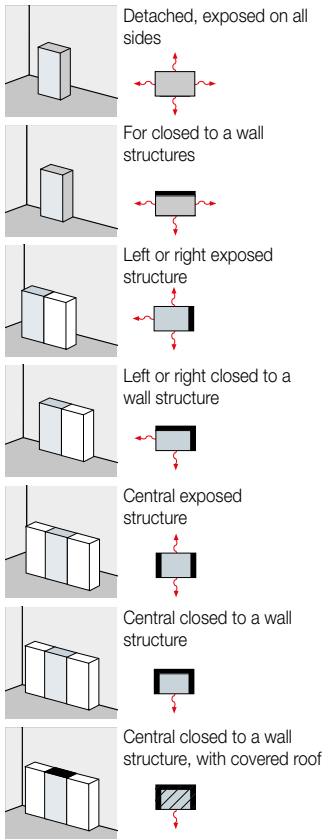
Heater for IP20 electrical switchboards

Their use prevents condensation in the electric cabinets. They consist of a heating element (PTC thermistor) inserted in an aluminium alloy ground plate. The PTC thermistor is a component which modifies its impedance according to the operating temperature. It is intrinsically stable and ensures primary safety features for the heater and service stability. The main qualities of the heaters using PTC are:

- electrical absorption (or dissipated power) which is almost constant in the range of power supply voltage between 100 and 250V;
- electrical absorption bound by inverse law to the trend of the ambient temperature.
- natural or forced ventilator with incorporated ventilator;
- ambient thermostat integrated in the heater (versions with forced ventilation).

Snap-on assembly on 35 mm DIN rail. Requires a thermostat.

| Description | Dimensions (mm) | | | Weight (kg) | Inrush current (A) | Fuse/ MCB (A) | Code | Package/ No. of pieces |
|------------------------------------------------------------|-----------------|----|----|-------------|--------------------|---------------|--------|------------------------|
| | H | W | D | | | | | |
| Anti-condensation heater 30W, 110-240 Vac-dc | 125 | 42 | 42 | 0,30 | 1.0-1.5 | 2 / C6 | VA7930 | 1/1 |
| Anti-condensation heater 50W, 110-240 Vac-dc | 150 | 42 | 42 | 0,40 | 1.0-1.5 | 2 / C6 | VA7950 | 1/1 |
| Anti-condensation heater 75W, 110-240 Vac-dc | 150 | 42 | 42 | 0,40 | 2.0-2.5 | 2 / C6 | VA7975 | 1/1 |
| Anti-condensation heater 100W, 110-240 Vac-dc | 150 | 42 | 51 | 0,45 | 2.0-3.0 | 2 / C6 | VA7910 | 1/1 |
| Anti-condensation heater 150W, 110-240 Vac-dc | 150 | 82 | 51 | 0,55 | 5.0-6.0 | 4 / C10 | VA7915 | 1/1 |
| Anti-condensation heater with fan 300W, 110-240 Vac 50-60H | 125 | 80 | 91 | 0,75 | 8.0-10 | 4 / C10 | VA8300 | 1/1 |



All the heaters with PTC absorb a higher power than the rated one on inrush according to a transitory which lasts a few tenths of a second.

If the heaters are to be supplied by means of an auxiliary transformer, its apparent power must be sized taking 1.5 times the rated power of the heaters with natural aeration and twice those with forced ventilation into consideration.

IEC 890 method for calculating the effective cooling surface (CEI 17-43 method)

The total power dissipation P of an enclosure is linked to the exchange effective dissipating surface S, the ΔT difference between the inner and outer temperature and the k coefficient of heat exchange relative to the material of the enclosure:

$$P = k \cdot \Delta T \cdot S$$

$k = 5,5$ for painted steel

$$\Delta T = T_1 - T_2;$$

T_1 = dew point temperature (on overage 25°C)

T_2 = minimum ambient temperature.

The exchange surface S can be calculated using the following table taken from the CEI 17-43.

| Disposition of the cabinet | Calculating the enclosure surface S (mm ²) | Dimensions (m) |
|-------------------------------------------------------|------------------------------------------------------------------|--------------------------------------|
| Detached, exposed on all sides | $S = 1,8 \times H \times (L+P) + 1,4 \times L \times P$ | L = width H = height P = depth |
| For closed to a wall structures | $S = 1,4 \times L \times (H+P) + 1,8 \times P \times H$ | |
| Left or right exposed structure | $S = 1,4 \times P \times (H+L) + 1,8 \times L \times H$ | |
| Left or right closed to a wall structure | $S = 1,4 \times H \times (P+L) + 1,4 \times L \times P$ | |
| Central exposed structure | $S = 1,8 \times L \times H + 1,4 \times L \times P + P \times H$ | |
| Central closed to a wall structure | $S = 1,4 \times L \times (H+P) + P \times H$ | |
| Central closed to a wall structure, with covered roof | $S = 1,4 \times L \times H + 0,7 \times L \times P + P \times H$ | |

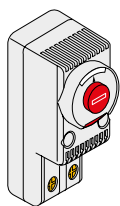
Using a TM2665K enclosure, in "for closed to a wall structures" case we will obtain:

$$T_1 = 25^\circ\text{C}, T_2 = 20^\circ\text{C}, K = 5,5, \Delta T = (25-20) = 5^\circ\text{C}, S = 3,2\text{m}^2$$

The total power dissipation P obtained will be:

$$P = k \cdot \Delta T \cdot S = 88\text{W}$$

The recommended heater is VA7910 (100W)



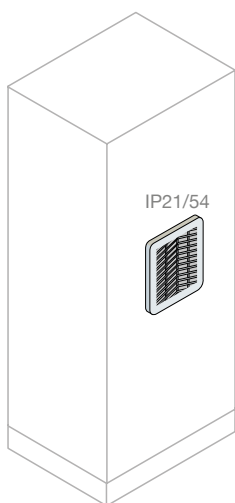
Accessories

IP20 Thermostat

Conforms to EN 60730-1, CE and cURus standards, IP20 degree of protection. Grey RAL 7035 colour; electrical life 100,000 cycles. Dimensions (HxWxD) 68x29x45mm, can be mounted on DIN rail. The version with NO (normally open) contact allows closure of a circuit activating ventilation, air conditioning, or alarms. The version with NC (normally closed) contact allows opening of a circuit, disconnecting any anti-condensation resistances.

| Description | Standard power supply V~/50-60Hz | | Code | | Package/ No. of pieces |
|---------------------------|-------------------------------------|--|---------|--|---------------------------|
| NO ventilation thermostat | 12-60 V d.c.; 110-250V a.c. | | EN0101K | | 1/1 |
| NC heating thermostat | 12-60 V d.c.; 110-250V a.c. | | EN0102K | | 1/1 |

| Code | Standard power supply V~/50-60Hz | Contact capacity Load Ω | Load L | Temperature scale | Type of contact | Weight |
|---------|-------------------------------------|----------------------------|--------|----------------------|-----------------|--------|
| EN0101K | 12-60 V d.c.; 110-250V a.c. | 10A | 2A | -10 +80 °C | NO | 54g |
| EN0102K | 12-60 V d.c.; 110-250V a.c. | 10A | 2A | -10 +80 °C | NC | 54g |



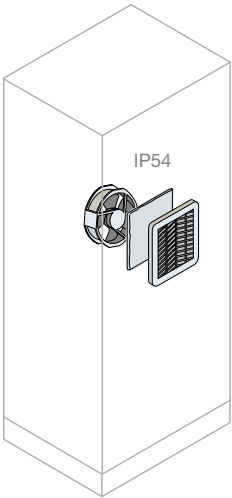
IP21/54 natural ventilation kit

Gratings made of insulating material (self-extinguishing ABS UL94V-0) RAL7035 colour, complete with high dust collection capacity filter cloth (600g/m²), able to reduce maintenance interventions (cleaning by means of washing in water or by beating). Degree of protection IP21 without filter, IP54 with filter according to IEC 60529, Type 1 without filter, Type 12 with filter according to UL approval 508 fitted with pre-assembled gasket seal. CE and cURus approval.

| Description | Air entry surface for ventilation | | Dimensions (mm) | | Code | | | Package/ No. of pieces |
|------------------------------------|--------------------------------------|--------------------------------|--------------------|-----|------|---------|--|---------------------------|
| | Without filter cm ² | With filter cm ² | W | W | | | | |
| Grille+air pas- sage filter kit | 27 | 6 | 105 | 105 | | EN0105K | | 1/1 |
| Grille+air pas- sage filter kit | 53 | 10 | 150 | 150 | | EN0150K | | 1/1 |
| Grille+air pas- sage filter kit | 121 | 22 | 204 | 204 | | EN0204K | | 1/1 |
| Grille+air pas- sage filter kit | 225 | 32 | 250 | 250 | | EN0250K | | 1/1 |
| Grille+air pas- sage filter kit | 317 | 55 | 325 | 325 | | EN0325K | | 1/1 |

AM2 Cabinets









Ordering codes



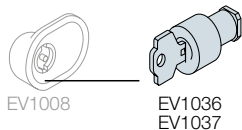
Accessories

IP54 forced ventilation Kit

Grilles made of insulating material (ABS self-extinguishing UL94V-0) RAL7035 colour, complete with filter cloth with high dust accumulation capacity (600g/m²), able to reduce maintenance interventions (cleaning by washing with water or beating). IP54 degree of protection with filter according to UL approval 508 fitted with pre-mounted tightness gasket. Operating temperature -10 °C + 50 °C, for noise values see page 8/50. The fans allow reversible flow of air. CE and cURus (see mark) approval.

| | Consumption | Capacity | Dimensions | | | | | Package/ |
|-----------------------|-------------|----------------|------------|-----|--------------------------------------------------------------------------------------|---------|--|---------------|
| Description | 50/60Hz (W) | 50/60Hz (m³/h) | W | W | | Code | | No. of pieces |
| With IP54 230V ~ fan | | | | | | | | |
| Ventilation filter | 10/8 | 23/30 | 105 | 105 |  | EN1105K | | 1/1 |
| Ventilation filter | 20/19 | 57/61 | 150 | 150 |  | EN1150K | | 1/1 |
| Ventilation filter | 17/15 | 120/135 | 204 | 204 |  | EN1204K | | 1/1 |
| Ventilation filter | 29/29 | 240/270 | 250 | 250 |  | EN1250K | | 1/1 |
| Ventilation filter | 67/87 | 520/580 | 325 | 325 | | EN2325K | | 1/1 |
| With IP 54 1150V~ fan | | | | | | | | |
| Ventilation filter | 9/7 | 23/30 | 105 | 105 |  | EN2105K | | 1/1 |
| Ventilation filter | 20/18 | 57/61 | 150 | 150 |  | EN2150K | | 1/1 |
| Ventilation filter | 17/15 | 120/135 | 200 | 200 |  | EN2204K | | 1/1 |
| Ventilation filter | 30/30 | 240/270 | 250 | 250 |  | EN2250K | | 1/1 |
| Ventilation filter | 50/64 | 520/580 | 325 | 325 | | EN3325K | | 1/1 |

In any forced ventilation kit, the fan wheel is balanced. In the larger sizes (cod. EN2325K and cod. EN3325K) there is the balancing clip. The balanced fan wheel ensures less noise and absorption.



Closing systems

Inserts interchangeable with the double tongue ones supplied as standard, complete with relative key.

| Description | Code | Custom Made Service | Package/ No. of pieces |
|-----------------------------------------------------------------------|--------|---------------------|------------------------|
| Spare parts and accessoried for EV1008 box | | | |
| Box with double tongue insert made in plastic with key for inner door | EV1008 | | 1/1 |
| Single code Yale insert for inner door | EV1036 | | 1/1 |
| Ronis 455 insert for inner door | EV1037 | | 1/1 |
| Double tongue insert with plastic key for box | AA6100 | | 1/1 |

4

Spare parts

Doors for single door version

Front doors for single door application with 120° opening made of 1,5mm thick sheet steel.
Order one code according to the dimensions of the structure in which the replacement is needed.

| Description | Dimensions (mm) | | Code | | Package/ No. of pieces |
|-------------------------------|-----------------|------|---------|--|---------------------------|
| | H | W | | | |
| Doors for single door version | | | | | |
| Blind door | 1000 | 600 | TC1006K | | 1/1 |
| Glazed door | | 600 | TT1006K | | 1/1 |
| Blind door | | 800 | TC1008K | | 1/1 |
| Glazed door | | 800 | TT1008K | | 1/1 |
| Blind door | | 1000 | TC1010K | | 1/1 |
| Blind door | 1200 | 600 | TC1206K | | 1/1 |
| Glazed door | | 600 | TT1206K | | 1/1 |
| Blind door | | 800 | TC1208K | | 1/1 |
| Glazed door | | 800 | TT1208K | | 1/1 |
| Blind door | | 1000 | TC1210K | | 1/1 |
| Glazed door | | 1000 | TT1210K | | 1/1 |

AM2 Cabinets

Ordering codes

Spare parts

Doors for double door version

Front doors for double door application with 120° opening made of steel sheet with 1,5mm thickness.
Symmetrical doors (same width): order one code for the door with handle and one code for the door with overlapping closing according to the dimensions of the structure in which the replacement is needed.
Asymmetrical doors (different width): order the codes for the doors (one door with handle and one with overlapping closing) according to the dimensions of the structure, adjusting the blocks of the doors manually.

Double door enclosure TM.... is provided as standard with symmetrical doors. For asymmetrical doors ask for special offer.

4

| Description | Dimensions (mm) | | Code | | | Package/ No. of pieces |
|-------------------------------------|-----------------|-----|----------|--|--|---------------------------|
| | H | W | | | | |
| Doors for double door version | | | | | | |
| Blind door with handle | 1000 | 400 | TC1008DK | | | 1/1 |
| Blind door with overlapping closing | | 400 | TC1008SK | | | 1/1 |
| Blind door with handle | | 500 | TC1010DK | | | 1/1 |
| Blind door with overlapping closing | | 500 | TC1010SK | | | 1/1 |
| Blind door with handle | | 600 | TC1012DK | | | 1/1 |
| Blind door with overlapping closing | | 600 | TC1012SK | | | 1/1 |
| Blind door with handle | | 800 | TC1016DK | | | 1/1 |
| Blind door with overlapping closing | | 800 | TC1016SK | | | 1/1 |
| Blind door with handle | 1200 | 400 | TC1208DK | | | 1/1 |
| Blind door with overlapping closing | | 400 | TC1208SK | | | 1/1 |
| Blind door with handle | | 500 | TC1210DK | | | 1/1 |
| Blind door with overlapping closing | | 500 | TC1210SK | | | 1/1 |
| Blind door with handle | | 600 | TC1212DK | | | 1/1 |
| Blind door with overlapping closing | | 600 | TC1212SK | | | 1/1 |

Spare parts

| Description | Dimensions (mm) | | Code | | | Package/ No. of pieces |
|-------------------------------------------------|-----------------|------|---------|--|--|---------------------------|
| | H | W | | | | |
| Rear panel | | | | | | |
| Rear panel | 1000 | 600 | TE1060K | | | 1/1 |
| Rear panel | | 800 | TE1080K | | | 1/1 |
| Rear panel | | 1000 | TE1010K | | | 1/1 |
| Rear panel | | 1200 | TE1012K | | | 1/1 |
| Rear panel | | 1600 | TE1016K | | | 1/1 |
| Rear panel | 1200 | 600 | TE1260K | | | 1/1 |
| Rear panel | | 800 | TE1280K | | | 1/1 |
| Rear panel | | 1000 | TE1210K | | | 1/1 |
| Rear panel | | 1200 | TE1212K | | | 1/1 |
| Various spare parts | | | | | | |
| Zamak Zn + Al + Mg alloy key with double tongue | | | AD1058 | | | 1/1 |
| Handle complete with lock | | | EV1030 | | | 1/1 |
| Double tongue insert for EV1030 handle | | | AA6100 | | | 1/1 |
| Double tongue insert for EV1090 box | | | EV1039 | | | 1/1 |

IS2 - IS2 EMC Enclosures

IS2 enclosure

| | |
|----------------------|-----|
| Main characteristics | 5/2 |
|----------------------|-----|

| | |
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| Composition of the series | 5/10 |
|---------------------------|------|

Selection of the structure – pre-assembled cabinets

| | |
|--------------------|------|
| Height 1400/1600mm | 5/12 |
| Height 1800mm | 5/14 |
| Height 2000mm | 5/16 |
| Height 2200mm | 5/18 |

Selection of the structure – kit version cabinets

| | |
|-------------------------------------------------|------|
| Height 1400/1600mm | 5/20 |
| Height 1800mm | 5/22 |
| Height 2000mm | 5/24 |
| Height 2200mm | 5/26 |
| Single doors for making the double door version | 5/28 |

Ordering codes

| | |
|----------------------------------------|-------|
| Pre-assembled structures | 5/32 |
| Kit versions structures | 5/46 |
| Completion of structures | 5/53 |
| Configurations with compartments | 5/75 |
| Structures for modular apparatus | 5/78 |
| 19" rack "L" shaped profiles | 5/83 |
| 19" fixed rack cranked shaped uprights | 5/84 |
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| Equipment for 19" rack frame | 5/86 |
| Distribution and earthing system | 5/90 |
| Lighting and signalling devices | 5/98 |
| Temperature management | 5/100 |
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| | |
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| Ordering pre-assembled structures | 5/116 |
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IS2 EMC enclosure

| | |
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| Quick selection table | 5/139 |

Ordering codes

| | |
|--------------------------|-------|
| Pre-assembled structures | 5/140 |
| Completion of structures | 5/141 |

IS2 Enclosures

Main characteristics

ABB completes its offer of cabinets for automation with the IS2 series, also available in the kit version. The IS2 enclosures are suitable for making electrical automation, control and operation enclosures.



Versions available

The IS2 cabinets are available in the following versions:

- Cabinet with blind door
- Cabinet with glazed door
- Cabinet with 19" rack frame "L" shaped profile, full height fixed and full height or partial swing
- Cabinet with 19" full height or partial fixed rack cranked shaped uprights and full height swing "C" shaped profile
- Cabinet for PC
- Cabinet with console
- Cabinet with compartments
- Cabinet for modular apparatus

The IS2 enclosures are suitable for making electrical automation, control and operation enclosures, with the possibility of constructing batteries of cabinets side by side to control complex industrial plants. They are suitable for floor mounting with the possibility of lateral and rear access and adjustment of the back plate position.



IS2 Enclosures

Main characteristics

Main characteristics and applications for IS2 enclosures.

5



Cabinet with blind or glazed door

The frame of the enclosure consists of galvanised sheet uprights and pickled sheet panelling with a min. thickness of 1,5mm. The parts made of pickled sheet are painted with 60÷70 micron thick polyester epoxy powder paint of standard medium orange peel grey RAL 7035. The painting can be worked (drilled) without chipping. Other colours are also available on request.

Equipotentiality of the structure is obtained automatically during the assembly stage. Placing two or more structures side by side is a simple operation, using the minimum possible number of accessories. The structure can be fitted with accessories as follows:

- Vertical blind separator between columns, which ensures the degree of protection
- Separator for 24-pole connectors (staggered assembly between the rows) and relative accessories (closure plates, reduction for the 16-10-6 pole versions).
- Lateral incoming cable structure W=300mm D=500-600-800mm- 1000mm – can be fitted with the separators described above.

The dimensions referred to conform to DIN 41488, and should be considered as external.



Uprights

The upright section is of the closed type and provides excellent resistance to mechanical stresses whilst still keeping the max. dimensions of 47x47mm.

They are drilled with 25mm pitch (in conformity with the DIN 43660 Standard) and allow the accessories to be fixed using M6 self-threading screws and cage nuts. The multi-purpose hinges for fixing the doors allow several structures to be placed side by side, and also to make corner batteries.

There is also an intermediate upright, which allows structures with various compartments to be made (e.g. structure W=800 divided into 600+200mm).

For the structures with width ≥ 1000 mm, the upright can be removed to facilitate access.

The roof is of the removable type and can be fitted with air conditioner, ventilation hoods, top cable connection compartment. The flanges are supplied loose and their assembly is carried out from the front of the enclosure, using two screws.



Base, top and plinth

The base has openings which allow cable entry from below, and has different types of flanges:

- guillotine sliding, complete with gasket
 - in several pieces of different sizes to be removed or drilled
 - completely closed by a single large flange (2,00mm thickness), which can be drilled to house fairlead membranes or for direct entry of large cable bundles.
- It can also be fitted with supporting crosspieces for heavy users (e.g. transformers max. 500Kg)

Various types of plinths are available:

- **Standard:** 2,5mm angle pieces + 1,00mm flange made of pickled sheet and painted grey orange peel RAL 7012 colour, H=100mm.
The flanges are supplied loose. Their assembly is carried out from the front of the enclosure, using two self-threading screws. The angle pieces are fixed to the structure with two bolts placed diagonally to prevent any rotations during handling. Handling can be carried out using transpallet seven when there are two structures side by side.
- **Raised H=200mm:** this keeps the same characteristics as the previous one and consists of two superimposed angle pieces H=100mm and relative cover flange H=100mm.
- **Supporting:** able to support the weight of the structure (\approx 300kg loaded) and handle it by means of rollers. Versions H=100mm.

The plinth can be replaced by the following series of accessories:

- Levelling feet (500kg max. weight)
- Free and braked type wheels (70kg max. weight)
- Single: on request the plinth can be made in a single piece, equal to the whole perimeter of the enclosures mounted in a battery.

The angle pieces are provided with M12 holes for fixing to the floor.

IS2 Enclosures

Main characteristics

The blind door is fitted with reinforced galvanised tube and drilled with 25mm pitch, earthing pins (M6) located in the two corners close to the hinges. The transparent door is fitted with safety glass 4 mm thick screen-printed and with earthed pins.

5



Door

The reversible type doors (right or left opening) are made of 2,00mm thick pickled sheet, and can be mounted on the four sides with an opening angle of 120° for the front ones, even in the case of several structures side by side. The side doors have a maximum opening angle of 100°.

Both handles are fitted with different types of key locks.

Furthermore the doors are fitted with the following series of accessories:

- Hinges with 180° opening
- Door stop in the open position for the 180° version as well
- Release microswitch
- Voltage indication lamp
- Ventilation Kit
- Swivel work surface (only for doors W=600 and 800mm), which can be mounted on the reinforcement bar
- RAL7035 colour vertical and horizontal A3 format metal document pocket (only for doors W=600-800-1000mm), which can be mounted on the reinforcement bar
- A4 format plastic document pocket
- Crosspieces on the inside of the door, for horizontal connection between reinforcement tubes, for fixing the wiring duct or other accessories.
- Aluminium openable windows for control panels fitted with door and key.
- inner door, to be mounted at the same time as the front door.

This can house the main components, such as handles for switch-disconnectors/circuit-breakers, mushroom-head pushbuttons and various different pushbuttons.

Large functional plate

The structure of the large plate is particularly sturdy, it can support loads up to a total of 500kg without undergoing any deformation.

Made of galvanised sheet (2,5mm thick), it is mounted on sliding blocks, which facilitate its insertion in the enclosure in all of the following ways:

- From the front
- From the side
- From the rear
- Two "back-to-back" plates; also in the version with opposed plate
- Fully to the rear, placed inside the uprights on the same level as these.

The plates, which can be adjusted in depth every 25mm, have the same heights and can be in one of the following versions:

- Standard: with insertion from the front or rear. Joining with another plate is carried out using the special kit. Insertion from the side is possible by means of sliding tracks.
- Oversized: in this case the useful width is the same as the width of the structure. Assembly can only be from the side and is carried out thanks to the special tracks. The oversized plate can be adjusted in depth to exploit the useful space to the maximum without interfering with the side-by-side kit. It can be joined to other plates with the help of few accessories which can be mounted from the front.
- Partial: adjustable in depth, this is installed using accessories. The back plates can be fitted with rear reinforcement crosspieces.



In the cabinets with glazed doors, the useful space between the glass and panels/inner door allows assembly of most of the components, among which: fixed circuit-breakers with transmitted rotary operation, OESA-OETL switch-disconnectors, Tmax circuit-breakers, and various pushbuttons.



Cabinet with 19" rack frame

The following types of frame are available:

- Fixed: adjustable in depth with 25mm pitch, able to support a maximum load of 90Kg. With 38, 42, 47 HE module capacity for enclosures 1800, 2000, 2200mm high respectively, width 600, 800mm.
- Swing: in the versions for off-centre mounting in structures with W=800mm and centred in structures with W=600mm with a capacity of 36, 40, 45 HE modules respectively for 1800, 2000 and 2200mm heights.
- Partial swing: with 9, 18, 27 HE module capacity, for frames 500, 900, 1300mm high respectively.

The rack frames are completed with the special blind closure panels with dimensions from 1 HE to 20 HE.

Cabinet with 19" rack frame fixed with cranked shaped profile, swing decentralized "C" shaped profile and accessories

Other fastening systems for rack 19" are available, provided with new accessories on catalogue:

- Fixed: fastening systems for rack 19" with fixed cranked shaped profile uprights at full height in enclosure W=600mm and W=800mm, capacity 38/42/47 HE
- Partial fixed: fastening systems for rack 19" with fixed cranked shaped profile uprights at partial height in enclosure W=600mm and W=800mm, capacity 9/18/27 HE
- Swing: decentralized rack frame with swing decentralized "C" shaped profile for W=800mm, capacity 36/41/45 HE.

Brackets for fixing in W=600mm and W=800mm are available, crosspieces have dedicated slots for the passage of cables and for the ducts fixing. Support for accessories, universal fixed, adjustable in deep or removable shelves plus DIN-rail codes are included in ABB offer for those codes.

Cabinet with compartments

The IS2 range also covers construction of versions with cells or compartments.

The compartments, available in heights multiples of 100mm up to maximum of 800mm, allow Form 3a type segregation to be obtained.

The galvanised sheet back plate can be removed to facilitate assembly of the apparatus. The side parts of the compartment are pre-sheared for passage of the conductors.



IS2 Enclosures

Main characteristics

The cabinet is fitted with a glazed door for the video part and can take screens up to 17" in size.

5



Cabinet for PC

In this configuration, the cabinet is fitted with a glazed door for the video part and can take screens up to 17" in size. The window only regards the screen part. The part relative to the CPU is located behind the keyboard surface, accessible through a lift-up top fitted with a key lock.

The PC cabinet can be placed alongside the basic structures. Available in 1800 and 2000mm heights, 600mm width, and 600/800mm depth.

Cabinet with console

The structure is fitted with a section dedicated to a console. The versions available are with blind or glazed door.



Cabinet for modular configurations

In the 600 and 800mm widths (24 and 36 DIN modules) without cable compartment and in the 800/1000/1200mm widths with internal cable compartment W=200 or 400mm, the IS2 cabinets can be fitted with modular panels. The modular panels are available in the version with DIN drilling (for one or three rows of modular apparatus), in the blind version and for 72x72mm and 96x96mm measuring instruments. All the panels have vertical modularity of 150 or 200mm and are available in the fixed or hinged version by means of an accessory. Installation of Tmax moulded-case circuit-breakers is possible by means of a back plate and blind panels.

Installation of the modular panels in the IS2 cabinets requires the use of the special uprights for IS2 Enclosures for Automation.

Modular panels are screwed onto the structure of the cabinet. Alternatively an assembly of the apparatus on an oversized back plate is possible by means of dedicated uprights.

The modular versions are also fitted with the following series of accessories:

- Hole cover W=2000mm grey RAL 7035 colour
- Adhesive circuit identification label holders
- Distribution frames

In the 600 and 800mm widths (24 and 36 DIN modules) without cable riser and in the 800/1000/1200mm widths with internal cable riser $W=200$ or 400mm , the IS2 cabinets can be fitted with modular panels.



Air conditioners/fans

There are several solutions for air conditioning and ventilation cabinets:



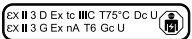
- Air conditioners, ultra-thin (max depth 105 mm) for wall mounting, IP54, 230 V, 50/60 Hz, 400 V 50 Hz, 460 V 60 Hz, RAL 7035, with a cooling capacity from 1900 W to 2940 W.
- Air conditioners for wall or door mounting, 230V 50/60Hz, RAL 7035 with cooling power of 600 W to 2200 W.
- Heat exchangers (air - air) for wall mounting, IP54, 230 V 50/60 Hz, RAL 7035 with cooling power from 35 W to 85 W.
- Natural ventilation kit through Kit for the raising of the roof IP 20 and grid
- Natural ventilation kit through grid IP21 / IP54
- Forced ventilation kit through input grid and output fan on the wall or hood outlet on the roof, IP23 / IP54, 7035, 230V / 115V, 50/60Hz with reversible flow, flow rate of 23 m³/h 590 m³/h.
- Heater IP20, with 110/230V power supply 50 / 60 Hz
- Thermostat with 110V, 250V power supply 50 / 60 Hz

Accessories

Apart from the accessories dedicated to making up some versions, the following are available for the whole range:

- Reinforcement crosspieces for transformers, able to support weights of 500kg. They are placed at the back of the structure in depth
- Reinforcement crosspieces/various applications, which can be mounted both in depth and in width ($H=48\text{-}100\text{mm}$). They are independent of the dimensions of the structure and can be positioned both inside and outside the uprights
- "C" guides in depth for mounting DIN rails and blind back plates
- Blind panels ($H=50\text{-}100\text{-}150\text{-}200\text{-}400\text{-}600\text{mm}$) and DIN cut-outs ($H=150\text{-}200\text{mm}$)
- Lamps for enclosure internal lighting, to be installed directly on the upright placed under the roof. They can be of two types: 8-13W fluorescent tube with 220-240V 50/60Hz power supply, or 11W version with integrated UNEL socket
- "Duct" type accessory able to shield the power cables from the signal cables
- Busbar system

Technical characteristics

| | | |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| Conformity with the Standard | IEC 62208, IEC 60439-1, IEC 61439-1-2 | |
| Degree of protection | IP65 (IEC 60529) with fixed flange TYPE 12 (UL Standard) | |
| Degree of mechanical strength | IK10 blind door IK09 glazed door (IEC 62262) | |
| Certifications |    | |
| Type of material | Metallic | |
| Installation site | Indoors | |
| Fixing method | floor | |
| Normal service conditions – ambient temperature | from -5 to $+40^{\circ}\text{C}$ | |
| Operating climate ($t^{\circ}/\text{rh}\%$) | constant | $23^{\circ}\text{C}/83\% - 40^{\circ}\text{C}/93\%$ |
| | variable | $23^{\circ}\text{C}/98\% - 40^{\circ}\text{C}/98\%$ |
| Vibration test | In accordance with Standard IEC 60068-2-57 | |
| Seismic withstand capability test | In accordance with Standard IEE Std 693 | |

(*) UL listed for structures IP65 with plain doors.

IS2 Enclosures

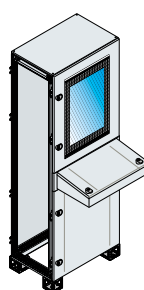
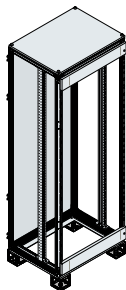
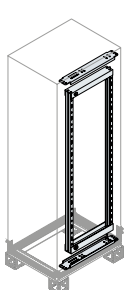
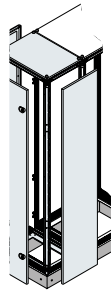
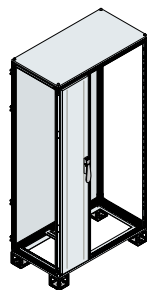
Main characteristics

Composition of the series



| Dimensions (mm) | | Back plates | | Inner door* | Top cable connection cont. | Modular DIN structure | | |
|------------------------------------------|------|-------------|----------|-------------|----------------------------|-----------------------|--|--|
| H | D | W | Standard | Oversized | | | | |
| 1400** 1600** 1800 2000 2200 | 400 | 300 | | | | | | |
| | | 400 | • | | | • | | |
| | | 600 | • | • | • | • | | |
| | | 800 | • | • | • | • | | |
| | | 1000 | • | • | • | • + cable cont. | | |
| | | 1200 | • | • | • | • + cable cont. | | |
| | 500 | 300 | | | | | | |
| | | 400 | • | • | • | • | | |
| | | 600 | • | • | • | • | | |
| | | 800 | • | • | • | • | | |
| | | 1000 | • | • | • | • + cable cont. | | |
| | | 1200 | • | • | • | • + cable cont. | | |
| | | 1600 | • | | • | | | |
| | 600 | 300 | | | | | | |
| | | 400 | • | • | • | • | | |
| | | 600 | • | • | • | • | | |
| | | 800 | • | • | • | • | | |
| | | 1000 | • | • | • | • + cable cont. | | |
| | | 1200 | • | • | • | • + cable cont. | | |
| | | 1600 | • | | • | | | |
| | 800 | 300 | | | | | | |
| | | 400 | • | • | • | • | | |
| | | 600 | • | • | • | • | | |
| | | 800 | • | • | • | • | | |
| | | 1000 | • | • | • | • + cable cont. | | |
| | | 1200 | • | • | • | • + cable cont. | | |
| | | 1600 | • | | • | | | |
| | 1000 | 300 | | | | | | |
| | | 400 | • | • | • | • | | |
| | | 600 | • | • | • | • | | |
| | | 800 | • | • | • | • | | |
| | | 1000 | • | • | • | • | | |

* For H=1400 and 1600mm inner doors, please contact ABB
 ** Cable compartment not available for structures H=1400/1600mm.

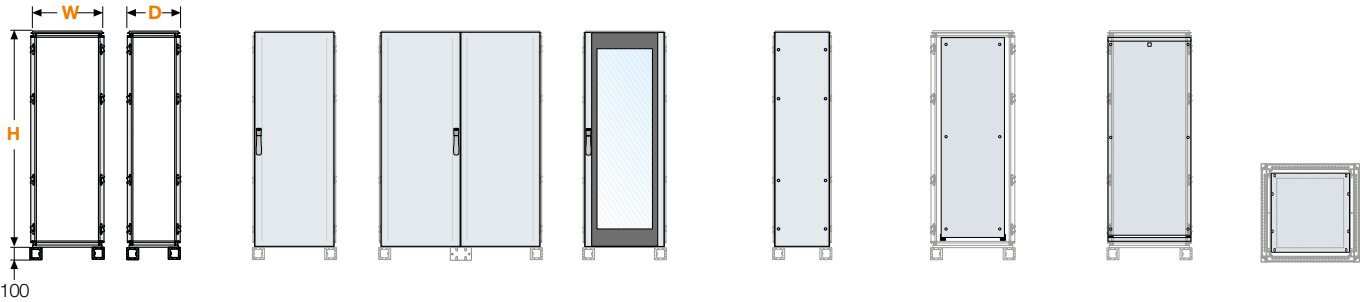


| Cable container Internal W=200mm | Cable container Internal W=400mm | Cable container External W=300mm | 19" rack structures | Structures with compartments | Cabinet with console | Cabinet for computer | IS2 EMC |
|-------------------------------------|-------------------------------------|-------------------------------------|---------------------|---------------------------------|-------------------------|-------------------------|---------|
| | | • | | | | | |
| • | | | • | • | • | | |
| • | • | | • | • | • | | |
| | • | | | • + cable cont. | | | |
| | • | | | • + cable cont. | | | |
| | | • | | | | | |
| • | | | • | • | • | | |
| • | • | | • | • | • | | |
| | • | | | • + cable cont. | | | |
| | • | | | • + cable cont. | | | |
| | | • | | | | | |
| • | | | • | • | • | • | • (1) |
| • | • | | • | • | • | | • (1) |
| | • | | | • + cable cont. | | | |
| | • | | | • + cable cont. | | | |
| | | • | | | | | |
| • | | | • | • | • | • | • (1) |
| • | • | | • | • | • | | • (1) |
| | • | | | • + cable cont. | | | |
| | • | | | • + cable cont. | | | |
| | | • | | | | | |
| • | | | • | • | | | |
| • | • | | • | • | | | |
| | | | | • + cable cont. | | | |

Pre-assembled IS2 Cabinets

Selection of the structure - H=1400/1600mm NEW

Quick selection table

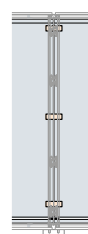
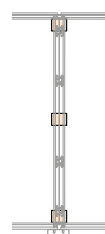
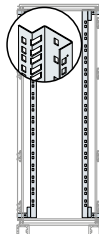
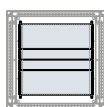
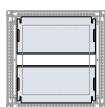


5

| External dimensions ⁽¹⁾ | | Pre assembled structure with blind door and rear panel | | Pre assembled structure with blind double door | Pre assembled structure with glass door and rear panel | Side panel | Standard mounting plate | Oversized mounting plate + rails | Fixed cable entry flanges | |
|------------------------------------|--------|--------------------------------------------------------|---|------------------------------------------------|--------------------------------------------------------|-----------------|-------------------------|----------------------------------|---------------------------|--|
| W (mm) | D (mm) | | | | | | | | | |
| Height 1400mm | | | | | | | | | | |
| 400 | 400 | 1STQ005349B0000 | - | - | - | EL1440K | EA1440 | EA1540 | EF4042 | |
| 400 | 600 | 1STQ005361B0000 | - | - | - | EL1460K | EA1440 | EA1540 | EF4063 | |
| 400 | 800 | 1STQ005365B0000 | - | - | - | EL1480K | EA1440 | EA1540 | EF4082 | |
| 600 | 300 | 1STQ005346B0000 | - | - | - | 1STQ005322B0000 | EA1460 | EA1560 | 1STQ005426B0000 | |
| 600 | 400 | 1STQ005350B0000 | - | - | 1STQ005355B0000 | EL1440K | EA1460 | EA1560 | EF6043 | |
| 600 | 500 | 1STQ005357B0000 | - | - | - | 1STQ005323B0000 | EA1460 | EA1560 | EF6052 | |
| 600 | 600 | 1STQ005362B0000 | - | - | - | EL1460K | EA1460 | EA1560 | EF6062 | |
| 600 | 800 | 1STQ005366B0000 | - | - | - | EL1480K | EA1460 | EA1560 | EF6082 | |
| 800 | 300 | 1STQ005347B0000 | - | - | 1STQ005354B0000 | 1STQ005322B0000 | EA1480 | EA1580 | 1STQ005427B0000 | |
| 800 | 400 | 1STQ005351B0000 | - | - | 1STQ005356B0000 | EL1440K | EA1480 | EA1580 | EF8042 | |
| 800 | 500 | 1STQ005358B0000 | - | - | - | 1STQ005323B0000 | EA1480 | EA1580 | EF8052 | |
| 800 | 600 | 1STQ005363B0000 | - | - | - | EL1460K | EA1480 | EA1580 | EF8062 | |
| 800 | 800 | 1STQ005367B0000 | - | - | - | EL1480K | EA1480 | EA1580 | EF8082 | |
| 1000 | 300 | 1STQ005348B0000 | - | - | - | 1STQ005322B0000 | EA1411 | - | 1STQ005428B0000 | |
| 1000 | 400 | 1STQ005352B0000 | - | - | - | EL1440K | EA1411 | - | EF1042 | |
| 1000 | 500 | 1STQ005359B0000 | - | - | - | 1STQ005323B0000 | EA1411 | - | EF1052 | |
| 1200 | 400 | - | - | 1STQ005353B0000 | - | EL1440K | EA1412 | EA1512 | 2xEF6043 | |
| 1200 | 500 | - | - | 1STQ005360B0000 | - | 1STQ005323B0000 | EA1412 | EA1512 | 2xEF6052 | |
| 1200 | 600 | - | - | 1STQ005364B0000 | - | EL1460K | EA1412 | EA1512 | 2xEF6062 | |
| 1200 | 800 | - | - | 1STQ005368B0000 | - | EL1480K | EA1412 | EA1512 | 2xEF6082 | |
| Height 1600mm | | | | | | | | | | |
| 400 | 500 | 1STQ005377B0000 | - | - | - | EL1650K | EA1640 | EA1740 | EF4052 | |
| 400 | 600 | 1STQ005382B0000 | - | - | - | EL1660K | EA1640 | EA1740 | EF4063 | |
| 400 | 800 | 1STQ005387B0000 | - | - | - | EL1680K | EA1640 | EA1740 | EF4082 | |
| 400 | 1000 | 1STQ005392B0000 | - | - | - | EL1610K | EA1640 | EA1740 | EF4082 | |
| 600 | 300 | 1STQ005369B0000 | - | - | - | 1STQ005324B0000 | EA1616 | EA1760 | 1STQ005426B0000 | |
| 600 | 400 | 1STQ005371B0000 | - | - | 1STQ005375B0000 | 1STQ005325B0000 | EA1616 | EA1760 | EF6043 | |
| 600 | 500 | 1STQ005378B0000 | - | - | - | EL1650K | EA1616 | EA1760 | EF6052 | |
| 600 | 600 | 1STQ005383B0000 | - | - | - | EL1660K | EA1616 | EA1760 | EF6062 | |
| 600 | 800 | 1STQ005388B0000 | - | - | - | EL1680K | EA1616 | EA1760 | EF6082 | |
| 600 | 1000 | 1STQ005393B0000 | - | - | - | EL1610K | EA1616 | EA1760 | EF6082 | |
| 800 | 300 | 1STQ005370B0000 | - | - | - | 1STQ005324B0000 | EA1619 | EA1780 | 1STQ005427B0000 | |
| 800 | 400 | 1STQ005372B0000 | - | - | 1STQ005376B0000 | 1STQ005325B0000 | EA1619 | EA1780 | EF8042 | |
| 800 | 500 | 1STQ005379B0000 | - | - | - | EL1650K | EA1619 | EA1780 | EF8052 | |
| 800 | 600 | 1STQ005384B0000 | - | - | - | EL1660K | EA1619 | EA1780 | EF8062 | |
| 800 | 800 | 1STQ005389B0000 | - | - | - | EL1680K | EA1619 | EA1780 | EF8082 | |
| 800 | 1000 | 1STQ005394B0000 | - | - | - | EL1610K | EA1619 | EA1780 | EF8082 | |
| 1000 | 400 | 1STQ005373B0000 | - | - | - | 1STQ005325B0000 | EA1610 | EA1710 | EF1042 | |
| 1000 | 500 | 1STQ005380B0000 | - | - | - | EL1650K | EA1610 | EA1710 | EF1052 | |
| 1000 | 600 | 1STQ005385B0000 | - | - | - | EL1660K | EA1610 | EA1710 | EF1062 | |
| 1000 | 800 | 1STQ005390B0000 | - | - | - | EL1680K | EA1610 | EA1710 | EF1062 | |
| 1000 | 1000 | 1STQ005395B0000 | - | - | - | EL1610K | EA1610 | EA1710 | EF1082 | |
| 1200 | 400 | - | - | 1STQ005374B0000 | - | 1STQ005325B0000 | EA1612 | EA1712 | 2xEF6043 | |
| 1200 | 500 | - | - | 1STQ005381B0000 | - | EL1650K | EA1612 | EA1712 | 2xEF6052 | |
| 1200 | 600 | - | - | 1STQ005386B0000 | - | EL1660K | EA1612 | EA1712 | 2xEF6062 | |
| 1200 | 800 | - | - | 1STQ005391B0000 | - | EL1680K | EA1612 | EA1712 | 2xEF6082 | |

⁽¹⁾ The useful height is always 100mm less than the external dimension of the enclosure. For the version with compartments, the useful height is 200mm less.

For H=1400 and 1600mm inner doors, please contact ABB

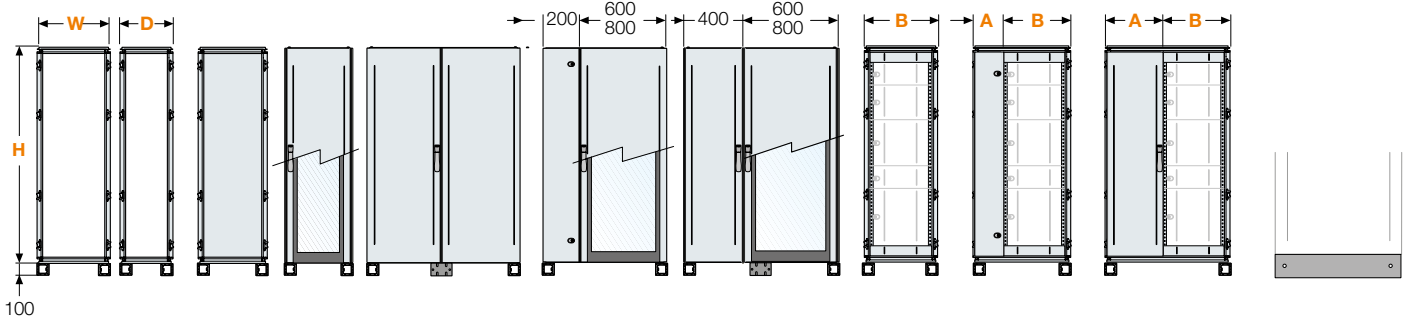


| | Sliding cable entry flanges | Build-up cable entry flanges | Plinth flanges front/rear | Plinth flanges side | 19° Fixed cranked shaped uprights Frame+Fixing kit | Side-by-side structure Kit | Oversized platejoining Kit |
|--|-----------------------------|------------------------------|---------------------------|---------------------|----------------------------------------------------|----------------------------|----------------------------|
| | EF4040 | EF4041 | ZN4000 | ZN4000 | - | EV0002 EV0003 EV0006 | EA2113 |
| | EF4060 | EF4061 | ZN4000 | ZN6000 | - | | |
| | EF4080 | EF4081 | ZN4000 | ZN8000 | - | | |
| | - | - | ZN6000 | ZN3000 | 1STQ005332B0000+EB6000 | | |
| | EF6040 | EF6041 | ZN6000 | ZN4000 | 1STQ005332B0000+EB6000 | | |
| | EF6050 | EF6051 | ZN6000 | ZN5000 | 1STQ005332B0000+EB6000 | | |
| | EF6060 | EF6061 | ZN6000 | ZN6000 | 1STQ005332B0000+EB6000 | | |
| | EF6080 | EF6081 | ZN6000 | ZN8000 | 1STQ005332B0000+EB6000 | | |
| | - | - | ZN8000 | ZN3000 | 1STQ005332B0000+EB8000 | | |
| | EF8040 | EF8041 | ZN8000 | ZN4000 | 1STQ005332B0000+EB8000 | | |
| | EF8050 | EF8051 | ZN8000 | ZN5000 | 1STQ005332B0000+EB8000 | | |
| | EF8060 | EF8061 | ZN8000 | ZN6000 | 1STQ005332B0000+EB8000 | | |
| | EF8080 | EF8081 | ZN8000 | ZN8000 | 1STQ005332B0000+EB8000 | | |
| | - | - | ZN1000 | ZN3000 | - | | |
| | EF1040 | EF1041 | ZN1000 | ZN4000 | - | | |
| | EF1053 | EF1051 | ZN1000 | ZN5000 | - | | |
| | 2xEF6040 | 2xEF6041 | 2xZN6000 | ZN4000 | - | | |
| | 2xEF6051 | 2xEF6051 | 2xZN6000 | ZN5000 | - | | |
| | 2xEF6060 | 2xEF6061 | 2xZN6000 | ZN6000 | - | | |
| | 2xEF6080 | 2xEF6081 | 2xZN6000 | ZN8000 | - | | |
| | EF4050 | EF4051 | ZN4000 | ZN5000 | - | EV0002 EV0003 EV0006 | EA2113 |
| | EF4060 | EF4061 | ZN4000 | ZN6000 | - | | |
| | EF4080 | EF4081 | ZN4000 | ZN8000 | - | | |
| | EF4080 | EF4081 | ZN4000 | ZN1000 | - | | |
| | - | - | ZN6000 | ZN3000 | 1STQ005333B0000+EB6000 | | |
| | EF6040 | EF6041 | ZN6000 | ZN4000 | 1STQ005333B0000+EB6000 | | |
| | EF6050 | EF6051 | ZN6000 | ZN5000 | 1STQ005333B0000+EB6000 | | |
| | EF6060 | EF6061 | ZN6000 | ZN6000 | 1STQ005333B0000+EB6000 | | |
| | EF6080 | EF6081 | ZN6000 | ZN8000 | 1STQ005333B0000+EB6000 | | |
| | EF6080 | EF6081 | ZN6000 | ZN1000 | 1STQ005333B0000+EB6000 | | |
| | - | - | ZN8000 | ZN3000 | 1STQ005333B0000+EB8000 | | |
| | EF8040 | EF8041 | ZN8000 | ZN4000 | 1STQ005333B0000+EB8000 | | |
| | EF8050 | EF8051 | ZN8000 | ZN5000 | 1STQ005333B0000+EB8000 | | |
| | EF8060 | EF8061 | ZN8000 | ZN6000 | 1STQ005333B0000+EB8000 | | |
| | EF8080 | EF8081 | ZN8000 | ZN8000 | 1STQ005333B0000+EB8000 | | |
| | EF8080 | EF8081 | ZN8000 | ZN1000 | 1STQ005333B0000+EB8000 | | |
| | EF1040 | EF1041 | ZN1000 | ZN4000 | - | | |
| | EF1053 | EF1051 | ZN1000 | ZN5000 | - | | |
| | EF1060 | EF1061 | ZN1000 | ZN6000 | - | | |
| | EF1060 | EF1061 | ZN1000 | ZN8000 | - | | |
| | EF1080 | EF1081 | ZN1000 | ZN1000 | - | | |
| | 2xEF6040 | 2xEF6041 | 2xZN6000 | ZN4000 | - | | |
| | 2xEF6051 | 2xEF6051 | 2xZN6000 | ZN5000 | - | | |
| | 2xEF6060 | 2xEF6061 | 2xZN6000 | ZN6000 | - | | |
| | 2xEF6080 | 2xEF6081 | 2xZN6000 | ZN8000 | - | | |

Pre-assembled IS2 Cabinets

Selection of the structure - H=1800 mm

Quick selection table



5

| External dimensions H=1800 ⁽¹⁾ mm | | Cabinet with door | | | Cabinet with cable container | | | | Cabinet with compartments ⁽²⁾ | | | | | | Flanges for plinth | | |
|-------------------------------------------------|-----------|-------------------------|------------|------------------------------------------------------------|------------------------------|-----------------------------------------------------|-----------------------------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------|-----|------------------------|------------|----------------|--------------------|----------|--------|
| W (mm) | D (mm) | Cabinet without door | Blind door | Double blind with overload closure ⁽³⁾ | Glazed door | Blind door with cable container W=200mm | Blind door with cable container W=400mm | Glazed door with cable container W=200mm | Glazed door with cable container W=400mm | Width A (mm) B (mm) | | Width A (mm) B (mm) | | Front/ rear | Side | | |
| 400 | 400 | | ES1844K | | | | | | | | | | | ZN4000 | ZN4000 | | |
| 600 | | ES1864SPK | ES1864K | | ES1864VK | | | | | ES1864MFK | - | 600 | | ZN6000 | | | |
| 800 | | ES1884SPK | ES1884K | | ES1884VK | ES1884FV2K | | ES1884VC2K | | ES1884MF2K | 200 | 600 | ES1884MFK | - | | 800 | ZN8000 |
| 1000 | | | ES1804K | ES1814BK | ES1804VK | ES1804FV2K | ES1804FV4K | ES1804VC2K | ES1804VC4K | ES1804MF4K | 400 | 600 | ES1804MF2K | 200 | | 800 | ZN1000 |
| 1200 | | | | ES1824BK | ES1824VK ⁽⁴⁾ | | ES1824FV4K | | ES1824VC4K | | | ES1824MF4K | 400 | 800 | | 2xZN6000 | |
| 400 | 500 | | ES1845K | | | | | | | | | | | ZN4000 | ZN5000 | | |
| 600 | | ES1865SPK | ES1865K | | ES1865VK | | | | | ES1865MFK | - | 600 | | ZN6000 | | | |
| 800 | | | ES1885K | | ES1885VK | ES1885FV2K | | ES1885VC2K | | ES1885MF2K | 200 | 600 | ES1885MFK | - | | 800 | ZN8000 |
| 1000 | | | ES1805K | ES1815BK | ES1805VK | ES1805FV2K | ES1805FV4K | ES1805VC2K | ES1805VC4K | ES1805MF4K | 400 | 600 | ES1805MF2K | 200 | | 800 | ZN1000 |
| 1200 | | | | ES1827BK | ES1825VK ⁽⁴⁾ | | ES1825FV4K | | ES1825VC4K | | | ES1825MF4K | 400 | 800 | | 2xZN6000 | |
| 1600 ⁽⁵⁾ | | | | ES1875BK | | | | | | | | | | | | 2xZN8000 | |
| 400 | 600 | | ES1846K | | | | | | | | | | | ZN4000 | ZN6000 | | |
| 600 | | ES1866SPK | ES1866K | | ES1866VK | | | | | ES1866MFK | - | 600 | | ZN6000 | | | |
| 800 | | ES1886SPK | ES1886K | | ES1886VK | ES1886FV2K | | ES1886VC2K | | ES1886MF2K | 200 | 600 | ES1886MFK | - | | 800 | ZN8000 |
| 1000 | | | ES1806K | ES1816BK | ES1806VK | ES1806FV2K | ES1806FV4K | ES1806VC2K | ES1806VC4K | ES1806MF4K | 400 | 600 | ES1806MF2K | 200 | | 800 | ZN1000 |
| 1200 | | | | ES1826BK | ES1826VK ⁽⁴⁾ | | ES1826FV4K | | ES1826VC4K | | | ES1826MF4K | 400 | 800 | | 2xZN6000 | |
| 1600 ⁽⁵⁾ | | | ES1876BK | | | | | | | | | | | 2xZN8000 | | | |
| 400 | 800 | | ES1848K | | | | | | | | | | | ZN4000 | ZN8000 | | |
| 600 | | | ES1868K | | ES1868VK | | | | | ES1868MFK | - | 600 | | ZN6000 | | | |
| 800 | | | ES1888K | | ES1888VK | ES1888FV2K | | ES1888VC2K | | ES1888MF2K | 200 | 600 | ES1888MFK | - | | 800 | ZN8000 |
| 1000 | | | ES1808K | ES1818BK | ES1808VK | ES1808FV2K | ES1808FV4K | ES1808VC2K | ES1808VC4K | ES1808MF4K | 400 | 600 | ES1808MF2K | 200 | | 800 | ZN1000 |
| 1200 | | | | ES1828BK | ES1828VK ⁽⁴⁾ | | ES1828FV4K | | ES1828VC4K | | | ES1828MF4K | 400 | 800 | | 2xZN6000 | |
| 1600 ⁽⁵⁾ | | | | ES1878BK | | | | | | | | | | | | 2xZN8000 | |
| 400 | 1000 | | ES1840K | | | | | | | | | | | ZN4000 | ZN1000 | | |
| 600 | | | ES1860K | | ES1860VK | | | | | ES1860MFK | - | 600 | | ZN6000 | | | |
| 800 | | | ES1880K | | ES1880VK | | | | | ES1880MF2K | 200 | 600 | ES1880MFK | - | | 800 | ZN8000 |
| 1000 | | | ES1800K | ES1810BK | ES1800VK | | | | | ES1800MF4K | 400 | 600 | ES1800MF2K | 200 | | 800 | ZN1000 |

⁽¹⁾ The useful height is always 100mm less than the external dimension of the enclosure. For the version with compartments, the useful height is 200mm less.

⁽²⁾ Implies mounting the intermediate upright EM1801. The doors have overlapping closure on the intermediate upright (removable) fixed onto the crosspieces mounted in depth.

⁽³⁾ Also available with double blind doors with closing on intermediate upright (eliminate the suffix B from the code).

⁽⁴⁾ Standard plate joining kit: EA1800 (H=1800mm); EA2000 (H=2000mm); EA2200 (H=2200mm). Possibility of lateral insertion with tracks (see pag. 5/60).

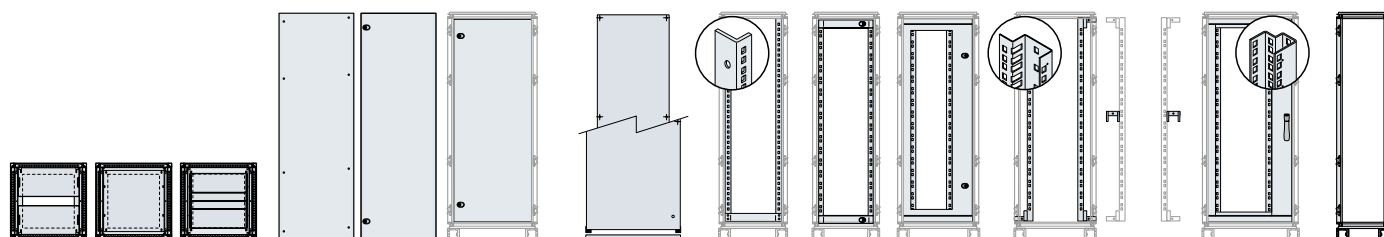
⁽⁵⁾ EA2113 oversized plate joining kit H=1800/2000/2200mm.

⁽⁶⁾ Kit consisting of 2 oversized back plates with relative insertion tracks + plate joining kit.

⁽⁷⁾ In case of structures with internal cable container, select the correct rack frame which takes into account the W=200 or W=400mm of the cable container; and leaves W=600mm or W=800mm structure compartment.

⁽⁸⁾ W=1600mm enclosures are only available in pre-assembled version with blind door (with overlapping door or intermediate upright).

⁽⁹⁾ Examples of configuration and technical characteristics at page 5/114.



| Incoming cable flanges | | | Side covers | | Inner door | Back plates | | Rack frames 19" "L" shaped profile ⁽⁶⁾ | | | Rack frames 19" | | | External cable container |
|------------------------|----------|----------|-----------------------------------|----------------------------|-------------------------|-------------------------|----------------------------------|---------------------------------------------------|-----------------------|-----------------------|----------------------------------------------|-----------------------------|-----------------------------------------|--------------------------|
| Sliding | Fixed | Modular | No. 2 Blind panel ⁽¹⁰⁾ | Side door with closing box | | Standard ⁽²⁾ | Oversize + tracks ⁽³⁾ | Fixed Centred | Swing Centred W=600mm | Decentralized W=800mm | Fixed ⁽⁸⁾ cranked shaped uprights | Optional central fixing kit | Swing ⁽⁹⁾ "C" shaped profile | W=300mm |
| EF4040 | EF4042 | EF4041 | EL1840K | EC1841K | | EA1841 | EA1940 | | | | | | | ER3040K |
| EF6040 | EF6043 | EF6041 | | | EE1860K | EA1860 | EA1960 | EG1800 | EG1801K | | EG1805+ EB6000 | EB0400 | | |
| EF8040 | EF8042 | EF8041 | | | EE1880K ⁽¹¹⁾ | EA1880 | EA1981 | EG1880 | | EG1803K | EG1805+ EB8000 | EB8001 + EB0400 | EG1804K+ EV0007 | |
| EF1040 | EF1042 | EF1041 | | | EE1810K | EA1810 | EA1910 | | | | | | | |
| 2xEF6040 | 2xEF6043 | 2xEF6041 | | | | EA1812 | EA1912 | | | | | | | |
| EF4050 | EF4052 | EF4051 | EL1850K | EC1851K | | EA1841 | EA1940 | | | | | | | ER3050K |
| EF6050 | EF6052 | EF6051 | | | EE1860K | EA1860 | EA1960 | EG1800 | EG1801K | | EG1805+ EB6000 | EB0500 | | |
| EF8050 | EF8052 | EF8051 | | | EE1880K | EA1880 | EA1981 | EG1880 | | EG1803K | EG1805+ EB8000 | EB8001 + EB0500 | EG1804K+ EV0007 | |
| EF1053 | EF1052 | EF1051 | | | EE1810K | EA1810 | EA1910 | | | | | | | |
| 2xEF6050 | 2xEF6052 | 2xEF6051 | | | | EA1812 | EA1912 | | | | | | | |
| 2xEF8050 | 2xEF8052 | 2xEF8051 | | | | EA1817 | EA1916 ⁽⁴⁾ | | | | | | | |
| EF4060 | EF4063 | EF4061 | EL1860K | EC1861K | | EA1841 | EA1940 | | | | | | | ER3060K |
| EF6060 | EF6062 | EF6061 | | | EE1860K | EA1860 | EA1960 | EG1800 | EG1801K | | EG1805+ EB6000 | EB0600 | | |
| EF8060 | EF8062 | EF8061 | | | EE1880K | EA1880 | EA1981 | EG1880 | | EG1803K | EG1805+ EB8000 | EB8001 + EB0600 | EG1804K+ EV0007 | |
| EF1060 | EF1062 | EF1061 | | | EE1810K | EA1810 | EA1910 | | | | | | | |
| 2xEF6060 | 2xEF6062 | 2xEF6061 | | | | EA1812 | EA1912 | | | | | | | |
| 2xEF8060 | 2xEF8062 | 2xEF8061 | | | | EA1817 | EA1916 ⁽⁴⁾ | | | | | | | |
| EF4080 | EF4082 | EF4081 | EL1880K | EC1881K | | EA1841 | EA1940 | | | | | | | ER3080K |
| EF6080 | EF6082 | EF6081 | | | EE1860K | EA1860 | EA1960 | EG1800 | EG1801K | | EG1805+ EB6000 | EB0800 | | |
| EF8080 | EF8082 | EF8081 | | | EE1880K | EA1880 | EA1981 | EG1880 | | EG1803K | EG1805+ EB8000 | EB8001 + EB0800 | EG1804K+ EV0007 | |
| EF1080 | EF1082 | EF1081 | | | EE1810K | EA1810 | EA1910 | | | | | | | |
| 2xEF6080 | 2xEF6082 | 2xEF6081 | | | | EA1812 | EA1912 | | | | | | | |
| 2xEF8080 | 2xEF8082 | 2xEF8081 | | | | EA1817 | EA1916 ⁽⁴⁾ | | | | | | | |
| EF4010 | EF4012 | EF4011 | EL1810K | EC1811K | | EA1841 | EA1940 | | | | | | | ER3010K |
| EF6010 | EF6012 | EF6011 | | | EE1860K | EA1860 | EA1960 | EG1800 | EG1801K | | EG1805+ EB6000 | EB1000 | | |
| EF8010 | EF8012 | EF8011 | | | | EA1880 | EA1981 | EG1880 | | EG1803K | EG1805+ EB8000 | EB8001 + EB1000 | EG1804K+ EV0007 | |
| EF1010 | EF1012 | EF1011 | | | EE1810K | EA1810 | EA1910 | | | | | | | |

⁽⁶⁾ Rack frame W=600mm needs fixing brackets EB6000 and for an optional central fixing order a couple of crosspieces EB... see page 5/66 according to switchboard depth. Accessories from page 5/86.
Rack frame W=800mm needs fixing brackets EB8000 and for an optional central fixing order a couple of crosspieces EB... see page 5/66 according to switchboard depth. Moreover, fixing kits replacing brackets and crosspieces according to switchboard depth are available, codes on page 5/82. Accessories from page 5/86.

⁽⁸⁾ Only available for W=800mm (even in structures with cable container and W=800mm structure compartment). Order specific fixing kit EV0007.

⁽¹⁰⁾ Single side panel available on page 5/51.

⁽¹¹⁾ Not compatible with structures W800 with internal cable container for the presence of intermediate upright (600+200mm).

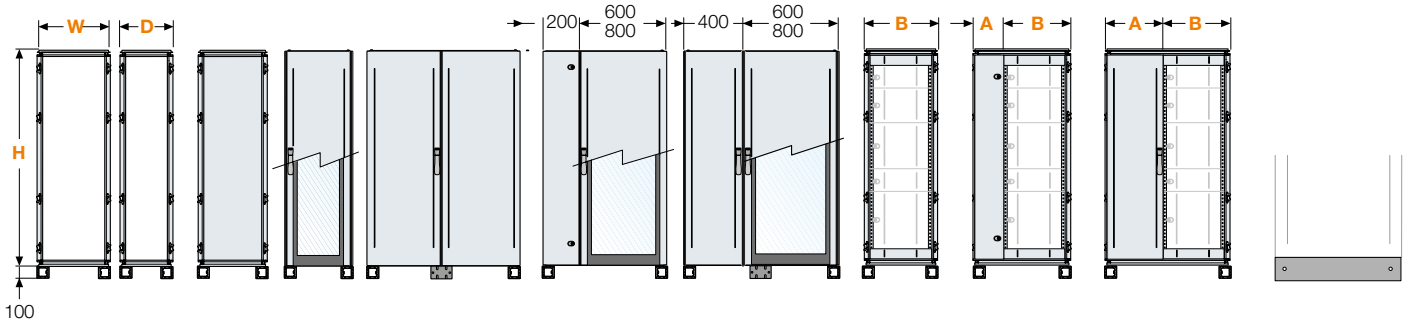
Kit for placing structures side by side EV0002/EV0003/EV0006 see page 5/72.

> Ordering codes page 5/30 > Examples of configuration page 5/114 > In-depth technical information page 7/1 > Overall dimensions page 8/1

Pre-assembled IS2 Cabinets

Selection of the structure - H=2000 mm

Quick selection table



5

| External dimensions H=2000 ⁽¹⁾ mm | | Cabinet with door | | | | Cabinet with cable container | | | | Cabinet with compartments ⁽⁷⁾ | | | | Flanges for plinth | |
|-------------------------------------------------|-----------|-------------------------|------------|------------------------------------------------------------|-------------------------|-----------------------------------------------------|-----------------------------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------|-----------|-----------|------------|--------------------|--------|
| W (mm) | D (mm) | Cabinet without door | Blind door | Double blind with overload closure ⁽¹⁾ | Glazed door | Blind door with cable container W=200mm | Blind door with cable container W=400mm | Glazed door with cable container W=200mm | Glazed door with cable container W=400mm | Width | | Width | | Front/ rear | Side |
| | | | | | | | | | | A (mm) | B (mm) | A (mm) | B (mm) | | |
| 400 | 400 | | ES2044K | | | | | | | | | | | ZN4000 | ZN4000 |
| 600 | | ES2064SPK | ES2064K | | ES2064VK | | | | | ES2064MFK | - | 600 | | ZN6000 | |
| 800 | | ES2084SPK | ES2084K | | ES2084VK | ES2084FV2K | | ES2084VC2K | | ES2084MF2K | 200 | 600 | ES2084MFK | - | 800 |
| 1000 | | | ES2004K | ES2014BK | ES2004VK | ES2004FV2K | ES2004FV4K | ES2004VC2K | ES2004VC4K | ES2004MF4K | 400 | 600 | ES2004MF2K | 200 | 800 |
| 1200 | | | | ES2024BK | ES2024VK ⁽²⁾ | | ES2024FV4K | | ES2024VC4K | | | | ES2024MF4K | 400 | 800 |
| | | | | | | | | | | | | | | 2xZN6000 | |
| 400 | 500 | | ES2045K | | | | | | | | | | | ZN4000 | ZN5000 |
| 600 | | ES2065SPK | ES2065K | | ES2065VK | | | | | ES2065MFK | - | 600 | | ZN6000 | |
| 800 | | | ES2085K | | ES2085VK | ES2085FV2K | | ES2085VC2K | | ES2085MF2K | 200 | 600 | ES2085MFK | - | 800 |
| 1000 | | | ES2007K | ES2015BK | ES2005VK | ES2005FV2K | ES2005FV4K | ES2005VC2K | ES2005VC4K | ES2005MF4K | 400 | 600 | ES2005MF2K | 200 | 800 |
| 1200 | | | | ES2025BK | ES2025VK ⁽²⁾ | | ES2025FV4K | | ES2025VC4K | | | | ES2025MF4K | 400 | 800 |
| 1600 ⁽³⁾ | | | | ES2075BK | | | | | | | | | | 2xZN8000 | |
| 400 | 600 | | ES2046K | | | | | | | | | | | ZN4000 | ZN6000 |
| 600 | | ES2066SPK | ES2066K | | ES2066VK | | | | | ES2066MFK | - | 600 | | ZN6000 | |
| 800 | | ES2086SPK | ES2086K | | ES2086VK | ES2086FV2K | | ES2086VC2K | | ES2086MF2K | 200 | 600 | ES2086MFK | - | 800 |
| 1000 | | | ES2006K | ES2016BK | ES2006VK | ES2006FV2K | ES2006FV4K | ES2006VC2K | ES2006VC4K | ES2006MF4K | 400 | 600 | ES2006MF2K | 200 | 800 |
| 1200 | | | | ES2026BK | ES2026VK ⁽²⁾ | | ES2026FV4K | | ES2026VC4K | | | | ES2026MF4K | 400 | 800 |
| 1600 ⁽³⁾ | | | | ES2076BK | | | | | | | | | | 2xZN8000 | |
| 400 | 800 | | ES2048K | | | | | | | | | | | ZN4000 | ZN8000 |
| 600 | | | ES2068K | | ES2068VK | | | | | ES2068MFK | - | 600 | | ZN6000 | |
| 800 | | | ES2089K | | ES2088VK | ES2088FV2K | | ES2088VC2K | | ES2088MF2K | 200 | 600 | ES2088MFK | - | 800 |
| 1000 | | | ES2008K | ES2018BK | ES2008VK | ES2008FV2K | ES2008FV4K | ES2008VC2K | ES2008VC4K | ES2008MF4K | 400 | 600 | ES2008MF2K | 200 | 800 |
| 1200 | | | | ES2028BK | ES2028VK ⁽²⁾ | | ES2028FV4K | | ES2028VC4K | | | | ES2028MF4K | 400 | 800 |
| 1600 ⁽³⁾ | | | | ES2078BK | | | | | | | | | | 2xZN8000 | |
| 400 | 1000 | | ES2040K | | | | | | | | | | | ZN4000 | ZN1000 |
| 600 | | | ES2060K | | ES2060VK | | | | | ES2060MFK | - | 600 | | ZN6000 | |
| 800 | | | ES2080K | | ES2080VK | | | | | ES2080MF2K | 200 | 600 | ES2080MFK | - | 800 |
| 1000 | | | ES2000K | ES2010BK | ES2000VK | | | | | ES2000MF4K | 400 | 600 | ES2000MF2K | 200 | 800 |

⁽¹⁾ The useful height is always 100mm less than the external dimension of the enclosure. For the version with compartments, the useful height is 200mm less.

⁽²⁾ Implies mounting the intermediate upright EM1801. The doors have overlapping closure on the intermediate upright (removable) fixed onto the crosspieces mounted in depth.

⁽³⁾ Also available with double blind doors with closing on intermediate upright (eliminate the suffix B from the code).

⁽⁴⁾ Standard plate joining kit: EA1800 (H=1800mm); EA2000 (H=2000mm); EA2200 (H=2200mm). Possibility of lateral insertion with tracks (see pag. 5/60).

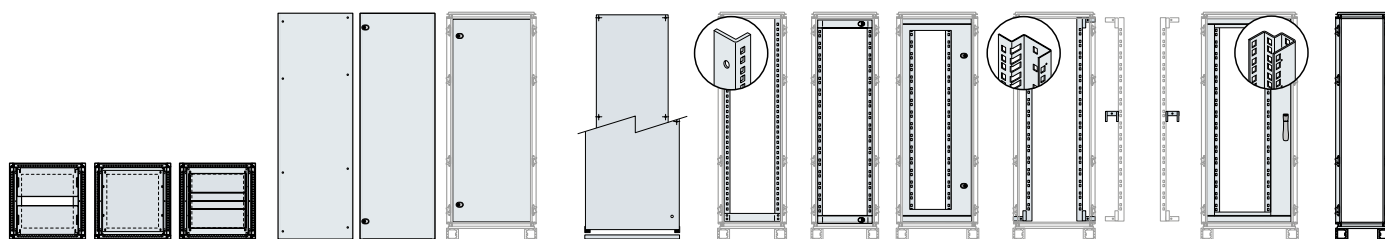
⁽⁵⁾ EA2113 oversized plate joining kit H=1800/2000/2200mm.

⁽⁶⁾ Kit consisting of 2 oversized back plates with relative insertion tracks + plate joining kit.

⁽⁷⁾ In case of structures with internal cable container, select the correct rack frame which takes into account the W=200 or W=400mm of the cable container; and leaves W=600mm or W=800mm structure compartment.

⁽⁸⁾ W=1600mm enclosures are only available in pre-assembled version with blind door (with overlapping door or intermediate upright).

⁽⁹⁾ Examples of configuration and technical characteristics at page 5/114.



| Incoming cable flanges | | | Side covers | | Inner door | Back plates | | Rack frames 19" "L" shaped profile ⁽⁵⁾ | | | Rack frames 19" | | | External cable container |
|------------------------|----------|----------|-----------------------------------|----------------------------|------------|-------------------------|----------------------------------|---------------------------------------------------|-----------------------|-----------------------|----------------------------------------------|-----------------------------|-----------------------------------------|--------------------------|
| Sliding | Fixed | Modular | No. 2 Blind panel ⁽¹⁰⁾ | Side door with closing box | | Standard ⁽²⁾ | Oversize + tracks ⁽³⁾ | Fixed Centred | Swing Centred W=600mm | Decentralized W=800mm | Fixed ⁽⁶⁾ cranked shaped uprights | Optional central fixing kit | Swing ⁽⁶⁾ "C" shaped profile | W=300mm |
| EF4040 | EF4042 | EF4041 | EL2040K | EC2041K | | EA2040 | EA2140 | | | | | | | ER3041K |
| EF6040 | EF6043 | EF6041 | | | EE2060K | EA2060 | EA2161 | EG2000 | EG2001K | | EG2005+ EB6000 | EB0400 | | |
| EF8040 | EF8042 | EF8041 | | | EE2080K | EA2080 | EA2180 | EG2080 | | EG2003K | EG2005+ EB8000 | EB8001 + EB0400 | EG2004K+ EV0007 | |
| EF1040 | EF1042 | EF1041 | | | EE2010K | EA2010 | EA2110 | | | | | | | |
| 2xEF6040 | 2xEF6043 | 2xEF6041 | | | | EA2013 | EA2112 | | | | | | | |
| EF4050 | EF4052 | EF4051 | EL2050K | EC2051K | | EA2040 | EA2140 | | | | | | | ER3051K |
| EF6050 | EF6052 | EF6051 | | | EE2060K | EA2060 | EA2161 | EG2000 | EG2001K | | EG2005+ EB6000 | EB0500 | | |
| EF8050 | EF8052 | EF8051 | | | EE2080K | EA2080 | EA2180 | EG2080 | | EG2003K | EG2005+ EB8000 | EB8001 + EB0500 | EG2004K+ EV0007 | |
| EF1053 | EF1052 | EF1051 | | | EE2010K | EA2010 | EA2110 | | | | | | | |
| 2xEF6050 | 2xEF6052 | 2xEF6051 | | | | EA2013 | EA2112 | | | | | | | |
| 2xEF8050 | 2xEF8052 | 2xEF8051 | | | | EA2016 | EA2116 ⁽⁴⁾ | | | | | | | |
| EF4060 | EF4063 | EF4061 | EL2060K | EC2061K | | EA2040 | EA2140 | | | | | | | ER3061K |
| EF6060 | EF6062 | EF6061 | | | EE2060K | EA2060 | EA2161 | EG2000 | EG2001K | | EG2005+ EB6000 | EB0600 | | |
| EF8060 | EF8062 | EF8061 | | | EE2080K | EA2080 | EA2180 | EG2080 | | EG2003K | EG2005+ EB8000 | EB8001 + EB0600 | EG2004K+ EV0007 | |
| EF1060 | EF1062 | EF1061 | | | EE2010K | EA2010 | EA2110 | | | | | | | |
| 2xEF6060 | 2xEF6062 | 2xEF6061 | | | | EA2013 | EA2112 | | | | | | | |
| 2xEF8060 | 2xEF8062 | 2xEF8061 | | | | EA2016 | EA2116 ⁽⁴⁾ | | | | | | | |
| EF4080 | EF4082 | EF4081 | EL2080K | EC2081K | | EA2040 | EA2140 | | | | | | | ER3081K |
| EF6080 | EF6082 | EF6081 | | | EE2060K | EA2060 | EA2161 | EG2000 | EG2001K | | EG2005+ EB6000 | EB0800 | | |
| EF8080 | EF8082 | EF8081 | | | EE2080K | EA2080 | EA2180 | EG2080 | | EG2003K | EG2005+ EB8000 | EB8001 + EB0800 | EG2004K+ EV0007 | |
| EF1080 | EF1082 | EF1081 | | | EE2010K | EA2010 | EA2110 | | | | | | | |
| 2xEF6080 | 2xEF6082 | 2xEF6081 | | | | EA2013 | EA2112 | | | | | | | |
| 2xEF8080 | 2xEF8082 | 2xEF8081 | | | | EA2016 | EA2116 ⁽⁴⁾ | | | | | | | |
| EF4010 | EF4012 | EF4011 | EL2012K | EC2011K | | EA2040 | EA2140 | | | | | | | ER3011K |
| EF6010 | EF6012 | EF6011 | | | EE2060K | EA2060 | EA2161 | EG2000 | EG2001K | | EG2005+ EB6000 | EB1000 | | |
| EF8010 | EF8012 | EF8011 | | | | EA2080 | EA2180 | EG2080 | | EG2003K | EG2005+ EB8000 | EB8001 + EB1000 | EG2004K+ EV0007 | |
| EF1010 | EF1012 | EF1011 | | | EE2010K | EA2010 | EA2110 | | | | | | | |

⁽⁶⁾ Rack frame W=600mm needs fixing brackets EB6000 and for an optional central fixing order a couple of crosspieces EB... see page 5/66 according to switchboard depth. Accessories from page 5/86. Rack frame W=800mm needs fixing brackets EB8000 and for an optional central fixing order a couple of crosspieces EB... see page 5/66 according to switchboard depth. Moreover, fixing kits replacing brackets and crosspieces according to switchboard depth are available, codes on page 5/82. Accessories from page 5/86.

⁽⁸⁾ Only available for W=800mm (even in structures with cable container and W=800mm structure compartment). Order specific fixing kit EV0007.

⁽¹⁰⁾ Single side panel available on page 5/51.

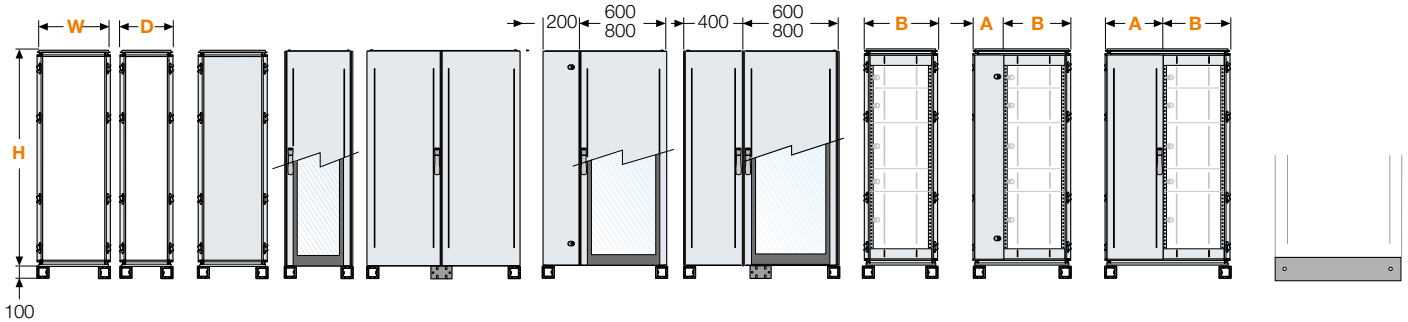
Kit for placing structures side by side EV0002/EV0003/EV0006 see page 5/72.

> Ordering codes page 5/30 > Examples of configuration page 5/114 > In-depth technical information page. 8/1 > Overall dimensions page 8/1

Pre-assembled IS2 Cabinets

Selection of the structure - H=2200 mm

Quick selection table



5

| External dimensions H=2200"mm | | Cabinet with door | | | Cabinet with cable container | | | | Cabinet with compartments ⁽⁷⁾ | | | | | | Flanges for plinth | | |
|-------------------------------|--------|-------------------|---------------------------------------------------|-------------------------|-----------------------------------------|-----------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|--------|-----|------------|--------|-----|--------------------|--------|--|
| W (mm) | D (mm) | Blind door | Double blind with overload closure ⁽¹⁾ | Glazed door | Blind door with cable container W=200mm | Blind door with cable container W=400mm | Glazed door with cable container W=200mm | Glazed door with cable container W=400mm | Width | | | Width | | | Front/ rear | Side | |
| | | | | | | | | | A (mm) | B (mm) | | A (mm) | B (mm) | | | | |
| 400 | 400 | ES2244K | | | | | | | | | | | | | ZN4000 | ZN4000 | |
| 600 | | ES2264K | | ES2264VK | | | | | ES2264MFK | - | 600 | | | | ZN6000 | | |
| 800 | | ES2284K | | ES2284VK | ES2284FV2K | | ES2284VC2K | | ES2284MF2K | 200 | 600 | ES2284MFK | - | 800 | ZN8000 | | |
| 1000 | | ES2204K | ES2214BK | ES2204VK | ES2204FV2K | ES2204FV4K | ES2204VC2K | ES2204VC4K | ES2204MF4K | 400 | 600 | ES2204MF2K | 200 | 800 | ZN1000 | | |
| 1200 | | | ES2224BK | ES2224VK ⁽⁷⁾ | | ES2224FV4K | | ES2224VC4K | | | | ES2224MF4K | 400 | 800 | 2xZN6000 | | |
| 400 | 500 | ES2245K | | | | | | | | | | | | | ZN4000 | ZN5000 | |
| 600 | | ES2265K | | ES2265VK | | | | | ES2265MFK | - | 600 | | | | ZN6000 | | |
| 800 | | ES2285K | | ES2285VK | ES2285FV2K | | ES2285VC2K | | ES2285MF2K | 200 | 600 | ES2285MFK | - | 800 | ZN8000 | | |
| 1000 | | ES2205K | ES2215BK | ES2205VK | ES2205FV2K | ES2205FV4K | ES2205VC2K | ES2205VC4K | ES2205MF4K | 400 | 600 | ES2205MF2K | 200 | 800 | ZN1000 | | |
| 1200 | | | ES2225BK | ES2225VK ⁽⁷⁾ | | ES2225FV4K | | ES2225VC4K | | | | ES2225MF4K | 400 | 800 | 2xZN6000 | | |
| 1600 ⁽⁸⁾ | | | ES2275BK | | | | | | | | | | | | 2xZN8000 | | |
| 400 | 600 | ES2246K | | | | | | | | | | | | | ZN4000 | ZN6000 | |
| 600 | | ES2266K | | ES2266VK | | | | | ES2266MFK | - | 600 | | | | ZN6000 | | |
| 800 | | ES2287K | | ES2286VK | ES2286FV2K | | ES2286VC2K | | ES2286MF2K | 200 | 600 | ES2286MFK | - | 800 | ZN8000 | | |
| 1000 | | ES2206K | ES2216BK | ES2206VK | ES2206FV2K | ES2206FV4K | ES2206VC2K | ES2206VC4K | ES2206MF4K | 400 | 600 | ES2206MF2K | 200 | 800 | ZN1000 | | |
| 1200 | | | ES2226BK | ES2226VK ⁽⁷⁾ | | ES2226FV4K | | ES2226VC4K | | | | ES2226MF4K | 400 | 800 | 2xZN6000 | | |
| 1600 ⁽⁸⁾ | | | ES2276BK | | | | | | | | | | | | 2xZN8000 | | |
| 400 | 800 | ES2248K | | | | | | | | | | | | | ZN4000 | ZN8000 | |
| 600 | | ES2268K | | ES2268VK | | | | | ES2268MFK | - | 600 | | | | ZN6000 | | |
| 800 | | ES2288K | | ES2288VK | ES2288FV2K | | ES2288VC2K | | ES2288MF2K | 200 | 600 | ES2288MFK | - | 800 | ZN8000 | | |
| 1000 | | ES2208K | ES2218BK | ES2208VK | ES2208FV2K | ES2208FV4K | ES2208VC2K | ES2208VC4K | ES2208MF4K | 400 | 600 | ES2208MF2K | 200 | 800 | ZN1000 | | |
| 1200 | | | ES2228BK | ES2228VK ⁽⁷⁾ | | ES2228FV4K | | ES2228VC4K | | | | ES2228MF4K | 400 | 800 | 2xZN6000 | | |
| 1600 ⁽⁸⁾ | | | | ES2279BK | | | | | | | | | | | 2xZN8000 | | |
| 400 | 1000 | ES2240K | | | | | | | | | | | | | ZN4000 | ZN1000 | |
| 600 | | ES2260K | | ES2260VK | | | | | ES2260MFK | - | 600 | | | | ZN6000 | | |
| 800 | | ES2280K | | ES2280VK | | | | | ES2281MF2K | 200 | 600 | ES2280MFK | - | 800 | ZN8000 | | |
| 1000 | | ES2200K | ES2210BK | ES2200VK | | | | | ES2200MF4K | 400 | 600 | ES2200MF2K | 200 | 800 | ZN1000 | | |

⁽⁷⁾ The useful height is always 100mm less than the external dimension of the enclosure. For the version with compartments, the useful height is 200mm less.

⁽⁷⁾ Implies mounting the intermediate upright EM1801. The doors have overlapping closure on the intermediate upright (removable) fixed onto the crosspieces mounted in depth.

⁽¹⁾ Also available with double blind doors with closing on intermediate upright (eliminate the suffix B from the code).

⁽²⁾ Standard plate joining kit: EA1800 (H=1800mm); EA2000 (H=2000mm); EA2200 (H=2200mm). Possibility of lateral insertion with tracks (see pag. 5/60).

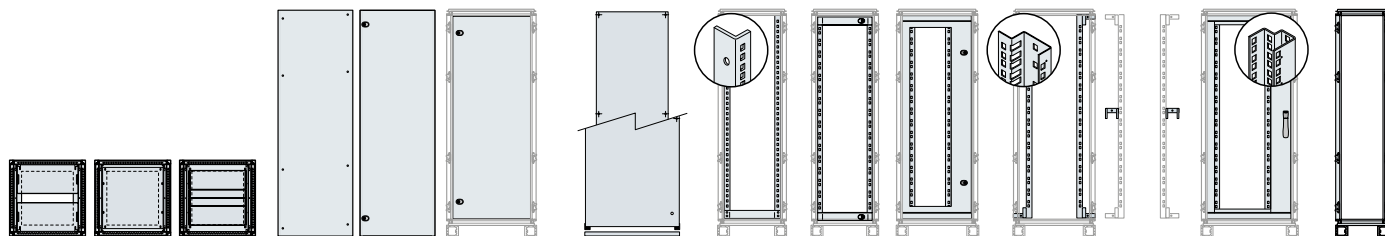
⁽³⁾ EA2113 oversized plate joining kit H=1800/2000/2200mm.

⁽⁴⁾ Kit consisting of 2 oversized back plates with relative insertion tracks + plate joining kit.

⁽⁵⁾ In case of structures with internal cable container, select the correct rack frame which takes into account the W=200 or W=400mm of the cable container; and leaves W=600mm or W=800mm structure compartment.

⁽⁶⁾ W=1600mm enclosures are only available in pre-assembled version with blind door (with overlapping door or intermediate upright).

⁽⁷⁾ Examples of configuration and technical characteristics at page 5/114.



| Incoming cable flanges | | | Side covers | | Inner door | Back plates | | Rack frames 19" "L" shaped profile ⁽⁸⁾ | | | Rack frames 19" | | | External cable container |
|------------------------|----------|----------|-----------------------------------|----------------------------|------------|-------------------------|----------------------------------|---------------------------------------------------|-----------------------|-----------------------|---------------------------------------------|-----------------------------|-----------------------------------------|--------------------------|
| Sliding | Fixed | Modular | No. 2 Blind panel ⁽¹⁰⁾ | Side door with closing box | | Standard ⁽²⁾ | Oversize + tracks ⁽³⁾ | Fixed Centred | Swing Centred W=600mm | Decentralized W=800mm | Fixed ⁽⁸⁾ cranked shape uprights | Optional central fixing kit | Swing ⁽⁸⁾ "C" shaped profile | W=300mm |
| EF4040 | EF4042 | EF4041 | EL2240K | EC2241K | | EA2240 | EA2340 | | | | | | | |
| EF6040 | EF6043 | EF6041 | | | EE2260K | EA2260 | EA2360 | EG2200 | EG2201K | | EG2205+ EB6000 | EB0400 | | ER3042K |
| EF8040 | EF8042 | EF8041 | | | EE2280K | EA2280 | EA2380 | EG2280 | | EG2203K | EG2205+ EB8000 | EB8001 + EB0400 | EG2204K+ EV0007 | |
| EF1040 | EF1042 | EF1041 | | | EE2210K | EA2210 | EA2310 | | | | | | | |
| 2xEF6040 | 2xEF6043 | 2xEF6041 | | | | EA2212 | EA2312 | | | | | | | |
| EF4050 | EF4052 | EF4051 | EL2250K | EC2251K | | EA2240 | EA2340 | | | | | | | ER3052K |
| EF6050 | EF6052 | EF6051 | | | EE2260K | EA2260 | EA2360 | EG2200 | EG2201K | | EG2205+ EB6000 | EB0500 | | |
| EF8050 | EF8052 | EF8051 | | | EE2280K | EA2280 | EA2380 | EG2280 | | EG2203K | EG2205+ EB8000 | EB8001 + EB0500 | EG2204K+ EV0007 | |
| EF1053 | EF1052 | EF1051 | | | EE2210K | EA2210 | EA2310 | | | | | | | |
| 2xEF6050 | 2xEF6052 | 2xEF6051 | | | | EA2212 | EA2312 | | | | | | | |
| 2xEF8050 | 2xEF8052 | 2xEF8051 | | | | EA2216 | EA2316 ⁽⁴⁾ | | | | | | | |
| EF4060 | EF4063 | EF4061 | EL2260K | EC2261K | | EA2240 | EA2340 | | | | | | | ER3062K |
| EF6060 | EF6062 | EF6061 | | | EE2260K | EA2260 | EA2360 | EG2200 | EG2201K | | EG2205+ EB6000 | EB0600 | | |
| EF8060 | EF8062 | EF8061 | | | EE2280K | EA2280 | EA2380 | EG2280 | | EG2203K | EG2205+ EB8000 | EB8001 + EB0600 | EG2204K+ EV0007 | |
| EF1060 | EF1062 | EF1061 | | | EE2210K | EA2210 | EA2310 | | | | | | | |
| 2xEF6060 | 2xEF6062 | 2xEF6061 | | | | EA2212 | EA2312 | | | | | | | |
| 2xEF8060 | 2xEF8062 | 2xEF8061 | | | | EA2216 | EA2316 ⁽⁴⁾ | | | | | | | |
| EF4080 | EF4082 | EF4081 | EL2280K | EC2281K | | EA2240 | EA2340 | | | | | | | ER3082K |
| EF6080 | EF6082 | EF6081 | | | EE2260K | EA2260 | EA2360 | EG2200 | EG2201K | | EG2205+ EB6000 | EB0800 | | |
| EF8080 | EF8082 | EF8081 | | | EE2280K | EA2280 | EA2380 | EG2280 | | EG2203K | EG2205+ EB8000 | EB8001 + EB0800 | EG2204K+ EV0007 | |
| EF1080 | EF1082 | EF1081 | | | EE2210K | EA2210 | EA2310 | | | | | | | |
| 2xEF6080 | 2xEF6082 | 2xEF6081 | | | | EA2212 | EA2312 | | | | | | | |
| 2xEF8080 | 2xEF8082 | 2xEF8081 | | | | EA2216 | EA2316 ⁽⁴⁾ | | | | | | | |
| EF4010 | EF4012 | EF4011 | EL2210K | EC2211K | | EA2240 | EA2340 | | | | | | | ER3012K |
| EF6010 | EF6012 | EF6011 | | | EE2260K | EA2260 | EA2360 | EG2200 | EG2201K | | EG2205+ EB6000 | EB1000 | | |
| EF8010 | EF8012 | EF8011 | | | | EA2280 | EA2380 | EG2280 | | EG2203K | EG2205+ EB8000 | EB8001 + EB1000 | EG2204K+ EV0007 | |
| EF1010 | EF1012 | EF1011 | | | EE2210K | EA2210 | EA2310 | | | | | | | |

⁽⁸⁾ Rack frame W=600mm needs fixing brackets EB6000 and for an optional central fixing order a couple of crosspieces EB... see page 5/66 according to switchboard depth. Accessories from page 5/86. Rack frame W=800mm needs fixing brackets EB8000 and for an optional central fixing order a couple of crosspieces EB... see page 5/66 according to switchboard depth. Moreover, fixing kits replacing brackets and crosspieces according to switchboard depth are available, codes on page 5/82. Accessories from page 5/86.

⁽⁹⁾ Only available for W=800mm (even in structures with cable container and W=800mm structure compartment). Order specific fixing kit EV0007.

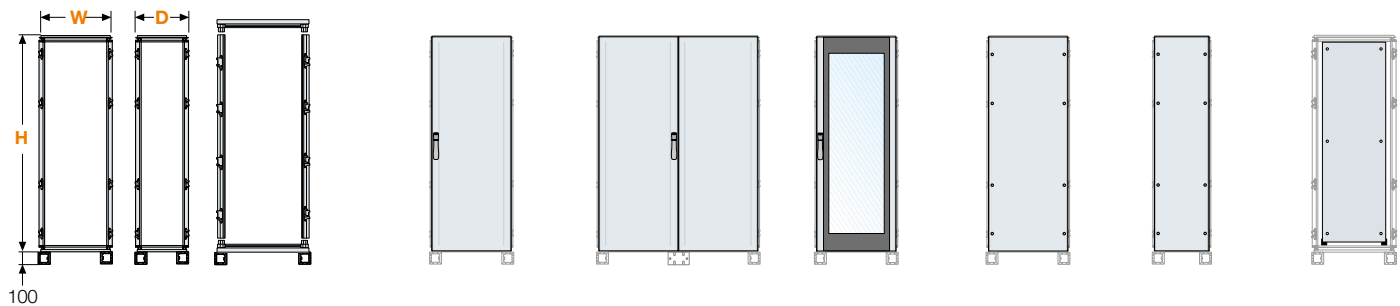
⁽¹⁰⁾ Single side panel available on page 5/51.

Kit for placing structures side by side EV0002/EV0003/EV0006 see page 5/72.

> Ordering codes page 5/30 > Examples of configuration page 5/114 > In-depth technical information page. 8/1 > Overall dimensions page 8/1

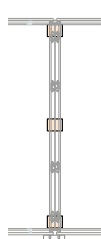
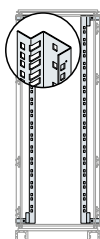
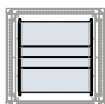
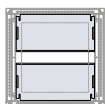
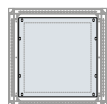
IS2 kit version cabinets

Selection of the structure - H=1400/1600mm NEW

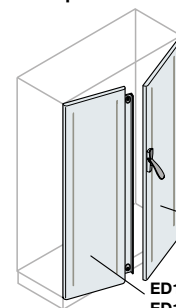


| External dimensions ⁽¹⁾ | | Base/ Top/ Plinth | Uprights For struc- ture | IP65 blind door | Blind doors for version with double door with overlapping closing | IP65 glass door | Rear panel | Side panel | Standard mounting plate |
|------------------------------------|-----------|-------------------------|--------------------------------|--------------------|----------------------------------------------------------------------------|--------------------|-----------------|-----------------|-------------------------------|
| W (mm) | D (mm) | | | | | | | | |
| Height 1400mm | | | | | | | | | |
| 400 | 400 | EK4040KN | EM1400 | EC1440K | - | - | EP1440K | EL1440K | EA1440 |
| 400 | 600 | EK4060KN | EM1400 | EC1440K | - | - | EP1440K | EL1460K | EA1440 |
| 400 | 800 | EK4080KN | EM1400 | EC1440K | - | - | EP1440K | EL1480K | EA1440 |
| 600 | 300 | 1STQ005324B0000 | EM1400 | EC1460K | - | 1STQ005328B0000 | EP1460K | 1STQ005322B0000 | EA1460 |
| 600 | 400 | EK6040KN | EM1400 | EC1460K | - | 1STQ005328B0000 | EP1460K | EL1440K | EA1460 |
| 600 | 500 | EK6050KN | EM1400 | EC1460K | - | 1STQ005328B0000 | EP1460K | 1STQ005323B0000 | EA1460 |
| 600 | 600 | EK6060KN | EM1400 | EC1460K | - | 1STQ005328B0000 | EP1460K | EL1460K | EA1460 |
| 600 | 800 | EK6080KN | EM1400 | EC1460K | - | 1STQ005328B0000 | EP1460K | EL1480K | EA1460 |
| 800 | 300 | 1STQ005318B0000 | EM1400 | EC1480K | - | 1STQ005329B0000 | EP1480K | 1STQ005322B0000 | EA1480 |
| 800 | 400 | EK8040KN | EM1400 | EC1480K | - | 1STQ005329B0000 | EP1480K | EL1440K | EA1480 |
| 800 | 500 | EK8050KN | EM1400 | EC1480K | - | 1STQ005329B0000 | EP1480K | 1STQ005323B0000 | EA1480 |
| 800 | 600 | EK8060KN | EM1400 | EC1480K | - | 1STQ005329B0000 | EP1480K | EL1460K | EA1480 |
| 800 | 800 | EK8080KN | EM1400 | EC1480K | - | 1STQ005329B0000 | EP1480K | EL1480K | EA1480 |
| 1000 | 300 | 1STQ005319B0000 | EM1400 | 1STQ005321B0000 | - | - | 1STQ005320B0000 | 1STQ005322B0000 | EA1411 |
| 1000 | 400 | EK1040KN | EM1400 | 1STQ005321B0000 | - | - | 1STQ005320B0000 | EL1440K | EA1411 |
| 1000 | 500 | EK1050KN | EM1400 | 1STQ005321B0000 | - | - | 1STQ005320B0000 | 1STQ005323B0000 | EA1411 |
| 1200 | 400 | EK1240KN | EM1400 | - | ED1412SK+ EC1480FC6K | - | EP1412K | EL1440K | EA1412 |
| 1200 | 500 | EK1250KN | EM1400 | - | ED1412SK+ EC1480FC6K | - | EP1412K | 1STQ005323B0000 | EA1412 |
| 1200 | 600 | EK1260KN | EM1400 | - | ED1412SK+ EC1480FC6K | - | EP1412K | EL1460K | EA1412 |
| 1200 | 800 | EK1280KN | EM1400 | - | ED1412SK+ EC1480FC6K | - | EP1412K | EL1480K | EA1412 |
| Height 1600mm | | | | | | | | | |
| 400 | 500 | EK4050KN | EM1600 | EC1640K | - | - | EP1640K | EL1650K | EA1640 |
| 400 | 600 | EK4060KN | EM1600 | EC1640K | - | - | EP1640K | EL1660K | EA1640 |
| 400 | 800 | EK4080KN | EM1600 | EC1640K | - | - | EP1640K | EL1680K | EA1640 |
| 400 | 1000 | EK4010KN | EM1600 | EC1640K | - | - | EP1640K | EL1610K | EA1640 |
| 600 | 300 | 1STQ005324B0000 | EM1600 | EC1660K | - | 1STQ005330B0000 | EP1660K | 1STQ005324B0000 | EA1616 |
| 600 | 400 | EK6040KN | EM1600 | EC1660K | - | 1STQ005330B0000 | EP1660K | 1STQ005325B0000 | EA1616 |
| 600 | 500 | EK6050KN | EM1600 | EC1660K | - | 1STQ005330B0000 | EP1660K | EL1650K | EA1616 |
| 600 | 600 | EK6060KN | EM1600 | EC1660K | - | 1STQ005330B0000 | EP1660K | EL1660K | EA1616 |
| 600 | 800 | EK6080KN | EM1600 | EC1660K | - | 1STQ005330B0000 | EP1660K | EL1680K | EA1616 |
| 600 | 1000 | EK6010KN | EM1600 | EC1660K | - | 1STQ005330B0000 | EP1660K | EL1610K | EA1616 |
| 800 | 300 | 1STQ005318B0000 | EM1600 | EC1680K | - | 1STQ005331B0000 | EP1680K | 1STQ005324B0000 | EA1619 |
| 800 | 400 | EK8040KN | EM1600 | EC1680K | - | 1STQ005331B0000 | EP1680K | 1STQ005325B0000 | EA1619 |
| 800 | 500 | EK8050KN | EM1600 | EC1680K | - | 1STQ005331B0000 | EP1680K | EL1650K | EA1619 |
| 800 | 600 | EK8060KN | EM1600 | EC1680K | - | 1STQ005331B0000 | EP1680K | EL1660K | EA1619 |
| 800 | 800 | EK8080KN | EM1600 | EC1680K | - | 1STQ005331B0000 | EP1680K | EL1680K | EA1619 |
| 800 | 1000 | EK8010KN | EM1600 | EC1680K | - | 1STQ005331B0000 | EP1680K | EL1610K | EA1619 |
| 1000 | 400 | EK1040KN | EM1600 | EC1610K | - | - | EP1610K | 1STQ005325B0000 | EA1610 |
| 1000 | 500 | EK1050KN | EM1600 | EC1610K | - | - | EP1610K | EL1650K | EA1610 |
| 1000 | 600 | EK1060KN | EM1600 | EC1610K | - | - | EP1610K | EL1660K | EA1610 |
| 1000 | 800 | EK1080KN | EM1600 | EC1610K | - | - | EP1610K | EL1680K | EA1610 |
| 1000 | 1000 | EK1010KN | EM1600 | EC1610K | - | - | EP1610K | EL1610K | EA1610 |
| 1200 | 400 | EK1240KN | EM1600 | - | ED1612SK+ EC1680FC6K | EC1680FC6K | EP1612K | 1STQ005325B0000 | EA1612 |
| 1200 | 500 | EK1250KN | EM1600 | - | ED1612SK+ EC1680FC6K | EC1680FC6K | EP1612K | EL1650K | EA1612 |
| 1200 | 600 | EK1260KN | EM1600 | - | ED1612SK+ EC1680FC6K | EC1680FC6K | EP1612K | EL1660K | EA1612 |
| 1200 | 800 | EK1280KN | EM1600 | - | ED1612SK+ EC1680FC6K | EC1680FC6K | EP1612K | EL1680K | EA1612 |

⁽¹⁾ The useful height is always 100mm less than the external dimension of the enclosure. For the version with compartments, the useful height is 200mm less.



Example of double door enclosure



EC1480FC6K
EC1680FC6K
ED1412SK
ED1612SK

Oversized
mounting
plate + rails

Fixed cable entry
flanges

Sliding cable
entry
flanges

Build-up cable
entry
flanges

Plinth flanges
front/rear

Plinth flanges
side

19" Fixed cranked shaped
uprights

Side-by-side
structure Kit

Oversized
platejoining Kit

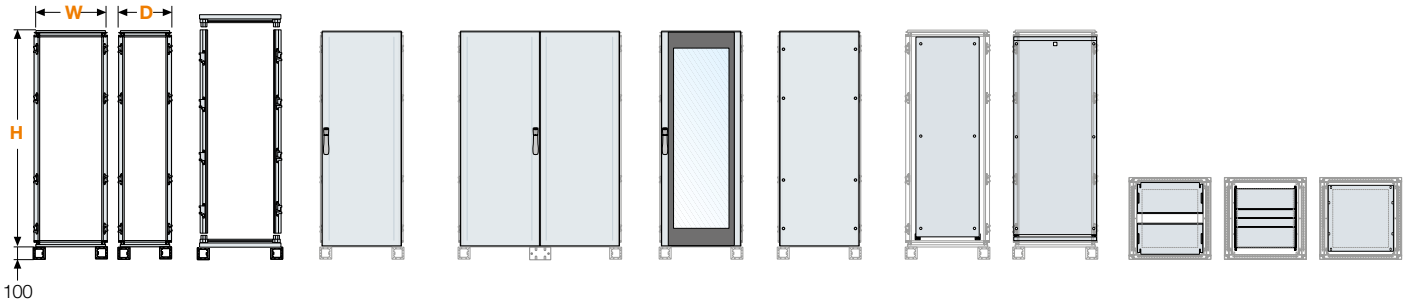
5

| | | | | | | | | |
|--------|-----------------|----------|----------|----------|--------|------------------------|----------------------------|--------|
| EA1540 | EF4042 | EF4040 | EF4041 | ZN4000 | ZN4000 | - | | |
| EA1540 | EF4063 | EF4060 | EF4061 | ZN4000 | ZN6000 | - | | |
| EA1540 | EF4082 | EF4080 | EF4081 | ZN4000 | ZN8000 | - | | |
| EA1560 | 1STQ005426B0000 | - | - | ZN6000 | ZN3000 | 1STQ005332B0000+EB6000 | | |
| EA1560 | EF6043 | EF6040 | EF6041 | ZN6000 | ZN4000 | 1STQ005332B0000+EB6000 | | |
| EA1560 | EF6052 | EF6050 | EF6051 | ZN6000 | ZN5000 | 1STQ005332B0000+EB6000 | | |
| EA1560 | EF6062 | EF6060 | EF6061 | ZN6000 | ZN6000 | 1STQ005332B0000+EB6000 | | |
| EA1560 | EF6082 | EF6080 | EF6081 | ZN6000 | ZN8000 | 1STQ005332B0000+EB6000 | | |
| EA1580 | 1STQ005427B0000 | - | - | ZN8000 | ZN3000 | 1STQ005332B0000+EB8000 | | |
| EA1580 | EF8042 | EF8040 | EF8041 | ZN8000 | ZN4000 | 1STQ005332B0000+EB8000 | EV0002 EV0003 EV0006 | EA2113 |
| EA1580 | EF8052 | EF8050 | EF8051 | ZN8000 | ZN5000 | 1STQ005332B0000+EB8000 | | |
| EA1580 | EF8062 | EF8060 | EF8061 | ZN8000 | ZN6000 | 1STQ005332B0000+EB8000 | | |
| EA1580 | EF8082 | EF8080 | EF8081 | ZN8000 | ZN8000 | 1STQ005332B0000+EB8000 | | |
| - | 1STQ005428B0000 | - | - | ZN1000 | ZN3000 | - | | |
| - | EF1042 | EF1040 | EF1041 | ZN1000 | ZN4000 | - | | |
| - | EF1052 | EF1053 | EF1051 | ZN1000 | ZN5000 | - | | |
| EA1512 | 2xEF6043 | 2xEF6040 | 2xEF6041 | 2xZN6000 | ZN4000 | - | | |
| EA1512 | 2xEF6052 | 2xEF6051 | 2xEF6051 | 2xZN6000 | ZN5000 | - | | |
| EA1512 | 2xEF6062 | 2xEF6060 | 2xEF6061 | 2xZN6000 | ZN6000 | - | | |
| EA1512 | 2xEF6082 | 2xEF6080 | 2xEF6081 | 2xZN6000 | ZN8000 | - | | |
| EA1740 | EF4052 | EF4050 | EF4051 | ZN4000 | ZN5000 | - | | |
| EA1740 | EF4063 | EF4060 | EF4061 | ZN4000 | ZN6000 | - | | |
| EA1740 | EF4082 | EF4080 | EF4081 | ZN4000 | ZN8000 | - | | |
| EA1740 | EF4082 | EF4080 | EF4081 | ZN4000 | ZN1000 | - | | |
| EA1760 | 1STQ005426B0000 | - | - | ZN6000 | ZN3000 | 1STQ005333B0000+EB6000 | | |
| EA1760 | EF6043 | EF6040 | EF6041 | ZN6000 | ZN4000 | 1STQ005333B0000+EB6000 | | |
| EA1760 | EF6052 | EF6050 | EF6051 | ZN6000 | ZN5000 | 1STQ005333B0000+EB6000 | | |
| EA1760 | EF6062 | EF6060 | EF6061 | ZN6000 | ZN6000 | 1STQ005333B0000+EB6000 | | |
| EA1760 | EF6082 | EF6080 | EF6081 | ZN6000 | ZN8000 | 1STQ005333B0000+EB6000 | | |
| EA1760 | EF6082 | EF6080 | EF6081 | ZN6000 | ZN1000 | 1STQ005333B0000+EB6000 | | |
| EA1780 | 1STQ005427B0000 | - | - | ZN8000 | ZN3000 | 1STQ005333B0000+EB8000 | | |
| EA1780 | EF8042 | EF8040 | EF8041 | ZN8000 | ZN4000 | 1STQ005333B0000+EB8000 | EV0002 EV0003 EV0006 | EA2113 |
| EA1780 | EF8052 | EF8050 | EF8051 | ZN8000 | ZN5000 | 1STQ005333B0000+EB8000 | | |
| EA1780 | EF8062 | EF8060 | EF8061 | ZN8000 | ZN6000 | 1STQ005333B0000+EB8000 | | |
| EA1780 | EF8082 | EF8080 | EF8081 | ZN8000 | ZN8000 | 1STQ005333B0000+EB8000 | | |
| EA1780 | EF8082 | EF8080 | EF8081 | ZN8000 | ZN1000 | 1STQ005333B0000+EB8000 | | |
| EA1710 | EF1042 | EF1040 | EF1041 | ZN1000 | ZN4000 | - | | |
| EA1710 | EF1052 | EF1053 | EF1051 | ZN1000 | ZN5000 | - | | |
| EA1710 | EF1062 | EF1060 | EF1061 | ZN1000 | ZN6000 | - | | |
| EA1710 | EF1062 | EF1060 | EF1061 | ZN1000 | ZN8000 | - | | |
| EA1710 | EF1082 | EF1080 | EF1081 | ZN1000 | ZN1000 | - | | |
| EA1712 | 2xEF6043 | 2xEF6040 | 2xEF6041 | 2xZN6000 | ZN4000 | - | | |
| EA1712 | 2xEF6052 | 2xEF6051 | 2xEF6051 | 2xZN6000 | ZN5000 | - | | |
| EA1712 | 2xEF6062 | 2xEF6060 | 2xEF6061 | 2xZN6000 | ZN6000 | - | | |
| EA1712 | 2xEF6082 | 2xEF6080 | 2xEF6081 | 2xZN6000 | ZN8000 | - | | |

IS2 kit version cabinets

Selection of the structure - H=1800 mm

Quick selection table



| Overall dimensions H=1800mm ⁽¹⁾ | | Base/ Top/ Plinth | Uprights For structure | Front/rear covers | | | | Back plates | | Incoming cable flanges | | |
|-----------------------------------------------|-----------|-------------------------|------------------------------|--------------------|----------------------------------------------------------------------------------------|---------------------|---------------------|-------------|--------------------------|------------------------|-----------|----------|
| W (mm) | D (mm) | | | IP65 blind door | Blind doors for version with double door with overlapping closing ⁽¹⁾ | IP65 Glazed door | IP65 Blind panel | Standard | Oversized + tracks | Sliding | Removable | Fixed |
| 400 | 400 | EK4040KN | EM1800 | EC1840K | - | - | EP1840K | EA1841 | EA1940 | EF4040 | EF4041 | EF4042 |
| 600 | | EK6040KN | | EC1860K | - | ET1860K | EP1860K | EA1860 | EA1960 | EF6040 | EF6041 | EF6043 |
| 800 | | EK8040KN | | EC1880K | ED1804SK+ EC1880VC4K | ET1880K | EP1880K | EA1880 | EA1981 | EF8040 | EF8041 | EF8042 |
| 1000 | | EK1040KN | | EC1810K | ED1810SK+ EC1880FC5K | ET1810K | EP1811K | EA1810 | EA1910 | EF1040 | EF1041 | EF1042 |
| 1200 | | EK1240KN | | - | ED1812SK+ EC1880FC6K | - | EP1812K | EA1812 | EA1912 | 2xEF6040 | 2xEF6041 | 2xEF6043 |
| 400 | 500 | EK4050KN | EM1800 | EC1840K | - | - | EP1840K | EA1841 | EA1940 | EF4050 | EF4051 | EF4052 |
| 600 | | EK6050KN | | EC1860K | - | ET1860K | EP1860K | EA1860 | EA1960 | EF6050 | EF6051 | EF6052 |
| 800 | | EK8050KN | | EC1880K | ED1804SK+ EC1880VC4K | ET1880K | EP1880K | EA1880 | EA1981 | EF8050 | EF8051 | EF8052 |
| 1000 | | EK1050KN | | EC1810K | ED1810SK+ EC1880FC5K | ET1810K | EP1811K | EA1810 | EA1910 | EF1053 | EF1051 | EF1052 |
| 1200 | | EK1250KN | | - | ED1812SK+ EC1880FC6K | - | EP1812K | EA1812 | EA1912 | 2xEF6051 | 2xEF6051 | 2xEF6052 |
| 400 | 600 | EK4060KN | EM1800 | EC1840K | - | - | EP1840K | EA1841 | EA1940 | EF4060 | EF4061 | EF4063 |
| 600 | | EK6060KN | | EC1860K | - | ET1860K | EP1860K | EA1860 | EA1960 | EF6060 | EF6061 | EF6062 |
| 800 | | EK8060KN | | EC1880K | ED1804SK+ EC1880VC4K | ET1880K | EP1880K | EA1880 | EA1981 | EF8060 | EF8061 | EF8062 |
| 1000 | | EK1060KN | | EC1810K | ED1810SK+ EC1880FC5K | ET1810K | EP1811K | EA1810 | EA1910 | EF1060 | EF1061 | EF1062 |
| 1200 | | EK1260KN | | - | ED1812SK+ EC1880FC6K | - | EP1812K | EA1812 | EA1912 | 2xEF6060 | 2xEF6061 | 2xEF6062 |
| 400 | 800 | EK4080KN | EM1800 | EC1840K | - | - | EP1840K | EA1841 | EA1940 | EF4080 | EF4081 | EF4082 |
| 600 | | EK6080KN | | EC1860K | - | ET1860K | EP1860K | EA1860 | EA1960 | EF6080 | EF6081 | EF6082 |
| 800 | | EK8080KN | | EC1880K | ED1804SK+ EC1880VC4K | ET1880K | EP1880K | EA1880 | EA1981 | EF8080 | EF8081 | EF8082 |
| 1000 | | EK1080KN | | EC1810K | ED1810SK+ EC1880FC5K | ET1810K | EP1811K | EA1810 | EA1910 | EF1080 | EF1081 | EF1082 |
| 1200 | | EK1280KN | | - | ED1812SK+ EC1880FC6K | - | EP1812K | EA1812 | EA1912 | 2xEF6080 | 2xEF6081 | 2xEF6082 |
| 400 | 1000 | EK4010KN | EM1800 | EC1840K | - | - | EP1840K | EA1841 | EA1940 | EF4010 | EF4011 | EF4012 |
| 600 | | EK6010KN | | EC1860K | - | ET1860K | EP1860K | EA1860 | EA1960 | EF6010 | EF6011 | EF6012 |
| 800 | | EK8010KN | | EC1880K | ED1804SK+ EC1880VC4K | ET1880K | EP1880K | EA1880 | EA1981 | EF8010 | EF8011 | EF8012 |
| 1000 | | EK1010KN | | EC1810K | ED1810SK+ EC1880FC5K | ET1810K | EP1811K | EA1810 | EA1910 | EF1010 | EF1011 | EF1012 |

⁽¹⁾ The useful height is always 100mm less than the external dimension of the enclosure. For the version with compartments, the useful height is 200mm less.

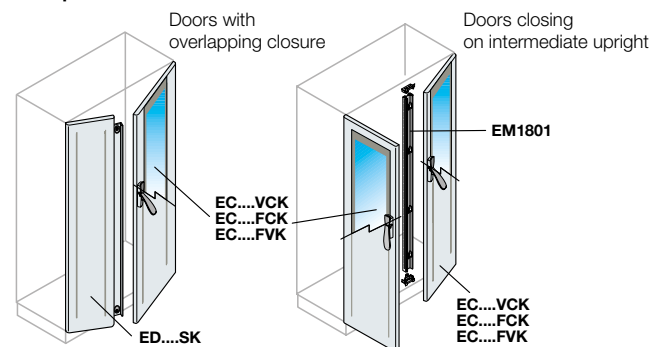
For versions with compartments see page 5/76, for modular versions see page 5/78.

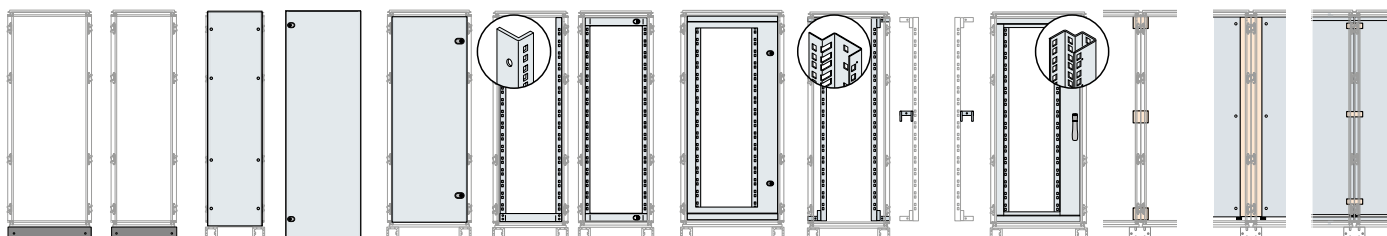
⁽¹⁾ Double blind doors with intermediate upright EM1801, double glass doors with intermediate upright EM1801, and combinations of structures with internal cable container W=200/400mm available (see pag. 5/28, 5/29, 5/50 and 5/51).

⁽²⁾ In the case of structures with internal cable container, select the correct rack frame which takes into account the 200/400mm of the cable container. For the new rack 19" and relative accessories see page 5/82.

W=1600mm enclosures are only available in pre-assembled version with blind door (with overlapping door or intermediate upright).

Example of double door enclosure





| | Plinth flanges | | Sides covers | | | Rack frames 19" "L" shaped profile ⁽²⁾ | | | Rack frames 19" | | | | | | |
|--|--------------------|--------|----------------------------|----------------------------------|------------|---------------------------------------------------|-----------------------------|--------------------------|----------------------------------------------|----------------------------------|----------------------------------------------|----------------------------------|----------------------------------|-----------------------------------|--|
| | Front/ rear | Side | Pair of blind panels | Side door with closing box | Inner door | Fixed Centred | Swing Centred W=600mm | Decentralized W=800mm | Fixed ⁽³⁾ Frame+ Fixing kit | Optional cen- tral fixing kit | Swing ⁽⁴⁾ Frame+ Fixing kit | Side-by-side structure Kit | Standard plate joining Kit | Oversized plate joining Kit | |
| | ZN4000 | ZN4000 | EL1840K | EC1841K | - | - | - | - | EG1805+ EB6000 | EB0400 | | EV0002 EV0003 EV0006 | EA1800 | EA2113 | |
| | ZN6000 | | | | EE1860K | EG1800 | EG1801K | - | EG1805+ EB6000 | EB0400 | | | | | |
| | ZN8000 | | | | EE1880K | EG1880 | - | EG1803K | EG1805+ EB8000 | EB8001 + EB0400 | EG1804K+ EV0007 | | | | |
| | ZN1000 2xZN6000 | | | | EE1810K | - | - | - | | | | | | | |
| | ZN4000 | ZN5000 | EL1850K | EC1851K | - | - | - | - | | | | EV0002 EV0003 EV0006 | | | |
| | ZN6000 | | | | EE1860K | EG1800 | EG1801K | - | EG1805+ EB6000 | EB0500 | | | | | |
| | ZN8000 | | | | EE1880K | EG1880 | - | EG1803K | EG1805+ EB8000 | EB8001 + EB0500 | EG1804K+ EV0007 | | | | |
| | ZN1000 2xZN6000 | | | | EE1810K | - | - | - | | | | | | | |
| | ZN4000 | ZN6000 | EL1860K | EC1861K | - | - | - | - | | | | EV0002 EV0003 EV0006 | | | |
| | ZN6000 | | | | EC1861K | EG1800 | EG1801K | - | EG1805+ EB6000 | EB0600 | | | | | |
| | ZN8000 | | | | EE1880K | EG1880 | - | EG1803K | EG1805+ EB8000 | EB8001 + EB0600 | EG1804K+ EV0007 | | | | |
| | ZN1000 2xZN6000 | | | | EE1810K | - | - | - | | | | | | | |
| | ZN4000 | ZN8000 | EL1880K | EC1881K | - | - | - | - | | | | EV0002 EV0003 EV0006 | | | |
| | ZN6000 | | | | EE1860K | EG1800 | EG1801K | - | EG1805+ EB6000 | EB0800 | | | | | |
| | ZN8000 | | | | EC1881K | EG1880 | - | EG1803K | EG1805+ EB8000 | EB8001 + EB0800 | EG1804K+ EV0007 | | | | |
| | ZN1000 2xZN6000 | | | | EE1810K | - | - | - | | | | | | | |
| | ZN4000 | ZN1000 | EL1810K | EC1811K | - | - | - | - | | | | EV0002 EV0003 EV0006 | | | |
| | ZN6000 | | | | EE1860K | EG1800 | EG1801K | - | EG1805+ EB6000 | EB1000 | | | | | |
| | ZN8000 | | | | EE1880K | EG1880 | - | EG1803K | EG1805+ EB8000 | EB8001 + EB1000 | EG1804K+ EV0007 | | | | |
| | ZN1000 | | | | EC1811K | - | - | - | | | | | | | |

⁽²⁾ Rack frame W=600mm needs fixing brackets EB6000 and for an optional central fixing order a couple of crosspieces EB... see page 5/67 according to switchboard depth. Accessories from page 5/85. Rack frame W=800mm needs fixing brackets EB8000 and for an optional central fixing order a couple of crosspieces EB... see page 5/67 according to switchboard depth. Moreover, fixing kits replacing brackets and crosspieces according to switchboard depth are available, codes on page 5/84. Accessories from page 5/86.

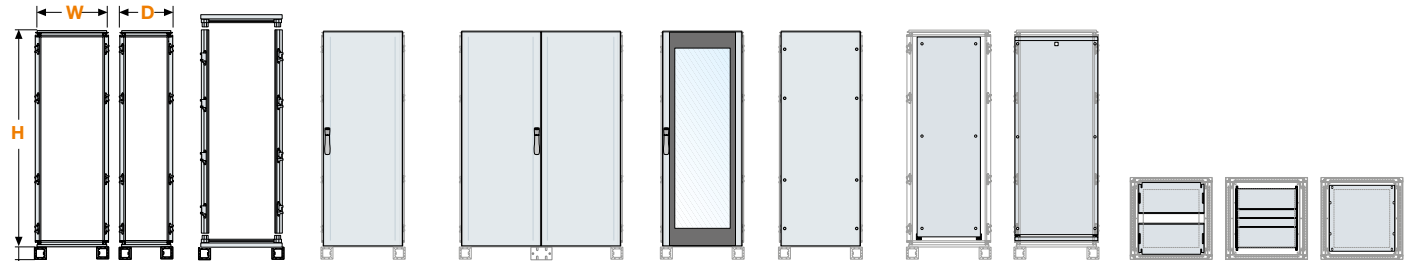
⁽⁴⁾ Only available for W=800mm (even in structures with cable container with W=800mm available structure compartment). Order specific fixing kit EV0007.

Kit for placing structures side by side EV0002/EV0003/EV0006 see page 5/74.

IS2 kit version cabinets

Selection of the structure - H=2000 mm

Quick selection table



100

5

| Overall dimensions H=2000mm ⁽¹⁾ | | Base/ Top/ Plinth | Uprights For structure | Front/rear covers | | | Back plates | | | Incoming cable flanges | | |
|-----------------------------------------------|-----------|-------------------------|------------------------------|--------------------|----------------------------------------------------------------------------------------|---------------------|---------------------|----------|--------------------------|------------------------|-----------|----------|
| W (mm) | D (mm) | | | IP65 blind door | Blind doors for version with double door with overlapping closing ⁽¹⁾ | IP65 Glazed door | IP65 Blind panel | Standard | Oversized + tracks | Sliding | Removable | Fixed |
| 400 | 400 | EK4040KN | EM2000 | EC2040K | - | - | EP2041K | EA2040 | EA2140 | EF4040 | EF4041 | EF4042 |
| 600 | | EK6040KN | | EC2060K | - | ET2060K | EP2060K | EA2060 | EA2161 | EF6040 | EF6041 | EF6043 |
| 800 | | EK8040KN | | EC2080K | ED2004SK+ EC2080VC4K | ET2080K | EP2080K | EA2080 | EA2180 | EF8040 | EF8041 | EF8042 |
| 1000 | | EK1040KN | | EC2012K | ED2010SK+ EC2080FC5K | ET2010K | EP2010K | EA2010 | EA2110 | EF1040 | EF1041 | EF1042 |
| 1200 | | EK1240KN | | - | ED2012SK+ EC2080FC6K | - | EP2012K | EA2013 | EA2112 | 2xEF6040 | 2xEF6041 | 2xEF6043 |
| 400 | 500 | EK4050KN | | EC2040K | - | - | EP2041K | EA2040 | EA2140 | EF4050 | EF4051 | EF4052 |
| 600 | | EK6050KN | | EC2060K | - | ET2060K | EP2060K | EA2060 | EA2161 | EF6050 | EF6051 | EF6052 |
| 800 | | EK8050KN | | EC2080K | ED2004SK+ EC2080VC4K | ET2080K | EP2080K | EA2080 | EA2180 | EF8050 | EF8051 | EF8052 |
| 1000 | | EK1050KN | | EC2012K | ED2010SK+ EC2080FC5K | ET2010K | EP2010K | EA2010 | EA2110 | EF1053 | EF1051 | EF1052 |
| 1200 | | EK1250KN | | - | ED2012SK+ EC2080FC6K | - | EP2012K | EA2013 | EA2112 | 2xEF6051 | 2xEF6051 | 2xEF6052 |
| 400 | 600 | EK4060KN | | EC2040K | - | - | EP2041K | EA2040 | EA2140 | EF4060 | EF4061 | EF4063 |
| 600 | | EK6060KN | | EC2060K | - | ET2060K | EP2060K | EA2060 | EA2161 | EF6060 | EF6061 | EF6062 |
| 800 | | EK8060KN | | EC2080K | ED2004SK+ EC2080VC4K | ET2080K | EP2080K | EA2080 | EA2180 | EF8060 | EF8061 | EF8062 |
| 1000 | | EK1060KN | | EC2012K | ED2010SK+ EC2080FC5K | ET2010K | EP2010K | EA2010 | EA2110 | EF1060 | EF1061 | EF1062 |
| 1200 | | EK1260KN | | - | ED2012SK+ EC2080FC6K | - | EP2012K | EA2013 | EA2112 | 2xEF6060 | 2xEF6061 | 2xEF6062 |
| 400 | 800 | EK4080KN | | EC2040K | - | - | EP2041K | EA2040 | EA2140 | EF4080 | EF4081 | EF4082 |
| 600 | | EK6080KN | | EC2060K | - | ET2060K | EP2060K | EA2060 | EA2161 | EF6080 | EF6081 | EF6082 |
| 800 | | EK8080KN | | EC2080K | ED2004SK+ EC2080VC4K | ET2080K | EP2080K | EA2080 | EA2180 | EF8080 | EF8081 | EF8082 |
| 1000 | | EK1080KN | | EC2012K | ED2010SK+ EC2080FC5K | ET2010K | EP2010K | EA2010 | EA2110 | EF1080 | EF1081 | EF1082 |
| 1200 | | EK1280KN | | - | ED2012SK+ EC2080FC6K | - | EP2012K | EA2013 | EA2112 | 2xEF6080 | 2xEF6081 | 2xEF6082 |
| 400 | 1000 | EK4010KN | | EC2040K | - | - | EP2041K | EA2040 | EA2140 | EF4010 | EF4011 | EF4012 |
| 600 | | EK6010KN | | EC2060K | - | ET2060K | EP2060K | EA2060 | EA2161 | EF6010 | EF6011 | EF6012 |
| 800 | | EK8010KN | | EC2080K | ED2004SK+ EC2080VC4K | ET2080K | EP2080K | EA2080 | EA2180 | EF8010 | EF8011 | EF8012 |
| 1000 | | EK1010KN | | EC2012K | ED2010SK+ EC2080FC5K | ET2010K | EP2010K | EA2010 | EA2110 | EF1010 | EF1011 | EF1012 |

⁽¹⁾ The useful height is always 100mm less than the external dimension of the enclosure. For the version with compartments, the useful height is 200mm less.

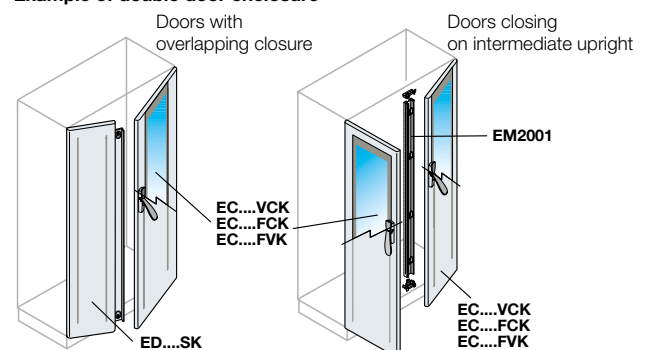
For versions with compartments see page 5/76, for modular versions see page 5/78.

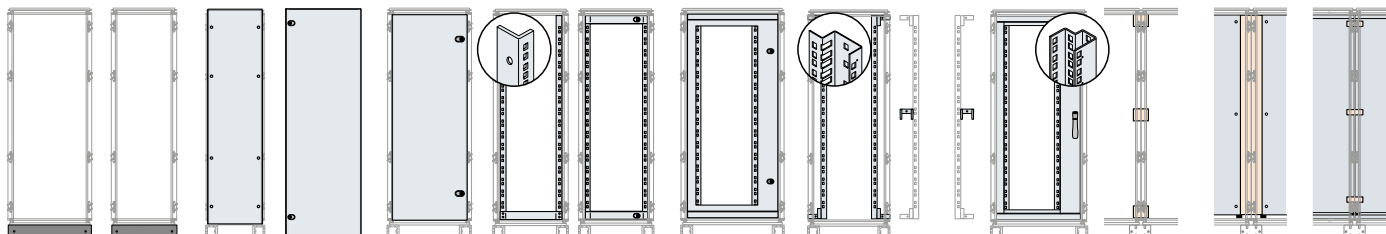
⁽¹⁾ Double blind doors with intermediate upright EM1801, double glass doors with intermediate upright EM1801, and combinations of structures with internal cable container W=200/400mm available (see pag. 5/28, 5/29, 5/50 and 5/51).

⁽²⁾ In the case of structures with internal cable container, select the correct rack frame which takes into account the 200/400mm of the cable container. For the new rack 19" and relative accessories see page 5/82.

W=1600mm enclosures are only available in pre-assembled version with blind door (with overlapping door or intermediate upright).

Example of double door enclosure





| Plinth flanges | | Sides covers ⁽²⁾ | | Inner door | Rack frames 19" "L" shaped profile ⁽³⁾ | | | Rack frames 19" | | | Side-by-side structure Kit | Standard plate joining Kit | Oversized plate joining Kit |
|----------------|--------|-----------------------------|----------------------------|------------|---------------------------------------------------|-----------------------|-----------------------|----------------------------------------|-----------------------------|----------------------------------------|----------------------------|----------------------------|-----------------------------|
| Front/rear | Side | Pair of blind panels | Side door with closing box | | Fixed Centred | Swing Centred W=600mm | Decentralized W=800mm | Fixed ⁽⁴⁾ Frame+ Fixing kit | Optional central fixing kit | Swing ⁽⁵⁾ Frame+ Fixing kit | | | |
| ZN4000 | ZN4000 | EL2040K | EC2041K | - | - | - | - | - | - | - | EV0002 EV0003 EV0006 | | |
| ZN6000 | | | | EE2060K | EG2000 | EG2001K | - | EG2005+ EB6000 | EB0400 | - | | | |
| ZN8000 | | | | EE2080K | EG2080 | - | EG2003K | EG2005+ EB8000 | EB8001 + EB0400 | EG2004K+ EV0007 | | | |
| ZN1000 | | | | EE2010K | - | - | - | - | - | - | | | |
| 2xZN6000 | | | | - | - | - | - | - | - | - | | | |
| ZN4000 | ZN5000 | EL2050K | EC2051K | - | - | - | - | - | - | - | EV0002 EV0003 EV0006 | | |
| ZN6000 | | | | EE2060K | EG2000 | EG2001K | - | EG2005+ EB6000 | EB0500 | - | | | |
| ZN8000 | | | | EE2080K | EG2080 | - | EG2003K | EG2005+ EB8000 | EB8001 + EB0500 | EG2004K+ EV0007 | | | |
| ZN1000 | | | | EE2010K | - | - | - | - | - | - | | | |
| 2xZN6000 | | | | - | - | - | - | - | - | - | | | |
| ZN4000 | ZN6000 | EL2060K | EC2061K | - | - | - | - | - | - | - | EV0002 EV0003 EV0006 | EA2000 | EA2113 |
| ZN6000 | | | | EE2060K | EG2000 | EG2001K | - | EG2005+ EB6000 | EB0600 | - | | | |
| ZN8000 | | | | EE2080K | EG2080 | - | EG2003K | EG2005+ EB8000 | EB8001 + EB0600 | EG2004K+ EV0007 | | | |
| ZN1000 | | | | EE2010K | - | - | - | - | - | - | | | |
| 2xZN6000 | | | | - | - | - | - | - | - | - | | | |
| ZN4000 | ZN8000 | EL2080K | EC2081K | - | - | - | - | - | - | - | EV0002 EV0003 EV0006 | | |
| ZN6000 | | | | EE2060K | EG2000 | EG2001K | - | EG2005+ EB6000 | EB0800 | - | | | |
| ZN8000 | | | | EE2080K | EG2080 | - | EG2003K | EG2005+ EB8000 | EB8001 + EB0800 | EG2004K+ EV0007 | | | |
| ZN1000 | | | | EE2010K | - | - | - | - | - | - | | | |
| 2xZN6000 | | | | - | - | - | - | - | - | - | | | |
| ZN4000 | ZN1000 | EL2012K | EC2011K | - | - | - | - | - | - | - | EV0002 EV0003 EV0006 | | |
| ZN6000 | | | | EE2060K | EG2000 | EG2001K | - | EG2005+ EB6000 | EB1000 | - | | | |
| ZN8000 | | | | EE2080K | EG2080 | - | EG2003K | EG2005+ EB8000 | EB8001 + EB1000 | EG2004K+ EV0007 | | | |
| ZN1000 | | | | EE2010K | - | - | - | - | - | - | | | |

⁽³⁾ Rack frame W=600mm needs fixing brackets EB6000 and for an optional central fixing order a couple of crosspieces EB... see page 5/67 according to switchboard depth. Accessories from page 5/85. Rack frame W=800mm needs fixing brackets EB8000 and for an optional central fixing order a couple of crosspieces EB... see page 5/67 according to switchboard depth. Moreover, fixing kits replacing brackets and crosspieces according to switchboard depth are available, codes on page 5/84. Accessories from page 5/86.

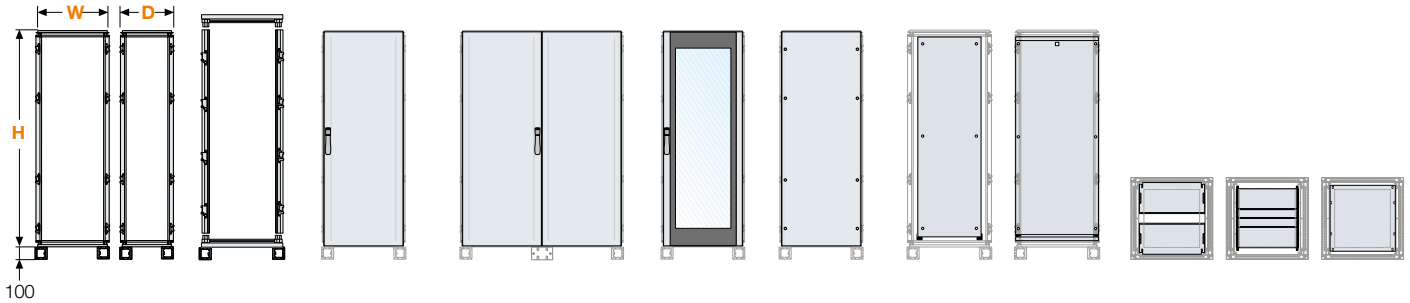
⁽⁴⁾ Only available for W=800mm (even in structures with cable container with W=800mm available structure compartment). Order specific fixing kit EV0007.

Kit for placing structures side by side EV0002/EV0003/EV0006 see page 5/74.

IS2 kit version cabinets

Selection of the structure - H=2200 mm

Quick selection table



5

| Overall dimensions H=2200mm ^(*) | | Base/ Top/ Plinth | Uprights For structure | Front/rear covers | | | | Back plates | | Incoming cable flanges | | | |
|-----------------------------------------------|-----------|-------------------------|------------------------------|--------------------|----------------------------------------------------------------------------------------|---------------------|---------------------|-------------|--------------------------|------------------------|-----------|----------|--|
| W (mm) | D (mm) | | | IP65 blind door | Blind doors for version with double door with overlapping closing ^(†) | IP65 Glazed door | IP65 Blind panel | Standard | Oversized + tracks | Sliding | Removable | Fixed | |
| 400 | 400 | EK4040KN | EM2200 | EC2240K | - | - | EP2240K | EA2240 | EA2340 | EF4040 | EF4041 | EF4042 | |
| 600 | | EK6040KN | | EC2260K | - | ET2260K | EP2260K | EA2260 | EA2360 | EF6040 | EF6041 | EF6043 | |
| 800 | | EK8040KN | | EC2280K | ED2204SK+ EC2280VC4K | ET2280K | EP2280K | EA2280 | EA2380 | EF8040 | EF8041 | EF8042 | |
| 1000 | | EK1040KN | | EC2210K | ED2210SK+ EC2280FC5K | ET2211K | EP2210K | EA2210 | EA2310 | EF1040 | EF1041 | EF1042 | |
| 1200 | | EK1240KN | | - | ED2212SK+ EC2280FC6K | - | EP2212K | EA2212 | EA2312 | 2xEF6040 | 2xEF6041 | 2xEF6043 | |
| 400 | 500 | EK4050KN | | EC2240K | - | - | EP2240K | EA2240 | EA2340 | EF4050 | EF4051 | EF4052 | |
| 600 | | EK6050KN | | EC2260K | - | ET2260K | EP2260K | EA2260 | EA2360 | EF6050 | EF6051 | EF6052 | |
| 800 | | EK8050KN | | EC2280K | ED2204SK+ EC2280VC4K | ET2280K | EP2280K | EA2280 | EA2380 | EF8050 | EF8051 | EF8052 | |
| 1000 | | EK1050KN | | EC2210K | ED2210SK+ EC2280FC5K | ET2211K | EP2210K | EA2210 | EA2310 | EF1053 | EF1051 | EF1052 | |
| 1200 | | EK1250KN | | - | ED2212SK+ EC2280FC6K | - | EP2212K | EA2212 | EA2312 | 2xEF6050 | 2xEF6051 | 2xEF6052 | |
| 400 | 600 | EK4060KN | | EC2240K | - | - | EP2240K | EA2240 | EA2340 | EF4060 | EF4061 | EF4063 | |
| 600 | | EK6060KN | | EC2260K | - | ET2260K | EP2260K | EA2260 | EA2360 | EF6060 | EF6061 | EF6062 | |
| 800 | | EK8060KN | | EC2280K | ED2204SK+ EC2280VC4K | ET2280K | EP2280K | EA2280 | EA2380 | EF8060 | EF8061 | EF8062 | |
| 1000 | | EK1060KN | | EC2210K | ED2210SK+ EC2280FC5K | ET2211K | EP2210K | EA2210 | EA2310 | EF1060 | EF1061 | EF1062 | |
| 1200 | | EK1260KN | | - | ED2212SK+ EC2280FC6K | - | EP2212K | EA2212 | EA2312 | 2xEF6060 | 2xEF6061 | 2xEF6062 | |
| 400 | 800 | EK4080KN | | EC2240K | - | - | EP2240K | EA2240 | EA2340 | EF4080 | EF4081 | EF4082 | |
| 600 | | EK6080KN | | EC2260K | - | ET2260K | EP2260K | EA2260 | EA2360 | EF6080 | EF6081 | EF6082 | |
| 800 | | EK8080KN | | EC2280K | ED2204SK+ EC2280VC4K | ET2280K | EP2280K | EA2280 | EA2380 | EF8080 | EF8081 | EF8082 | |
| 1000 | | EK1080KN | | EC2210K | ED2210SK+ EC2280FC5K | ET2211K | EP2210K | EA2210 | EA2310 | EF1080 | EF1081 | EF1082 | |
| 1200 | | EK1280KN | | - | ED2212SK+ EC2280FC6K | - | EP2212K | EA2212 | EA2312 | 2xEF6080 | 2xEF6081 | 2xEF6082 | |
| 400 | 1000 | EK4010KN | | EC2240K | - | - | EP2240K | EA2240 | EA2340 | EF4010 | EF4011 | EF4012 | |
| 600 | | EK6010KN | | EC2260K | - | ET2260K | EP2260K | EA2260 | EA2360 | EF6010 | EF6011 | EF6012 | |
| 800 | | EK8010KN | | EC2280K | ED2204SK+ EC2280VC4K | ET2280K | EP2280K | EA2280 | EA2380 | EF8010 | EF8011 | EF8012 | |
| 1000 | | EK1010KN | | EC2210K | ED2210SK+ EC2280FC5K | ET2211K | EP2210K | EA2210 | EA2310 | EF1010 | EF1011 | EF1012 | |

⁽¹⁾ The useful height is always 100mm less than the external dimension of the enclosure. For the version with compartments, the useful height is 200mm less.

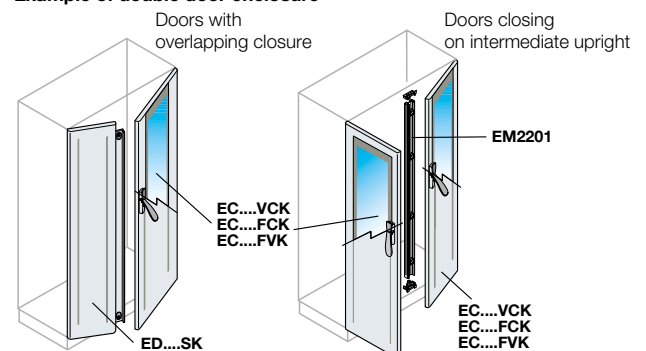
For versions with compartments see page 5/76, for modular versions see page 5/78.

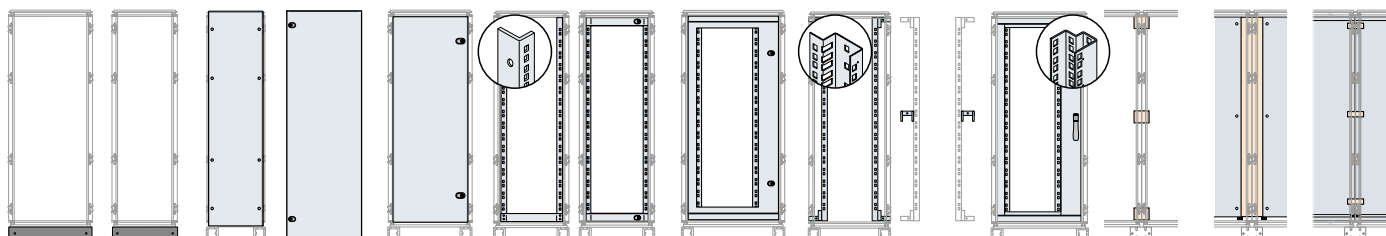
⁽¹⁾ Double blind doors with intermediate upright EM1801, double glass doors with intermediate upright EM1801, and combinations of structures with internal cable container W=200/400mm available (see pag. 5/28, 5/29, 5/50 and 5/51).

⁽²⁾ In the case of structures with internal cable container, select the correct rack frame which takes into account the 200/400mm of the cable container. For the new rack 19" and relative accessories see page 5/82.

W=1600mm enclosures are only available in pre-assembled version with blind door (with overlapping door or intermediate upright).

Example of double door enclosure





| Plinth flanges | | Sides covers ⁽²⁾ | | Inner door | Rack frames 19" "L" shaped profile ⁽³⁾ | | | Rack frames 19" | | | Side-by-side structure Kit | Standard plate joining Kit | Oversized plate joining Kit |
|----------------|--------|-----------------------------|----------------------------|------------|---------------------------------------------------|-----------------------|-----------------------|----------------------------------------|-----------------------------|----------------------------------------|----------------------------|----------------------------|-----------------------------|
| Front/rear | Side | Pair of blind panels | Side door with closing box | | Fixed Centred | Swing Centred W=600mm | Decentralized W=800mm | Fixed ⁽⁴⁾ Frame+ Fixing kit | Optional central fixing kit | Swing ⁽⁵⁾ Frame+ Fixing kit | | | |
| ZN4000 | | | | - | - | - | - | | | | | | |
| ZN6000 | | | | EE2260K | EG2200 | EG2201K | - | EG2205+ EB6000 | EB0400 | | EV0002 | | |
| ZN8000 | ZN4000 | EL2240K | EC 2241K | EE2280K | EG2280 | - | EG2203K | EG2205+ EB8000 | EB8001 + EB0400 | EG2204K+ EV0007 | EV0003 | | |
| ZN1000 | | | | EE2210K | - | - | - | | | | EV0006 | | |
| 2xZN6000 | | | | - | - | - | - | | | | | | |
| ZN4000 | | | | - | - | - | - | | | | | | |
| ZN6000 | | | | EE2260K | EG2200 | EG2201K | - | EG2205+ EB6000 | EB0500 | | EV0002 | | |
| ZN8000 | ZN5000 | EL2250K | EC 2251K | EE2280K | EG2280 | - | EG2203K | EG2205+ EB8000 | EB8001 + EB0500 | EG2204K+ EV0007 | EV0003 | | |
| ZN1000 | | | | EE2210K | - | - | - | | | | EV0006 | | |
| 2xZN6000 | | | | - | - | - | - | | | | | | |
| ZN4000 | | | | - | - | - | - | | | | | | |
| ZN6000 | | | | EE2260K | EG2200 | EG2201K | - | EG2205+ EB6000 | EB0600 | | EV0002 | | |
| ZN8000 | ZN6000 | EL2260K | EC 2261K | EE2280K | EG2280 | - | EG2203K | EG2205+ EB8000 | EB8001 + EB0600 | EG2204K+ EV0007 | EV0003 | EA2200 | EA2113 |
| ZN1000 | | | | EE2210K | - | - | - | | | | EV0006 | | |
| 2xZN6000 | | | | - | - | - | - | | | | | | |
| ZN4000 | | | | - | - | - | - | | | | | | |
| ZN6000 | | | | EE2260K | EG2200 | EG2201K | - | EG2205+ EB6000 | EB0800 | | EV0002 | | |
| ZN8000 | ZN8000 | EL2280K | EC 2281K | EE2280K | EG2280 | - | EG2203K | EG2205+ EB8000 | EB8001 + EB0800 | EG2204K+ EV0007 | EV0003 | | |
| ZN1000 | | | | EE2210K | - | - | - | | | | EV0006 | | |
| 2xZN6000 | | | | - | - | - | - | | | | | | |
| ZN4000 | | | | - | - | - | - | | | | | | |
| ZN6000 | | | | EE2260K | EG2200 | EG2201K | - | EG2205+ EB6000 | EB1000 | | EV0002 | | |
| ZN8000 | ZN1000 | EL2210K | EC 2211K | EE2280K | EG2280 | - | EG2203K | EG2205+ EB8000 | EB8001 + EB1000 | EG2204K+ EV0007 | EV0003 | | |
| ZN1000 | | | | EE2210K | - | - | - | | | | EV0006 | | |


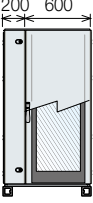

⁽³⁾ Rack frame W=600mm needs fixing brackets EB6000 and for an optional central fixing order a couple of crosspieces EB... see page 5/67 according to switchboard depth. Accessories from page 5/85. Rack frame W=800mm needs fixing brackets EB8000 and for an optional central fixing order a couple of crosspieces EB... see page 5/67 according to switchboard depth. Moreover, fixing kits replacing brackets and crosspieces according to switchboard depth are available, codes on page 5/84. Accessories from page 5/86.

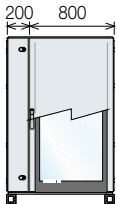
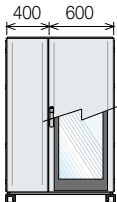

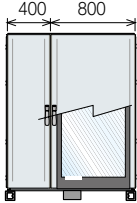

⁽⁴⁾ Only available for W=800mm (even in structures with cable container with W=800mm available structure compartment). Order specific fixing kit EV0007.

Kit for placing structures side by side EV0002/EV0003/EV0006 see page 5/74.

IS2 kit version cabinets

Single doors for making the double door version

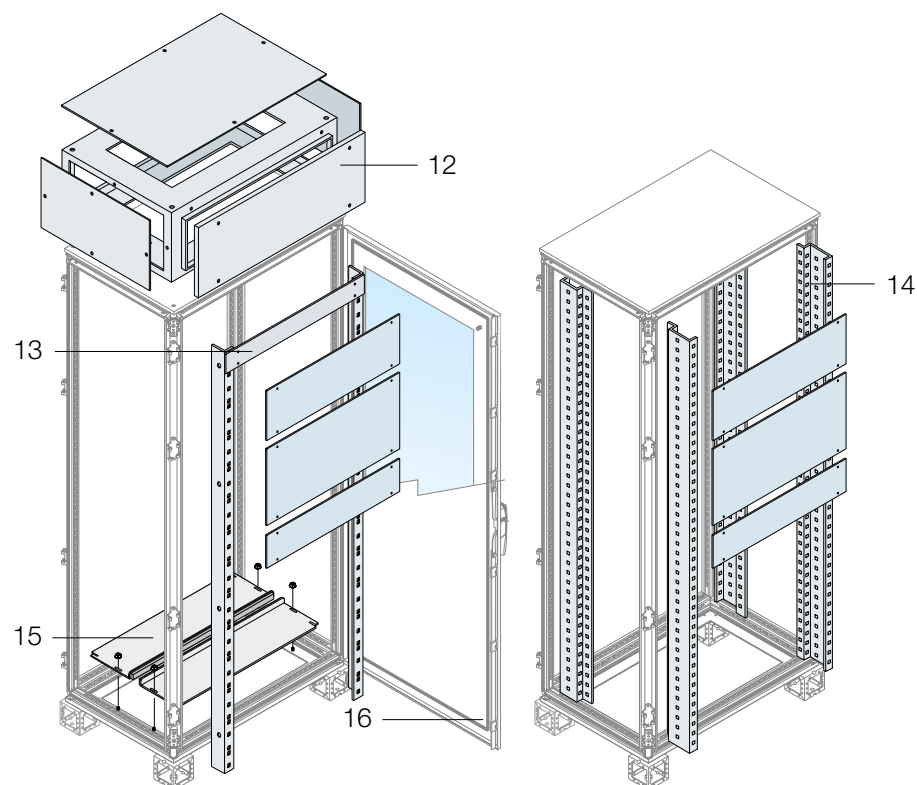
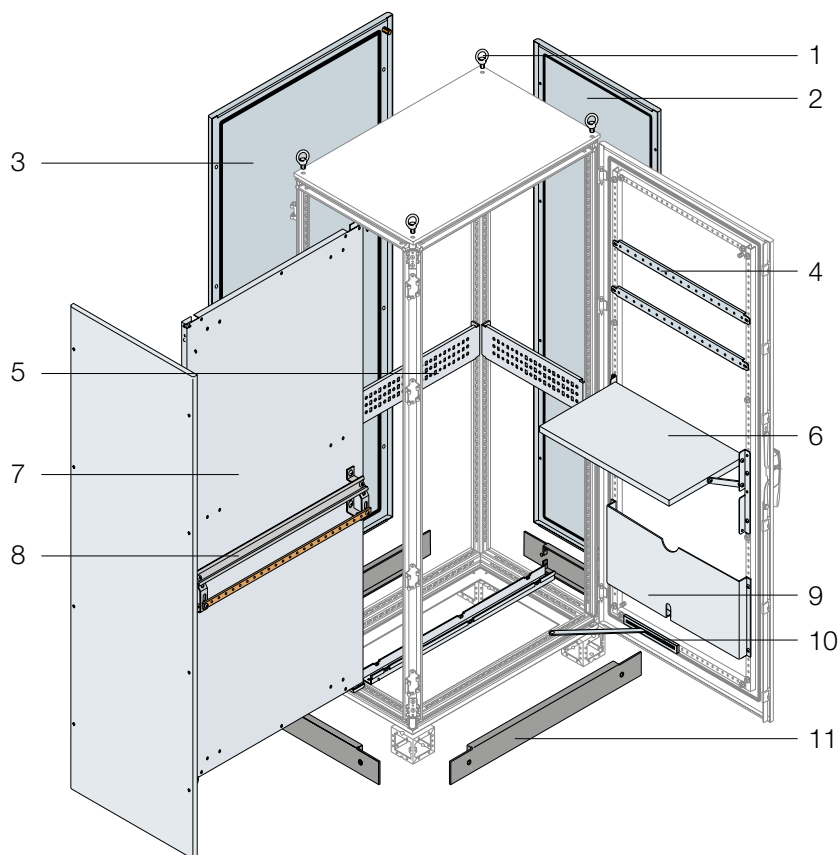
| | | | Double doors Closure on door with overlapping (without intermediate upright) | | Double doors Closure on door with intermediate upright | |
|-------------------------------------------------------------------------------------|----------|--------|------------------------------------------------------------------------------------|--------------|-----------------------------------------------------------|--------------------------------------|
| Structure W=600mm | | | Door W=200mm | Door W=400mm | Door W=200mm | Door W=400mm Intermediate upright |
|  | H=1800mm | blind | ED1802SK | EV1880VC4K | EC1880VC2K | EC1880VC4K |
| | | glazed | | | | + EM1801 |
| | H=2000mm | blind | ED2002SK | EV2080VC4K | EC2080VC2K | EC2080VC4K |
| | | glazed | | | | + EM2001 |
| | H=2200mm | blind | ED2202SK | EV2280VC4K | EC2280VC2K | EC2280VC4K |
| | | glazed | | | | + EM2201 |
| Structure W=800mm | | | Door W=200mm | Door W=600mm | Door W=200mm | Door W=600mm Intermediate upright |
|  | H=1800mm | blind | ED1802SK | EC1880FC6K | EC1880VC2K | EC1880FC6K |
| | | glazed | | EC1880FV6K | | + EM1801 |
| | H=2000mm | blind | ED2002SK | EC2080FC6K | EC2080VC2K | EC2080FC6K |
| | | glazed | | EC2080FV6K | | + EM2001 |
| | H=2200mm | blind | ED2202SK | EC2280FC6K | EC2280VC2K | EC2280FC6K |
| | | glazed | | EC2280FV6K | | + EM2201 |
| | | | Door W=400mm | Door W=400mm | Door W=400mm | Door W=400mm Intermediate upright |
|  | H=1800mm | blind | ED1804SK | EC1880VC4K | EC1880VC4K | EC1880VC4K |
| | | glazed | | | | + EM1801 |
| | H=2000mm | blind | ED2004SK | EC2080VC4K | EC2080VC4K | EC2080VC4K |
| | | glazed | | | | + EM2001 |
| | H=2200mm | blind | ED2204SK | EC2280VC4K | EC2280VC4K | EC2280VC4K |
| | | glazed | | | | + EM2201 |

| | | | Double doors Closure on door with overlapping (without intermediate upright) | | Double doors Closure on door with intermediate upright | | |
|-------------------------------------------------------------------------------------|----------|--------|------------------------------------------------------------------------------------|--------------|-----------------------------------------------------------|--------------|----------------------|
| Structure W=1000mm | | | Door W=200mm | Door W=800mm | Door W=200mm | Door W=800mm | Intermediate upright |
|  | H=1800mm | blind | ED1802SK | EC1880FC8K | EC1880VC2K | EC1880FC8K | EM1801 |
| | | glazed | | EC1880FV8K | | EC1880FV8K | |
| | H=2000mm | blind | ED2002SK | EC2080FC8K | EC2080VC2K | EC2080FC8K | EM2001 |
| | | glazed | | EC2080FV8K | | EC2080FV8K | |
| | H=2200mm | blind | ED2202SK | EC2280FC8K | EC2280VC2K | EC2280FC8K | EM2201 |
| | | glazed | | EC2280FV8K | | EC2280FV8K | |
| | | | Door W=400mm | Door W=600mm | Door W=400mm | Door W=600mm | Intermediate upright |
|  | H=1800mm | blind | ED1804SK | EC1880FC6K | EC1880VC4K | EC1880FC6K | EM1801 |
| | | glazed | | EC1880FV6K | | EC1880FV6K | |
| | H=2000mm | blind | ED2004SK | EC2080FC6K | EC2080VC4K | EC2080FC6K | EM2001 |
| | | glazed | | EC2080FV6K | | EC2080FV6K | |
| | H=2200mm | blind | ED2204SK | EC2280FC6K | EC2280VC4K | EC2280FC6K | EM2201 |
| | | glazed | | EC2280FV6K | | EC2280FV6K | |
| | | | Door W=500mm | Door W=500mm | Door W=500mm | Door W=500mm | Intermediate upright |
|  | H=1800mm | blind | ED1810SK | EC1880FC5K | EC1880FC5K | EC1880FC5K | EM1801 |
| | | glazed | | | | | |
| | H=2000mm | blind | ED2010SK | EC2080FC5K | EC2080FC5K | EC2080FC5K | EM2001 |
| | | glazed | | | | | |
| | H=2200mm | blind | ED2210SK | EC2280FC5K | EC2280FC5K | EC2280FC5K | EM2201 |
| | | glazed | | | | | |
| Structure W=1200mm | | | Door W=400mm | Door W=800mm | Door W=400mm | Door W=800mm | Intermediate upright |
|  | H=1800mm | blind | ED1804SK | EC1880FC8K | EC1880VC4K | EC1880FC8K | EM1801 |
| | | glazed | | EC1880FV8K | | EC1880FV8K | |
| | H=2000mm | blind | ED2004SK | EC2080FC8K | EC2080VC4K | EC2080FC8K | EM2001 |
| | | glazed | | EC2080FV8K | | EC2080FV8K | |
| | H=2200mm | blind | ED2204SK | EC2280FC8K | EC2280VC4K | EC2280FC8K | EM2201 |
| | | glazed | | EC2280FV8K | | EC2280FV8K | |
| | | | Door W=600mm | Door W=600mm | Door W=600mm | Door W=600mm | Intermediate upright |
|  | H=1400mm | blind | ED1412SK | EC1480FC6K | - | - | - |
| | H=1600mm | blind | ED1612SK | EC1680FC6K | - | - | - |
| | H=1800mm | blind | ED1812SK | EC1880FC6K | EC1880FC6K | EC1880FC6K | EM1801 |
| | | glazed | | EC1880FV6K | EC1880FV6K | EC1880FV6K | |
| | H=2000mm | blind | ED2012SK | EC2080FC6K | EC2080FC6K | EC2080FC6K | EM2001 |
| | | glazed | | EC2080FV6K | EC2080FV6K | EC2080FV6K | |
| | H=2200mm | blind | ED2012SK | EC2280FC6K | EC2280FC6K | EC2280FC6K | EM2201 |
| | | glazed | | EC2280FV6K | EC2280FV6K | EC2280FV6K | |
| Structure W=1600mm | | | | | | | |

W=1600mm enclosures are only available in pre-assembled version with blind door (with overlapping door or intermediate upright).

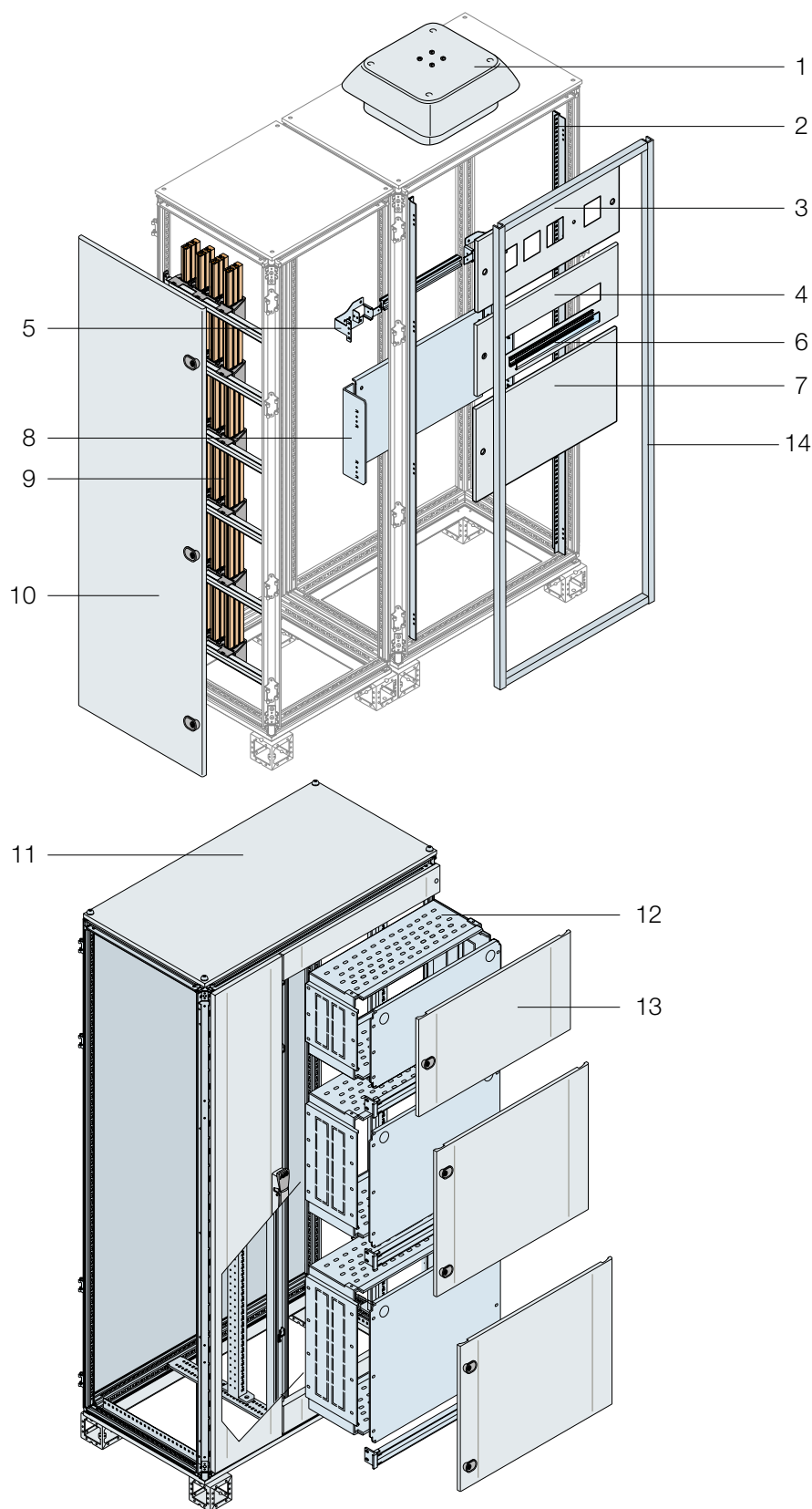
IS2 kit version cabinets

Ordering codes



| | | |
|-----------|------------------------------------------------------------------|-----------------|
| 1 | Lifting eyebolts | Pag. 5/109 |
| 2 | Side panels | Pag. 5/51 |
| 3 | Rear panels | Pag. 5/50 |
| 4 | Reinforcement profiles for door | Pag. 5/105 |
| 5 | Crosspieces for accessories | Pag. 5/65 |
| 6 | Folding shelf for door | Pag. 5/106 |
| 7 | Mounting plate | Pag. 5/59 |
| 8 | Angled supports for terminal boxes and earthing busbars | Pag. 5/94 |
| 9 | Document pocket | Pag. 5/106 |
| 10 | Anti-closing device for door | Pag. 5/106 |
| 11 | Cover flanges for plinth | Pag. 5/57 |
| 12 | Top container for cable connection | Pag. 5/70 |
| 13 | Rack frame 19" "L" shaped profile | Pag. 5/81 |
| 14 | "Rack frame 19" cranked shape uprights and other rack 19" | Pag. 5/82 |
| 15 | Cable entry flanges | Pag. 5/53 |
| 16 | Blind doors, glass doors and aerated doors | Pag. 5/46 |

> Quick selection table page 5/12 > In-depth technical information page 7/1 > Overall dimensions page 8/1



| | | |
|-----------|-----------------------------------------------------------|------|
| 1 | Temperature management | |
| Pag. | | 5/98 |
| 2 | DIN uprights for modular apparatus | |
| Pag. | | 5/76 |
| 3 | Modular panels for square measuring instruments | |
| Pag. | | 5/75 |
| 4 | DIN panels for modular apparatus | |
| Pag. | | 5/78 |
| 5 | DIN rail kit for uprights for modular apparatus | |
| Pag. | | 5/76 |
| 6 | Accessories for panels | |
| Pag. | | 5/80 |
| 7 | Blind panels for uprights for modular apparatus | |
| Pag. | | 5/78 |
| 8 | Mounting plates for uprights for modular apparatus | |
| Pag. | | 5/77 |
| 9 | Distribution system | |
| Pag. | | 5/88 |
| 10 | Side doors | |
| Pag. | | 5/52 |
| 11 | Cabinets for configuration with compartments | |
| Pag. | | 5/40 |
| 12 | Compartment cubicles | |
| Pag. | | 5/74 |
| 13 | Front panels for compartments | |
| Pag. | | 5/75 |
| 14 | P31 closing profile | |
| Pag. | | 5/46 |



Pre-assembled structures

Cabinets with blind door

Structure with removable roof, complete with blind door and rear panel, plinth H=100mm consisting of four angle pieces. To be completed with plinth flanges, cable entry flanges and side panels.

Examples of configuration and technical characteristics at page 5/116

| Dimensions (mm) | | | | | Package/ No. of pieces |
|-----------------|------|------|-----------------|--|---------------------------|
| H | W | D | Code | | |
| 1400 NEW | 400 | 400 | 1STQ005349B0000 | | 1/1 |
| | 400 | 600 | 1STQ005361B0000 | | 1/1 |
| | 400 | 800 | 1STQ005365B0000 | | 1/1 |
| | 600 | 300 | 1STQ005346B0000 | | 1/1 |
| | 600 | 400 | 1STQ005350B0000 | | 1/1 |
| | 600 | 500 | 1STQ005357B0000 | | 1/1 |
| | 600 | 600 | 1STQ005362B0000 | | 1/1 |
| | 600 | 800 | 1STQ005366B0000 | | 1/1 |
| | 800 | 300 | 1STQ005347B0000 | | 1/1 |
| | 800 | 400 | 1STQ005351B0000 | | 1/1 |
| | 800 | 500 | 1STQ005358B0000 | | 1/1 |
| | 800 | 600 | 1STQ005363B0000 | | 1/1 |
| | 800 | 800 | 1STQ005367B0000 | | 1/1 |
| | 1000 | 300 | 1STQ005348B0000 | | 1/1 |
| | 1000 | 400 | 1STQ005352B0000 | | 1/1 |
| | 1000 | 500 | 1STQ005359B0000 | | 1/1 |
| 1600 NEW | 400 | 500 | 1STQ005377B0000 | | 1/1 |
| | 400 | 600 | 1STQ005382B0000 | | 1/1 |
| | 400 | 800 | 1STQ005387B0000 | | 1/1 |
| | 400 | 1000 | 1STQ005392B0000 | | 1/1 |
| | 600 | 300 | 1STQ005369B0000 | | 1/1 |
| | 600 | 400 | 1STQ005371B0000 | | 1/1 |
| | 600 | 500 | 1STQ005378B0000 | | 1/1 |
| | 600 | 600 | 1STQ005383B0000 | | 1/1 |
| | 600 | 800 | 1STQ005388B0000 | | 1/1 |
| | 600 | 1000 | 1STQ005393B0000 | | 1/1 |
| | 800 | 300 | 1STQ005370B0000 | | 1/1 |
| | 800 | 400 | 1STQ005372B0000 | | 1/1 |
| | 800 | 500 | 1STQ005379B0000 | | 1/1 |
| | 800 | 600 | 1STQ005384B0000 | | 1/1 |
| | 800 | 800 | 1STQ005389B0000 | | 1/1 |
| | 800 | 1000 | 1STQ005394B0000 | | 1/1 |
| | 1000 | 400 | 1STQ005373B0000 | | 1/1 |
| | 1000 | 500 | 1STQ005380B0000 | | 1/1 |
| | 1000 | 600 | 1STQ005385B0000 | | 1/1 |
| | 1000 | 800 | 1STQ005390B0000 | | 1/1 |
| | 1000 | 1000 | 1STQ005395B0000 | | 1/1 |
| 1800 | 400 | 400 | ES1844K | | 1/1 |
| | 600 | 400 | ES1864K | | 1/1 |
| | 800 | 400 | ES1884K | | 1/1 |
| | 1000 | 400 | ES1804K | | 1/1 |
| | 400 | 500 | ES1845K | | 1/1 |
| | 600 | 500 | ES1865K | | 1/1 |
| | 800 | 500 | ES1885K | | 1/1 |
| | 1000 | 500 | ES1805K | | 1/1 |
| | 400 | 600 | ES1846K | | 1/1 |
| | 600 | 600 | ES1866K | | 1/1 |

CONTINUED



Pre-assembled structures

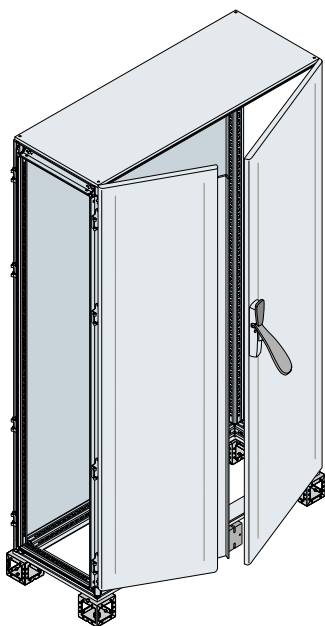
Cabinets with blind door

Examples of configuration and technical characteristics at page 5/116

| Dimensions (mm) | | | | | | Package/ No. of pieces |
|-----------------|------|------|---------|--|--|---------------------------|
| H | W | D | Code | | | |
| 1800 | 800 | 600 | ES1886K | | | 1/1 |
| | 1000 | 600 | ES1806K | | | 1/1 |
| | 400 | 800 | ES1848K | | | 1/1 |
| | 600 | 800 | ES1868K | | | 1/1 |
| | 800 | 800 | ES1888K | | | 1/1 |
| | 1000 | 800 | ES1808K | | | 1/1 |
| | 400 | 1000 | ES1840K | | | 1/1 |
| | 600 | 1000 | ES1860K | | | 1/1 |
| | 800 | 1000 | ES1880K | | | 1/1 |
| | 1000 | 1000 | ES1800K | | | 1/1 |
| 2000 | 400 | 400 | ES2044K | | | 1/1 |
| | 600 | 400 | ES2064K | | | 1/1 |
| | 800 | 400 | ES2084K | | | 1/1 |
| | 1000 | 400 | ES2004K | | | 1/1 |
| | 400 | 500 | ES2045K | | | 1/1 |
| | 600 | 500 | ES2065K | | | 1/1 |
| | 800 | 500 | ES2085K | | | 1/1 |
| | 1000 | 500 | ES2007K | | | 1/1 |
| | 400 | 600 | ES2046K | | | 1/1 |
| | 600 | 600 | ES2066K | | | 1/1 |
| | 800 | 600 | ES2086K | | | 1/1 |
| | 1000 | 600 | ES2006K | | | 1/1 |
| | 400 | 800 | ES2048K | | | 1/1 |
| | 600 | 800 | ES2068K | | | 1/1 |
| | 800 | 800 | ES2089K | | | 1/1 |
| | 1000 | 800 | ES2008K | | | 1/1 |
| | 400 | 1000 | ES2040K | | | 1/1 |
| | 600 | 1000 | ES2060K | | | 1/1 |
| | 800 | 1000 | ES2080K | | | 1/1 |
| | 1000 | 1000 | ES2000K | | | 1/1 |
| 2200 | 400 | 400 | ES2244K | | | 1/1 |
| | 600 | 400 | ES2264K | | | 1/1 |
| | 800 | 400 | ES2284K | | | 1/1 |
| | 1000 | 400 | ES2204K | | | 1/1 |
| | 400 | 500 | ES2245K | | | 1/1 |
| | 600 | 500 | ES2265K | | | 1/1 |
| | 800 | 500 | ES2285K | | | 1/1 |
| | 1000 | 500 | ES2205K | | | 1/1 |
| | 400 | 600 | ES2246K | | | 1/1 |
| | 600 | 600 | ES2266K | | | 1/1 |
| | 800 | 600 | ES2287K | | | 1/1 |
| | 1000 | 600 | ES2206K | | | 1/1 |
| | 400 | 800 | ES2248K | | | 1/1 |
| | 600 | 800 | ES2268K | | | 1/1 |
| | 800 | 800 | ES2288K | | | 1/1 |
| | 1000 | 800 | ES2208K | | | 1/1 |
| | 400 | 1000 | ES2240K | | | 1/1 |
| | 600 | 1000 | ES2260K | | | 1/1 |
| | 800 | 1000 | ES2280K | | | 1/1 |
| | 1000 | 1000 | ES2200K | | | 1/1 |

IS2 Enclosures

Ordering codes



Pre-assembled structures

Cabinets with double blind door with overlapping closure

Structure with removable roof complete with double blind door and rear panel, plinth H=100mm made up of four angle pieces. The versions with double door include a pair of crosspieces mounted in depth and an intermediate upright (removable) for door closure. The cabinets 1200/1600mm wide include the intermediate plinth. To be completed with plinth flanges, cable entry flanges and side panels.

Examples of configuration and technical characteristics at page 5/116

| Dimensions (mm) | | | Code | | | Package/ No. of pieces |
|-----------------|------|------|-----------------|--|--|---------------------------|
| H | W | D | | | | |
| 1400 NEW | 1200 | 400 | 1STQ005353B0000 | | | 1/1 |
| | 1200 | 500 | 1STQ005360B0000 | | | 1/1 |
| | 1200 | 600 | 1STQ005364B0000 | | | 1/1 |
| | 1200 | 800 | 1STQ005368B0000 | | | 1/1 |
| 1600 NEW | 1200 | 400 | 1STQ005374B0000 | | | 1/1 |
| | 1200 | 500 | 1STQ005381B0000 | | | 1/1 |
| | 1200 | 600 | 1STQ005386B0000 | | | 1/1 |
| | 1200 | 800 | 1STQ005391B0000 | | | 1/1 |
| 1800 | 1000 | 400 | ES1814BK | | | 1/1 |
| | 1200 | 400 | ES1824BK | | | 1/1 |
| | 1000 | 500 | ES1815BK | | | 1/1 |
| | 1200 | 500 | ES1827BK | | | 1/1 |
| | 1600 | 500 | ES1875BK | | | 1/1 |
| | 1000 | 600 | ES1816BK | | | 1/1 |
| | 1200 | 600 | ES1826BK | | | 1/1 |
| | 1600 | 600 | ES1876BK | | | 1/1 |
| | 1000 | 800 | ES1818BK | | | 1/1 |
| | 1200 | 800 | ES1828BK | | | 1/1 |
| | 1600 | 800 | ES1878BK | | | 1/1 |
| | 1000 | 1000 | ES1810BK | | | 1/1 |
| 2000 | 1000 | 400 | ES2014BK | | | 1/1 |
| | 1200 | 400 | ES2024BK | | | 1/1 |
| | 1000 | 500 | ES2015BK | | | 1/1 |
| | 1200 | 500 | ES2025BK | | | 1/1 |
| | 1600 | 500 | ES2075BK | | | 1/1 |
| | 1000 | 600 | ES2016BK | | | 1/1 |
| | 1200 | 600 | ES2026BK | | | 1/1 |
| | 1600 | 600 | ES2076BK | | | 1/1 |
| | 1000 | 800 | ES2018BK | | | 1/1 |
| | 1200 | 800 | ES2028BK | | | 1/1 |
| | 1600 | 800 | ES2078BK | | | 1/1 |
| | 1000 | 1000 | ES2010BK | | | 1/1 |
| 2200 | 1000 | 400 | ES2214BK | | | 1/1 |
| | 1200 | 400 | ES2224BK | | | 1/1 |
| | 1000 | 500 | ES2215BK | | | 1/1 |
| | 1200 | 500 | ES2225BK | | | 1/1 |
| | 1600 | 500 | ES2275BK | | | 1/1 |
| | 1000 | 600 | ES2216BK | | | 1/1 |
| | 1200 | 600 | ES2226BK | | | 1/1 |
| | 1600 | 600 | ES2276BK | | | 1/1 |
| | 1000 | 800 | ES2218BK | | | 1/1 |
| | 1200 | 800 | ES2228BK | | | 1/1 |
| | 1600 | 800 | ES2279BK | | | 1/1 |
| | 1000 | 1000 | ES2210BK | | | 1/1 |



Pre-assembled structures

Cabinets with double blind door with overlapping closure on intermediate upright

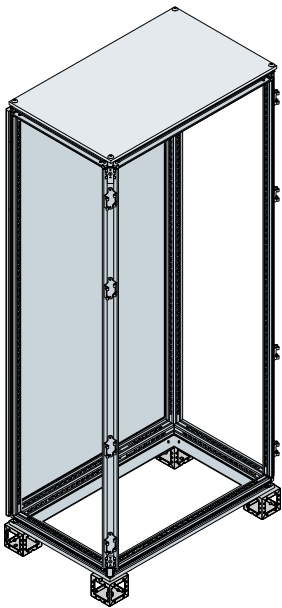
Structure with removable roof complete with double blind door and rear panel, plinth H=100mm made up of four angle pieces. The versions with double door include a pair of crosspieces mounted in depth and an intermediate upright (removable) for door closure. The cabinets 1200/1600mm wide include the intermediate plinth. To be completed with plinth flanges, cable entry flanges and side panels.

| Dimensions (mm) | | D | Code | | | Package/ No. of pieces |
|-----------------|------|------|---------|--|--|---------------------------|
| H | W | | | | | |
| 1800 | 1000 | 400 | ES1814K | | | 1/1 |
| | 1200 | 400 | ES1824K | | | 1/1 |
| | 1000 | 500 | ES1815K | | | 1/1 |
| | 1200 | 500 | ES1827K | | | 1/1 |
| | 1600 | 500 | ES1875K | | | 1/1 |
| | 1000 | 600 | ES1816K | | | 1/1 |
| | 1200 | 600 | ES1826K | | | 1/1 |
| | 1600 | 600 | ES1876K | | | 1/1 |
| | 1000 | 800 | ES1818K | | | 1/1 |
| | 1200 | 800 | ES1828K | | | 1/1 |
| | 1600 | 800 | ES1878K | | | 1/1 |
| | 1000 | 1000 | ES1810K | | | 1/1 |
| 2000 | 1000 | 400 | ES2014K | | | 1/1 |
| | 1200 | 400 | ES2024K | | | 1/1 |
| | 1000 | 500 | ES2015K | | | 1/1 |
| | 1200 | 500 | ES2025K | | | 1/1 |
| | 1600 | 500 | ES2075K | | | 1/1 |
| | 1000 | 600 | ES2016K | | | 1/1 |
| | 1200 | 600 | ES2026K | | | 1/1 |
| | 1600 | 600 | ES2076K | | | 1/1 |
| | 1000 | 800 | ES2018K | | | 1/1 |
| | 1200 | 800 | ES2028K | | | 1/1 |
| | 1600 | 800 | ES2078K | | | 1/1 |
| | 1000 | 1000 | ES2010K | | | 1/1 |
| 2200 | 1000 | 400 | ES2214K | | | 1/1 |
| | 1200 | 400 | ES2224K | | | 1/1 |
| | 1000 | 500 | ES2215K | | | 1/1 |
| | 1200 | 500 | ES2225K | | | 1/1 |
| | 1600 | 500 | ES2275K | | | 1/1 |
| | 1000 | 600 | ES2216K | | | 1/1 |
| | 1200 | 600 | ES2226K | | | 1/1 |
| | 1600 | 600 | ES2276K | | | 1/1 |
| | 1000 | 800 | ES2218K | | | 1/1 |
| | 1200 | 800 | ES2228K | | | 1/1 |
| | 1600 | 800 | ES2279K | | | 1/1 |
| | 1000 | 1000 | ES2210K | | | 1/1 |

IS2 Enclosures

Ordering codes

5



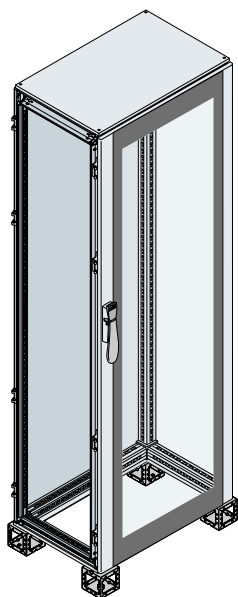
Pre-assembled structures

Cabinets without front door

Structures with removable roof complete with rear panel, plinth H=100mm made up of four angle pieces. To be completed with door, plinth flanges, cable entry flanges and side panels.

| Dimensions (mm) | | | Code | | | Package/ No. of pieces |
|-----------------|-----|-----|-----------|--|--|---------------------------|
| H | W | D | | | | |
| 1800 | 600 | 400 | ES1864SPK | | | 1/1 |
| | 600 | 500 | ES1865SPK | | | 1/1 |
| | 600 | 600 | ES1866SPK | | | 1/1 |
| | 800 | 400 | ES1884SPK | | | 1/1 |
| | 800 | 600 | ES1886SPK | | | 1/1 |
| 2000 | 600 | 400 | ES2064SPK | | | 1/1 |
| | 600 | 500 | ES2065SPK | | | 1/1 |
| | 600 | 600 | ES2066SPK | | | 1/1 |
| | 800 | 400 | ES2084SPK | | | 1/1 |
| | 800 | 500 | ES2085SPK | | | 1/1 |
| | 800 | 600 | ES2086SPK | | | 1/1 |
| | 800 | 800 | ES2089SPK | | | 1/1 |

For the codes listed, the Custom Made Service (assembly of accessories/special painting/special drilling) is not provided.



Pre-assembled structures

Cabinet with glazed door

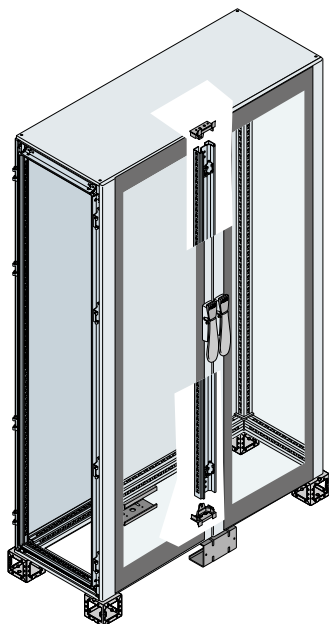
Structure with removable roof, complete with glazed door and rear panel, plinth H=100mm consisting of four angle pieces. To be completed with plinth flanges, cable entry flanges and side panels.

| Dimensions (mm) | | | Code | | | Package/ No. of pieces |
|-----------------|------|------|-----------------|--|--|---------------------------|
| H | W | D | | | | |
| 1400 | 600 | 400 | 1STQ005355B0000 | | | 1/1 |
| | 800 | 300 | 1STQ005354B0000 | | | 1/1 |
| | 800 | 400 | 1STQ005356B0000 | | | 1/1 |
| 1600 | 600 | 400 | 1STQ005375B0000 | | | 1/1 |
| | 800 | 400 | 1STQ005376B0000 | | | 1/1 |
| 1800 | 600 | 400 | ES1864VK | | | 1/1 |
| | 800 | 400 | ES1884VK | | | 1/1 |
| | 1000 | 400 | ES1804VK | | | 1/1 |
| | 600 | 500 | ES1865VK | | | 1/1 |
| | 800 | 500 | ES1885VK | | | 1/1 |
| | 1000 | 500 | ES1805VK | | | 1/1 |
| | 600 | 600 | ES1866VK | | | 1/1 |
| | 800 | 600 | ES1886VK | | | 1/1 |
| | 1000 | 600 | ES1806VK | | | 1/1 |
| | 600 | 800 | ES1868VK | | | 1/1 |
| | 800 | 800 | ES1888VK | | | 1/1 |
| | 1000 | 800 | ES1808VK | | | 1/1 |
| | 600 | 1000 | ES1860VK | | | 1/1 |
| | 800 | 1000 | ES1880VK | | | 1/1 |
| | 1000 | 1000 | ES1800VK | | | 1/1 |
| 2000 | 600 | 400 | ES2064VK | | | 1/1 |
| | 800 | 400 | ES2084VK | | | 1/1 |
| | 1000 | 400 | ES2004VK | | | 1/1 |
| | 600 | 500 | ES2065VK | | | 1/1 |
| | 800 | 500 | ES2085VK | | | 1/1 |
| | 1000 | 500 | ES2005VK | | | 1/1 |
| | 600 | 600 | ES2066VK | | | 1/1 |
| | 800 | 600 | ES2086VK | | | 1/1 |
| | 1000 | 600 | ES2006VK | | | 1/1 |
| | 600 | 800 | ES2068VK | | | 1/1 |
| | 800 | 800 | ES2088VK | | | 1/1 |
| | 1000 | 800 | ES2008VK | | | 1/1 |
| 2200 | 600 | 1000 | ES2060VK | | | 1/1 |
| | 800 | 1000 | ES2080VK | | | 1/1 |
| | 1000 | 1000 | ES2000VK | | | 1/1 |
| | 600 | 400 | ES2264VK | | | 1/1 |
| | 800 | 400 | ES2284VK | | | 1/1 |
| | 1000 | 400 | ES2204VK | | | 1/1 |
| | 600 | 500 | ES2265VK | | | 1/1 |
| | 800 | 500 | ES2285VK | | | 1/1 |
| | 1000 | 500 | ES2205VK | | | 1/1 |
| | 600 | 600 | ES2266VK | | | 1/1 |
| | 800 | 600 | ES2286VK | | | 1/1 |
| | 1000 | 600 | ES2206VK | | | 1/1 |
| | 600 | 800 | ES2268VK | | | 1/1 |
| | 800 | 800 | ES2288VK | | | 1/1 |
| | 1000 | 800 | ES2208VK | | | 1/1 |
| | 600 | 1000 | ES2260VK | | | 1/1 |
| | 800 | 1000 | ES2280VK | | | 1/1 |
| | 1000 | 1000 | ES2200VK | | | 1/1 |

IS2 Enclosures

Ordering codes

5



Pre-assembled structures

Cabinets with double glazed door with overlapping closure on intermediate upright

Structure with removable roof complete with glazed door and rear panel, plinth H=100mm made up of six angle pieces. The versions with double door include a pair of crosspieces mounted in depth and an intermediate upright (removable) for door closure. To be completed with plinth flanges, cable entry flanges and side panels.

| Dimensions (mm) | | | Code | | | Package/ No. of pieces |
|-----------------|------|-----|----------|--|--|---------------------------|
| H | W | D | | | | |
| 1800 | 1200 | 400 | ES1824VK | | | 1/1 |
| | 1200 | 500 | ES1825VK | | | 1/1 |
| | 1200 | 600 | ES1826VK | | | 1/1 |
| | 1200 | 800 | ES1828VK | | | 1/1 |
| 2000 | 1200 | 400 | ES2024VK | | | 1/1 |
| | 1200 | 500 | ES2025VK | | | 1/1 |
| | 1200 | 600 | ES2026VK | | | 1/1 |
| | 1200 | 800 | ES2028VK | | | 1/1 |
| 2200 | 1200 | 400 | ES2224VK | | | 1/1 |
| | 1200 | 500 | ES2225VK | | | 1/1 |
| | 1200 | 600 | ES2226VK | | | 1/1 |
| | 1200 | 800 | ES2228VK | | | 1/1 |



Blind door cabinets with cable container W=200-400mm

Structure with removable roof, complete with blind door, + cable container door, upright, intermediate crosspiece and rear panel, plinth H=100mm consisting of four angle pieces. The cabinets with 1200mm width include the intermediate plinth. To be completed with plinth flanges, cable entry flanges and side panels.

| Structure (mm) | | | Internal cable container | | Code | | | Package/ No. of pieces |
|----------------|------|-----|--------------------------|---|------------|--|--|---------------------------|
| H | W | D | (mm) | W | | | | |
| 1800 | 800 | 400 | 200 | | ES1884FV2K | | | 1/1 |
| | 1000 | 400 | 200 | | ES1804FV2K | | | 1/1 |
| | 800 | 500 | 200 | | ES1885FV2K | | | 1/1 |
| | 1000 | 500 | 200 | | ES1805FV2K | | | 1/1 |
| | 800 | 600 | 200 | | ES1886FV2K | | | 1/1 |
| | 1000 | 600 | 200 | | ES1806FV2K | | | 1/1 |
| | 800 | 800 | 200 | | ES1888FV2K | | | 1/1 |
| | 1000 | 800 | 200 | | ES1808FV2K | | | 1/1 |
| | 1000 | 400 | 400 | | ES1804FV4K | | | 1/1 |
| | 1200 | 400 | 400 | | ES1824FV4K | | | 1/1 |
| | 1000 | 500 | 400 | | ES1805FV4K | | | 1/1 |
| | 1200 | 500 | 400 | | ES1825FV4K | | | 1/1 |
| | 1000 | 600 | 400 | | ES1806FV4K | | | 1/1 |
| | 1200 | 600 | 400 | | ES1826FV4K | | | 1/1 |
| | 1000 | 800 | 400 | | ES1808FV4K | | | 1/1 |
| | 1200 | 800 | 400 | | ES1828FV4K | | | 1/1 |

CONTINUED



Pre-assembled structures

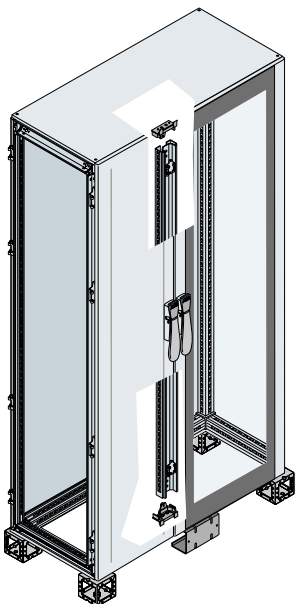
Blind door cabinets with internal cable container W=200-400mm

| Structure (mm) | | | Internal cable container | Code | | | Package/ No. of pieces |
|----------------|------|-----|--------------------------|------------|--|--|---------------------------|
| H | W | D | (mm) W | | | | |
| 2000 | 800 | 400 | 200 | ES2084FV2K | | | 1/1 |
| | 1000 | 400 | 200 | ES2004FV2K | | | 1/1 |
| | 800 | 500 | 200 | ES2085FV2K | | | 1/1 |
| | 1000 | 500 | 200 | ES2005FV2K | | | 1/1 |
| | 800 | 600 | 200 | ES2086FV2K | | | 1/1 |
| | 1000 | 600 | 200 | ES2006FV2K | | | 1/1 |
| | 800 | 800 | 200 | ES2088FV2K | | | 1/1 |
| | 1000 | 800 | 200 | ES2008FV2K | | | 1/1 |
| | 1000 | 400 | 400 | ES2004FV4K | | | 1/1 |
| | 1200 | 400 | 400 | ES2024FV4K | | | 1/1 |
| | 1000 | 500 | 400 | ES2005FV4K | | | 1/1 |
| | 1200 | 500 | 400 | ES2025FV4K | | | 1/1 |
| | 1000 | 600 | 400 | ES2006FV4K | | | 1/1 |
| | 1200 | 600 | 400 | ES2026FV4K | | | 1/1 |
| | 1000 | 800 | 400 | ES2008FV4K | | | 1/1 |
| | 1200 | 800 | 400 | ES2028FV4K | | | 1/1 |
| 2200 | 800 | 400 | 200 | ES2284FV2K | | | 1/1 |
| | 1000 | 400 | 200 | ES2204FV2K | | | 1/1 |
| | 800 | 500 | 200 | ES2285FV2K | | | 1/1 |
| | 1000 | 500 | 200 | ES2205FV2K | | | 1/1 |
| | 800 | 600 | 200 | ES2286FV2K | | | 1/1 |
| | 1000 | 600 | 200 | ES2206FV2K | | | 1/1 |
| | 800 | 800 | 200 | ES2288FV2K | | | 1/1 |
| | 1000 | 800 | 200 | ES2208FV2K | | | 1/1 |
| | 1000 | 400 | 400 | ES2204FV4K | | | 1/1 |
| | 1200 | 400 | 400 | ES2224FV4K | | | 1/1 |
| | 1000 | 500 | 400 | ES2205FV4K | | | 1/1 |
| | 1200 | 500 | 400 | ES2225FV4K | | | 1/1 |
| | 1000 | 600 | 400 | ES2206FV4K | | | 1/1 |
| | 1200 | 600 | 400 | ES2226FV4K | | | 1/1 |
| | 1000 | 800 | 400 | ES2208FV4K | | | 1/1 |
| | 1200 | 800 | 400 | ES2228FV4K | | | 1/1 |

The cable container can be mounted on the right or left side in the structure. Specify this at the time of ordering or enclose a drawing.

IS2 Enclosures

Ordering codes



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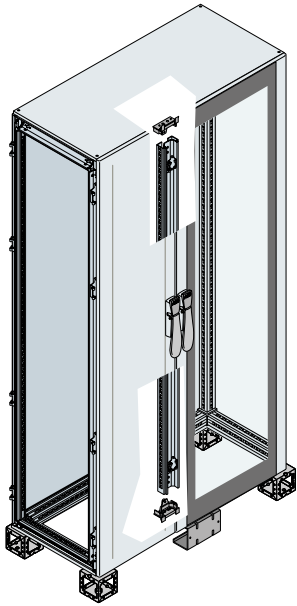
Pre-assembled structures

Blind door cabinets with internal cable container W=200-400mm

Structure with removable roof, complete with blind door, + cable container door, upright, intermediate crosspiece and rear panel, plinth H=100mm consisting of four angle pieces. The cabinets with 1200mm width include the intermediate plinth. To be completed with plinth flanges, cable entry flanges and side panels.

| Structure (mm) | | | Internal cable container | Code | | | |
|----------------|------|-----|--------------------------|------------|--|--|-----|
| H | W | D | (mm) W | | | | |
| 1800 | 800 | 400 | 200 | ES1884VC2K | | | 1/1 |
| | 1000 | 400 | 200 | ES1804VC2K | | | 1/1 |
| | 800 | 500 | 200 | ES1885VC2K | | | 1/1 |
| | 1000 | 500 | 200 | ES1805VC2K | | | 1/1 |
| | 800 | 600 | 200 | ES1886VC2K | | | 1/1 |
| | 1000 | 600 | 200 | ES1806VC2K | | | 1/1 |
| | 800 | 800 | 200 | ES1888VC2K | | | 1/1 |
| | 1000 | 800 | 200 | ES1808VC2K | | | 1/1 |
| | 1000 | 400 | 400 | ES1804VC4K | | | 1/1 |
| | 1200 | 400 | 400 | ES1824VC4K | | | 1/1 |
| | 1000 | 500 | 400 | ES1805VC4K | | | 1/1 |
| | 1200 | 500 | 400 | ES1825VC4K | | | 1/1 |
| | 1000 | 600 | 400 | ES1806VC4K | | | 1/1 |
| | 1200 | 600 | 400 | ES1826VC4K | | | 1/1 |
| | 1000 | 800 | 400 | ES1808VC4K | | | 1/1 |
| | 1200 | 800 | 400 | ES1828VC4K | | | 1/1 |
| 2000 | 800 | 400 | 200 | ES2084VC2K | | | 1/1 |
| | 1000 | 400 | 200 | ES2004VC2K | | | 1/1 |
| | 800 | 500 | 200 | ES2085VC2K | | | 1/1 |
| | 1000 | 500 | 200 | ES2005VC2K | | | 1/1 |
| | 800 | 600 | 200 | ES2086VC2K | | | 1/1 |
| | 1000 | 600 | 200 | ES2006VC2K | | | 1/1 |
| | 800 | 800 | 200 | ES2088VC2K | | | 1/1 |
| | 1000 | 800 | 200 | ES2008VC2K | | | 1/1 |
| | 1000 | 400 | 400 | ES2004VC4K | | | 1/1 |
| | 1200 | 400 | 400 | ES2024VC4K | | | 1/1 |
| | 1000 | 500 | 400 | ES2005VC4K | | | 1/1 |
| | 1200 | 500 | 400 | ES2025VC4K | | | 1/1 |
| | 1000 | 600 | 400 | ES2006VC4K | | | 1/1 |
| | 1200 | 600 | 400 | ES2026VC4K | | | 1/1 |
| | 1000 | 800 | 400 | ES2008VC4K | | | 1/1 |
| | 1200 | 800 | 400 | ES2028VC4K | | | 1/1 |

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Pre-assembled structures

Glazed door cabinets with cable container W=200-400mm

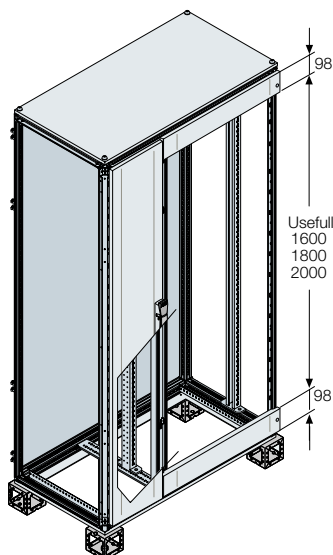
| Structure (mm) | | | Internal cable container | Code | | | Package/ No. of pieces |
|----------------|------|-----|--------------------------|------------|--|--|---------------------------|
| H | W | D | (mm) W | | | | |
| 2200 | 800 | 400 | 200 | ES2284VC2K | | | 1/1 |
| | 1000 | 400 | 200 | ES2204VC2K | | | 1/1 |
| | 800 | 500 | 200 | ES2285VC2K | | | 1/1 |
| | 1000 | 500 | 200 | ES2205VC2K | | | 1/1 |
| | 800 | 600 | 200 | ES2286VC2K | | | 1/1 |
| | 1000 | 600 | 200 | ES2206VC2K | | | 1/1 |
| | 800 | 800 | 200 | ES2288VC2K | | | 1/1 |
| | 1000 | 800 | 200 | ES2208VC2K | | | 1/1 |
| | 1000 | 400 | 400 | ES2204VC4K | | | 1/1 |
| | 1200 | 400 | 400 | ES2224VC4K | | | 1/1 |
| | 1000 | 500 | 400 | ES2205VC4K | | | 1/1 |
| | 1200 | 500 | 400 | ES2225VC4K | | | 1/1 |
| | 1000 | 600 | 400 | ES2206VC4K | | | 1/1 |
| | 1200 | 600 | 400 | ES2226VC4K | | | 1/1 |
| | 1000 | 800 | 400 | ES2208VC4K | | | 1/1 |
| | 1200 | 800 | 400 | ES2228VC4K | | | 1/1 |

The cable container can be mounted on the right or left side in the structure. Specify this at the time of ordering

IS2 Enclosures

Ordering codes

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Pre-assembled structures

Cabinets for configuration with compartments

Pre-assembled self-supporting structure made of galvanised steel, consisting of a closed section drilled with 25mm pitch preset for mounting the compartment cubicles and partial doors. Removable roof, plinth H=100mm (consisting of four angle pieces 2,5mm), complete with rear panel. The structures with internal compartment W=200mm are supplied complete with blind door with opposite opening (standard hinging on the left), double box with double tongue key.

The structures with internal compartment W=400mm are supplied complete with blind door with opposite opening (standard hinging on the left), fixed handle with double tongue key. Both versions are complete with removable intermediate upright and pair of top/bottom crosspieces and uprights.

The useful dimension is always 200mm less than the total height of the enclosure. To be completed with plinth flanges, cable entry flanges and side panels. Compensation panels H=100mm are included in the supply.

Maximum segregation Form 3a.

Examples of configuration and technical characteristics at page 5/114

| Cabinet for compart. (mm) | | Comp. (mm) | Cable cont. * (mm) | | Code | | | Package/ No. of pieces |
|---------------------------|------|------------|--------------------|-----|------------|--|--|---------------------------|
| H | D | W | W | W | | | | |
| 1800 | 400 | 600 | 600 | - | ES1864MFK | | | 1/1 |
| | 400 | 800 | 800 | - | ES1884MFK | | | 1/1 |
| | 400 | 800 | 600 | 200 | ES1884MF2K | | | 1/1 |
| | 400 | 1000 | 800 | 200 | ES1804MF2K | | | 1/1 |
| | 400 | 1000 | 600 | 400 | ES1804MF4K | | | 1/1 |
| | 400 | 1200 | 800 | 400 | ES1824MF4K | | | 1/1 |
| | 500 | 600 | 600 | - | ES1865MFK | | | 1/1 |
| | 500 | 800 | 800 | - | ES1885MFK | | | 1/1 |
| | 500 | 800 | 600 | 200 | ES1885MF2K | | | 1/1 |
| | 500 | 1000 | 800 | 200 | ES1805MF2K | | | 1/1 |
| | 500 | 1000 | 600 | 400 | ES1805MF4K | | | 1/1 |
| | 500 | 1200 | 800 | 400 | ES1825MF4K | | | 1/1 |
| | 600 | 600 | 600 | - | ES1866MFK | | | 1/1 |
| | 600 | 800 | 800 | - | ES1886MFK | | | 1/1 |
| | 600 | 800 | 600 | 200 | ES1886MF2K | | | 1/1 |
| | 600 | 1000 | 800 | 200 | ES1806MF2K | | | 1/1 |
| | 600 | 1000 | 600 | 400 | ES1806MF4K | | | 1/1 |
| | 600 | 1200 | 800 | 400 | ES1826MF4K | | | 1/1 |
| | 800 | 600 | 600 | - | ES1868MFK | | | 1/1 |
| | 800 | 800 | 800 | - | ES1888MFK | | | 1/1 |
| | 800 | 800 | 600 | 200 | ES1888MF2K | | | 1/1 |
| | 800 | 1000 | 800 | 200 | ES1808MF2K | | | 1/1 |
| | 800 | 1000 | 600 | 400 | ES1808MF4K | | | 1/1 |
| | 800 | 1200 | 800 | 400 | ES1828MF4K | | | 1/1 |
| | 1000 | 600 | 600 | - | ES1860MFK | | | 1/1 |
| | 1000 | 800 | 800 | - | ES1880MFK | | | 1/1 |
| | 1000 | 800 | 600 | 200 | ES1880MF2K | | | 1/1 |
| | 1000 | 1000 | 800 | 200 | ES1800MF2K | | | 1/1 |
| | 1000 | 1000 | 600 | 400 | ES1800MF4K | | | 1/1 |
| 2000 | 400 | 600 | 600 | - | ES2064MFK | | | 1/1 |
| | 400 | 800 | 800 | - | ES2084MFK | | | 1/1 |
| | 400 | 800 | 600 | 200 | ES2084MF2K | | | 1/1 |
| | 400 | 1000 | 800 | 200 | ES2004MF2K | | | 1/1 |
| | 400 | 1000 | 600 | 400 | ES2004MF4K | | | 1/1 |
| | 400 | 1200 | 800 | 400 | ES2024MF4K | | | 1/1 |
| | 500 | 600 | 600 | - | ES2065MFK | | | 1/1 |
| | 500 | 800 | 800 | - | ES2085MFK | | | 1/1 |
| | 500 | 800 | 600 | 200 | ES2085MF2K | | | 1/1 |
| | 500 | 1000 | 800 | 200 | ES2005MF2K | | | 1/1 |
| | 500 | 1000 | 600 | 400 | ES2005MF4K | | | 1/1 |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

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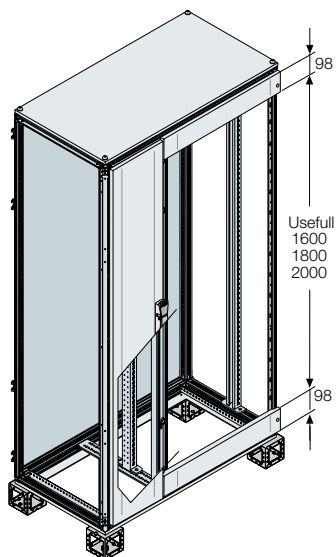
> Quick selection table page 5/12 > In-depth technical information page 7/1 > Overall dimensions page 8/1

Pre-assembled structures

Cabinets for configuration with compartments

Maximum segregation Form 3a.

Examples of configuration and technical characteristics at page 5/114



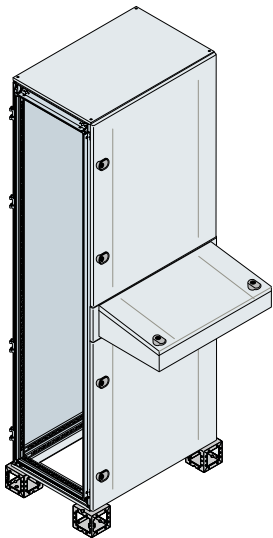
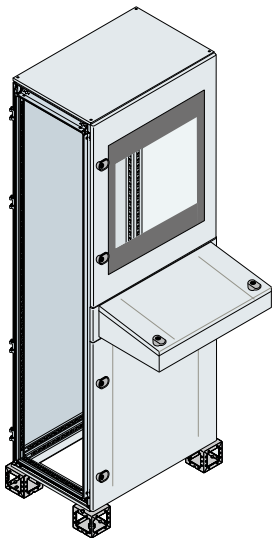
| Cabinet for compart. (mm) | | | Comp. (mm) | Cable cont. * (mm) | Code | Package/ No. of pieces |
|---------------------------|------|------|------------|--------------------|------------|---------------------------|
| H | D | W | W | W | | |
| 2000 | 500 | 1200 | 800 | 400 | ES2025MF4K | 1/1 |
| | 600 | 600 | 600 | - | ES2066MFK | 1/1 |
| | 600 | 800 | 800 | - | ES2086MFK | 1/1 |
| | 600 | 800 | 600 | 200 | ES2086MF2K | 1/1 |
| | 600 | 1000 | 800 | 200 | ES2006MF2K | 1/1 |
| | 600 | 1000 | 600 | 400 | ES2006MF4K | 1/1 |
| | 600 | 1200 | 800 | 400 | ES2026MF4K | 1/1 |
| | 800 | 600 | 600 | - | ES2068MFK | 1/1 |
| | 800 | 800 | 800 | - | ES2088MFK | 1/1 |
| | 800 | 800 | 600 | 200 | ES2088MF2K | 1/1 |
| | 800 | 1000 | 800 | 200 | ES2008MF2K | 1/1 |
| | 800 | 1000 | 600 | 400 | ES2008MF4K | 1/1 |
| | 800 | 1200 | 800 | 400 | ES2028MF4K | 1/1 |
| | 1000 | 600 | 600 | - | ES2060MFK | 1/1 |
| | 1000 | 800 | 800 | - | ES2080MFK | 1/1 |
| | 1000 | 800 | 600 | 200 | ES2080MF2K | 1/1 |
| | 1000 | 1000 | 800 | 200 | ES2000MF2K | 1/1 |
| | 1000 | 1000 | 600 | 400 | ES2000MF4K | 1/1 |
| 2200 | 400 | 600 | 600 | - | ES2264MFK | 1/1 |
| | 400 | 800 | 800 | - | ES2284MFK | 1/1 |
| | 400 | 800 | 600 | 200 | ES2284MF2K | 1/1 |
| | 400 | 1000 | 800 | 200 | ES2204MF2K | 1/1 |
| | 400 | 1000 | 600 | 400 | ES2204MF4K | 1/1 |
| | 400 | 1200 | 800 | 400 | ES2224MF4K | 1/1 |
| | 500 | 600 | 600 | - | ES2265MFK | 1/1 |
| | 500 | 800 | 800 | - | ES2285MFK | 1/1 |
| | 500 | 800 | 600 | 200 | ES2285MF2K | 1/1 |
| | 500 | 1000 | 800 | 200 | ES2205MF2K | 1/1 |
| | 500 | 1000 | 600 | 400 | ES2205MF4K | 1/1 |
| | 500 | 1200 | 800 | 400 | ES2225MF4K | 1/1 |
| | 600 | 600 | 600 | - | ES2266MFK | 1/1 |
| | 600 | 800 | 800 | - | ES2286MFK | 1/1 |
| | 600 | 800 | 600 | 200 | ES2286MF2K | 1/1 |
| | 600 | 1000 | 800 | 200 | ES2206MF2K | 1/1 |
| | 600 | 1000 | 600 | 400 | ES2206MF4K | 1/1 |
| | 600 | 1200 | 800 | 400 | ES2226MF4K | 1/1 |
| | 800 | 600 | 600 | - | ES2268MFK | 1/1 |
| | 800 | 800 | 800 | - | ES2288MFK | 1/1 |
| | 800 | 800 | 600 | 200 | ES2288MF2K | 1/1 |
| | 800 | 1000 | 800 | 200 | ES2208MF2K | 1/1 |
| | 800 | 1000 | 600 | 400 | ES2208MF4K | 1/1 |
| | 800 | 1200 | 800 | 400 | ES2228MF4K | 1/1 |
| | 1000 | 600 | 600 | - | ES2260MFK | 1/1 |
| | 1000 | 800 | 800 | - | ES2280MFK | 1/1 |
| | 1000 | 800 | 600 | 200 | ES2281MF2K | 1/1 |
| | 1000 | 1000 | 800 | 200 | ES2200MF2K | 1/1 |
| | 1000 | 1000 | 600 | 400 | ES2200MF4K | 1/1 |

* Versions inclusive of pair of crosspieces mounted depth-wise and of intermediate upright for door closure.
The cable container can be mounted on the right or left side in the structure. Specify this at the time of ordering.

IS2 Enclosures

Ordering codes

5

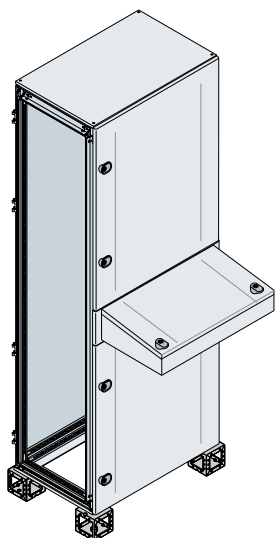


Pre-assembled structures

Cabinets with console

Structure with removable roof, plinth H=100mm consisting of four angle pieces, complete with glazed or blind top door + blind bottom door, console, rear panel and box with key.
To be completed with plinth flanges, cable entry flanges and side panels.

| Dimensions (mm) | | | | | | |
|---------------------------------------------|-----|-----|----------|--|--|-----|
| H | W | D | Code | | | |
| Cabinet with glazed upper door with console | | | | | | |
| 1800 | 600 | 400 | ES1864LK | | | 1/1 |
| | 800 | 400 | ES1884LK | | | 1/1 |
| | 600 | 500 | ES1865LK | | | 1/1 |
| | 800 | 500 | ES1885LK | | | 1/1 |
| | 600 | 600 | ES1866LK | | | 1/1 |
| | 800 | 600 | ES1886LK | | | 1/1 |
| | 600 | 800 | ES1868LK | | | 1/1 |
| | 800 | 800 | ES1888LK | | | 1/1 |
| Cabinet with blind upper door with console | | | | | | |
| 1800 | 600 | 400 | ES1864CK | | | 1/1 |
| | 800 | 400 | ES1884CK | | | 1/1 |
| | 600 | 500 | ES1865CK | | | 1/1 |
| | 800 | 500 | ES1885CK | | | 1/1 |
| | 600 | 600 | ES1866CK | | | 1/1 |
| | 800 | 600 | ES1886CK | | | 1/1 |
| | 600 | 800 | ES1868CK | | | 1/1 |
| | 800 | 800 | ES1888CK | | | 1/1 |



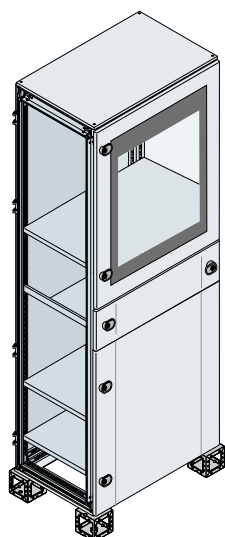
Pre-assembled structures

Cabinets with console

| Dimensions (mm) | | | | | | |
|--------------------------------------------|-----|-----|----------|--|--|---------------------------|
| H | W | D | Code | | | Package/ No. of pieces |
| Cabinet with blind upper door with console | | | | | | |
| 2000 | 600 | 400 | ES2064CK | | | 1/1 |
| | 800 | 400 | ES2084CK | | | 1/1 |
| | 600 | 500 | ES2065CK | | | 1/1 |
| | 800 | 500 | ES2085CK | | | 1/1 |
| | 600 | 600 | ES2066CK | | | 1/1 |
| | 800 | 600 | ES2086CK | | | 1/1 |
| | 600 | 800 | ES2068CK | | | 1/1 |
| | 800 | 800 | ES2088CK | | | 1/1 |

For glass dimension, please refer to the table at page 9/20.

5



PC cabinets

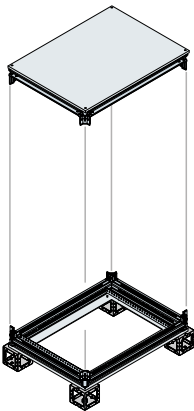
Structure with removable roof, plinth H=100mm consisting of four angle pieces, complete with glazed top door (able to hold monitors up to 17") + blind bottom door, slide-out computer shelf and rear panel. Complete with 4 shelves for monitor, keyboard, printer and paper. To be completed with plinth flanges, cable entry flanges and side panels

| Dimensions (mm) | | | Code | | | Package/ No. of pieces |
|-----------------|-----|-----|-----------|--|--|---------------------------|
| H | W | D | | | | |
| 1800 | 600 | 600 | ES1866PCK | | | 1/1 |
| | 600 | 800 | ES1868PCK | | | 1/1 |
| 2000 | 600 | 600 | ES2066PCK | | | 1/1 |
| | 600 | 800 | ES2068PCK | | | 1/1 |

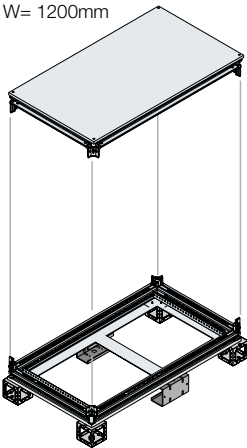
IS2 Enclosures

Ordering codes

W= 400 ÷ 1000mm



W= 1200mm



W= 300mm



Kit versions structures

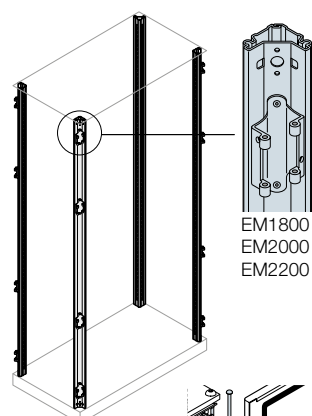
Base/Top

Base, top and plinth angle pieces H=100mm, to be completed with cable entry flanges and plinth flanges. The bases with 1200mm width include the intermediate plinth. The bases W= 300mm are suitable for constructing side container for cable connection and include bottom closure flanges.

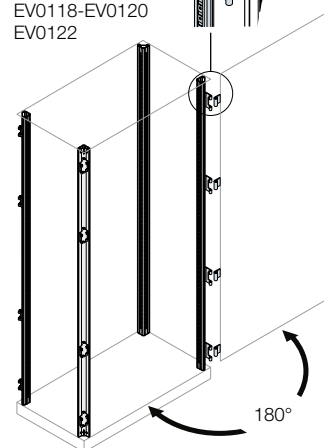
Examples of configuration and technical characteristics at page 5/120

| Dimensions (mm) | | Code | Custom Made Service | | Package/ No. of pieces |
|--------------------------------------|------|-----------------|------------------------|--|---------------------------|
| W | D | | | | |
| STRUCTURE - Base/Top | | | | | |
| 400 | 400 | EK4040KN | ■ | | 1/1 |
| | 500 | EK4050KN | ■ | | 1/1 |
| | 600 | EK4060KN | ■ | | 1/1 |
| | 800 | EK4080KN | ■ | | 1/1 |
| | 1000 | EK4010KN | ■ | | 1/1 |
| 600 | 300 | 1STQ005317B0000 | ■ | | |
| | 400 | EK6040KN | ■ | | 1/1 |
| | 500 | EK6050KN | ■ | | 1/1 |
| | 600 | EK6060KN | ■ | | 1/1 |
| | 800 | EK6080KN | ■ | | 1/1 |
| | 1000 | EK6010KN | ■ | | 1/1 |
| 800 | 300 | 1STQ005318B0000 | ■ | | |
| | 400 | EK8040KN | ■ | | 1/1 |
| | 500 | EK8050KN | ■ | | 1/1 |
| | 600 | EK8060KN | ■ | | 1/1 |
| | 800 | EK8080KN | ■ | | 1/1 |
| | 1000 | EK8010KN | ■ | | 1/1 |
| 1000 | 300 | 1STQ005319B0000 | ■ | | |
| | 400 | EK1040KN | ■ | | 1/1 |
| | 500 | EK1050KN | ■ | | 1/1 |
| | 600 | EK1060KN | ■ | | 1/1 |
| | 800 | EK1080KN | ■ | | 1/1 |
| | 1000 | EK1010KN | ■ | | 1/1 |
| 1200 | 400 | EK1240KN | ■ | | 1/1 |
| | 500 | EK1250KN | ■ | | 1/1 |
| | 600 | EK1260KN | ■ | | 1/1 |
| | 800 | EK1280KN | ■ | | 1/1 |
| EXTERNAL CABLER CONTAINER - Base/Top | | | | | |
| 300 | 400 | EK3040KN | ■ | | 1/1 |
| | 500 | EK3050KN | ■ | | 1/1 |
| | 600 | EK3060KN | ■ | | 1/1 |
| | 800 | EK3080KN | ■ | | 1/1 |

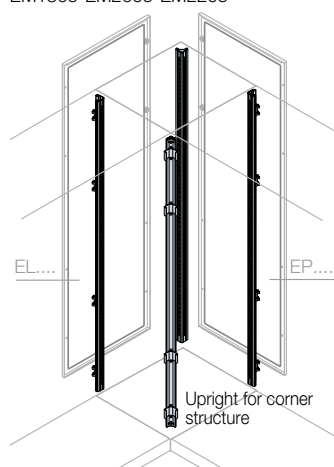
■ The “Custom Made Service” is valid only for structures assembled at the factory, for more information please contact your local sales network.



EV0118-EV0120
EV0122



EM1805-EM2005-EM2205



Kit versions structures

Uprights for standard structures

Structure of the closed section type, drilled with 25mm pitch, galvanised, complete with No.4 multi-purpose hinges already mounted.

| Description | Dimensions (mm) H | Code | Package/ No. of pieces |
|---------------------------------|----------------------|--------|---------------------------|
| NEW Uprights with hinges | 1400 | EM1400 | 1/4 |
| NEW Uprights with hinges | 1600 | EM1600 | 1/4 |
| Uprights with hinges | 1800 | EM1800 | 1/4 |
| Uprights with hinges | 2000 | EM2000 | 1/4 |
| Uprights with hinges | 2200 | EM2200 | 1/4 |

Uprights for structure with hinges for 180° door opening

Mounted on standard base and top, these allow the door to be opened 180° (door to be drilled).

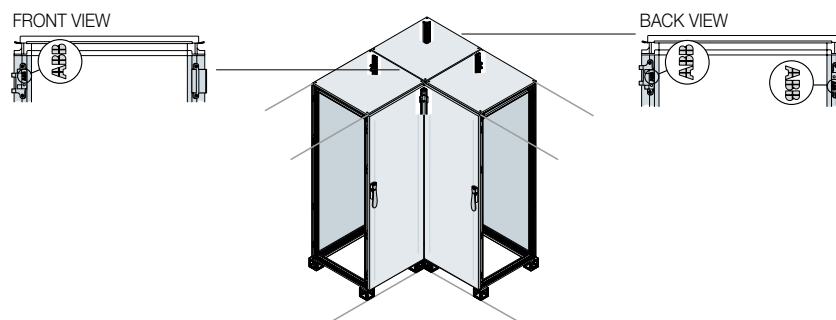
| Description | Dimensions (mm) H | Code | Package/ No. of pieces |
|--------------------------------|----------------------|--------|---------------------------|
| Uprights + hinges opening 180° | 1800 | EV0118 | 1/4 |
| Uprights + hinges opening 180° | 2000 | EV0120 | 1/4 |
| Uprights + hinges opening 180° | 2200 | EV0122 | 1/4 |

Uprights for corner structures

Mounted on standard base and top, these allow batteries of corner enclosures to be built.

| Description | Dimensions (mm) H | Code | Package/ No. of pieces |
|-----------------------------------------------------|----------------------|--------|---------------------------|
| Uprights for corner structure + 3 standard uprights | 1800 | EM1805 | 1/4 |
| Uprights for corner structure + 3 standard uprights | 2000 | EM2005 | 1/4 |
| Uprights for corner structure + 3 standard uprights | 2200 | EM2205 | 1/4 |

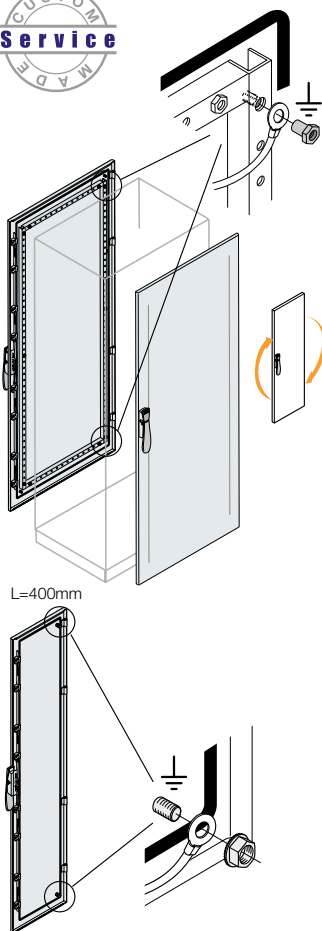
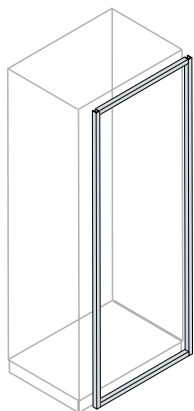
For a composition of a corner structure please order: No.1 EK..0K (base/top); No.1 EM..05 (upright for corner structure + 3 standard uprights); No.1 EP.... (rear panel); No. 1 EL.... (side panel).



IS2 Enclosures

Ordering codes

5



Kit Structure

Horizontal/Vertical IP31 profiles

IP31 closing profiles. In place of standard doors.

| | Dimensions (mm) | | | | |
|-------------------------------------|-----------------|---------|--|--|---------------------------|
| Description | W | Code | | | Package/ No. of pieces |
| IP31 horizontal profile | | | | | |
| N°2 IP31 closure horizontal profile | 400 | EP0400H | | | 1/1 |
| N°2 IP31 closure horizontal profile | 600 | EP0600H | | | 1/1 |
| N°2 IP31 closure horizontal profile | 800 | EP0800H | | | 1/1 |
| N°2 IP31 closure horizontal profile | 1000 | EP1000H | | | 1/1 |
| IP31 vertical profile | | | | | |
| N°2 IP31 closure vertical profile | 1800 | EP1800V | | | 1/1 |
| N°2 IP31 closure vertical profile | 2000 | EP2000V | | | 1/1 |
| N°2 IP31 closure vertical profile | 2200 | EP2200V | | | 1/1 |

Kit versions structures

IP65 blind front or rear doors

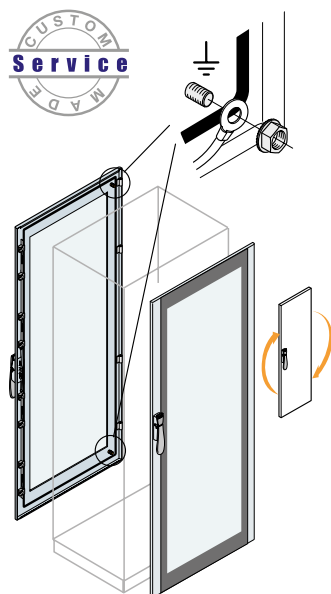
Door made of 2,00mm thick sheet, fitted with polyurethane gasket, complete with handle with double tongue keys (interchangeable with other types of inserts, see page 5/106). Reversible (standard hinging on the right), with 4 closure points and complete with internal reinforcement frame and earthing pins.

| Description | Dimensions (mm) | | Code | Custom Made Service | | Package/ No. of pieces |
|------------------------------------------------------|-----------------|------|------------------------|------------------------|--|---------------------------|
| | H | W | | | | |
| NEW Blind door | 1400 | 400 | EC1440K | | | 1/1 |
| NEW Blind door | | 600 | EC1460K | | | 1/1 |
| NEW Blind door | | 800 | EC1480K | | | 1/1 |
| NEW Blind door | | 1000 | 1STQ005321B0000 | | | |
| NEW Blind door | 1600 | 400 | EC1640K | | | 1/1 |
| NEW Blind door | | 600 | EC1660K | | | 1/1 |
| NEW Blind door | | 800 | EC1680K | | | 1/1 |
| NEW Blind door | | 1000 | EC1610K | | | 1/1 |
| Blind front/rear door external cable container | 1800 | 300 | EC1831K ⁽¹⁾ | ■ | | 1/1 |
| Blind door | | 400 | EC1840K ⁽¹⁾ | ■ | | 1/1 |
| Blind door | | 600 | EC1860K | ■ | | 1/1 |
| Blind door | | 800 | EC1880K | ■ | | 1/1 |
| Blind door | 2000 | 1000 | EC1810K | ■ | | 1/1 |
| Blind front/rear door external cable container | | 300 | EC2031K ⁽¹⁾ | ■ | | 1/1 |
| Blind door | | 400 | EC2040K ⁽¹⁾ | ■ | | 1/1 |
| Blind door | | 600 | EC2060K | ■ | | 1/1 |
| Blind door | | 800 | EC2080K | ■ | | 1/1 |
| Blind door | 2200 | 1000 | EC2012K | ■ | | 1/1 |
| Blind front/rear door external cable container | | 300 | EC2232K ⁽¹⁾ | ■ | | 1/1 |
| Blind door | | 400 | EC2240K ⁽¹⁾ | ■ | | 1/1 |
| Blind door | | 600 | EC2260K | ■ | | 1/1 |
| Blind door | | 800 | EC2280K | ■ | | 1/1 |
| Blind door | | 1000 | EC2210K | ■ | | 1/1 |

■ The "Custom Made Service" is valid only for structures assembled at the factory, for more information please contact your local sales network.

⁽¹⁾ The versions with W=300/400mm do not foresee the internal reinforcement frame.

> Quick selection table page 5/12 > In-depth technical information page 7/1 > Overall dimensions page 8/1



Kit versions structures

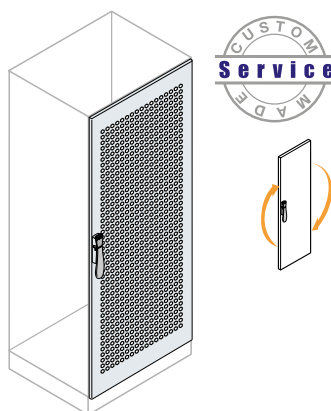
IP65 glazed front or rear doors

Door made of 2,00 thick sheet with 4 mm thick safety glass, fitted with polyurethane gasket, complete with handle with double tongue key (interchangeable with other types of inserts, see page 5/104). Reversible (standard hinging on the right) with 4 closing points and complete with earthing pins.

| Dimensions (mm) | | Code | Custom Made Service | | Package/ No. of pieces |
|-----------------|------|-----------------|---------------------|--|------------------------|
| H | W | | | | |
| 1400 NEW | 600 | 1STQ005328B0000 | | | 1/1 |
| | 800 | 1STQ005329B0000 | | | 1/1 |
| 1600 NEW | 600 | 1STQ005330B0000 | | | 1/1 |
| | 800 | 1STQ005331B0000 | | | 1/1 |
| 1800 | 600 | ET1860K | ■ | | 1/1 |
| | 800 | ET1880K | ■ | | 1/1 |
| | 1000 | ET1810K | ■ | | 1/1 |
| 2000 | 600 | ET2060K | ■ | | 1/1 |
| | 800 | ET2080K | ■ | | 1/1 |
| | 1000 | ET2010K | ■ | | 1/1 |
| 2200 | 600 | ET2260K | ■ | | 1/1 |
| | 800 | ET2280K | ■ | | 1/1 |
| | 1000 | ET2211K | ■ | | 1/1 |

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5



Aerated door IP20

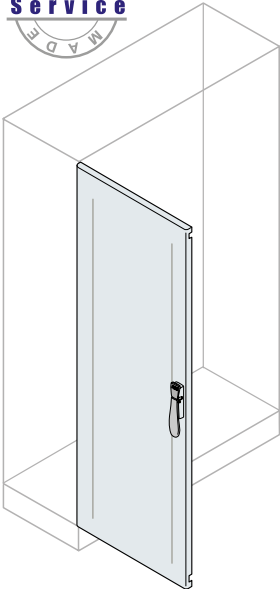
Aerated door made of 2,00 thick sheet, fitted with polyurethane gasket, complete with handle with double tongue key (interchangeable with other types of inserts, see pag. 5/102). Reversible, with 4 closing points and complete with internal reinforcement frame and earthing pins.

| Dimensions (mm) | | Code | Custom Made Service | | | Package/ No. of pieces |
|---------------------------------------------------|-----|--------|------------------------|--|--|---------------------------|
| H | W | | | | | |
| Aerated door for server cabinet | | | | | | |
| 1800 | 800 | EC1882 | ■ | | | 1/1 |
| 2000 | 800 | EC2082 | ■ | | | 1/1 |
| 2200 | 800 | EC2282 | ■ | | | 1/1 |
| Aerated door for server cabinet with 180° opening | | | | | | |
| 1800 | 800 | EC1884 | ■ | | | 1/1 |
| 2000 | 800 | EC2084 | ■ | | | 1/1 |
| 2200 | 800 | EC2284 | ■ | | | 1/1 |

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IS2 Enclosures

Ordering codes



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Kit versions structures

Door with special profile for making cabinets with double doors

The selection of the double door structure in the IS2 enclosures (kit version) can be realised in two different ways:

- without intermediate upright, using one door with a special profile and one door with overlapping closure.
- with intermediate upright, using two doors with special profile closing on intermediate upright.

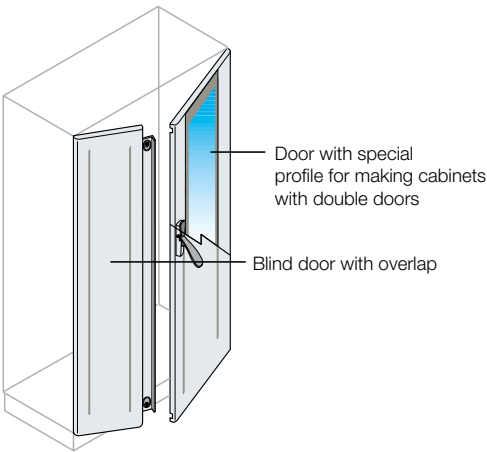
| Dimensions (mm) | | | | | | Package/ No. of pieces |
|--------------------------------|-----|---------------------------|------------------------|--|--|---------------------------|
| H | W | Code | Custom Made Service | | | |
| Blind door for cable container | | | | | | |
| 1800 | 200 | EC1880VC2K ⁽¹⁾ | | | | 1/1 |
| 2000 | | EC2080VC2K ⁽¹⁾ | | | | 1/1 |
| 2200 | | EC2280VC2K ⁽¹⁾ | | | | 1/1 |
| 1800 | 400 | EC1880VC4K ⁽¹⁾ | ■ | | | 1/1 |
| 2000 | | EC2080VC4K ⁽¹⁾ | ■ | | | 1/1 |
| 2200 | | EC2280VC4K ⁽¹⁾ | ■ | | | 1/1 |
| Blind door | | | | | | |
| 1800 | 500 | EC1880FC5K ⁽¹⁾ | ■ | | | 1/1 |
| 2000 | | EC2080FC5K ⁽¹⁾ | ■ | | | 1/1 |
| 2200 | | EC2280FC5K ⁽¹⁾ | ■ | | | 1/1 |
| NEW 1400 | 600 | EC1480FC6K | | | | 1/1 |
| NEW 1600 | | EC1680FC6K | | | | 1/1 |
| 1800 | | EC1880FC6K | ■ | | | 1/1 |
| 2000 | | EC2080FC6K | ■ | | | 1/1 |
| 2200 | | EC2280FC6K | ■ | | | 1/1 |
| 1800 | 800 | EC1880FC8K | ■ | | | 1/1 |
| 2000 | | EC2080FC8K | ■ | | | 1/1 |
| 2200 | | EC2280FC8K | ■ | | | 1/1 |
| Glazed door | | | | | | |
| 1800 | 600 | EC1880FV6K | ■ | | | 1/1 |
| 2000 | | EC2080FV6K | ■ | | | 1/1 |
| 2200 | | EC2280FV6K | ■ | | | 1/1 |
| 1800 | 800 | EC1880FV8K | ■ | | | 1/1 |
| 2000 | | EC2080FV8K | ■ | | | 1/1 |
| 2200 | | EC2280FV8K | ■ | | | 1/1 |

■ The “Custom Made Service” is valid only for structures assembled at the factory, for more information please contact your local sales network.

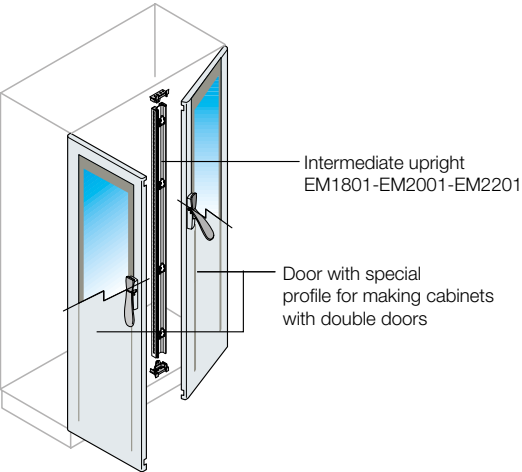
⁽¹⁾ The versions with W=200/300/400/500mm do not foresee the internal reinforcement frame.

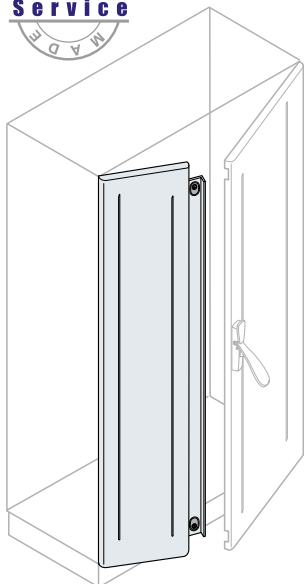
Example of double door enclosures

Doors with overlapping closure



Doors closing on intermediate upright





Kit versions structures

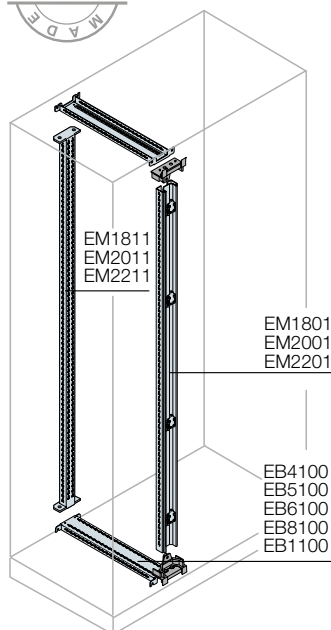
Blind door with overlap

Blind door with overlap side by side with other blind or glazed door without overlap. Allows the enclosure with double door to be made without the use of the upright.

| Dimensions (mm) | | | | | | | |
|-----------------------------------------------------------------------------------|-----|--|-------------------------|---------------------|--|--|------------------------|
| H | W | | Code | Custom Made Service | | | Package/ No. of pieces |
| Blind door with overlap for double door version/ replacement rear panel with door | | | | | | | |
| <div>NEW</div> 1400 | 600 | | ED1412SK | | | | 1/1 |
| <div>NEW</div> 1600 | 600 | | ED1612SK | | | | 1/1 |
| 1800 | 200 | | ED1802SK ⁽¹⁾ | | | | 1/1 |
| | 400 | | ED1804SK ⁽¹⁾ | ED1808DPKM | | | 1/1 |
| | 500 | | ED1810SK ⁽¹⁾ | ED1810DPKM | | | 1/1 |
| | 600 | | ED1812SK | ED1812DPKM | | | 1/1 |
| | 800 | | ED1816SK | ED1816DPKM | | | 1/1 |
| 2000 | 200 | | ED2002SK ⁽¹⁾ | | | | 1/1 |
| | 400 | | ED2004SK ⁽¹⁾ | ED2008DPKM | | | 1/1 |
| | 500 | | ED2010SK ⁽¹⁾ | ED2010DPKM | | | 1/1 |
| | 600 | | ED2012SK | ED2012DPKM | | | 1/1 |
| | 800 | | ED2016SK | ED2016DPKM | | | 1/1 |
| 2200 | 200 | | ED2202SK ⁽¹⁾ | | | | 1/1 |
| | 400 | | ED2204SK ⁽¹⁾ | ED2208DPKM | | | 1/1 |
| | 500 | | ED2210SK ⁽¹⁾ | ED2210DPKM | | | 1/1 |
| | 600 | | ED2212SK | ED2212DPKM | | | 1/1 |
| | 800 | | ED2216SK | ED2216DPKM | | | 1/1 |

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⁽¹⁾ The versions with W=200/400/500mm do not foresee the internal reinforcement frame.



Intermediate uprights for cable container or double door

These allow the structure to be divided into two parts

| Description | Dimensions (mm) | | Code | Package/ No. of pieces |
|-----------------------------------------------|-----------------|--|-----------------------|------------------------|
| | H | | | |
| Intermediate upright for structure | 1800 | | EM1801 | 1/1 |
| Intermediate upright for structure | 2000 | | EM2001 | 1/1 |
| Intermediate upright for structure | 2200 | | EM2201 | 1/1 |
| Intermediate rear upright for cable container | 1800 | | EM1811 ⁽¹⁾ | 1/1 |
| Intermediate rear upright for cable container | 2000 | | EM2011 ⁽¹⁾ | 1/1 |
| Intermediate rear upright for cable container | 2200 | | EM2211 ⁽¹⁾ | 1/1 |

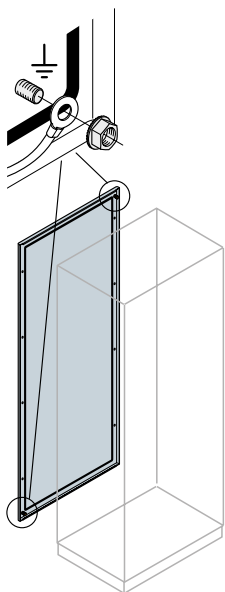
⁽¹⁾ To be fixed directly on the structure.

Intermediate crosspieces for cable container (mounted depth-wise)

| Description | Dimensions (mm) | | Code | Package/ No. of pieces |
|------------------------------|-----------------|--|--------|------------------------|
| | D | | | |
| Pair of crosspieces for base | 400 | | EB4100 | 1/2 |
| Pair of crosspieces for base | 500 | | EB5100 | 1/2 |
| Pair of crosspieces for base | 600 | | EB6100 | 1/2 |
| Pair of crosspieces for base | 800 | | EB8100 | 1/2 |
| Pair of crosspieces for base | 1000 | | EB1100 | 1/2 |

IS2 Enclosures

Ordering codes



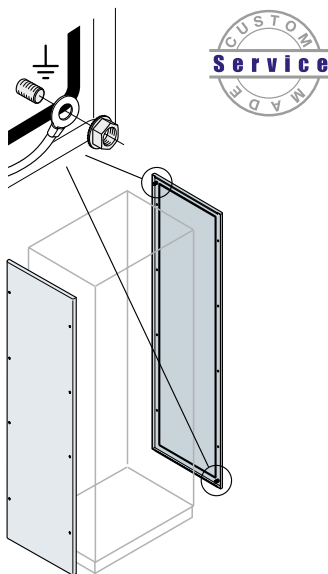
Kit versions structures

IP65 Rear panels

Panel made of 1,5mm thick sheet, fitted with polyurethane basket, complete with earthing pins. Can be replaced with front/rear doors.

| Dimensions (mm) | | | Custom | | Package/ |
|-------------------------------------|------|-----------------|--------------|--|---------------|
| H | W | Code | Made Service | | No. of pieces |
| Rear panel external cable container | | | | | |
| 1800 | | EP1830K | | | 1/1 |
| 2000 | 300 | EP2030K | | | 1/1 |
| 2200 | | EP2231K | | | 1/1 |
| Rear panel | | | | | |
| NEW 1400 | 400 | EP1440K | | | 1/1 |
| | 600 | EP1460K | | | 1/1 |
| | 800 | EP1480K | | | 1/1 |
| | 1000 | 1STQ005320B0000 | | | 1/1 |
| | 1200 | EP1412K | | | 1/1 |
| NEW 1600 | 400 | EP1640K | ■ | | 1/1 |
| | 600 | EP1660K | ■ | | 1/1 |
| | 800 | EP1680K | ■ | | 1/1 |
| | 1000 | EP1610K | ■ | | 1/1 |
| | 1200 | EP1612K | ■ | | 1/1 |
| 1800 | 300 | EP1830K | ■ | | 1/1 |
| | 400 | EP1840K | ■ | | 1/1 |
| | 600 | EP1860K | ■ | | 1/1 |
| | 800 | EP1880K | ■ | | 1/1 |
| | 1000 | EP1811K | ■ | | 1/1 |
| | 1200 | EP1812K | ■ | | 1/1 |
| 2000 | 300 | EP2030K | ■ | | 1/1 |
| | 400 | EP2041K | ■ | | 1/1 |
| | 600 | EP2060K | ■ | | 1/1 |
| | 800 | EP2080K | ■ | | 1/1 |
| | 1000 | EP2010K | ■ | | 1/1 |
| | 1200 | EP2012K | ■ | | 1/1 |
| 2200 | 300 | EP2231K | ■ | | 1/1 |
| | 400 | EP2240K | ■ | | 1/1 |
| | 600 | EP2260K | ■ | | 1/1 |
| | 800 | EP2280K | ■ | | 1/1 |
| | 1000 | EP2210K | ■ | | 1/1 |
| | 1200 | EP2212K | ■ | | 1/1 |

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Kit versions structures

IP65 Side blind panels

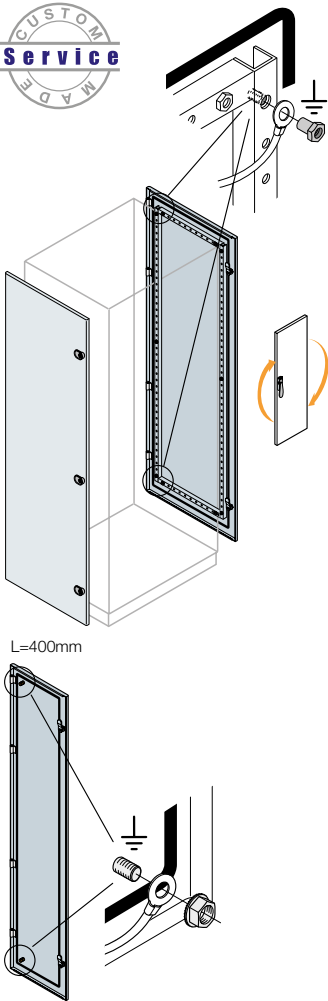
Panel made of 1,5mm thick sheet, fitted with polyurethane gasket, complete with earthing pins. Replaceable with side doors.

| Dimensions (mm) | | Code | Custom Made Service | | | Package/ No. of pieces |
|-------------------------|------|-----------------|------------------------|--|--|---------------------------|
| H | W | | | | | |
| No. 1 Blind side panel | | | | | | |
| 1800 | 400 | EL1841K | | | | 1/1 |
| | 500 | EL1851K | | | | 1/1 |
| | 600 | EL1861K | | | | 1/1 |
| | 800 | EL1881K | | | | 1/1 |
| | 1000 | EL1811K | | | | 1/1 |
| 2000 | 400 | EL2041K | | | | 1/1 |
| | 500 | EL2051K | | | | 1/1 |
| | 600 | EL2061K | | | | 1/1 |
| | 800 | EL2081K | | | | 1/1 |
| | 1000 | EL2011K | | | | 1/1 |
| 2200 | 400 | EL2241K | | | | 1/1 |
| | 500 | EL2251K | | | | 1/1 |
| | 600 | EL2261K | | | | 1/1 |
| | 800 | EL2281K | | | | 1/1 |
| | 1000 | EL2211K | | | | 1/1 |
| No. 2 Blind side panels | | | | | | |
| NEW 1400 | 300 | 1STQ005322B0000 | | | | 1/2 |
| | 400 | EL1440K | | | | 1/2 |
| | 500 | 1STQ005323B0000 | | | | 1/2 |
| | 600 | EL1460K | | | | 1/2 |
| | 800 | EL1480K | | | | 1/2 |
| NEW 1600 | 300 | 1STQ005324B0000 | | | | 1/2 |
| | 400 | 1STQ005325B0000 | | | | 1/2 |
| | 500 | EL1650K | | | | 1/2 |
| | 600 | EL1660K | | | | 1/2 |
| | 800 | EL1680K | | | | 1/2 |
| 1800 | 1000 | EL1610K | | | | 1/2 |
| | 400 | EL1840K | ■ | | | 1/2 |
| | 500 | EL1850K | ■ | | | 1/2 |
| | 600 | EL1860K | ■ | | | 1/2 |
| | 800 | EL1880K | ■ | | | 1/2 |
| 2000 | 1000 | EL1810K | ■ | | | 1/2 |
| | 400 | EL2040K | ■ | | | 1/2 |
| | 500 | EL2050K | ■ | | | 1/2 |
| | 600 | EL2060K | ■ | | | 1/2 |
| | 800 | EL2080K | ■ | | | 1/2 |
| 2200 | 1000 | EL2012K | ■ | | | 1/2 |
| | 400 | EL2240K | ■ | | | 1/2 |
| | 500 | EL2250K | ■ | | | 1/2 |
| | 600 | EL2260K | ■ | | | 1/2 |
| | 800 | EL2280K | ■ | | | 1/2 |
| | 1000 | EL2210K | ■ | | | 1/2 |

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IS2 Enclosures

Ordering codes



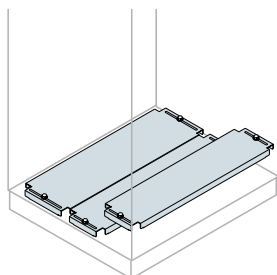
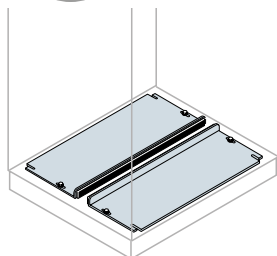
Completion of structures

IP65 blind side doors

Reversible 1,5mm thick sheet door, fitted with polyurethane gasket, complete with n 2 box with key-with double tongue (interchangeable with other types of inserts, see page 5/104) complete with internal reinforcement frame and earthing pins.

| Dimensions (mm) | | D Structure | Code | Custom Made Service | | | Package/ No. of pieces |
|-----------------|------|-------------|---------|------------------------|--|--|---------------------------|
| H | W | | | | | | |
| Blind side door | | | | | | | |
| 1800 | 400 | 400 | EC1841K | ■ | | | 1/1 |
| | 500 | 500 | EC1851K | ■ | | | 1/1 |
| | 600 | 600 | EC1861K | ■ | | | 1/1 |
| | 800 | 800 | EC1881K | ■ | | | 1/1 |
| | 1000 | 1000 | EC1811K | ■ | | | 1/1 |
| 2000 | 400 | 400 | EC2041K | ■ | | | 1/1 |
| | 500 | 500 | EC2051K | ■ | | | 1/1 |
| | 600 | 600 | EC2061K | ■ | | | 1/1 |
| | 800 | 800 | EC2081K | ■ | | | 1/1 |
| | 1000 | 1000 | EC2011K | ■ | | | 1/1 |
| 2200 | 400 | 400 | EC2241K | ■ | | | 1/1 |
| | 500 | 500 | EC2251K | ■ | | | 1/1 |
| | 600 | 600 | EC2261K | ■ | | | 1/1 |
| | 800 | 800 | EC2281K | ■ | | | 1/1 |
| | 1000 | 1000 | EC2211K | ■ | | | 1/1 |

■ The “Custom Made Service” is valid only for structures assembled at the factory, for more information please contact your local sales network.



Completion of structures

Cable entry flanges

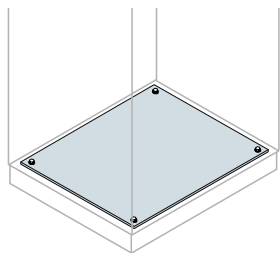
The thickness for the sliding/fixed cable entry flanges is 2,00mm, for the built-up flanges is 1,5mm.

| Dimensions (mm) | | Cod | Custom Made Service | | | Package/ No. of pieces |
|-----------------------------------|------|----------|------------------------|--|--|---------------------------|
| W | D | | | | | |
| Sliding cable entry flanges IP40 | | | | | | |
| 400 | 400 | EF4040 | ■ | | | 1/1 |
| 600 | | EF6040 | ■ | | | 1/1 |
| 800 | | EF8040 | ■ | | | 1/1 |
| 1000 | | EF1040 | ■ | | | 1/1 |
| 1200 | | 2xEF6040 | ■ | | | 1/1 |
| 1600 | | 2xEF8040 | ■ | | | 1/1 |
| 400 | 500 | EF4050 | ■ | | | 1/1 |
| 600 | | EF6050 | ■ | | | 1/1 |
| 800 | | EF8050 | ■ | | | 1/1 |
| 1000 | | EF1053 | ■ | | | 1/1 |
| 1200 | | 2xEF6050 | ■ | | | 1/1 |
| 1600 | | 2xEF8050 | ■ | | | 1/1 |
| 400 | 600 | EF4060 | ■ | | | 1/1 |
| 600 | | EF6060 | ■ | | | 1/1 |
| 800 | | EF8060 | ■ | | | 1/1 |
| 1000 | | EF1060 | ■ | | | 1/1 |
| 1200 | | 2xEF6060 | ■ | | | 1/1 |
| 1600 | | 2xEF8060 | ■ | | | 1/1 |
| 400 | 800 | EF4080 | ■ | | | 1/1 |
| 600 | | EF6080 | ■ | | | 1/1 |
| 800 | | EF8080 | ■ | | | 1/1 |
| 1000 | | EF1080 | ■ | | | 1/1 |
| 1200 | | 2xEF6080 | ■ | | | 1/1 |
| 1600 | | 2xEF8080 | ■ | | | 1/1 |
| 400 | 1000 | EF4010 | ■ | | | 1/1 |
| 600 | | EF6010 | ■ | | | 1/1 |
| 800 | | EF8010 | ■ | | | 1/1 |
| 1000 | | EF1010 | ■ | | | 1/1 |
| 1200 | | 2xEF6010 | ■ | | | 1/1 |
| 1600 | | 2xEF8010 | ■ | | | 1/1 |
| Built-up cable entry flanges IP40 | | | | | | |
| 400 | 400 | EF4041 | ■ | | | 1/1 |
| 600 | | EF6041 | ■ | | | 1/1 |
| 800 | | EF8041 | ■ | | | 1/1 |
| 1000 | | EF1041 | ■ | | | 1/1 |
| 1200 | | 2xEF6041 | ■ | | | 1/1 |
| 1600 | | 2xEF8041 | ■ | | | 1/1 |
| 400 | 500 | EF4051 | ■ | | | 1/1 |
| 600 | | EF6051 | ■ | | | 1/1 |
| 800 | | EF8051 | ■ | | | 1/1 |
| 1000 | | EF1051 | ■ | | | 1/1 |
| 1200 | | 2xEF6051 | ■ | | | 1/1 |
| 1600 | | 2xEF8051 | ■ | | | 1/1 |
| 400 | 600 | EF4061 | ■ | | | 1/1 |
| 600 | | EF6061 | ■ | | | 1/1 |
| 800 | | EF8061 | ■ | | | 1/1 |
| 1000 | | EF1061 | ■ | | | 1/1 |
| 1200 | | 2xEF6061 | ■ | | | 1/1 |
| 1600 | | 2xEF8061 | ■ | | | 1/1 |
| 400 | 800 | EF4081 | ■ | | | 1/1 |
| 600 | | EF6081 | ■ | | | 1/1 |
| 800 | | EF8081 | ■ | | | 1/1 |
| 1000 | | EF1081 | ■ | | | 1/1 |
| 1200 | | 2xEF6081 | ■ | | | 1/1 |
| 1600 | | 2xEF8081 | ■ | | | 1/1 |
| 400 | 1000 | EF4011 | ■ | | | 1/1 |
| 600 | | EF6011 | ■ | | | 1/1 |
| 800 | | EF8011 | ■ | | | 1/1 |
| 1000 | | EF1011 | ■ | | | 1/1 |
| 1200 | | 2xEF6011 | ■ | | | 1/1 |
| 1600 | | 2xEF8011 | ■ | | | 1/1 |

■ The "Custom Made Service" is valid only for structures assembled at the factory, for more information please contact your local sales network.

IS2 Enclosures

Ordering codes

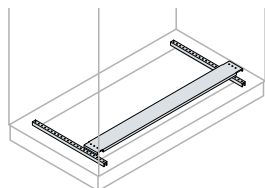


Completion of structures

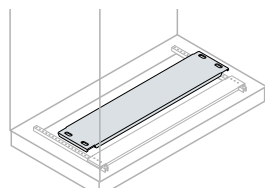
Cable entry flanges

| Dimensions (mm) | | Code | Custom Made Service | | Package/ No. of pieces |
|--------------------------------|------|-----------------|------------------------|--|---------------------------|
| W | D | | | | |
| Fixed cable entry flanges IP65 | | | | | |
| 600 | 300 | 1STQ005426B0000 | | | 1/1 |
| 800 | | 1STQ005427B0000 | | | 1/1 |
| 1000 | | 1STQ005428B0000 | | | 1/1 |
| 400 | 400 | EF4042 | ■ | | 1/1 |
| 600 | | EF6043 | ■ | | 1/1 |
| 800 | | EF8042 | ■ | | 1/1 |
| 1000 | | EF1042 | ■ | | 1/1 |
| 1200 | | 2xEF6043 | ■ | | 1/1 |
| 1600 | | 2xEF8042 | ■ | | 1/1 |
| 400 | 500 | EF4052 | ■ | | 1/1 |
| 600 | | EF6052 | ■ | | 1/1 |
| 800 | | EF8052 | ■ | | 1/1 |
| 1000 | | EF1052 | ■ | | 1/1 |
| 1200 | | 2xEF6052 | ■ | | 1/1 |
| 1600 | | 2xEF8052 | ■ | | 1/1 |
| 400 | 600 | EF4063 | ■ | | 1/1 |
| 600 | | EF6062 | ■ | | 1/1 |
| 800 | | EF8062 | ■ | | 1/1 |
| 1000 | | EF1062 | ■ | | 1/1 |
| 1200 | | 2xEF6062 | ■ | | 1/1 |
| 1600 | | 2xEF8062 | ■ | | 1/1 |
| 400 | 800 | EF4082 | ■ | | 1/1 |
| 600 | | EF6082 | ■ | | 1/1 |
| 800 | | EF8082 | ■ | | 1/1 |
| 1000 | | EF1082 | ■ | | 1/1 |
| 1200 | | 2xEF6082 | ■ | | 1/1 |
| 1600 | | 2xEF8082 | ■ | | 1/1 |
| 400 | 1000 | EF4012 | ■ | | 1/1 |
| 600 | | EF6012 | ■ | | 1/1 |
| 800 | | EF8012 | ■ | | 1/1 |
| 1000 | | EF1012 | ■ | | 1/1 |
| 1200 | | 2xEF6012 | ■ | | 1/1 |
| 1600 | | 2xEF8012 | ■ | | 1/1 |

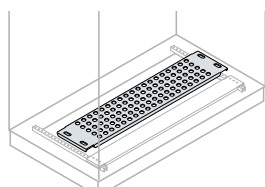
■ The "Custom Made Service" is valid only for structures assembled at the factory, for more information please contact your local sales network.



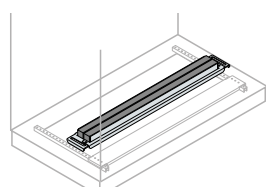
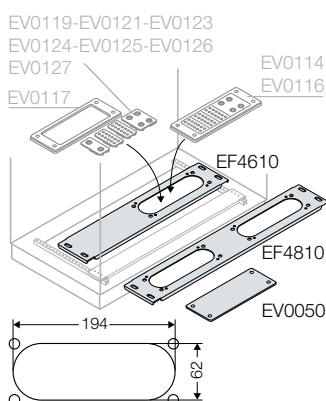
EV0132-EV0133-EV0134
EV0135-EV0136-EV0137



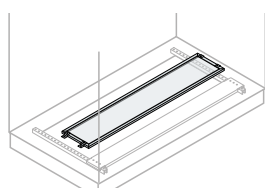
EF2610-EF2810-EF2620-EF2820



EF3610-EF3810



EF6610-EF6810



EF9620-EF9820

Completion of structures

Modular base plates

Using the modular plates it is possible change the configuration of the base of the enclosure, favoring a high level of customization.

Different solutions are available:

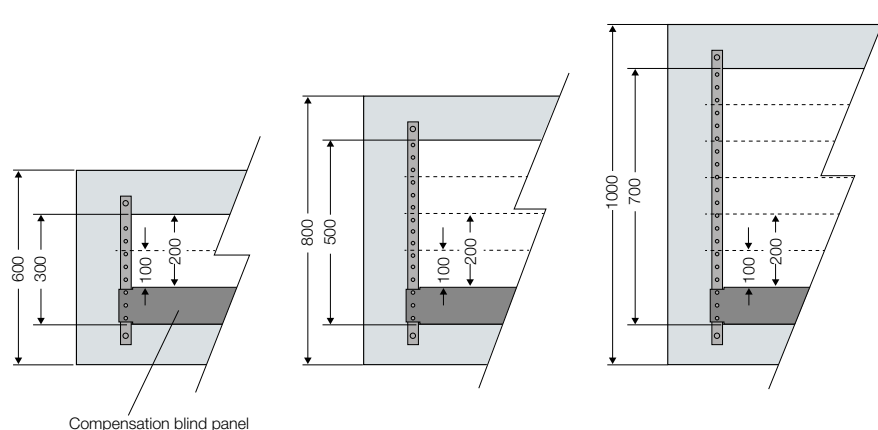
- single blind plate
- single aerated plate
- single plate with plastic cable entry flange
- single plate with gasket for cable entry

To complete the IS2 base with single modular plates it is necessary order the fixing profiles, that are made up of two profile and a compensation blind plate.

| Description | Dimensions (mm) | | Code | | | Package/ No. of pieces |
|--------------------------------------------|-----------------|------|--------|--|--|---------------------------|
| | W | D | | | | |
| Kit for mounting single modular plate | | | | | | |
| Kit for fixing bottom plate | 600 | 600 | EV0132 | | | 1/1 |
| Kit for fixing bottom plate | | 800 | EV0133 | | | 1/1 |
| Kit for fixing bottom plate | | 1000 | EV0134 | | | 1/1 |
| Kit for fixing bottom plate | 800 | 600 | EV0135 | | | 1/1 |
| Kit for fixing bottom plate | | 800 | EV0136 | | | 1/1 |
| Kit for fixing bottom plate | | 1000 | EV0137 | | | 1/1 |
| Single blind bottom plate | | | | | | |
| Single blind bottom plate | 600 | 100 | EF2610 | | | 1/1 |
| Single blind bottom plate | 800 | | EF2810 | | | 1/1 |
| Single blind bottom plate | 600 | 200 | EF2620 | | | 1/1 |
| Single blind bottom plate | 800 | | EF2820 | | | 1/1 |
| Single aerated bottom plate | | | | | | |
| Single aerated bottom plate | 600 | 100 | EF3610 | | | 1/1 |
| Single aerated bottom plate | 800 | | EF3810 | | | 1/1 |
| Single bottom plate for cable entry flange | | | | | | |
| Single plate 1 cable entry flange | 600 | 100 | EF4610 | | | 1/1 |
| Single plate 2 cable entry flanges | 800 | 100 | EF4810 | | | 1/1 |
| No.1 closure plate | | | EV0050 | | | 1/1 |
| Single bottom plate with gasket | | | | | | |
| Single bottom plate with gasket | 600 | 100 | EF6610 | | | 1/1 |
| Single bottom plate with gasket | 800 | 100 | EF6810 | | | 1/1 |
| Single filter bottom plate* | | | | | | |
| Single filter bottom plate | 600 | 200 | EF9620 | | | 1/1 |
| Single filter bottom plate | 800 | 200 | EF9820 | | | 1/1 |

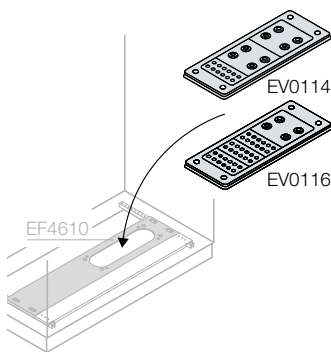
Useful space in the base of enclosure

Example: base 600x600mm (LxP): order No.1 kit for mounting single modular plate EV0132 + No.1 EF2610 + No.1 EF4610.



IS2 Enclosures

Ordering codes

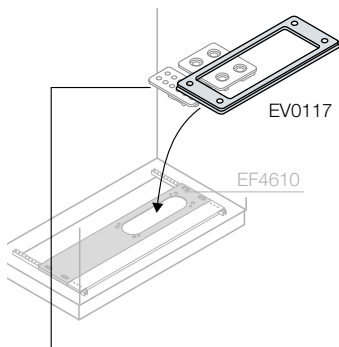


Completion of structures

Modular preconfigured cable entry flange IP65

The cable glands allow to install several cables and ensure the protection of the components within the enclosures. The inserts are equipped with a membrane that can be easily perforated by the cable. There is the possibility of installing cable glands and flange with clamp. Colour gray RAL 7035, operating temperature from -20 ° C to +125 ° C, IP65 according to EN 60529 specifications.

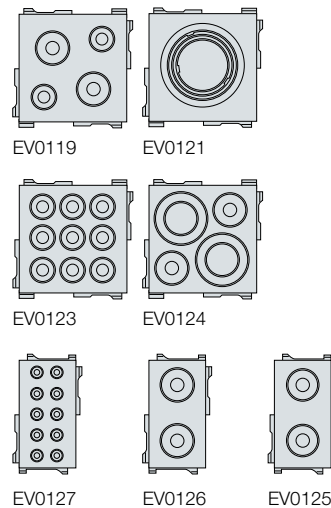
| Description | Dimensions (mm) | | Code | | | Package/ No. of pieces |
|------------------------------------------------------------------------------------------------------------------------------------|-----------------|----|--------|--|--|---------------------------|
| | W | D | | | | |
| Modular preconfigured cable entry gland IP65 | | | | | | |
| No.10 preconfigured cable entry flanges for 28 cables Ø min/max 7/14 and 10 cables Ø min/max 4/10mm | 214 | 90 | EV0114 | | | 1/10 |
| No.10 preconfigured cable entry flanges for 34 cables Ø min/max 4/10, 2 for M20 Ø min/max 6/13mm and 2 cables M25 Ø min/max 8/17mm | 214 | 90 | EV0116 | | | 1/10 |



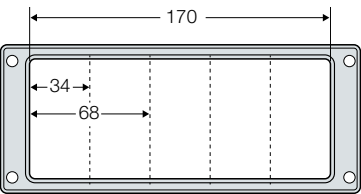
Cable entry flanges configurable with single inserts IP65

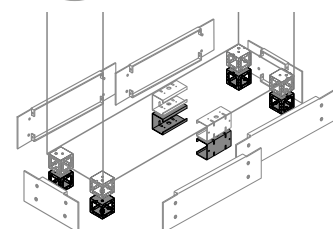
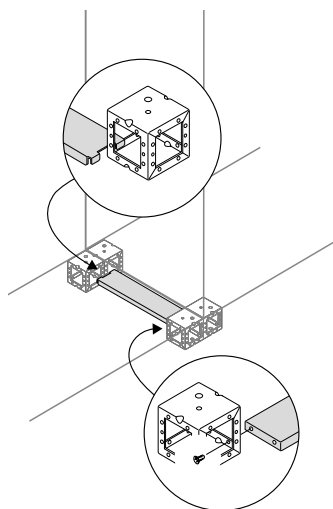
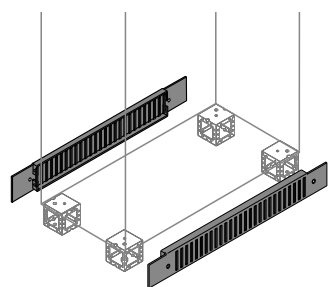
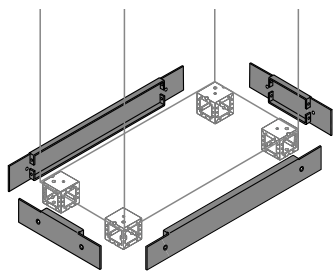
Thanks to the frame and to the inserts available, it is possible to customize the flange according to the size, quantity of the cables to be installed. The inserts are equipped with a membrane that can be easily perforated by the cable without the need to use any tool. There is the possibility of installing cable frames and cable with clamp. Colour gray RAL 7035, operating temperature from -20 ° C to +125 ° C, IP 65 according to EN 60529 specifications.

| Description | Dimensions (mm) | | Code | | | Package/ No. of pieces |
|-----------------------------------------------------------------------------------------------------------------|-----------------|----|--------|--|--|---------------------------|
| | W | D | | | | |
| Configurable modular flange | | | | | | |
| No.1 Cable entry gland frame to configure with single insert | 214 | 90 | EV0117 | | | 1/1 |
| Inserts for configurable modular flange | | | | | | |
| No.10 inserts 68x68mm for entry No.4 cables, 2 cables M25 (Ø min/max 8/17mm) 2 Cables M16 (Ø min/max 5/10mm) | 68 | 68 | EV0119 | | | 1/10 |
| No.10 inserts 68x68mm for entry No.1 cable M32 / M40 / M50 | 68 | 68 | EV0121 | | | 1/10 |
| No.10 inserts 68x68mm for entry No.9 cables (Ø min/max 7/14mm) | 68 | 68 | EV0123 | | | 1/10 |
| No.10 inserts 68x68mm for entry No.4 cables, 2 Ø min/max 10/20 e 2 Ø min/max 20/30mm | 68 | 68 | EV0124 | | | 1/10 |
| No.10 inserts 34x68mm for entry No.2 cables Ø min/max 8/17mm | 34 | 68 | EV0125 | | | 1/10 |
| No.10 inserts 34x68mm for entry No.2 cables Ø min/max 6/13mm | 34 | 68 | EV0126 | | | 1/10 |
| No.10 inserts 34x68mm for entry No.10 cables Ø min/max 4/10mm | 34 | 68 | EV0127 | | | 1/10 |



Useful space for inserts





Completion of structures

Flanges front/rear H=100mm

Removable flanges made of 1,00mm sheet painted orange peel RAL 7012 colour (not self-supporting).

| Description | Dimensions (mm) | | Code | | | Package/ No. of pieces |
|-------------------------------------|-----------------|------|-----------|--|--|---------------------------|
| | H | W | | | | |
| Blind flanges | | | | | | |
| Pair of side flanges | 100 | 300 | ZN3000 | | | 1/2 |
| Pair of side flanges | | 400 | ZN4000 | | | 1/2 |
| Pair of side flanges | | 500 | ZN5000 | | | 1/2 |
| Pair of flanges, front/back | | 600 | ZN6000 | | | 1/2 |
| Pair of flanges, front/back | | 800 | ZN8000 | | | 1/2 |
| Pair of flanges, front/back | | 1000 | ZN1000 | | | 1/2 |
| Pair of flanges, front/back | | 1200 | ZN1200 | | | 1/2 |
| Pair of flanges, front/back | | 1200 | 2xZN6000* | | | 1/2 |
| Pair of flanges, front/back | | 1600 | 2xZN8000* | | | 1/2 |
| Aerated flanges | | | | | | |
| Pair of aerated flanges, front/back | 100 | 600 | ZN0006 | | | 1/2 |
| Pair of aerated flanges, front/back | | 800 | ZN0008 | | | 1/2 |
| Pair of aerated flanges, front/back | | 1000 | ZN0010 | | | 1/2 |
| Pair of aerated flanges, front/back | | 1200 | 2xZN0006* | | | 1/2 |
| Pair of aerated flanges, front/back | | 1600 | 2xZN0008* | | | 1/2 |

* IS2 structures W=1200/1600mm are provided with intermediate plinth.

Flange in depth for cable supporting and structure reinforcement.

The flange in depth for cable supporting and structure reinforcement has the purpose of holding the cables from the ground in the enclosure batteries during handling and to create a link between the front plinth and rear plinth of the batteries, in order to reinforce the structure.

| Description | Dimensions (mm) | | Code | | | Package/ No. of pieces |
|--------------------------|-----------------|---|--------|--|--|---------------------------|
| | W | H | | | | |
| Support flange for cable | 400 | | ZN4001 | | | 1/1 |
| Support flange for cable | 500 | | ZN5001 | | | 1/1 |
| Support flange for cable | 600 | | ZN6001 | | | 1/1 |
| Support flange for cable | 800 | | ZN8001 | | | 1/1 |
| Support flange for cable | 1000 | | ZN1001 | | | 1/1 |

Additional Plinth

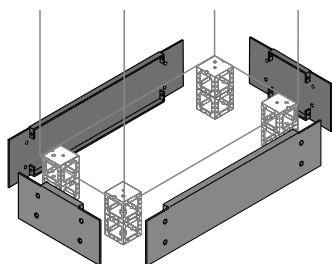
To obtain a plinth 200mm high, order a kit of angle pieces H=100mm to be added to the angle pieces already present on the structure. Complete with 2 covering flanges (H=100mm) for each side of the structure.

| Description | Dimensions (mm) H | Code | Custom Made Service | | | Package/ No. of pieces |
|------------------------------------------------------------|-------------------|--------|---------------------|--|--|---------------------------|
| No. 4 angle pieces 2,5mm thickness | 100 | ZN1010 | ■ | | | 1/4 |
| No. 2 angle pieces 2,5mm thickness for intermediate plinth | 100 | ZN1020 | ■ | | | 1/2 |

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IS2 Enclosures

Ordering codes



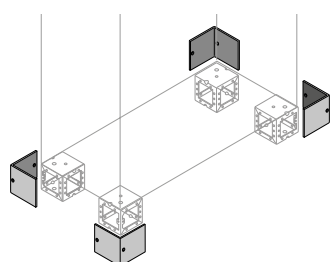
Completion of structures

Plinth Covering Flanges H=200mm

Removable flanges made of 1,5mm thick sheet painted orange peel RAL 7012 colour (not self-supporting).

| Description | Dimensions (mm) | | Code | | | Package/ No. of pieces |
|---------------------------------------------|-----------------|------|----------|--|--|---------------------------|
| | H | W | | | | |
| Blind flanges H=200mm for additional plinth | | | | | | |
| Pair of flanges, front/back/side | 200 | 400 | ZN4002 | | | 1/2 |
| Pair of flanges side | | 500 | ZN5002 | | | 1/2 |
| Pair of flanges, front/back/side | | 600 | ZN6002 | | | 1/2 |
| Pair of flanges, front/back/side | | 800 | ZN8002 | | | 1/2 |
| Pair of flanges, front/back/side | | 1000 | ZN1002 | | | 1/2 |
| Pair of flanges, front/back | | 1200 | 2xZN6002 | | | 1/2 |
| Pair of flanges, front/back | | 1600 | 2xZN8002 | | | 1/2 |

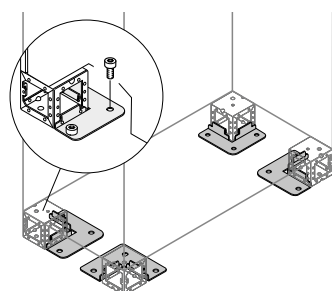
5



Covers "L" shaped for single plinth

It allows to cover the sides of the plinth in case of non-use of plinth flanges.

| Description | Dimensions (mm) | | Code | | | Package/ No. of pieces |
|-----------------------|-----------------|---|--------|--|--|---------------------------|
| | H | W | | | | |
| No.4 cover for plinth | 100 | | ZN1040 | | | 1/4 |



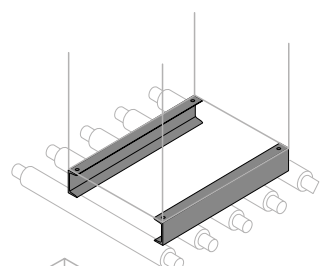
Brackets for floor fixing

| Description | Code | | | | Package/ No. of pieces |
|--------------------------------|--------|--|--|--|---------------------------|
| No.4 brackets for floor fixing | ZN1041 | | | | 1/4 |

Reinforced plinth H=100mm

Shaped steel beam, to be mounted in replacement of the angle pieces. Allows handling by means of rollers. The lateral covering flanges cannot be mounted. Grey RAL 7012 colour and with 2,5mm thickness.

| Description | Dimensions (mm) | | Code | | | |
|--------------------------|-----------------|------|--------|--|--|-----|
| | H | W | | | | |
| No.2 steel beams H=100mm | 100 | 400 | EZ4001 | | | 1/2 |
| No.2 steel beams H=100mm | 100 | 600 | EZ6001 | | | 1/2 |
| No.2 steel beams H=100mm | 100 | 800 | EZ8001 | | | 1/2 |
| No.2 steel beams H=100mm | 100 | 1000 | EZ1001 | | | 1/2 |
| No.2 steel beams H=100mm | 100 | 1200 | EZ1201 | | | 1/2 |
| No.2 steel beams H=100mm | 100 | 1600 | EZ1601 | | | 1/2 |

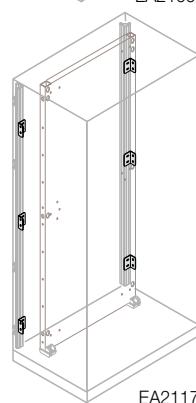
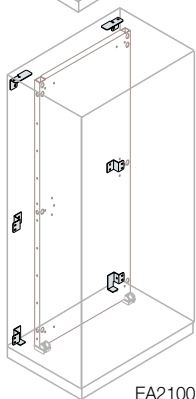
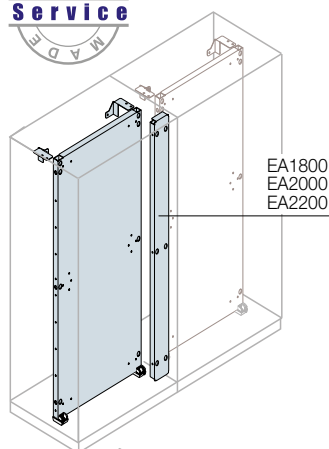


Single plinth for side by side enclosures

Plinth in a single piece fitted with reinforcement tubes mounted in depth, allows lifting of side-by-side enclosures and those fitted with particularly heavy accessory components. Height: 100/200mm, length up to 6 metres. Grey RAL 7012 colour orange peel. The number of reinforcement tubes depends on the width of the battery (see page 9/38). 2,5mm thickness. Available also for single structures but without reinforcement profiles.

| Descriptions | Dimensions (mm) | | Code | Service Custom Made | | Package/ No. of pieces |
|---------------|-----------------|---|--------|------------------------|--|---------------------------|
| | H | W | | | | |
| Single plinth | 100 | | ZU1100 | | | 1/1 |
| Single plinth | 200 | | ZU2100 | | | 1/1 |
| Single plinth | 100 | | ZU1101 | ■ | | 1/1 |
| Single plinth | 200 | | ZU2101 | ■ | | 1/1 |

- The drawing of the front view of the enclosure battery must always be enclosed, specifying the width, depth and sequence of the enclosure for each column.
- Unit of measurement for the order: METRE.
- Maximum length of 6m.



Completion of structures

Standard back plates

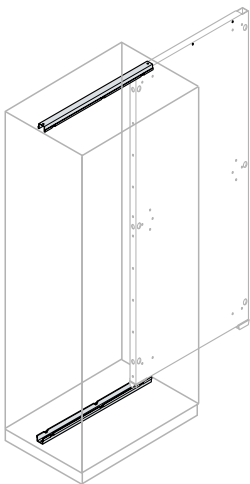
Galvanised 2,5mm steel plate, can be inserted from the front (standard) or from the side with tracks (to be ordered separately). Complete with supports for sliding and fixing. Possibility of being placed side by side and further to the rear by means of the special kits.

| Descriptions | Dimensions (mm) | | Code | Service Custom Made | | Package/ No. of pieces |
|--------------------------------------------------------|-----------------|------|----------|---------------------|--|---------------------------|
| | H | W | | | | |
| NEW Mounting plate | 1400 | 400 | EA1440 | | | 1/1 |
| Mounting plate | | 600 | EA1460 | | | 1/1 |
| Mounting plate | | 800 | EA1480 | | | 1/1 |
| Mounting plate | | 1000 | EA1411 | | | 1/1 |
| Mounting plate | | 1200 | EA1412 | | | 1/1 |
| NEW Mounting plate | 1600 | 400 | EA1640 | | | 1/1 |
| Mounting plate | | 600 | EA1616 | | | 1/1 |
| Mounting plate | | 800 | EA1619 | | | 1/1 |
| Mounting plate | | 1000 | EA1610 | | | 1/1 |
| Mounting plate | | 1200 | EA1612 | | | 1/1 |
| Mounting plate | 1800 | 400 | EA1841 | ■ | | 1/1 |
| Mounting plate | | 600 | EA1860 | ■ | | 1/1 |
| Mounting plate | | 800 | EA1880 | ■ | | 1/1 |
| Mounting plate | | 1000 | EA1810 | ■ | | 1/1 |
| Mounting plate | | 1200 | EA1812 | ■ | | 1/1 |
| Mounting plate | | 1600 | EA1817 | ■ | | 1/1 |
| Kit for joining plates | | | EA1800 | | | 1/1 |
| Mounting plate | 2000 | 400 | EA2040 | ■ | | 1/1 |
| Mounting plate | | 600 | EA2060 | ■ | | 1/1 |
| Mounting plate | | 800 | EA2080 | ■ | | 1/1 |
| Mounting plate | | 1000 | EA2010 | ■ | | 1/1 |
| Mounting plate | | 1200 | EA2013 | ■ | | 1/1 |
| Mounting plate | | 1600 | EA2016 | ■ | | 1/1 |
| Kit for joining plates | | | EA2000 | | | 1/1 |
| Mounting plate | 2200 | 400 | EA2240 | ■ | | 1/1 |
| Mounting plate | | 600 | EA2260 | ■ | | 1/1 |
| Mounting plate | | 800 | EA2280 | ■ | | 1/1 |
| Mounting plate | | 1000 | EA2210 | ■ | | 1/1 |
| Mounting plate | | 1200 | EA2212 | ■ | | 1/1 |
| Mounting plate | | 1600 | EA2216 | ■ | | 1/1 |
| Kit for joining plates | | | EA2200 | | | 1/1 |
| Kit for moving back plates back | | | | | | |
| Kit for moving back plates back H=1800-2000-2200mm | | | EA2100* | | | 1/1 |
| Kit for mounting back plates at reduced height | | | EA2102** | | | 1/1 |
| No.6 intermediate reinforcements for fixing back plate | | | EA2117 | | | 1/1 |

■ The "Custom Made Service" is valid only for structures assembled at the factory, for more information please contact your local sales network.

*This kit can be used to fix the standard mounting plate on the side of the enclosure.

**For mounting of of partial back plates it's necessary to order EB...crosspieces (see page 5/67).

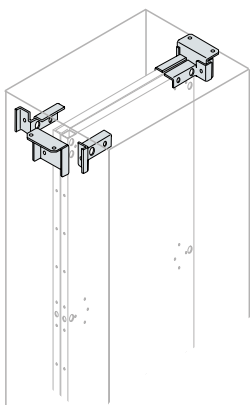


Completion of structures

Tracks for plate insertion

These allow lateral insertion of the standard and oversized mounting plates. They consist of two sections (one top and one bottom one).

| Description | Dimensions (mm) | | Code | | Package/ No. of pieces |
|----------------------------|-----------------|--|--------|--|---------------------------|
| | W | | | | |
| Tracks for plate insertion | 400 | | EA0400 | | 1/2 |
| Tracks for plate insertion | 600 | | EA0600 | | 1/2 |
| Tracks for plate insertion | 800 | | EA0802 | | 1/2 |
| Tracks for plate insertion | 1000 | | EA1000 | | 1/2 |
| Tracks for plate insertion | 1200 | | EA1200 | | 1/2 |
| Tracks for plate insertion | 1600 | | EA1602 | | 1/2 |



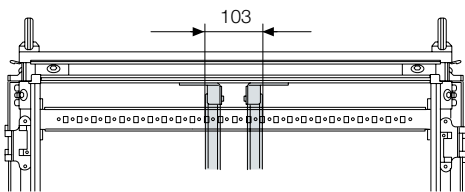
Kit back to back

This kit allows to pair two standard plates with a small footprint.

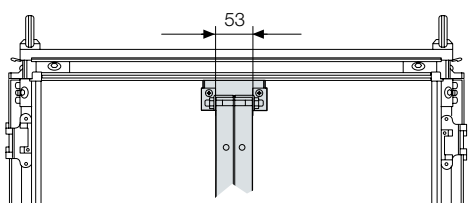
| Description | Code | | | |
|----------------------------------|--------|--|--|-----|
| Kit standard plates back to back | EA2118 | | | 1/1 |

Back to back application

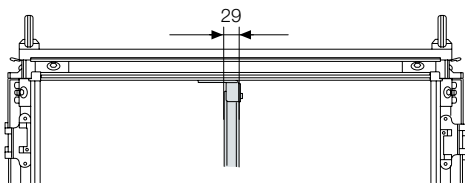
Traditional side by side: standard plate + standard plate.

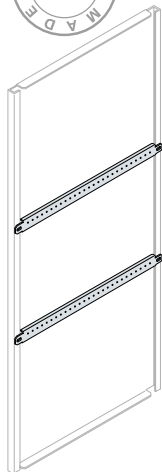


Side by side with EA2118 : standard plate + standard plate + kit EA2118.



Single standard plate + opposed mounting plate





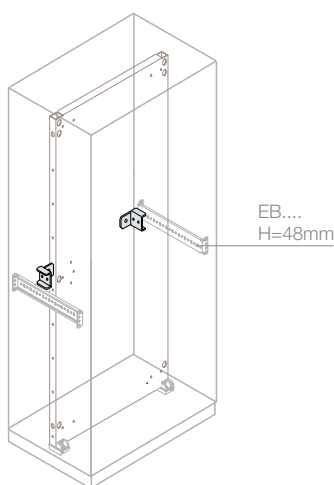
Completion of structures

Back plate reinforcement sections

Galvanised 2,00mm thick sections to be used as reinforcement on the standard back plates, recommended in the case of particularly heavy components fixed onto the back plate.

| Description | Dimensions (mm) W | Code | Custom Made Service | | Package/ No. of pieces |
|----------------------------------------------|-------------------|--------|---------------------|--|------------------------|
| No.2 plate horizontal reinforcement | 600 | EA6003 | ■ | | 1/2 |
| No.2 plate horizontal reinforcement | 800 | EA8003 | ■ | | 1/2 |
| No.2 plate horizontal reinforcement | 1000 | EA1003 | ■ | | 1/2 |
| No.2 plate horizontal reinforcement | 1200 | EA1203 | ■ | | 1/2 |
| No.2 plate horizontal reinforcement | 1600 | EA1603 | ■ | | 1/2 |
| No.6 plate fixing intermediate reinforcement | | EA2117 | | | 1/6 |

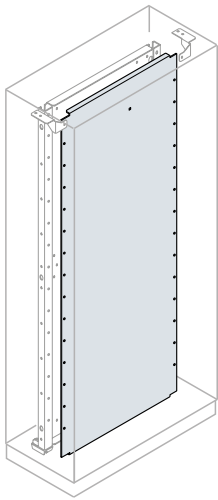
■ The "Custom Made Service" is valid only for structures assembled at the factory, for more information please contact your local sales network.



Kit for fixing back plate in the middle

This allows further fixing of the back plate in the middle as well, in addition to side crosspieces H=48mm (see page 5/63).

| Description | Code | | Package/ No. of pieces |
|------------------------------------|--------|--|------------------------|
| Kit for fixing standard back plate | EA2115 | | 1/1 |



Completion of structures

Opposed mounting plate

Mounting plate with extremely small depth dimensions, able to mount the components on both sides (front and rear). Made of 2,5mm galvanized steel they can be inserted in the front and/or in the rear. Complete with supports for sliding and fixing.

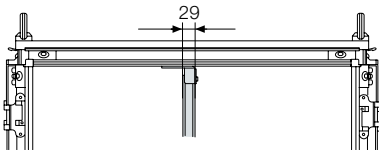
| Description | Dimensions (mm) | | Code | | | Package/ No. of pieces |
|------------------------|-----------------|------|--------|--|--|---------------------------|
| | H | W | | | | |
| Opposed mounting plate | 1400 | 600 | EA5461 | | | 1/1 |
| Opposed mounting plate | | 800 | EA5480 | | | 1/1 |
| Opposed mounting plate | | 1000 | EA5413 | | | 1/1 |
| Opposed mounting plate | 1600 | 600 | EA5616 | | | 1/1 |
| Opposed mounting plate | | 800 | EA5620 | | | 1/1 |
| Opposed mounting plate | | 800 | EA5610 | | | 1/1 |
| Opposed mounting plate | 1800 | 600 | EA5861 | | | 1/1 |
| Opposed mounting plate | | 800 | EA5883 | | | 1/1 |
| Opposed mounting plate | | 1000 | EA5811 | | | 1/1 |
| Opposed mounting plate | | 1200 | EA5822 | | | 1/1 |
| Opposed mounting plate | 2000 | 600 | EA5063 | | | 1/1 |
| Opposed mounting plate | | 800 | EA5083 | | | 1/1 |
| Opposed mounting plate | | 1000 | EA5011 | | | 1/1 |
| Opposed mounting plate | | 1200 | EA5022 | | | 1/1 |
| Opposed mounting plate | 2200 | 600 | EA5360 | | | 1/1 |
| Opposed mounting plate | | 800 | EA5380 | | | 1/1 |
| Opposed mounting plate | | 1000 | EA5310 | | | 1/1 |
| Opposed mounting plate | | 1200 | EA5322 | | | 1/1 |

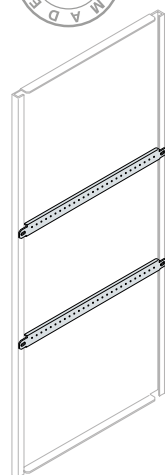
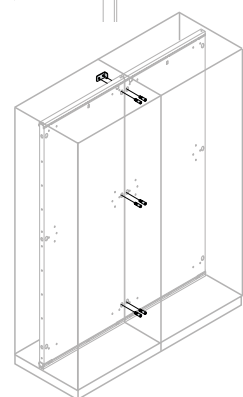
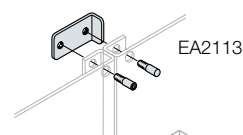
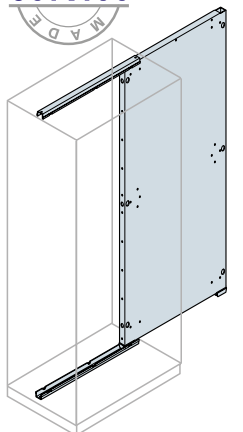
Opposed mounting plate reinforcement sections

The reinforcement sections allow both vertical and horizontal opposite mounting plate cabling. The sections are fixed to the plate using special pressure pins, without drilling it.

| Description | Dimensions (mm) | | Code | | | Package/ No. of pieces |
|---------------------------------------|-----------------|--|--------|--|--|---------------------------|
| | H | | | | | |
| No.2 reinforcements for opposed plate | 1800 | | EA0018 | | | 1/2 |
| No.2 reinforcements for opposed plate | 2000 | | EA0020 | | | 1/2 |
| No.2 reinforcements for opposed plate | 2200 | | EA0022 | | | 1/2 |

Single standard plate + opposite mounting plate





Completion of structures

Oversized mounting plates

Galvanised 2,5mm steel plate, can only be inserted laterally by sliding, by means of balls with tracks included in the Kit. Possibility of being placed side by side by means of the special Kit.

| | Dimensions (mm) | | | | | | | Package/ No. of pieces |
|-------------------------------------------------------|-----------------|------|--------|------------------------|--|--|--|---------------------------|
| Description | H | W | Code | Custom Made Service | | | | |
| Oversized mounting plates+tracks | 1400 NEW | 400 | EA1540 | | | | | 1/1 |
| Oversized mounting plates+tracks | | 600 | EA1560 | | | | | 1/1 |
| Oversized mounting plates+tracks | | 800 | EA1580 | | | | | 1/1 |
| Oversized mounting plates+tracks | | 1200 | EA1512 | | | | | 1/1 |
| Oversized mounting plates+tracks | 1600 NEW | 500 | EA1740 | | | | | 1/1 |
| Oversized mounting plates+tracks | | 600 | EA1760 | | | | | 1/1 |
| Oversized mounting plates+tracks | | 800 | EA1780 | | | | | 1/1 |
| Oversized mounting plates+tracks | | 1000 | EA1710 | | | | | 1/1 |
| Oversized mounting plates+tracks | | 1200 | EA1712 | | | | | 1/1 |
| Oversized mounting plates+tracks | 1800 | 400 | EA1940 | ■ | | | | 1/1 |
| Oversized mounting plates+tracks | | 600 | EA1960 | ■ | | | | 1/1 |
| Oversized mounting plates+tracks | | 800 | EA1981 | ■ | | | | 1/1 |
| Oversized mounting plates+tracks | | 1000 | EA1910 | ■ | | | | 1/1 |
| Oversized mounting plates+tracks | | 1200 | EA1912 | ■ | | | | 1/1 |
| No. 2 oversized mounting plates + track + joining kit | | 1600 | EA1916 | ■ | | | | 1/1 |
| Oversized mounting plates+tracks | 2000 | 400 | EA2140 | ■ | | | | 1/1 |
| Oversized mounting plates+tracks | | 600 | EA2161 | ■ | | | | 1/1 |
| Oversized mounting plates+tracks | | 800 | EA2180 | ■ | | | | 1/1 |
| Oversized mounting plates+tracks | | 1000 | EA2110 | ■ | | | | 1/1 |
| Oversized mounting plates+tracks | | 1200 | EA2112 | ■ | | | | 1/1 |
| No. 2 oversized mounting plates + track + joining kit | | 1600 | EA2116 | ■ | | | | 1/1 |
| Oversized mounting plates+tracks | 2200 | 400 | EA2340 | ■ | | | | 1/1 |
| Oversized mounting plates+tracks | | 600 | EA2360 | ■ | | | | 1/1 |
| Oversized mounting plates+tracks | | 800 | EA2380 | ■ | | | | 1/1 |
| Oversized mounting plates+tracks | | 1000 | EA2310 | ■ | | | | 1/1 |
| Oversized mounting plates+tracks | | 1200 | EA2312 | ■ | | | | 1/1 |
| No. 2 oversized mounting plates + track + joining kit | | 1600 | EA2316 | ■ | | | | 1/1 |
| Kit for joining oversized plates | | | EA2113 | | | | | 1/1 |

■ The "Custom Made Service" is valid only for structures assembled at the factory, for more information please contact your local sales network.

Back plate reinforcement sections

Galvanised 2,00 thick sections to be used as reinforcement on the standard back plates, recommended in the case of particularly heavy components fixed onto the back plate.

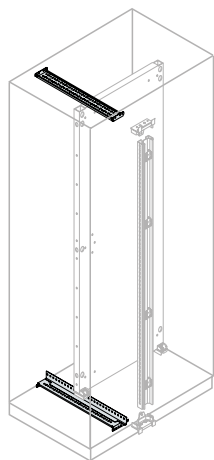
| Description | Dimensions (mm) | | Code | Custom Made Service | | Package/ No. of pieces |
|-------------------------------------|-----------------|---|--------|---------------------|--|------------------------|
| | W | H | | | | |
| No.2 plate horizontal reinforcement | 600 | | EA6002 | ■ | | 1/2 |
| No.2 plate horizontal reinforcement | 800 | | EA8002 | ■ | | 1/2 |
| No.2 plate horizontal reinforcement | 1000 | | EA1002 | ■ | | 1/2 |
| No.2 plate horizontal reinforcement | 1200 | | EA1202 | ■ | | 1/2 |

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IS2 Enclosures

Ordering codes

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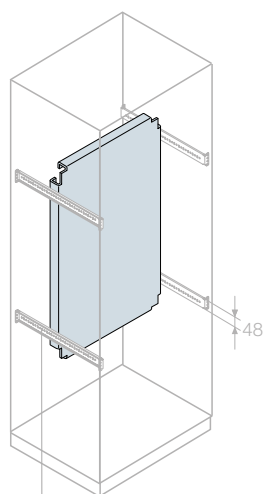


Completion of structures

Sliding guides for insertion of back plate with partial width

These allow insertion from the front of the standard back plate in structures with cable container or in the case of partial use of the structure with double door by means of a special sliding track inserted into the bottom crosspiece.

| Description | Dimensions (mm) | | Code | | | Package/ No. of pieces |
|------------------------------------------------------|-----------------|--|--------|--|--|---------------------------|
| | D | | | | | |
| No.1 sliding guide and No.1 crosspiece of back plate | 400 | | EB4101 | | | 1/2 |
| No.1 sliding guide and No.1 crosspiece of back plate | 500 | | EB5101 | | | 1/2 |
| No.1 sliding guide and No.1 crosspiece of back plate | 600 | | EB6101 | | | 1/2 |
| No.1 sliding guide and No.1 crosspiece of back plate | 800 | | EB8101 | | | 1/2 |
| No.1 sliding guide and No.1 crosspiece of back plate | 1000 | | EB1101 | | | 1/2 |



EB0400-EB0500-EB0600-EB0800
EB1000-EB1200

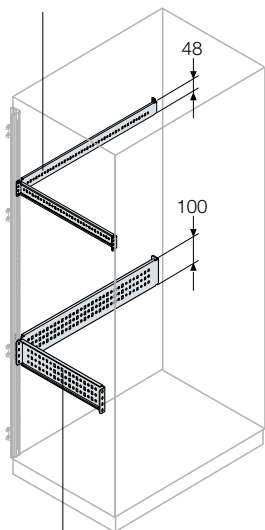
Partial back plates

Galvanised 2,5mm thick back plates. These are fixed onto the crosspieces H=48mm. (EB....).

| Description | Dimensions (mm) | | Code | | | Package/ No. of pieces |
|-----------------------------------------|-----------------|-----|--------|--|--|---------------------------|
| | H | W | | | | |
| Partial back plate | 200 | 600 | EA2062 | | | 1/1 |
| Partial back plate | 300 | | EA3061 | | | 1/1 |
| Partial back plate | 400 | | EA4061 | | | 1/1 |
| Partial back plate | 500 | | EA5061 | | | 1/1 |
| Partial back plate | 600 | | EA6061 | | | 1/1 |
| Partial back plate | 800 | | EA8061 | | | 1/1 |
| Partial back plate | 1000 | | EA1061 | | | 1/1 |
| Partial back plate | 200 | 800 | EA2081 | | | 1/1 |
| Partial back plate | 300 | | EA3081 | | | 1/1 |
| Partial back plate | 400 | | EA4081 | | | 1/1 |
| Partial back plate | 500 | | EA5081 | | | 1/1 |
| Partial back plate | 600 | | EA6081 | | | 1/1 |
| Partial back plate | 800 | | EA8081 | | | 1/1 |
| Partial back plate | 1000 | | EA1081 | | | 1/1 |
| Kit for moving partial back plates back | | | EA2101 | | | 1/1 |

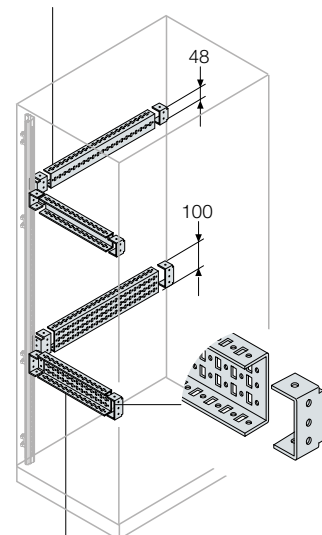


EB0400-EB0500-EB0600-EB0800
EB1000-EB1200



EB0440-EB0550-EB0660-EB0880
EB1010-EB1220

EB4860-EB4880-EB4810



EB1060-EB1080-EB1011

Completion of structures

Crosspieces for fixing accessories and partial plate

Multi-purpose galvanised 2,00mm thick sheet crosspieces, these are fixed between the uprights and allow the partial back plates and busbar holders for flat and shaped section busbars (to be drilled).

| Description | Dimensions (mm) W/D | Code | Custom Made Service | Package/ No. of pieces |
|---------------------------------------------------------------------|---------------------|-----------------------|---------------------|------------------------|
| Crosspieces H=48mm for fixing accessories and partial plate | | | | |
| No.2 crosspieces back/side | 400 | EB0400 | ■ | 1/2 |
| No.2 crosspieces back | 500 | EB0500 | ■ | 1/2 |
| No.2 crosspieces back/side | 600 | EB0600 | ■ | 1/2 |
| No.2 crosspieces back/side | 800 | EB0800 ⁽¹⁾ | ■ | 1/2 |
| No.2 crosspieces back/side | 1000 | EB1000 | ■ | 1/2 |
| No.2 crosspieces back | 1200 | EB1200 | ■ | 1/2 |
| Crosspieces H=100mm for fixing accessories and partial plate | | | | |
| No.2 crosspieces back/side | 400 | EB0440 | ■ | 1/2 |
| No.2 crosspieces back | 500 | EB0550 | ■ | 1/2 |
| No.2 crosspieces back/side | 600 | EB0660 | ■ | 1/2 |
| No.2 crosspieces back/side | 800 | EB0880 ⁽¹⁾ | ■ | 1/2 |
| No.2 crosspieces back/side | 1000 | EB1010 | ■ | 1/2 |
| No.2 crosspieces back | 1200 | EB1020 | ■ | 1/2 |

■ The "Custom Made Service" is valid only for structures assembled at the factory, for more information please contact your local sales network.

⁽¹⁾ For structures W=1600mm, order 2 pieces

NEW Crosspieces "C" shaped*

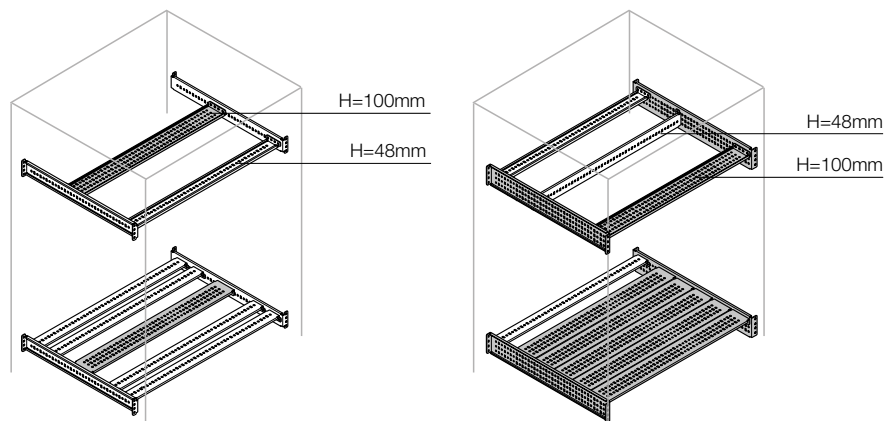
Multi-purpose galvanised 2,00mm thick sheet crosspieces with 3 fixing plane, these are fixed between the uprights and allow the partial back plates and busbar holders for flat and shaped section busbars (to be drilled).

| Description | Dimensions (mm) W/D | Code | Package/ No. of pieces |
|--------------------------------------------------------------------------------|---------------------|-----------------------|------------------------|
| Crosspieces "C" shaped H=48mm for fixing accessories and partial plate | | | |
| No.2 crosspieces "C" front/side | 600 | EB4860 ⁽¹⁾ | 1/2 |
| No.2 crosspieces "C" front/side | 800 | EB4880 ⁽²⁾ | 1/2 |
| No.2 crosspieces "C" front/side | 1000 | EB4810 | 1/2 |
| Crosspieces "C" shaped H=100mm for fixing accessories and partial plate | | | |
| No.2 crosspieces "C" front/side | 600 | EB1060 ⁽¹⁾ | 1/2 |
| No.2 crosspieces "C" front/side | 800 | EB1080 ⁽²⁾ | 1/2 |
| No.2 crosspieces "C" front/side | 1000 | EB1011 | 1/2 |

⁽¹⁾ For structures W=1200mm, order 2 pieces

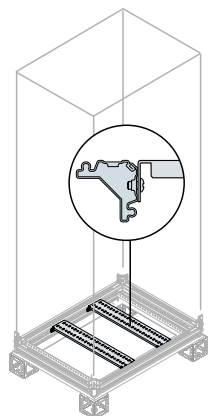
⁽²⁾ For structures W=1600mm, order 2 pieces

Example of using crosspieces H=48/100mm

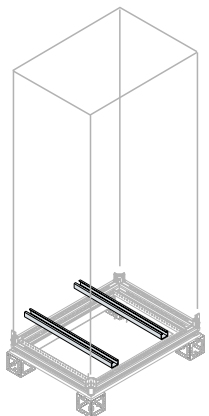


IS2 Enclosures

Ordering codes



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Completion of structures

Crosspieces for fixing heavy accessories (mounted in depth)

| Description | Dimensions (mm) D | Code | | | Package/ No. of pieces |
|------------------------------------|-------------------|--------|--|--|------------------------|
| No. 2 crosspieces mounted for base | 400 | EB4100 | | | 1/2 |
| No. 2 crosspieces mounted for base | 500 | EB5100 | | | 1/2 |
| No. 2 crosspieces mounted for base | 600 | EB6100 | | | 1/2 |
| No. 2 crosspieces mounted for base | 800 | EB8100 | | | 1/2 |
| No. 2 crosspieces mounted for base | 1000 | EB1100 | | | 1/2 |

Transformer holder crosspieces

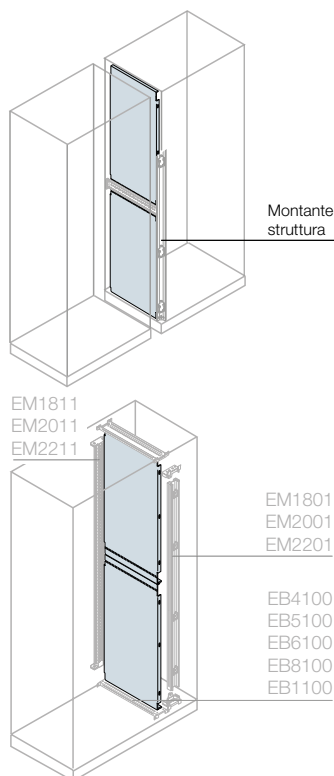
Transformer holder crosspieces made of 3,5mm steel treated with white galvanization, complete with No.4 fixing screw M12, M12x60.

| Description | Dimensions (mm) D | Code | | | Package/ No. of pieces |
|----------------------------------------|-------------------|--------|--|--|------------------------|
| Pair of transformer holder crosspieces | 600 | EB6102 | | | 1/2 |
| Pair of transformer holder crosspieces | 800 | EB8102 | | | 1/2 |
| Pair of transformer holder crosspieces | 1000 | EB1102 | | | 1/2 |

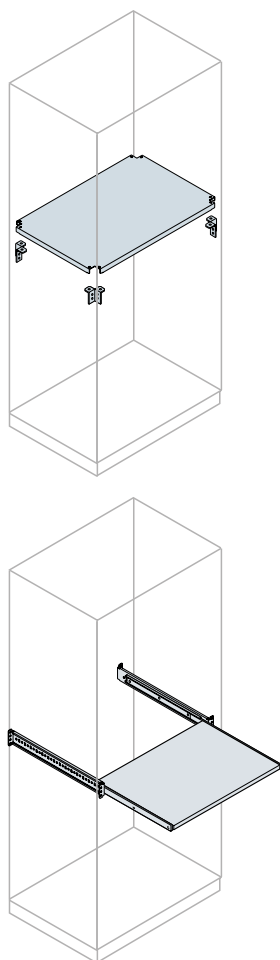
Completion of structures

Vertical partition panels for side-by-side structures

Panel made of 1,2mm thick galvanised steel sheet divided into two parts. When there is the lateral crosspiece H=48mm, use pre-shearing.



| Description | Dimensions (mm) | | Code | | | Package/ No. of pieces |
|---------------------------|-----------------|------|--------|--|--|------------------------|
| | H | D | | | | |
| Vertical partition panels | 1800 | 400 | EE1841 | | | 1/1 |
| Vertical partition panels | | 500 | EE1851 | | | 1/1 |
| Vertical partition panels | | 600 | EE1861 | | | 1/1 |
| Vertical partition panels | | 800 | EE1881 | | | 1/1 |
| Vertical partition panels | | 1000 | EE1811 | | | 1/1 |
| Vertical partition panels | 2000 | 400 | EE2041 | | | 1/1 |
| Vertical partition panels | | 500 | EE2051 | | | 1/1 |
| Vertical partition panels | | 600 | EE2061 | | | 1/1 |
| Vertical partition panels | | 800 | EE2081 | | | 1/1 |
| Vertical partition panels | | 1000 | EE2011 | | | 1/1 |
| Vertical partition panels | 2200 | 400 | EE2241 | | | 1/1 |
| Vertical partition panels | | 500 | EE2251 | | | 1/1 |
| Vertical partition panels | | 600 | EE2261 | | | 1/1 |
| Vertical partition panels | | 800 | EE2281 | | | 1/1 |
| Vertical partition panels | | 1000 | EE2211 | | | 1/1 |



Completion of structures

Horizontal partition panels

Panel made of 1,5mm thick galvanised steel sheet. This allows horizontal separation of the different components inside the structure.

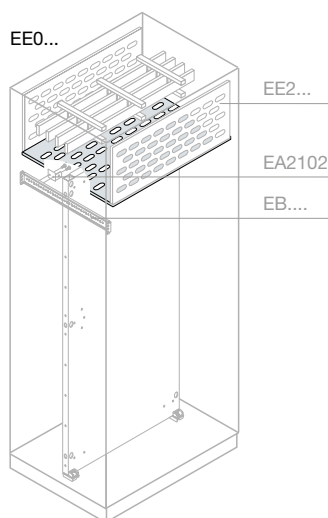
| Description | Dimensions (mm) | | Code | | | Package/ No. of pieces |
|----------------------------------------------------|-----------------|------|---------|--|--|---------------------------|
| | H | D | | | | |
| Horizontal fixed partition panels | | | | | | |
| Horizontal fixed partition panels | 400 | 400 | EE4041 | | | 1/1 |
| Horizontal fixed partition panels | 600 | | EE6041 | | | 1/1 |
| Horizontal fixed partition panels | 800 | | EE8041 | | | 1/1 |
| Horizontal fixed partition panels | 1000 | | EE1041 | | | 1/1 |
| Horizontal fixed partition panels | 400 | 500 | EE4051 | | | 1/1 |
| Horizontal fixed partition panels | 600 | | EE6051 | | | 1/1 |
| Horizontal fixed partition panels | 800 | | EE8051 | | | 1/1 |
| Horizontal fixed partition panels | 1000 | | EE1051 | | | 1/1 |
| Horizontal fixed partition panels | 600 | 600 | EE6061 | | | 1/1 |
| Horizontal fixed partition panels | 800 | | EE8061 | | | 1/1 |
| Horizontal fixed partition panels | 1000 | | EE1061 | | | 1/1 |
| Horizontal fixed partition panels | 800 | 800 | EE8081 | | | 1/1 |
| Horizontal fixed partition panels | 1000 | | EE1081 | | | 1/1 |
| Horizontal fixed partition panels | 1000 | 1000 | EE1011 | | | 1/1 |
| Horizontal sliding partition panels | | | | | | |
| Horizontal sliding partition panels ⁽¹⁾ | 600 | 600 | EE1003K | | | 1/1 |
| Horizontal sliding partition panels ⁽¹⁾ | | 800 | EE1001K | | | 1/1 |
| Horizontal sliding partition panels ⁽¹⁾ | 800 | 600 | EE1004K | | | 1/1 |
| Horizontal sliding partition panels ⁽¹⁾ | | 800 | EE1002K | | | 1/1 |

⁽¹⁾ Including the crosspieces for fixing and relative accessories.

Can not be mounted with double door in structures W=800/1000/1200/1600mm with overlapping doors closing.

IS2 Enclosures

Ordering codes



Completion of structures

Horizontal busbar segregations

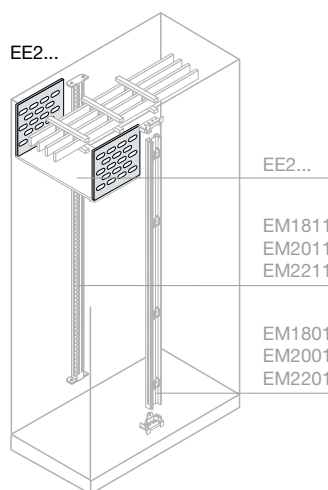
Drilled sheet panels (IP20) in 1,5mm sheet thickness. Allow segregation of the busbar system. Cannot be mounted in cabinets with compartments, or with DIN frame.

| | Dimensions (mm) | | | | | |
|-------------------------------|-----------------|-----|-----------------------|--|--|---------------------------|
| Description | H | D | Code | | | Package/ No. of pieces |
| Internal cable container | | | | | | |
| Horizontal busbar segregation | 200 | 400 | EE0240 ⁽¹⁾ | | | 1/1 |
| Horizontal busbar segregation | | 500 | EE0250 ⁽¹⁾ | | | 1/1 |
| Horizontal busbar segregation | | 600 | EE0260 ⁽¹⁾ | | | 1/1 |
| Horizontal busbar segregation | | 800 | EE0280 ⁽¹⁾ | | | 1/1 |
| Horizontal busbar segregation | 400 | 400 | EE0440 ⁽¹⁾ | | | 1/1 |
| Horizontal busbar segregation | | 500 | EE0450 ⁽¹⁾ | | | 1/1 |
| Horizontal busbar segregation | | 600 | EE0460 ⁽¹⁾ | | | 1/1 |
| Horizontal busbar segregation | | 800 | EE0480 ⁽¹⁾ | | | 1/1 |
| External cable container | | | | | | |
| Horizontal busbar segregation | 300 | 400 | EE0340 | | | 1/1 |
| Horizontal busbar segregation | | 500 | EE0355 | | | 1/1 |
| Horizontal busbar segregation | | 600 | EE0360 | | | 1/1 |
| Horizontal busbar segregation | | 800 | EE0380 | | | 1/1 |
| Structure | | | | | | |
| Horizontal busbar segregation | 600 | 400 | EE0640 | | | 1/1 |
| Horizontal busbar segregation | | 500 | EE0650 | | | 1/1 |
| Horizontal busbar segregation | | 600 | EE0660 | | | 1/1 |
| Horizontal busbar segregation | | 800 | EE0680 | | | 1/1 |
| Horizontal busbar segregation | 800 | 400 | EE0840 | | | 1/1 |
| Horizontal busbar segregation | | 500 | EE0850 | | | 1/1 |
| Horizontal busbar segregation | | 600 | EE0860 | | | 1/1 |
| Horizontal busbar segregation | | 800 | EE0880 | | | 1/1 |
| Horizontal busbar segregation | 1000 | 400 | EE1040 | | | 1/1 |
| Horizontal busbar segregation | | 500 | EE1050 | | | 1/1 |
| Horizontal busbar segregation | | 600 | EE1060 | | | 1/1 |
| Horizontal busbar segregation | | 800 | EE1080 | | | 1/1 |

⁽¹⁾ To be used with rear upright EM..11.

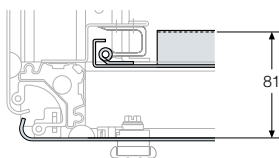
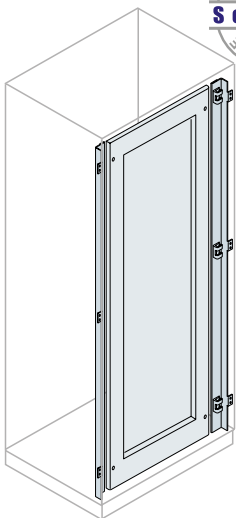
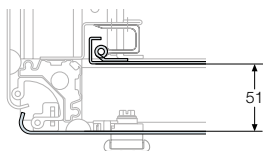
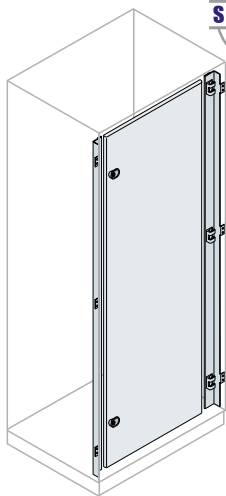
Vertical busbar segregations

Drilled sheet panels (IP20) in 1,5mm sheet thickness. Allow segregation of the busbar system.



| Description | Dimensions (mm) | | Code | | | Package/ No. of pieces |
|-----------------------------|-----------------|------|--------|--|--|---------------------------|
| | H | D | | | | |
| Internal cable container* | | | | | | |
| Vertical busbar segregation | 200 | 200 | EE2020 | | | 1/2 |
| Vertical busbar segregation | | 400 | EE2040 | | | 1/2 |
| External cable container | | | | | | |
| Vertical busbar segregation | 200 | 300 | EE2030 | | | 1/2 |
| Structure | | | | | | |
| Vertical busbar segregation | 200 | 600 | EE2600 | | | 1/2 |
| Vertical busbar segregation | | 800 | EE2800 | | | 1/2 |
| Vertical busbar segregation | | 1000 | EE2100 | | | 1/2 |

* Its necessary to use the intermediate upright



Completion of structures

Inner doors

Internal door made of 1,5mm thick galvanised steel sheet, complete with reinforcement tube, frame, hinges and No.2 boxes with double tongue key interchangeable with inserts (see page 5/102). Maximum opening angle of 100°.

| Dimensions (mm) | | Code | Custom Made Service | | | Package/ No. of pieces |
|---------------------|------|---------|------------------------|--|--|---------------------------|
| H | W | | | | | |
| Internal inner door | | | | | | |
| 1800 | 600 | EE1860K | ■ | | | 1/1 |
| | 800 | EE1880K | ■ | | | 1/1 |
| | 1000 | EE1810K | ■ | | | 1/1 |
| 2000 | 600 | EE2060K | ■ | | | 1/1 |
| | 800 | EE2080K | ■ | | | 1/1 |
| | 1000 | EE2010K | ■ | | | 1/1 |
| 2200 | 600 | EE2260K | ■ | | | 1/1 |
| | 800 | EE2280K | ■ | | | 1/1 |
| | 1000 | EE2210K | ■ | | | 1/1 |

■ The "Custom Made Service" is valid only for structures assembled at the factory, for more information please contact your local sales network.

For H=1400 and 1600 mm inner doors, please contact ABB.

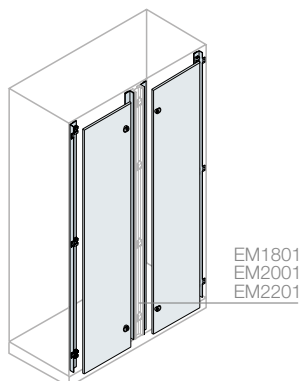
Recessed inner doors

Internal door made of 1,5mm thick steel sheet, complete with frame, hinges and No.2 boxes with double tongue key interchangeable with inserts (see page 5/102). Maximum opening angle of 100°.

| Dimensions (mm) | | Code | Custom Made Service | | | Package/ No. of pieces |
|---------------------|------|---------|------------------------|--|--|---------------------------|
| H | W | | | | | |
| Recessed inner door | | | | | | |
| 1800 | 600 | EE1906K | ■ | | | 1/1 |
| | 800 | EE1908K | ■ | | | 1/1 |
| | 1000 | EE1910K | ■ | | | 1/1 |
| 2000 | 600 | EE2106K | ■ | | | 1/1 |
| | 800 | EE2108K | ■ | | | 1/1 |
| | 1000 | EE2110K | ■ | | | 1/1 |
| 2200 | 600 | EE2306K | ■ | | | 1/1 |
| | 800 | EE2308K | ■ | | | 1/1 |
| | 1000 | EE2310K | ■ | | | 1/1 |

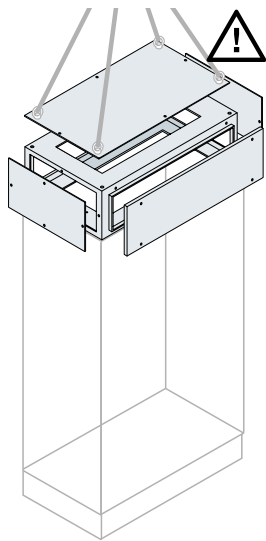
■ The "Custom Made Service" is valid only for structures assembled at the factory, for more information please contact your local sales network.

For structures W=1200/1600mm, mount two inner doors with W=600mm and W=800mm respectively plus intermediate upright EM... as overlap.



IS2 Enclosures

Ordering codes



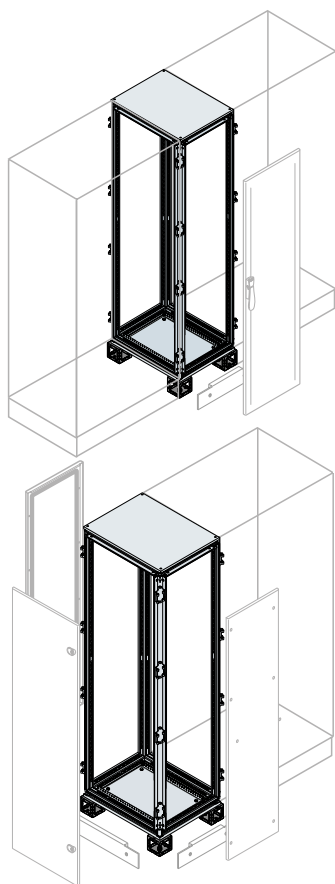
Completion of structures

Top container for cable connection (not for handling)

This is a completely segregated container H=200mm to be mounted on the roof of the structure, dedicated to circulation of conductors. Fully accessible from all sides. Degree of protection IP41.

| Description | Dimensions (mm) | | Code | | | Package/ No. of pieces |
|----------------------------------------------------|-----------------|------|------------------------|--|--|---------------------------|
| | W | D | | | | |
| Height 200mm | | | | | | |
| Top container for cable connection | 400 | 400 | ER4040K | | | 1/1 |
| Top container for cable connection | 600 | | ER6040K ⁽¹⁾ | | | 1/1 |
| Top container for cable connection | 800 | | ER8040K ⁽¹⁾ | | | 1/1 |
| Top container for cable connection | 1000 | | ER1041K | | | 1/1 |
| Top container for cable connection | 400 | 500 | ER4050K | | | 1/1 |
| Top container for cable connection | 600 | | ER6050K ⁽¹⁾ | | | 1/1 |
| Top container for cable connection | 800 | | ER8050K ⁽¹⁾ | | | 1/1 |
| Top container for cable connection | 1000 | | ER1050K | | | 1/1 |
| Top container for cable connection | 400 | 600 | ER4060K | | | 1/1 |
| Top container for cable connection | 600 | | ER6060K ⁽¹⁾ | | | 1/1 |
| Top container for cable connection | 800 | | ER8061K ⁽¹⁾ | | | 1/1 |
| Top container for cable connection | 1000 | | ER1060K | | | 1/1 |
| Top container for cable connection | 400 | 800 | ER4080K | | | 1/1 |
| Top container for cable connection | 600 | | ER6080K ⁽¹⁾ | | | 1/1 |
| Top container for cable connection | 800 | | ER8080K ⁽¹⁾ | | | 1/1 |
| Top container for cable connection | 1000 | | ER1080K | | | 1/1 |
| Top container for cable connection | 400 | 1000 | ER4011K | | | 1/1 |
| Top container for cable connection | 600 | | ER6010K ⁽¹⁾ | | | 1/1 |
| Top container for cable connection | 800 | | ER8010K ⁽¹⁾ | | | 1/1 |
| Top container for cable connection | 1000 | | ER1010K | | | 1/1 |
| Kit for placing cable connection container at side | | | ER1000 | | | 1/1 |

⁽¹⁾ For structures with W=1200/1600mm, order two pieces with W=600 and W=800mm respectively plus relative joining Kit ER1000.



Completion of structures

Container for external cable connection W=300mm

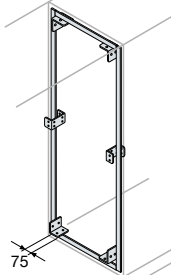
Structure to be completed with blind door placed frontally or laterally, front and rear panel, plinth and relative flanges. Can be placed side-by-side with the basic structure by means of side-by-side positioning Kit EV0002-EV0003-EV0006.

| Description | Dimensions (mm) | | Code | | | Package/ No. of pieces |
|----------------------------------------|-----------------|------|---------|--|--|---------------------------|
| | W | D | | | | |
| Width 300mm | | | | | | |
| Container for external cable container | 1800 | 400 | ER3040K | | | 1/1 |
| Container for external cable container | | 500 | ER3050K | | | 1/1 |
| Container for external cable container | | 600 | ER3060K | | | 1/1 |
| Container for external cable container | | 800 | ER3080K | | | 1/1 |
| Container for external cable container | | 1000 | ER3010K | | | 1/1 |
| Container for external cable container | 2000 | 400 | ER3041K | | | 1/1 |
| Container for external cable container | | 500 | ER3051K | | | 1/1 |
| Container for external cable container | | 600 | ER3061K | | | 1/1 |
| Container for external cable container | | 800 | ER3081K | | | 1/1 |
| Container for external cable container | | 1000 | ER3011K | | | 1/1 |
| Container for external cable container | 2200 | 400 | ER3042K | | | 1/1 |
| Container for external cable container | | 500 | ER3052K | | | 1/1 |
| Container for external cable container | | 600 | ER3062K | | | 1/1 |
| Container for external cable container | | 800 | ER3082K | | | 1/1 |
| Container for external cable container | | 1000 | ER3012K | | | 1/1 |

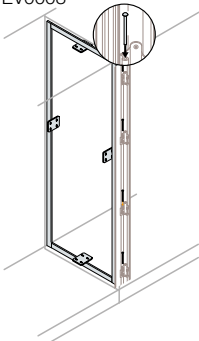
IS2 Enclosures
Ordering codes



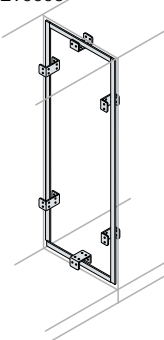
EV0002



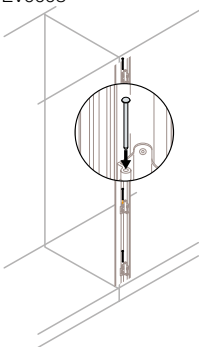
EV0003



EV0006



EV0008



Completion of structures

Kit for placing structures side by side

Adhesive high density polyurethane gasket – guarantees the degree of protection on several columns side by side. Columns can be coupled side by side or back to back.

| Description | Code | Custom Made Service | Package/ No. of pieces |
|-----------------------------------------------------|-----------------------|---------------------|------------------------|
| Corner joining and reinforcement kit for lifting | EV0002 ⁽¹⁾ | | 1/1 |
| Cabinet joining kit | EV0003 | ■ | 1/1 |
| Internal cabinet joining kit | EV0006 ⁽¹⁾ | ■ | 1/1 |
| No.8 small pins for placing structures side by side | EV0008 | | 1/1 |

■ The “Custom Made Service” is valid only for structures assembled at the factory, for more information please contact your local sales network.

⁽¹⁾ Can be fitted with EV0008 accessory

EV0003 internal external enclosure joining Kit

The kit is made up of 4 squares, adhesive gasket and 8 small pins. Joining takes place:
- from the inside using the 4 squares which can be mounted the whole height or depth of the enclosures
- from the outside using the 8 small pins inserted in the hinges (they require the rear panel to be dismantled).

Internal enclosure joining Kit

EV0006

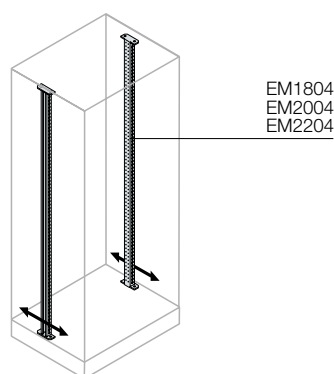
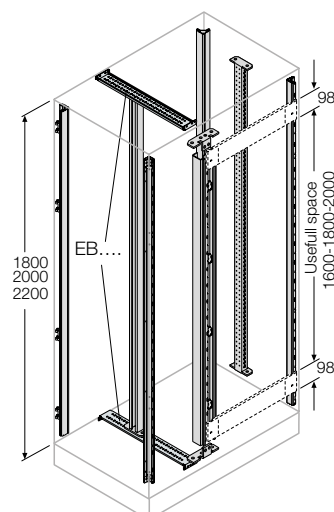
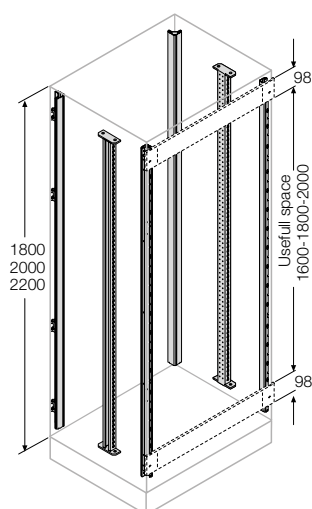
The kit is made up of 6 squares and an adhesive gasket. Joining takes place from the inside using the 6 squares which can be mounted the whole height or depth of the enclosure.

EV0002

The kit is made up of 6 squares (4 “L”-shaped and two “C”-shaped) and an adhesive gasket. Joining takes place from the inside using the 4 “L”-shaped squares which can be mounted in the corners and the 2 “C”-shaped squares for the whole height of the enclosure. Does not allow maximum moving back of the standard and oversized back plate (75mm less).

Mounting possibilities

| EV0003 | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK |
|--------|----|----|----|----|----|----|----|----|----|----|
| EV0002 | OK | OK | | OK | OK | OK | | OK | OK | OK |
| EV0006 | OK | | OK | | | OK | | | | |



Configuration with compartments

Uprights for configuration with compartments

Uprights made of galvanised steel, consisting of a closed section drilled with 25 mm pitch preset for mounting compartment cubicles and partial doors. Can be assembled on base and top (see page 4/44). The useful dimension is always 200mm less than the total height of the enclosure.

Examples of configuration and technical characteristics at page 5/114

| Description | Dimensions (mm) H | Code | Package/ No. of pieces |
|----------------------------------------------|----------------------|--------|---------------------------|
| Uprights for configuration with compartments | 1800 | EM1802 | 1/6 |
| Uprights for configuration with compartments | 2000 | EM2002 | 1/6 |
| Uprights for configuration with compartments | 2200 | EM2202 | 1/6 |

Order compensation panels H=100mm (EH6010/EH8010). See page 5/75.

Uprights for configuration with compartments + internal cable container

No.7 uprights made of galvanized steel, consisting of a closed section drilled with 25 mm pitch preset for mounting compartment cubicles and internal cable container W=200/400 mm. The useful dimension is always 200mm less than the total height of the enclosure.

| Description | Dimensions (mm) H | Code | Package/ No. of pieces |
|---------------------------------------------------------------------|----------------------|--------|---------------------------|
| Uprights for configuration with compartments + int. cable container | 1800 | EM1803 | 1/7 |
| Uprights for configuration with compartments + int. cable container | 2000 | EM2003 | 1/7 |
| Uprights for configuration with compartments + int. cable container | 2200 | EM2203 | 1/7 |

For the version with cable container, both the code of the crosspieces (EB...) and the code of the uprights (EM1803-EM2003-EM2203) must be ordered.

Order compensation panels H=100mm (EH6010K/EH8010K). See page 5/75.

Crosspieces for intermediate uprights (mounted depth-wise)

| Description | Dimensions (mm) D | Code | Package/ No. of pieces |
|--------------------------------|----------------------|--------|---------------------------|
| Couple of crosspieces for base | 400 | EB4100 | 1/2 |
| Couple of crosspieces for base | 500 | EB5100 | 1/2 |
| Couple of crosspieces for base | 600 | EB6100 | 1/2 |
| Couple of crosspieces for base | 800 | EB8100 | 1/2 |
| Couple of crosspieces for base | 1000 | EB1100 | 1/2 |

For the version with cable container, both the code of the crosspieces (EB...) and the code of the uprights (EM1803-EM2003-EM2203) must be ordered.

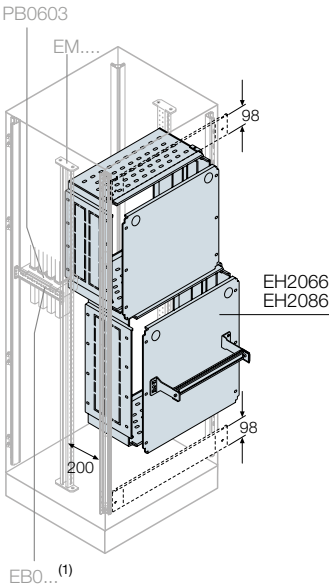
Intermediate uprights (mounted in depth)

No.2 uprights made of galvanized steel, consisting of a closed section drilled with 25 mm pitch preset for mounting compartment cubicles.

| Description | Dimensions (mm) H | Code | Package/ No. of pieces |
|-------------------------------------------------------------|----------------------|--------|---------------------------|
| Pair of uprights for mounting compartment cubicles in depth | 1800 | EM1804 | 1/2 |
| Pair of uprights for mounting compartment cubicles in depth | 2000 | EM2004 | 1/2 |
| Pair of uprights for mounting compartment cubicles in depth | 2200 | EM2204 | 1/2 |

IS2 Enclosures

Ordering codes



Configuration with compartments

Compartment cubicle

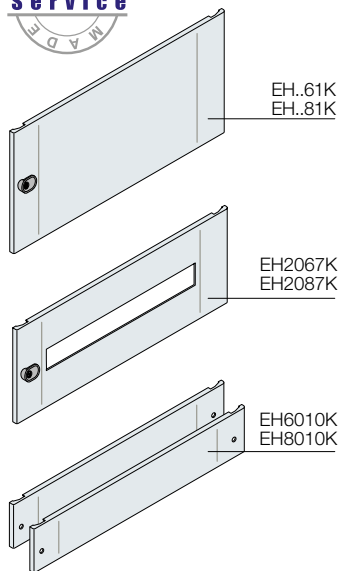
Made of 1,5mm galvanised sheet, able to construct Form 3 segregations, it is pre-sheared on the sides and bottom for use as conductor passage. Complete with withdrawable back plate for bench assembly of the apparatus, reversible, to obtain 2 different depths. The useful dimension is always 200mm less than the total height of the enclosure.

Examples of configuration and technical characteristics at page 5/114

| Dimensions (mm) | | Code | Custom Made Service | | | Package/ No. of pieces |
|--------------------------------------------------------|-----|--------|------------------------|--|--|---------------------------|
| H | W | | | | | |
| Compartment cubicle | | | | | | |
| 200 | 600 | EH2060 | ■ | | | 1/1 |
| 300 | | EH3060 | ■ | | | 1/1 |
| 400 | | EH4063 | ■ | | | 1/1 |
| 500 | | EH5060 | ■ | | | 1/1 |
| 600 | | EH6060 | ■ | | | 1/1 |
| 800 | | EH8060 | ■ | | | 1/1 |
| 1000 | | EH1060 | ■ | | | 1/1 |
| 200 | 800 | EH2180 | ■ | | | 1/1 |
| 300 | | EH3080 | ■ | | | 1/1 |
| 400 | | EH4080 | ■ | | | 1/1 |
| 500 | | EH5080 | ■ | | | 1/1 |
| 600 | | EH6080 | ■ | | | 1/1 |
| 800 | | EH8080 | ■ | | | 1/1 |
| 1000 | | EH1080 | ■ | | | 1/1 |
| Compartment cubicle with DIN rail, adjustable in depth | | | | | | |
| 200 | 600 | EH2066 | | | | |
| | 800 | EH2086 | | | | |

■ The “Custom Made Service” is valid only for structures assembled at the factory, for more information please contact your local sales network.

(1) The dimension of the crosspieces EBO... (see page 5/65) is always 200mm less than the total height of the enclosure.



Configuration with compartments

Front panels for compartments

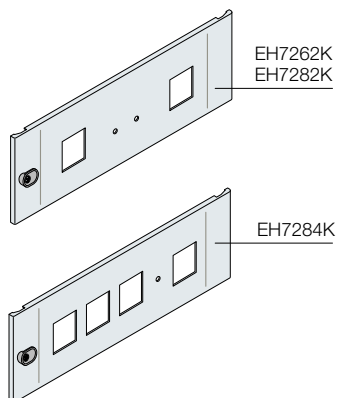
Made of 2,00mm complete with box with double tongue key interchangeable with inserts (see page 5/104). The front panels are fitted with a horizontal profile which keeps the IP41 degree of protection.

Examples of configuration and technical characteristics at page 5/114

| Dimensions (mm) | | Code | Custom Made Service | | Package/ No. of pieces |
|----------------------------------------------------------|------------------|------------------------|------------------------|--|---------------------------|
| H | W | | | | |
| Panels for compartment cubicle | | | | | |
| 200 | 600 | EH2061K | ■ | | 1/1 |
| 300 | | EH3061K | ■ | | 1/1 |
| 400 | | EH4061K | ■ | | 1/1 |
| 500 | | EH5061K | ■ | | 1/1 |
| 600 | | EH6061K | ■ | | 1/1 |
| 800 | | EH8062K | ■ | | 1/1 |
| 1000 | | EH1061K | ■ | | 1/1 |
| 200 | 800 | EH2081K | ■ | | 1/1 |
| 300 | | EH3081K | ■ | | 1/1 |
| 400 | | EH4081K | ■ | | 1/1 |
| 500 | | EH5081K | ■ | | 1/1 |
| 600 | | EH6083K | ■ | | 1/1 |
| 800 | | EH8081K | ■ | | 1/1 |
| 1000 | | EH1081K | ■ | | 1/1 |
| No.2 compensation panels | | | | | |
| 100 | 600 | EH6010K ⁽¹⁾ | | | 1/2 |
| | 800 | EH8010K ⁽¹⁾ | | | 1/2 |
| Single front panel for compartment cubicle with DIN rail | | | | | |
| 200 | 600 (18 mod.DIN) | EH2067K | | | 1/1 |
| | 800 (29 mod.DIN) | EH2087K | | | 1/1 |

■ The "Custom Made Service" is valid only for structures assembled at the factory, for more information please contact your local sales network.

⁽¹⁾ Service only valid for factory pre-assembled enclosure



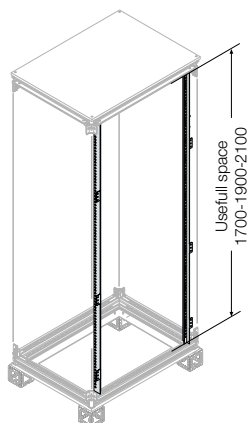
Panels for square measuring instruments

Made of 2,00mm painted steel colour RAL 7035, complete with box with double tongue key interchangeable with inserts (see page 5/104).

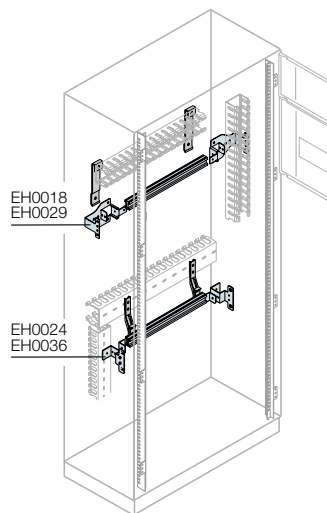
| Dimensions (mm) | | | | | Package/ |
|-------------------------------------------------|-----|---------|--|--|---------------|
| H | W | Code | | | No. of pieces |
| No.2 72x72mm instrument panels for compartments | | | | | |
| 200 | 600 | EH7262K | | | 1/1 |
| | 800 | EH7282K | | | 1/1 |
| | 800 | EH7284K | | | 1/1 |

IS2 Enclosures

Ordering codes



5



Structures for modular apparatus

Uprights for modular panels

Uprights made of galvanised steel drilled with 50mm pitch, preset for mounting apparatus holder blind plates, DIN rails and front panels. To be fixed onto the front uprights of the structure. The useful dimension is always 100mm less than the total height of the enclosure.

Examples of configuration and technical characteristics at page 5/116

| Description | Dimensions (mm) H | No. DIN rows/centre dist. mm | Code | Package/ No. of pieces |
|---------------|-------------------|------------------------------|-----------------|------------------------|
| No.2 uprights | 1400 | 6/200 o 8/150 | 1STQ005326B0000 | 1/1 |
| No.2 uprights | 1600 | 7/200 o 9/150 | 1STQ005327B0000 | 1/1 |
| No.2 uprights | 1800 | 8/200 o 11/150 | EH1800 | 1/1 |
| No.2 uprights | 2000 | 9/200 o 12/150 | EH2000 | 1/1 |
| No.2 uprights | 2200 | 10/200 o 14/150 | EH2200 | 1/1 |

DIN rail Kit with front wiring duct

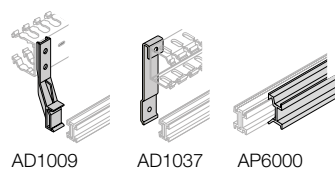
Kit consisting of double aluminium section (DIN 35), complete with shaped brackets for front fixing of the wiring duct (max. 60x80mm). It is fixed directly onto the uprights EH1800, EH2000 or EH2200. The useful dimension is always 100mm less than the total height of the enclosure.

| Description | Dimensions (mm) W | Code | Package/ No. of pieces |
|--------------------------------------------|-------------------|--------|------------------------|
| Guida DIN e supporti di fissaggio | | | |
| DIN rail and fixing supports (18 DIN mod.) | 600 | EH0018 | 1/1 |
| DIN rail and fixing supports (29 DIN mod.) | 800 | EH0029 | 1/1 |

DIN rail Kit with rear wiring duct

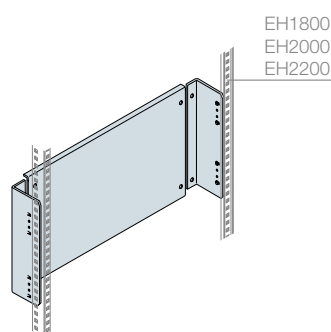
Kit consisting of double aluminium section (DIN 35), complete with shaped brackets for rear fixing of the wiring duct (W≥40mm) and total exploitation of the space for apparatus. It is fixed directly onto the uprights EH1800, EH2000 or EH2200. The useful dimension is always 100mm less than the total height of the enclosure.

| Description | Dimensions (mm) W | Code | Package/ No. of pieces |
|--------------------------------------------|-------------------|--------|------------------------|
| DIN rail and fixing supports | | | |
| DIN rail and fixing supports (24 DIN mod.) | 600 | EH0024 | 1/1 |
| DIN rail and fixing supports (36 DIN mod.) | 800 | EH0036 | 1/1 |



Accessories for DIN rail

| Description | Code | Package/ No. of pieces |
|----------------------------------------------------|--------|------------------------|
| Supports for horizontal wiring ducts | | |
| No. 4 plastic supports for horizontal wiring ducts | AD1009 | 1/4 |
| No. 4 metal supports for horizontal wiring ducts | AD1037 | 1/4 |
| Depth adapter | | |
| No.1 depth adapter W=600mm | AP6000 | 1/4 |

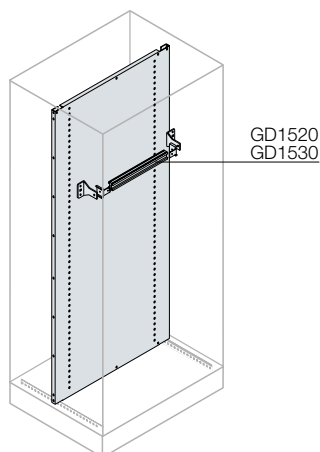


Structures for modular apparatus

Blind apparatus holder back plates

Blind apparatus holder back plate, 1,5mm thickness. It is fixed directly onto the uprights EH1800, EHD2000, EH2200. The useful dimension is always 100mm less than the total height of the enclosure.

| Description | Dimensions (mm) | | Code | | | Package/ No. of pieces |
|-----------------------------------|-----------------|-----|--------|--|--|---------------------------|
| | H | W | | | | |
| Blind apparatus holder back plate | 200 | 600 | EH2065 | | | 1/1 |
| Blind apparatus holder back plate | 300 | | EH3065 | | | 1/1 |
| Blind apparatus holder back plate | 400 | | EH4065 | | | 1/1 |
| Blind apparatus holder back plate | 200 | 800 | EH2085 | | | 1/1 |
| Blind apparatus holder back plate | 300 | | EH3085 | | | 1/1 |
| Blind apparatus holder back plate | 400 | | EH4085 | | | 1/1 |



DIN rail Kit on back plate (bench cabling)

Kit consisting of double aluminium section (DIN 35), complete with shaped brackets for fixing the wiring duct Kit. The useful dimension is always 100mm less than the total height of the enclosure.

| Description | Dimensions (mm) W | | Code | | | Package/ No. of pieces |
|--------------------------------------------|-------------------|---|--------|--|--|---------------------------|
| | H | W | | | | |
| DIN rail and fixing supports (24 DIN mod.) | 600 | | GD1520 | | | 1/1 |
| DIN rail and fixing supports (36 DIN mod.) | 800 | | GD1530 | | | 1/1 |

For all the components which cannot be mounted on DIN rails, e.g. T3, T4, OT and OETL, mounting is made directly on a plate.

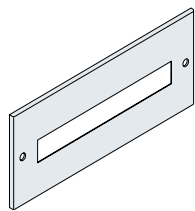
Back plate for bench cabling

Back plate drilled with 25mm pitch for direct fixing of the GD1520, GD1530 DIN rails. Insertion takes place from the front of the enclosure and the position in depth is also adjustable at a pitch of 25mm. The centre distance between the DIN rails can be either 150 or 200mm. This solution is completed with the front panels with 24 and 36 modules for W=600mm and 800mm respectively.

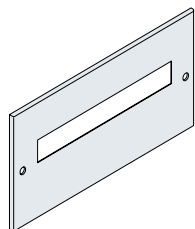
| Description | Dimensions (mm) | | Code | | | Confezione/ No.pezzi |
|------------------------------|-----------------|-----|--------|--|--|-------------------------|
| | H | W | | | | |
| Back plate for bench cabling | 1800 | 600 | EX1860 | | | 1/1 |
| Back plate for bench cabling | 2000 | | EX2060 | | | 1/1 |
| Back plate for bench cabling | 2200 | | EX2260 | | | 1/1 |
| Back plate for bench cabling | 1800 | 800 | EX1880 | | | 1/1 |
| Back plate for bench cabling | 2000 | | EX2080 | | | 1/1 |
| Back plate for bench cabling | 2200 | | EX2280 | | | 1/1 |

IS2 Enclosures

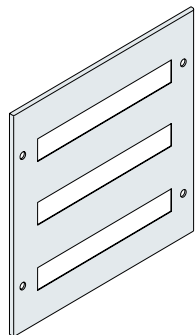
Ordering codes



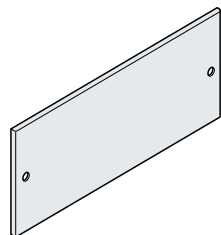
EH1518K-EH2018K-EH1529K
EH2029K-EH1524K-EH2024K
EH1536K-EH2036K



EH3018K-EH3029K



EH6018K-EH6029K-EH6025K
EH6036K



Structures for modular apparatus

Panels for modular apparatus

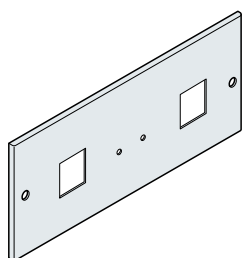
Panel with modular cut-out in sheet 1,2mm (W=600mm) painted RAL7035 colour with quick fixing, suitable for hinges EH1889 (accessory). The useful dimension of the enclosure is always 100mm less than the total height of the enclosure.

| Description | Dimensions (mm) | | Code | | | Package/ No. of pieces |
|-------------------------------------------|-----------------|-----|---------|--|--|---------------------------|
| | H | W | | | | |
| Panel 18 DIN mod. | 150 | 600 | EH1518K | | | 1/1 |
| | 200 | 600 | EH2018K | | | 1/1 |
| Panel 18 DIN mod. off-centre | 300 | 600 | EH3018K | | | 1/1 |
| Panel 54 DIN mod. (3 rows x 18 DIN mod.) | 600 | 600 | EH6018K | | | 1/1 |
| Panel 29 DIN mod. | 150 | 800 | EH1529K | | | 1/1 |
| | 200 | 800 | EH2029K | | | 1/1 |
| Panel 29 DIN mod. off-centre | 300 | 800 | EH3029K | | | 1/1 |
| Panel 87 DIN mod. (3 rows x 29 DIN mod.) | 600 | 800 | EH6029K | | | 1/1 |
| Panel 24 DIN mod. | 150 | 600 | EH1524K | | | 1/1 |
| | 200 | 600 | EH2024K | | | 1/1 |
| Panel 72 DIN mod. (3 rows x 24 DIN mod.) | 600 | 600 | EH6025K | | | 1/1 |
| Panel 36 DIN mod. | 150 | 800 | EH1536K | | | 1/1 |
| | 200 | 800 | EH2036K | | | 1/1 |
| Panel 108 DIN mod. (3 rows x 36 DIN mod.) | 600 | 800 | EH6036K | | | 1/1 |

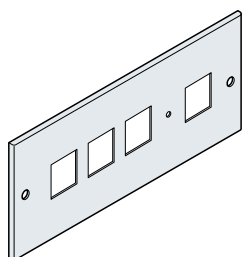
Blind panels for apparatus

Blind panel in 1,2mm (W=600mm) painted RAL7035 colour with quick fixing, suitable for hinges EH1889 (accessory). The useful dimension of the enclosure is always 100mm less than the total height of the enclosure.

| Description | Dimensions (mm) | | Code | | | Package/ No. of pieces |
|-------------|-----------------|-----|---------|--|--|---------------------------|
| | H | W | | | | |
| Blind panel | 50 | 600 | EH0562K | | | 1/1 |
| Blind panel | 100 | | EH1062K | | | 1/1 |
| Blind panel | 150 | | EH1562K | | | 1/1 |
| Blind panel | 200 | | EH2062K | | | 1/1 |
| Blind panel | 300 | | EH3063K | | | 1/1 |
| Blind panel | 400 | | EH4062K | | | 1/1 |
| Blind panel | 500 | | EH5062K | | | 1/1 |
| Blind panel | 600 | | EH6062K | | | 1/1 |
| Blind panel | 50 | 800 | EH0582K | | | 1/1 |
| Blind panel | 100 | | EH1082K | | | 1/1 |
| Blind panel | 150 | | EH1582K | | | 1/1 |
| Blind panel | 200 | | EH2082K | | | 1/1 |
| Blind panel | 300 | | EH3082K | | | 1/1 |
| Blind panel | 400 | | EH4082K | | | 1/1 |
| Blind panel | 500 | | EH5082K | | | 1/1 |
| Blind panel | 600 | | EH6082K | | | 1/1 |



EH2272K-EH2297K-EH3272K
EH3296K



EH2472K-EH3472K-EH3496K

Structures for modular apparatus

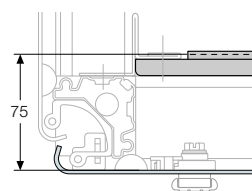
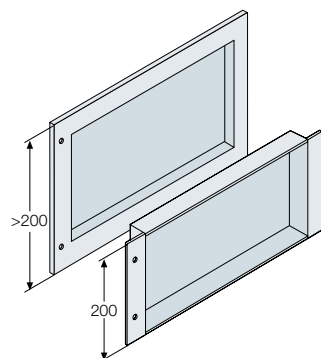
Panel for square measuring instruments

Panel with cut-outs for measuring instruments made of 1,2mm sheet painted RAL7035 colour with quick fixing, suitable for hinges EH1889 (accessory). The useful dimension of the enclosures is always 100mm less than the total height of the enclosures.

| Description | Dimensions (mm) | | Code | | | Package/ No. of pieces |
|---------------------------------|-----------------|-----|---------|--|--|---------------------------|
| | H | W | | | | |
| Panel No. 2 instruments 72x72mm | 200 | 600 | EH2272K | | | 1/1 |
| Panel No. 4 instruments 72x72mm | 200 | | EH2472K | | | 1/1 |
| Panel No. 2 instruments 96x96mm | 200 | | EH2297K | | | 1/1 |
| Panel No. 2 instruments 72x72mm | 200 | 800 | EH3272K | | | 1/1 |
| Panel No. 2 instruments 96x96mm | 200 | | EH3296K | | | 1/1 |
| Panel No. 2 instruments 72x72mm | 200 | | EH3472K | | | 1/1 |
| Panel No. 2 instruments 96x96mm | 200 | | EH3496K | | | 1/1 |

Recessed blind panels

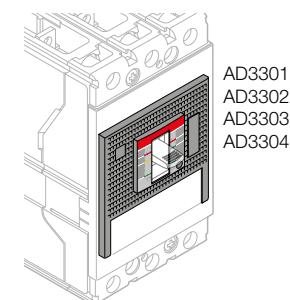
Blind panel in sheet 1,2mm (W=600mm) painted RAL7035 colour with quick fixing, suitable for EH1889 hinges (accessory). The useful dimension of the enclosure is always 100mm less than the total height of the enclosure.



| Description | Dimensions (mm) | | Code | | | Package/ No. of pieces |
|----------------------|-----------------|-----|---------|--|--|---------------------------|
| | H | W | | | | |
| Recessed blind panel | 200 | 600 | EH2063K | | | 1/1 |
| Recessed blind panel | | 800 | EH2083K | | | 1/1 |
| Recessed blind panel | 300 | 600 | EH3064K | | | 1/1 |
| Recessed blind panel | | 800 | EH3083K | | | 1/1 |
| Recessed blind panel | 400 | 600 | EH4064K | | | 1/1 |
| Recessed blind panel | | 800 | EH4083K | | | 1/1 |
| Recessed blind panel | 500 | 600 | EH5063K | | | 1/1 |
| Recessed blind panel | | 800 | EH5084K | | | 1/1 |
| Recessed blind panel | 600 | 600 | EH6063K | | | 1/1 |
| Recessed blind panel | | 800 | EH6084K | | | 1/1 |

The panels with a height of 200 or 300mm, can be used for fixed Tmax XT1-XT2-XT3 with front terminals with direct rotary handle operating mechanism, where the panels with a height of 400-500-600mm can be used for OT switchdisconnectors from 1000 to 1600 A.

Tmax XT cover plate for DIN rail

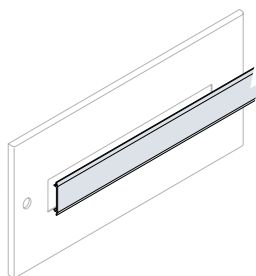


AD3301
AD3302
AD3303
AD3304

| Description | Code | Item | Price | Package/ No. of pieces |
|-------------------------------------------------|--------|------|-------|---------------------------|
| Cover plate for Tmax XT1 3P mounted on DIN rail | AD3301 | | | 1/1 |
| Cover plate for Tmax XT1 4P mounted on DIN rail | AD3302 | | | 1/1 |
| Cover plate for Tmax XT3 3P mounted on DIN rail | AD3303 | | | 1/1 |
| Cover plate for Tmax XT3 4P mounted on DIN rail | AD3304 | | | 1/1 |

IS2 Enclosures

Ordering codes



Structures for modular apparatus

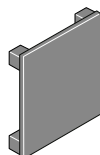
Accessoris for modular panel

Hole covering strip RAL7035 colour

| Description | Code | | | Package/ No. of pieces |
|-----------------------------------------|--------|--|--|---------------------------|
| No.10 hole covers W=2000mm, grey | AD1086 | | | 1/10 |
| No.3 hole covers 24 DIN modules W=600mm | AD1088 | | | 1/3 |
| No.3 hole covers 36 DIN modules W=800mm | AD1089 | | | 1/3 |



EV1137



EV1135
EV1136

Closing plug for instrument holder panels

| Description | Code | | | Package/ No. of pieces |
|---------------------------------------------------------|--------|--|--|---------------------------|
| No.10 closing plug for instrument holder panels 72x72mm | EV1135 | | | 1/10 |
| No.5 closing plug for instrument holder panels 96x96mm | EV1136 | | | 1/5 |
| No.50 closing plugs for pushbuttons Ø22mm | EV1137 | | | 1/50 |

Adhesive name label holders

| Description | Dimensions (mm) W | Code | | Package/ No. of pieces |
|---------------------------------|-------------------------|--------|--|---------------------------|
| No. 20 label holders 18 DIN mod | 325 | EH2118 | | 1/20 |
| No. 20 label holders 29 DIN mod | 525 | EH2129 | | 1/20 |
| No. 20 label holders 24 DIN mod | 432 | AD1600 | | 1/20 |
| No. 20 label holders 36 DIN mod | 634 | AD1800 | | 1/20 |

Labels can be written using compatible Grafoplast system

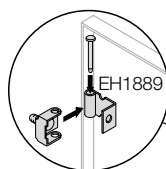
| Description | No. of DIN mod. | Code | | Package/ No. of pieces |
|---------------------------|--------------------|-----------------------|--|---------------------------|
| No. 288 labels 1 DIN mod. | 1 | AD1101 ⁽²⁾ | | 1/288 |
| No. 192 labels 2 DIN mod. | 2 | AD1102 ⁽²⁾ | | 1/192 |
| No. 96 labels 3 DIN mod. | 3 | AD1103 ⁽²⁾ | | 1/96 |
| No. 96 labels 4 DIN mod. | 4 | AD1104 ⁽²⁾ | | 1/96 |

⁽²⁾ Labels can be written using compatible Grafoplast system.

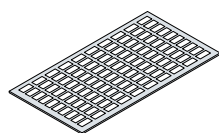
Hinges and quick closures for panels

| Description | Code | | | Package/ No. of pieces |
|---------------------------------------|-----------------------|--|--|---------------------------|
| No. 10 hinges for panels | EH1889 ⁽¹⁾ | | | 1/10 |
| No. 5 quick closures for front panels | EH1890 | | | 1/5 |

⁽¹⁾ Use No.2 hinges for panel H=150/200/300/400mm, No.3 hinges for panel H=500/600mm.



AD1101-AD1102
AD1103-AD1104



EH2118-EH2129
AD1600-AD1800



19" rack structure

19" uprights "L" shaped

The 19" uprights "L" shaped are made of 2,00mm galvanized steel. No.1 compensation panel included.

Examples of configuration and technical characteristics at page 5/118

| Description | No. HE | Dimensions (mm) | | Code | Custom Made Service | | Package/ No. of pieces |
|-----------------------------------------|--------|-----------------|-----|--------|------------------------|--|---------------------------|
| | | H | W | | | | |
| “L” shaped uprights for 19” fixed frame | | | | | | | |
| No.2 “L” shaped | 38 | 1800 | 600 | EG1800 | ■ | | 1/2 |
| No.2 “L” shaped | 42 | 2000 | | EG2000 | ■ | | 1/2 |
| No.2 “L” shaped | 47 | 2200 | | EG2200 | ■ | | 1/2 |
| No.2 “L” shaped | 38 | 1800 | 800 | EG1880 | | | 1/2 |
| No.2 “L” shaped | 42 | 2000 | | EG2080 | | | 1/2 |
| No.2 “L” shaped | 47 | 2200 | | EG2280 | | | 1/2 |

Upright for depth adjustment of the fixed rack frame "L" shaped (25mm pitch)

| | | | | | | | |
|------------------------------------------------------------|--|------|--|--------|--|--|-----|
| No.2 uprights for depth adjustment of the fixed rack frame | | 1800 | | EM1804 | | | 1/2 |
| No.2 uprights for depth adjustment of the fixed rack frame | | 2000 | | EM2004 | | | 1/2 |
| No.2 uprights for depth adjustment of the fixed rack frame | | 2200 | | EM2204 | | | 1/2 |

■ The "Custom Made Service" is valid only for structures assembled at the factory, for more information please contact your local sales network.

19" Swing rack frame

The centred and decentralized swing frames are made of 2,00mm galvanised steel painted RAL 7035 and are complete with handle and lock with double tongue key.

| Description | No. HE | Dimensions (mm) | | Code | Custom Made Service | | Package/ No. of pieces |
|--------------------------------|--------|-----------------|-----|---------|---------------------|--|---------------------------|
| | | H | W | | | | |
| Centred swing rack frame | | | | | | | |
| Centred swing rack frame | 36 | 1800 | 600 | EG1801K | ■ | | 1/1 |
| Centred swing rack frame | 40 | 2000 | | EG2001K | ■ | | 1/1 |
| Centred swing rack frame | 45 | 2200 | | EG2201K | ■ | | 1/1 |
| Decentralized swing rack frame | | | | | | | |
| Decentralized swing rack frame | 33 | 1800 | 800 | EG1803K | ■ | | 1/1 |
| Decentralized swing rack frame | 38 | 2000 | | EG2003K | ■ | | 1/1 |
| Decentralized swing rack frame | 42 | 2200 | | EG2203K | ■ | | 1/1 |

■ The "Custom Made Service" is valid only for structures assembled at the factory, for more information please contact your local sales network.

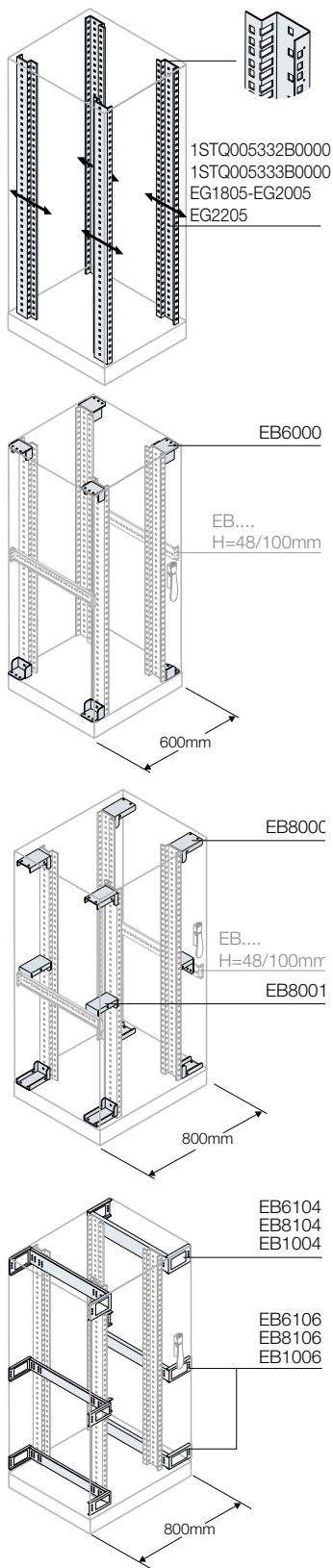
Partial swing rack frame

| Description | No. HE | Dimensions (mm) | | Code | | | Package/ No. of pieces |
|------------------------------|--------|-----------------|-----|---------|--|--|---------------------------|
| | | H | W | | | | |
| Partial swing rack frame 19" | | | | | | | |
| Partial swing rack frame | 9 | 500 | 600 | EG0500K | | | 1/1 |
| Partial swing rack frame | 18 | 900 | | EG0900K | | | 1/1 |
| Partial swing rack frame | 27 | 1300 | | EG1300K | | | 1/1 |

IS2 Enclosures

Ordering codes

5



19" rack structure

19" cranked shaped uprights

Cranked shaped uprights are made of 2,00mm galvanized steel sheet and are fixed by brackets or crosspieces and are adjustable in depth (25mm pitch).

| Description | N° HE | Dimensions (mm) H | Code | Package/ No. of pieces |
|---------------------------------------------|-------|-------------------|-----------------|------------------------|
| NEW No.2 19" cranked shaped uorights | 32 | 1400 | 1STQ005332B0000 | 1/2 |
| NEW No.2 19" cranked shaped uorights | 36 | 1600 | 1STQ005333B0000 | 1/2 |
| No.2 19" cranked shaped uorights | 40 | 1800 | EG1805 | 1/2 |
| No.2 19" cranked shaped uorights | 44 | 2000 | EG2005 | 1/2 |
| No.2 19" cranked shaped uorights | 49 | 2200 | EG2205 | 1/2 |

Brackets for fixing 19" cranked shaped uprights (top bottom position)

| Description | Dimensions (mm) | | Code | | | Package/ No. of pieces |
|--------------------------------------------------------------------------|-----------------|---|-----------------------|--|--|---------------------------|
| | W | D | | | | |
| Brackets for fixing 19" cranked shaped uprights (W=600/800mm enclosures) | | | | | | |
| No.4 brackets for fixing total/partial cranked shaped uprights | 600 | | EB6000 ⁽¹⁾ | | | 1/4 |
| No.4 brackets for fixing total/partial cranked shaped uprights | 800 | | EB8000 | | | 1/4 |

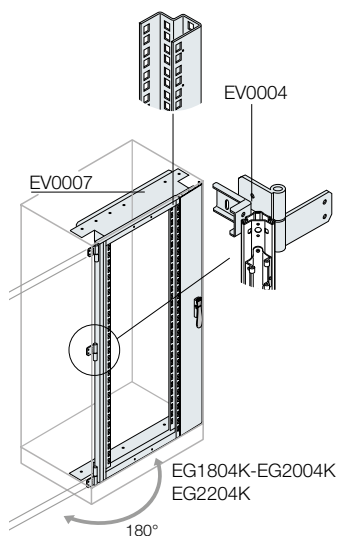
Brackets for fixing 19" cranked shaped uprights (intermediate position)

| Description | Dimensions (mm) | | Code | | | Package/ No. of pieces |
|-----------------------------------------------------------------------------|-----------------|---|-----------------------|--|--|------------------------------|
| | W | D | | | | |
| Brackets for fixing 19" cranked shaped uprights (W=600/800mm enclosures) | | | | | | |
| No.2 intermediate brackets for fixing total/partial cranked shaped uprights | 800 | | EB8001 ⁽²⁾ | | | 1/2 |

Crosspieces for fixing 19" cranked shaped uprights

| Description | Dimensions (mm) | | Code | | | Package/ No. of pieces |
|------------------------------------------------------------------------------|-----------------|------|--------|--|--|---------------------------|
| | W | D | | | | |
| Crosspieces for fixing 19" cranked shaped uprights (only W=800mm enclosures) | | | | | | |
| No.2 top crosspieces | 800 | 600 | EB6104 | | | 1/2 |
| No.2 top crosspieces | | 800 | EB8104 | | | 1/2 |
| No.2 top crosspieces | | 1000 | EB1004 | | | 1/2 |
| No.2 central/bottom crosspieces | | 600 | EB6106 | | | 1/2 |
| No.2 central/bottom crosspieces | | 800 | EB8106 | | | 1/2 |
| No.2 central/bottom crosspieces | | 1000 | EB1006 | | | 1/2 |

⁽¹⁾ In enclosures 600 mm wide, the cranked shaped rack uprights can be fixed in the middle height of the enclosures by means of standard crosspieces EB.... see page 5/65.
⁽²⁾ To be combined with the standard cross EB.... see page 5/65.



19" rack frames

19" Swing rack frame with "C" shaped profile

The decentralized swing frames are made of 2,00mm galvanised steel painted RAL 7035 and are complete with handle and lock with double tongue key. EV0007 assembling kit to be used in order to mount the frame.

| Description | No. HE | Dimensions (mm) | | Code | Custom Made Service | | Package/ No. of pieces |
|--------------------------------------------------------|--------|-----------------|-----|-----------------------|------------------------|--|---------------------------|
| | | H | W | | | | |
| Off-center swing rack frame “C” shaped upright profile | | | | | | | |
| Swing “C” shaped rack frame | 36 | 1800 | 800 | EG1804K | | | 1/1 |
| Swing “C” shaped rack frame | 41 | 2000 | | EG2004K | | | 1/1 |
| Swing “C” shaped rack frame | 45 | 2200 | | EG2204K | | | 1/1 |
| 180° opening hinge for swing rack frame and braket | | | | EV0004 | | | 1/1 |
| kit for fixing swing rack frame “C” shaped | | | | EV0007 ⁽¹⁾ | | | 1/1 |

■ The "Custom Made Service" is valid only for structures assembled at the factory, for more information please contact your local sales network.

⁽¹⁾ To be ordered always with new off-center swing rack frame with "C" shaped uprights EG1804K, EG2004K, EG2204K..

5

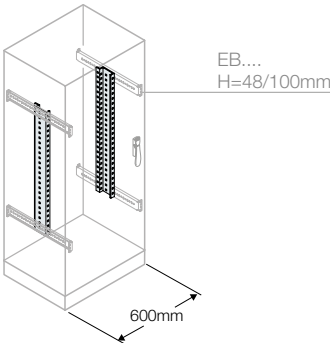
Screws and nuts parts

| Description | Code | | | Package/ No. of pieces |
|-----------------------------------------------|--------|--|--|------------------------|
| No.50 screws M6 x 13mm cross rounded head | EV6130 | | | 1/50 |
| No.50 cage nut M6 for square hole 9,2 x 9,2mm | EV6131 | | | 1/50 |
| No.20 cage nut M5 for square hole 9,2 x 9,2mm | EV0102 | | | 1/50 |
| No.20 Torx M5 screws with nylon washer L=16mm | EV0103 | | | 1/20 |
| No.20 Torx M6 screws with nylon washer L=16mm | EV0104 | | | 1/20 |

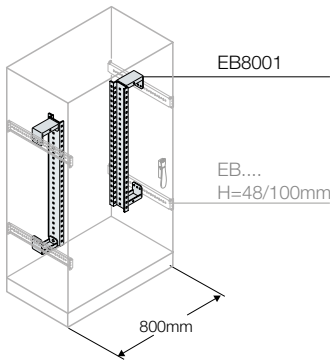
IS2 Enclosures

Ordering codes

EG1500K-EG1900K-EG1130K



EB....
H=48/100mm



EB8001
EB....
H=48/100mm

19" rack structure

Partial 19" cranked shaped uprights

| Description | No. HE | Dimensions (mm) | | Code | | | Package/ No. of pieces |
|----------------------------------------------------------------|--------|-----------------|---------|------------------------|--|--|---------------------------|
| | | H | W | | | | |
| Partial 19" cranked shaped uprights | | | | | | | |
| Partial shaped uprights | 9 | 500 | 600/800 | EG1500K ⁽¹⁾ | | | 1/1 |
| Partial shaped uprights | 18 | 900 | | EG1900K ⁽¹⁾ | | | 1/1 |
| Partial shaped uprights | 27 | 1300 | | EG1130K ⁽¹⁾ | | | 1/1 |
| No.2 brackets for fixing total/partial cranked shaped uprights | | 800 | | EB8001 ⁽²⁾ | | | 1/2 |

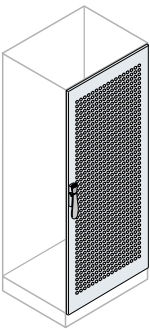
⁽¹⁾ In enclosures 600 mm wide, the cranked shaped rack uprights can be fixed in the middle height of the enclosures by means of standard crosspieces EB.... see page 5/65.

⁽²⁾ To be combined with the standard cross EB.... see page 5/65.

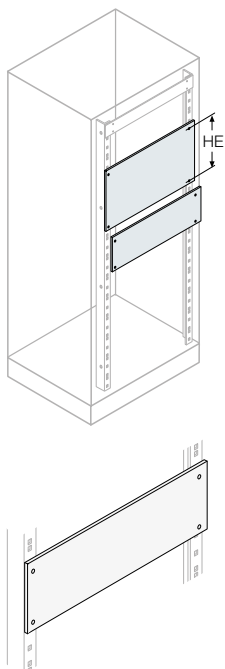
19" rack structure accessories

Aerated door IP20

Aerated door made of RAL 7035 colour 1,2mm thick sheet, fitted with polyurethane gasket, complete with handle with double tongue key (interchangeable with other types of inserts, see pag. 5/104). Reversible (hinged on the right as standard) with 4 closing points and complete with internal reinforcement frame and earthing pins.



| Description | Dimensions (mm) | | Code | | | Package/ No. of pieces |
|---------------------------------------------------|-----------------|-----|--------|--|--|---------------------------|
| | H | W | | | | |
| Aerated door for server cabinet | | | | | | |
| Aerated door for server cabinet | 1800 | 800 | EC1882 | | | 1/1 |
| Aerated door for server cabinet | 2000 | | EC2082 | | | 1/1 |
| Aerated door for server cabinet | 2200 | | EC2282 | | | 1/1 |
| Aerated door for server cabinet with 180° opening | | | | | | |
| Aerated door for server cabinet with 180° opening | 1800 | 800 | EC1884 | | | 1/1 |
| Aerated door for server cabinet with 180° opening | 2000 | | EC2084 | | | 1/1 |
| Aerated door for server cabinet with 180° opening | 2200 | | EC2284 | | | 1/1 |



Equipment for 19" rack frame

Panel for 19" rack frames aluminium

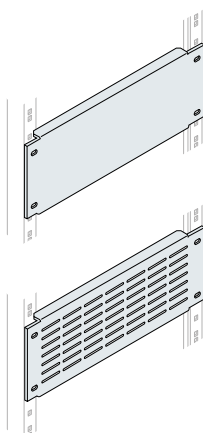
Panels made of 3,00 Aluminium

| Description | No. HE | Dimensions (mm) H | Code | | | Package/ No. of pieces |
|-------------------------------------------------|-----------|----------------------|--------|--|--|---------------------------|
| Blind aluminium panel for 19" rack frame | | | | | | |
| Blind panel rack 19" | 1HE | 44,45 | EG1991 | | | 1/1 |
| Blind panel rack 19" | 2HE | 89 | EG1902 | | | 1/1 |
| Blind panel rack 19" | 3HE | 133 | EG1903 | | | 1/1 |
| Blind panel rack 19" | 4HE | 177,5 | EG1904 | | | 1/1 |
| Blind panel rack 19" | 5HE | 222 | EG1905 | | | 1/1 |
| Blind panel rack 19" | 6HE | 266,5 | EG1906 | | | 1/1 |
| Blind panel rack 19" | 7HE | 311 | EG1907 | | | 1/1 |
| Blind panel rack 19" | 8HE | 355,5 | EG1908 | | | 1/1 |
| Blind panel rack 19" | 9HE | 400 | EG1909 | | | 1/1 |
| Blind panel rack 19" | 10HE | 444,5 | EG1910 | | | 1/1 |
| Blind panel rack 19" | 11HE | 488 | EG1911 | | | 1/1 |
| Blind panel rack 19" | 12HE | 533 | EG1912 | | | 1/1 |
| Blind panel rack 19" | 13HE | 577,5 | EG1913 | | | 1/1 |
| Blind panel rack 19" | 14HE | 622 | EG1914 | | | 1/1 |
| Blind panel rack 19" | 15HE | 666 | EG1915 | | | 1/1 |
| Blind panel rack 19" | 16HE | 711 | EG1916 | | | 1/1 |
| Blind panel rack 19" | 17HE | 755,5 | EG1917 | | | 1/1 |
| Blind panel rack 19" | 18HE | 800 | EG1918 | | | 1/1 |
| Blind panel rack 19" | 19HE | 844,5 | EG1999 | | | 1/1 |
| Blind panel rack 19" | 20HE | 889 | EG1920 | | | 1/1 |

5

Blind and aerated panel in steel sheet 1,5mm for 19" rack frame RAL 7035

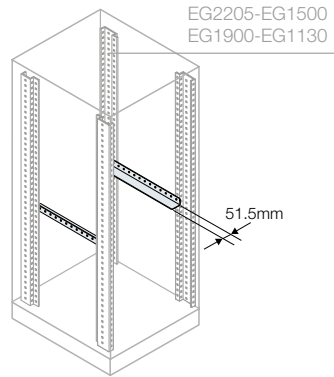
| Description | No. HE | Dimensions (mm) H | Code | | | Package/ No. of pieces |
|--------------------------------------------|-----------|----------------------|--------|--|--|---------------------------|
| Blind panel RAL 7035 for rack 19" | | | | | | |
| Blind panel for rack 19" | 1HE | 44,45 | EG0119 | | | 1/1 |
| Blind panel for rack 19" | 2HE | 89 | EG0219 | | | 1/1 |
| Blind panel for rack 19" | 3HE | 133 | EG0319 | | | 1/1 |
| Blind panel for rack 19" | 4HE | 177,5 | EG0419 | | | 1/1 |
| Blind panel for rack 19" | 5HE | 222 | EG0519 | | | 1/1 |
| Blind panel for rack 19" | 6HE | 266,5 | EG0619 | | | 1/1 |
| Blind panel for rack 19" | 7HE | 311 | EG0719 | | | 1/1 |
| Blind panel for rack 19" | 9HE | 400 | EG0919 | | | 1/1 |
| Blind panel for rack 19" | 10HE | 444,5 | EG1019 | | | 1/1 |
| Blind panel for rack 19" | 12HE | 533 | EG1219 | | | 1/1 |
| Blind panel for rack 19" | 14HE | 622 | EG1419 | | | 1/1 |
| Blind panel for rack 19" | 15HE | 666 | EG1519 | | | 1/1 |
| Blind panel for rack 19" | 16HE | 711 | EG1619 | | | 1/1 |
| Blind panel for rack 19" | 18HE | 800 | EG1819 | | | 1/1 |
| Blind panel for rack 19" | 20HE | 889 | EG2019 | | | 1/1 |
| Aerated panel RAL 7035 for rack 19" | | | | | | |
| Aerated panel for rack 19" | 1HE | 44,45 | EH1991 | | | 1/1 |
| Aerated panel for rack 19" | 2HE | 89 | EH1992 | | | 1/1 |
| Aerated panel for rack 19" | 3HE | 133 | EH1993 | | | 1/1 |



IS2 Enclosures

Ordering codes

EG1805-EG2005
EG2205-EG1500
EG1900-EG1130



Equipment for 19" rack frame

"L" shaped accessories support for 19" cranked shaped upright

"L" shaped accessories support couple in galvanized sheet 2,00mm, fixing at 25mm pitch in depth on front and rear uprights..

| Description | D (mm) Structure | Code | | | Package/ No. of pieces |
|------------------------------|---------------------|--------|--|--|---------------------------|
| "L" support couple - W=500mm | 600 | EV0020 | | | 1/2 |
| "L" support couple - W=600mm | 800 | EV0021 | | | 1/2 |
| "L" support couple - W=800mm | 1000 | EV0022 | | | 1/2 |

Accessories compatible with: rack 19" cranked shaped uprights, off-center swing rack frame with "C" shaped uprights and partial 19" cranked shaped uprights.

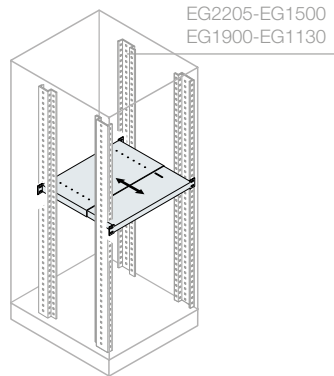
Universal shelves for 19" cranked shaped uprights

Universal shelves in galvanized sheet 2,00mm, fixing at 25mm pitch in depth. Mounting on front and rear uprights.

| Description | D (mm) Structure | Code | | | Package/ No. of pieces |
|----------------------------------------|---------------------|--------|--|--|---------------------------|
| Universal fixed shelf- 450x400mm (WxD) | 600 | EV0400 | | | 1/1 |
| Universal fixed shelf- 450x600mm (WxD) | 800 | EV0600 | | | 1/1 |
| Universal fixed shelf- 450x800mm (WxD) | 1000 | EV0800 | | | 1/1 |

Accessories compatible with: rack 19" cranked shaped uprights, off-center swing rack frame with "C" shaped uprights and partial 19" cranked shaped uprights.

EG1805-EG2005
EG2205-EG1500
EG1900-EG1130



Adjustable in depth shelf for 19" cranked shaped uprights

Adjustable in depth shelf 1 HE in galvanized sheet 2,00mm, RAL 7035. Mounting on front and rear uprights.

| Description | Dimensions (mm) | | Code | | | Package/ No. of pieces |
|-------------------------------------------------------------------------|-----------------|-----|--------|--|--|---------------------------|
| | W | D | | | | |
| Adjustable in depth shelf 1HE (distance between fixing plans 440-665mm) | 450 | 450 | EV0041 | | | 1/1 |

Accessories compatible with: rack 19" cranked shaped uprights, off-center swing rack frame with "C" shaped uprights and partial 19" cranked shaped uprights.

Withdrawable shelves for cranked and "C" shaped uprights profile

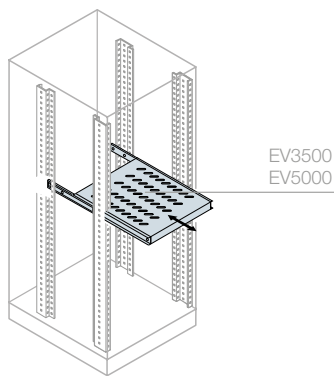
Withdrawable shelves for equipments. Fixing on the front and rear fixed uprights.

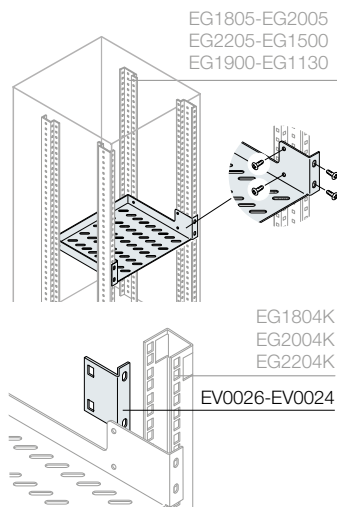
| Description | Dimensions (mm) D | Code | | | Package/ No. of pieces |
|---------------------------------------------------------------------------|-------------------|----------|--|--|---------------------------|
| Withdrawable shelf D=350mm with telescopic slides and 2HE fixing elements | 350 | EV3500* | | | 1/1 |
| Withdrawable shelf D=500mm with telescopic slides and 1HE fixing elements | 500 | EV5000** | | | 1/1 |

* For cranked shaped uprights and "C" shaped swing frame.

** Only for cranked shaped uprights.

EV3500
EV5000





Fixed shelf for apparatus

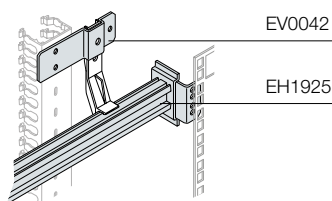
Fixed shelves 2HE and 1HE to be mounted at the front (rear upright are not necessary, only for additional fixing point) on 19" cranked shaped uprights and on "C" shaped swing frames with 2 adaptation brackets (EV0026/ EV0024).

| Description | Dimensions (mm) D | Code | | | Package/ No. of pieces |
|-------------------------------------------------------|-------------------|--------|--|--|------------------------|
| 1 fixed shelf 1HE front/back | 385 | EV1385 | | | 1/1 |
| 1 fixed shelf 2HE front/back | | EV2385 | | | 1/1 |
| No.2 brackets for 1HE shelf on "C" shaped swing frame | | EV0026 | | | 1/2 |
| No.2 brackets for 2HE shelf on "C" shaped swing frame | | EV0024 | | | 1/2 |

Accessories compatible with: rack 19" cranked shaped uprights, off-center swing rack frame with "C" shaped uprights and partial 19" cranked shaped uprights.

DIN rail and support for cable duct

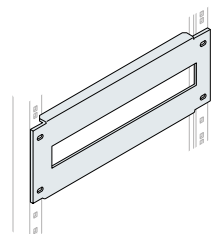
DIN rail and support for cable duct for cranked shaped upright and on "C" shaped swing frame.



| Description | Code | | | | Package/ No. of pieces |
|---------------------------------------------------------|--------|--|--|--|------------------------|
| DIN rail for rack 19" frame 25 mod. and fixing brackets | EH1925 | | | | 1/1 |
| Horizontal/vertical support for cable duct | EV0042 | | | | 1/1 |

Accessories compatible with: rack 19" cranked shaped uprights, off-center swing rack frame with "C" shaped uprights and partial 19" cranked shaped uprights.

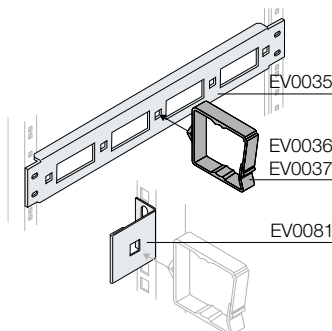
Steel panels for modular apparatus 19" rack frame RAL 7035



| Description | No. HE | Dimensions (mm) H | Code | | | Package/ No. of pieces |
|-------------------------------------------------------------------|--------|-------------------|--------|--|--|------------------------|
| Steel panels for modular apparatus 19" rack frame RAL 7035 | | | | | | |
| DIN panel | 3HE | 133 | EH0003 | | | 1/1 |
| DIN panel | 4HE | 177,5 | EH0004 | | | 1/1 |

Accessories compatible with: rack 19" cranked shaped uprights, off-center swing rack frame with "C" shaped uprights and partial 19" cranked shaped uprights.

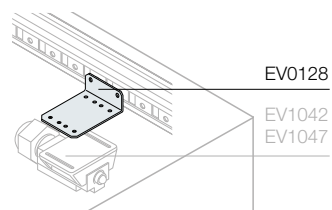
Universal cable holder panel



| Description | Code | | | | Package/ No. of pieces |
|----------------------------------|--------|--|--|--|------------------------|
| Cable holder panel 1 HE RAL 7035 | EV0035 | | | | 1/1 |
| No.5 bracket for cable holder | EV0081 | | | | 1/5 |
| No.5 cable holder D=28,5mm | EV0036 | | | | 1/5 |
| No.5 cable holder D=55mm | EV0037 | | | | 1/5 |

Accessories compatible with: rack 19" cranked shaped uprights, off-center swing rack frame with "C" shaped uprights and partial 19" cranked shaped uprights.

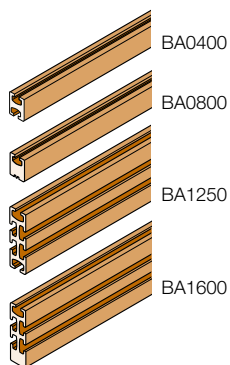
Limit kit switch for swing frame



| Description | Code | | | | Package/ No. of pieces |
|----------------------------------|--------|--|--|--|------------------------|
| Limit kit switch for swing frame | EV0128 | | | | 1/1 |

IS2 Enclosures

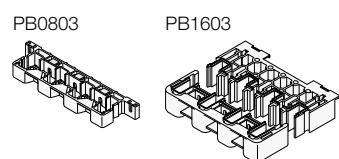
Ordering codes



Distribution and earthing system

Distribution busbars with shaped section

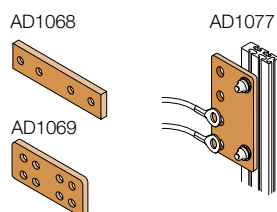
| Description | Dimensions (mm) W | Code | Package/ No. of pieces |
|-----------------|-------------------|--------|------------------------|
| Busbar In=400A | 1730 | BA0400 | 1/1 |
| Busbar In=800A | 1730 | BA0800 | 1/1 |
| Busbar In=1250A | 1730 | BA1250 | 1/1 |
| Busbar In=1600A | 1730 | BA1600 | 1/1 |



Busbars holder for busbar with shaped section

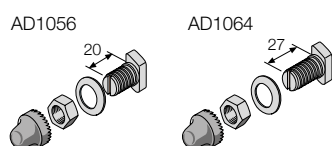
To be used with crosspieces H 48mm to be drilled (see page 5/63).

| Description | Code | Package/ No. of pieces |
|--------------------------------------|--------|------------------------|
| Linear busbar holder In=800A - 35kA | PB0803 | 1/1 |
| Linear busbar holder In=1600A - 65kA | PB1603 | 1/1 |



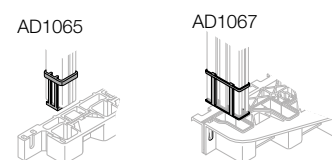
Joints for busbars

| Description | Code | Package/ No. of pieces |
|----------------------------------------------------------------------------------|--------|------------------------|
| No.4 800A joints for busbars with shaped section (with 800/1250/1600A busbars) | AD1068 | 1/4 |
| No.4 1250/1600A joints for busbars with shaped section (with 1250/1600A busbars) | AD1069 | 1/4 |
| No.4 copper 400A branch joints | AD1077 | 1/4 |



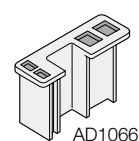
Hammer seal screws

| Description | Code | Package/ No. of pieces |
|---------------------------------------------------------------------------------|--------|------------------------|
| No.12 screws M8 - W=20mm for cable terminal | AD1056 | 1/12 |
| No.12 screws M8 - W=27mm for flats up to 10 mm, complete with screwcovering cap | AD1064 | 1/12 |



Resting bases

| Description | Code | Package/ No. of pieces |
|--------------------------------------|--------|------------------------|
| No.4 400/800A busbar resting bases | AD1065 | 1/4 |
| No.4 1250/1600A busbar resting bases | AD1067 | 1/4 |

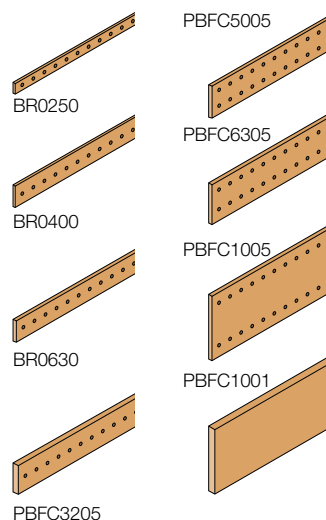


Adapters for busbars

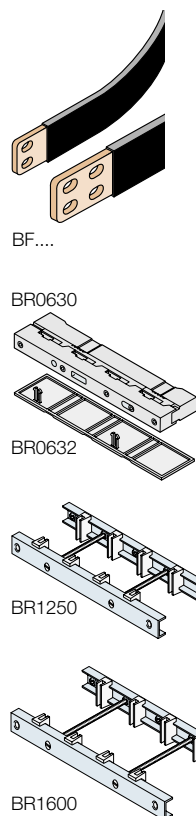
| Description | Code | Package/ No. of pieces |
|--------------------------------------------------------------------|--------|------------------------|
| No.4 adapters for busbars In =400/800A with busbar holder (PB1603) | AD1066 | 1/4 |

Distribution and earthing system

Flat busbars



| Description | Dimensions (mm) W | Code | | | Package/ No. of pieces |
|------------------------------------------|-------------------|----------|--|--|------------------------|
| No.2 busbars In=250A section: 15x5mm | 1750 | BR0250 | | | 1/2 |
| No.2 busbars In=400A section: 25x5mm | 1750 | BR0400 | | | 1/2 |
| No.2 busbars In=630A section: 30x10mm | 1750 | BR0630 | | | 1/2 |
| No.1 busbars In=400A, section: 32x5mm | 1750 | PBFC3205 | | | 1/1 |
| No.1 busbars In=630A, section: 50x5mm | 1750 | PBFC5005 | | | 1/1 |
| No.1 busbars In=800A, section: 63x5mm | 1750 | PBFC6305 | | | 1/1 |
| No.1 busbars In=1250A, section: 100x5mm | 1750 | PBFC1005 | | | 1/1 |
| No.1 busbars In=1600A, section: 100x10mm | 1750 | PBFC1001 | | | 1/1 |



Flexible busbars

| Description | Dimensions (mm) W | Code | | | Package/ No. of pieces |
|-----------------------------------------------|-------------------|-----------------------|--|--|------------------------|
| No.2 flexible busbars, section 20x3 In=250A | 2000 | BF1602 | | | 1/2 |
| No.2 flexible busbars, section 20x5 In=400A | 2000 | BF2502 | | | 1/2 |
| No.2 flexible busbars, section 20x6 In=500A | 2000 | BF4002 | | | 1/2 |
| No.2 flexible busbars, section 32x5 In=630A | 2000 | BF4012 ⁽¹⁾ | | | 1/2 |
| No.2 flexible busbars, section 40x8 In=1000A | 2000 | BF6302 | | | 1/2 |
| No.2 flexible busbars, section 50x10 In=1250A | 2000 | BF8002 | | | 1/2 |

⁽¹⁾ Only for circuit-breakers with extended front terminals or rear terminals.

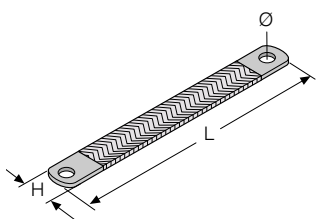
Busbar holder

To use with crosspieces H=48mm to drill (see page 5/63)

| Description | Code | | | Package/ No. of pieces |
|-------------------------------------------------------|--------|--|--|------------------------|
| No.2 linear busbar holders In=630A - 32kA | BP0630 | | | 1/2 |
| No.2 terminal covers for linear busbar holders BP0630 | BP0632 | | | 1/2 |
| No.2 busbar holder for busbars 5mm thickness | BP1250 | | | 1/2 |
| No.2 busbar holder for busbars 10mm thickness | BP1600 | | | 1/2 |

IS2 Enclosures

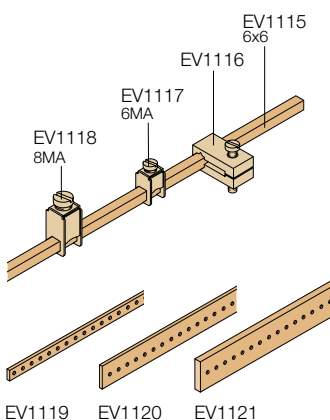
Ordering codes



Distribution and earthing system

Cables for earthing

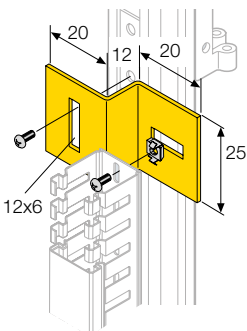
| Description | Dimensioni (mm) | | Code | | | Package/ No. of pieces |
|---------------------------------|-----------------|-----|--------|--|--|---------------------------|
| | H | L | | | | |
| No.5 earthing cables sect. 16mm | 17 | 200 | AA6840 | | | 1/5 |
| No.5 earthing cables sect. 16mm | 17 | 300 | AA6850 | | | 1/5 |
| No.5 earthing cables sect. 25mm | 22 | 200 | AA6880 | | | 1/5 |
| No.5 earthing cables sect. 25mm | 22 | 300 | AA6890 | | | 1/5 |



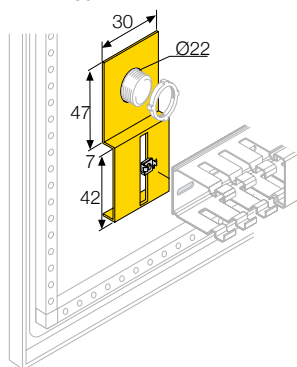
EV1122-EV1123
EV1124-EV1125

Neutral/earthing copper busbars

| Description | Code | | | Package/ No. of pieces |
|---------------------------------------------------------------|--------|--|--|---------------------------|
| Neutral/earthing busbar 6x6mm W=2000mm | EV1115 | | | 1/1 |
| No. 50 insulators for neutral/earthing busbar for EV1115 | EV1116 | | | 1/50 |
| No. 100 terminals for cable ø0.5-16mm ² for EV1115 | EV1117 | | | 1/100 |
| No. 100 terminals for cable ø4-35mm ² for EV1115 | EV1118 | | | 1/100 |
| No. 2 drilled and threaded 20x5mm busbars M6 W=2000mm | EV1119 | | | 1/2 |
| No. 2 drilled and threaded 25x5mm busbars M6 W=2000mm | EV1120 | | | 1/2 |
| No. 2 drilled and threaded 50x5mm busbars M6 W=2000mm | EV1121 | | | 1/2 |
| No.50 hexagonal insulators 30x30mm M6 | EV1122 | | | 1/50 |
| No.50 hexagonal insulators 30x30mm M8 | EV1123 | | | 1/50 |
| No.25 hexagonal insulators 36x50mm M6 | EV1124 | | | 1/25 |
| No.25 hexagonal insulators 36x50mm M8 | EV1125 | | | 1/25 |



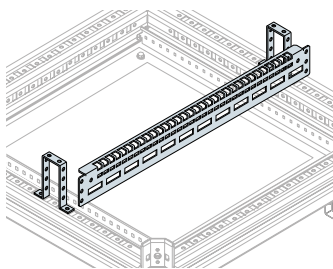
EV1130



EV1131

Screws for apparatus

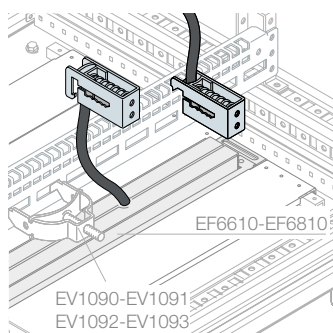
| Description | Code | | | Package/ No. of pieces |
|--------------------------------------------------------|--------|--|--|---------------------------|
| No.1000 perforating screws 4.2x13mm cross slotted head | EV1100 | | | 1/1000 |
| No.1000 perforating screws 4.2x19mm cross slotted head | EV1101 | | | 1/1000 |
| No.50 trilobed screws M6 L=10mm | AD1033 | | | 1/50 |



Distribution and earthing system

Bracket for EMC clamps and anchor cables

| Description | Dimensions (mm) W | Code | | | Package/ No. of pieces |
|------------------------------------------|-------------------|--------|--|--|---------------------------|
| Bracket for EMC clamps and anchor cables | 600 | EV0068 | | | 1/1 |
| Bracket for EMC clamps and anchor cables | 800 | EV0069 | | | 1/1 |

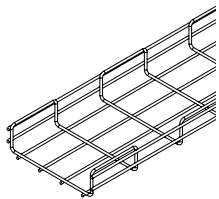


EMC clamps

| Description | Code | | | Package/ No. of pieces |
|---------------------------------------------------|--------|--|--|---------------------------|
| No.10 EMC clamps for cables Ø min 10 mm max 20 mm | EV0108 | | | 1/10 |
| No.10 EMC clamps for cables Ø min 15 mm max 28 mm | EV0109 | | | 1/10 |
| No.10 EMC clamps for cables Ø min 4 mm max 15 mm | EV0110 | | | 1/10 |
| No.10 EMC clamps for cables Ø min 3 mm max 10 mm | EV0111 | | | 1/10 |
| No.10 EMC clamps for cables Ø min 20 mm max 37 mm | EV0112 | | | 1/10 |

IS2 Enclosures

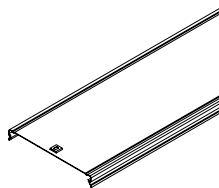
Ordering codes



Distribution and earthing system

Steel wire sendzimir painted trays W=3000mm

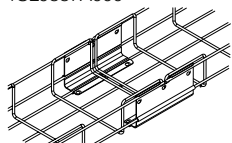
| Description | Code | | | Conf. imb./metri |
|---------------------------|------------|--|--|------------------|
| H=35mm | | | | |
| Straight element B 75mm | 1SL9816A00 | | | 24 |
| Straight element B 100mm | 1SL9817A00 | | | 24 |
| Straight element B 150 mm | 1SL9818A00 | | | 24 |
| Straight element B 200mm | 1SL9819A00 | | | 12 |
| Straight element B 300mm | 1SL9820A00 | | | 12 |
| H=50mm | | | | |
| Straight element B 75mm | 1SL9836A00 | | | 24 |
| Straight element B 100mm | 1SL9037A00 | | | 24 |
| Straight element B 150 mm | 1SL9838A00 | | | 24 |
| Straight element B 200mm | 1SL9839A00 | | | 12 |
| Straight element B 300mm | 1SL9840A00 | | | 12 |
| Straight element B 400mm | 1SL9841A00 | | | 6 |
| Straight element B 500mm | 1SL9842A00 | | | 6 |
| H=75mm | | | | |
| Straight element B 75mm | 1SL9860A00 | | | 24 |
| Straight element B 100mm | 1SL9861A00 | | | 24 |
| Straight element B 150 mm | 1SL9862A00 | | | 24 |
| Straight element B 200mm | 1SL9863A00 | | | 12 |
| Straight element B 300mm | 1SL9864A00 | | | 12 |
| Straight element B 400mm | 1SL9865A00 | | | 6 |
| Straight element B 500mm | 1SL9866A00 | | | 6 |



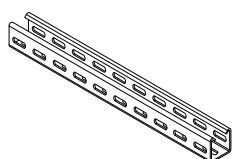
Sendzimir covers W=3000mm

| Description | Code | | | Conf. imb./metri |
|------------------------|-------|--|--|------------------|
| Straight cover B 75mm | 07241 | | | 24 |
| Straight cover B 100mm | 07242 | | | 24 |
| Straight cover B 150mm | 07243 | | | 24 |
| Straight cover B 200mm | 07244 | | | 12 |
| Straight cover B 300mm | 07245 | | | 12 |
| Straight cover B 400mm | 07246 | | | 6 |
| Straight cover B 500mm | 07247 | | | 6 |

1SL9907A00-1SL9886A0
1SL9887A000



1SL9910A00÷1SL9915A00



1SL9893A00



Distribution and earthing system

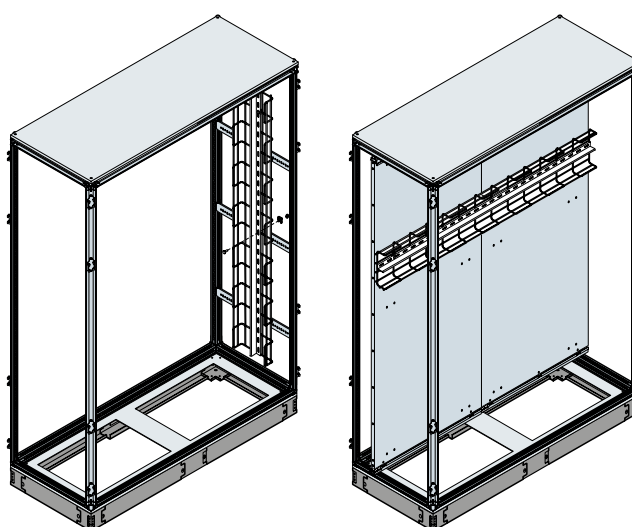
Straight sendzimir separator sections

| Description | Code | | | Package/ No. of pieces |
|-----------------------------------------------|------------|--|--|---------------------------|
| Separator section W 2000 mm for trays H 35 mm | 1SL9904A00 | | | 1/20 |
| Separator section W 2000 mm for trays H 50 mm | 06652 | | | 1/20 |
| Separator section W 2000 mm for trays H 75 mm | 07855 | | | 1/20 |

Sendzimir accessories

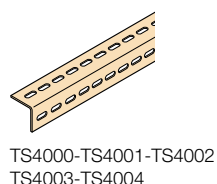
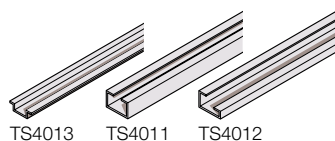
| Description | Code | | | Package/ No. of pieces |
|-----------------------------------------------|------------|--|--|---------------------------|
| Linear joint | 1SL9880A00 | | | 1/2 |
| Snap-on linear joint for trays H 35mm | 1SL9907A00 | | | 1/2 |
| Snap-on linear joint for trays H 50mm | 1SL9886A00 | | | 1/2 |
| Snap-on linear joint for trays H 75mm | 1SL9887A00 | | | 1/2 |
| Fixing element for shelf complete with screws | 1SL9893A00 | | | 1/10 |
| Crosspiece L 150mm for trays B 75-100mm | 1SL9910A00 | | | 1/10 |
| Crosspiece L 200mm for trays B 150mm | 1SL9911A00 | | | 1/10 |
| Crosspiece L 250mm for trays B 200mm | 1SL9912A00 | | | 1/10 |
| Crosspiece L 350mm for trays B 300mm | 1SL9913A00 | | | 1/10 |
| Crosspiece L 450mm for trays B 400mm | 1SL9914A00 | | | 1/10 |
| Crosspiece L 550mm for trays B 500mm | 1SL9915A00 | | | 1/10 |

Note: The steel wire trays are also available in the following versions: unpainted sendzimir; electro-galvanisation; hot galvanisation after processing.



IS2 Enclosures

Ordering codes

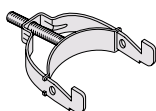


Distribution and earthing system

Sections for accessories

Universal sections of different types for mounting any component or for cable locking.

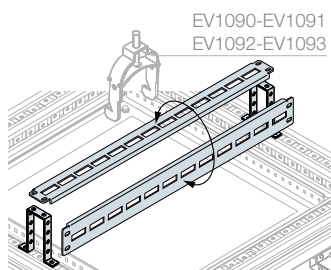
| Description | Dimensions (mm) L | Code | Package/ No. of pieces |
|-----------------------------------|----------------------|--------|---------------------------|
| No. 2 EN sections 5002 C30 | 2000 | TS4011 | 1/2 |
| No. 2 EN sections G32 | 2000 | TS4012 | 1/2 |
| No. 2 DIN EN sections 5022 35x7.5 | 2000 | TS4013 | 1/2 |
| No. 2 sections for structures | 600 | TS4000 | 1/2 |
| No. 2 sections for structures | 800 | TS4001 | 1/2 |
| No. 2 sections for structures | 1000 | TS4002 | 1/2 |
| No. 2 sections for structures | 1200 | TS4003 | 1/2 |
| No. 2 sections for structures | 1600 | TS4004 | 1/2 |



Brackets for anchoring cables

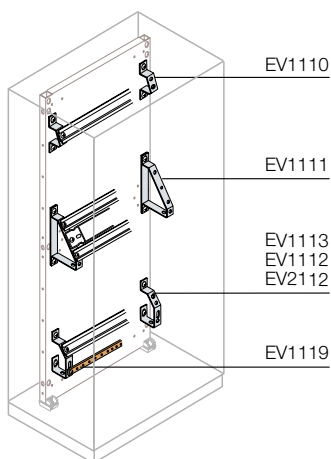
djustable cable clamping bracket. Can be mounted on sections with 10mm slot EV1050.

| Description | Code | Package/ No. of pieces |
|-------------------------------------------------|--------|---------------------------|
| No. 10 cable clamping brackets Ø9÷16mm min÷max | EV1090 | 1/10 |
| No. 10 cable clamping brackets Ø16÷30mm min÷max | EV1091 | 1/10 |
| No. 5 cable clamping brackets Ø30÷48mm min÷max | EV1092 | 1/5 |
| No. 5 cable clamping brackets Ø48÷72mm min÷max | EV1093 | 1/5 |



Rail for anchoring cables


| Description | Dimensions (mm) L | Code | Package/ No. of pieces |
|---------------------------|-------------------|--------|---------------------------|
| Rail for anchoring cables | 600 | EV0070 | 1/1 |
| Rail for anchoring cables | 800 | EV0071 | 1/1 |




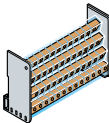
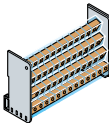
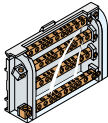

Angled supports for terminal boxes and earthing busbars

| Description | Code | Package/ No. of pieces |
|--------------------------------------------------|--------|---------------------------|
| No.50 angled supports 1 row of terminals | EV1110 | 1/50 |
| No.10 angled supports 1 row of terminals | EV2110 | 1/10 |
| No.2 angled supports 1 row of terminals + earth | EV1113 | 1/2 |
| No.50 angled supports 1 row of terminals + earth | EV1112 | 1/50 |
| No.10 angled supports 1 row of terminals + earth | EV2112 | 1/10 |
| No.10 angled supports double row of terminals | EV1111 | 1/10 |

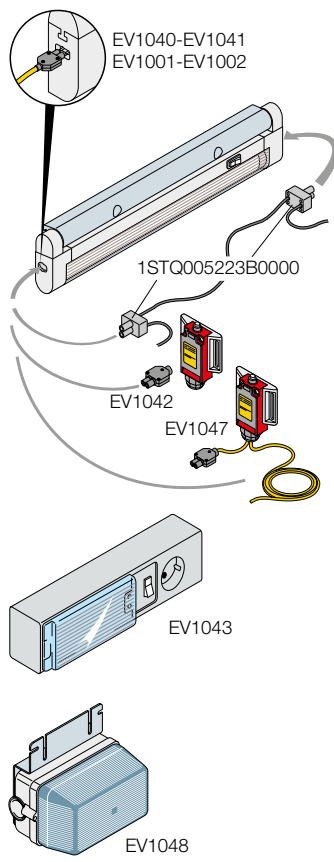
Modular dividers

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Single-pole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div>Mark</div> <div><div>CE</div><div>IEC</div><div>RoHS</div><div>UL</div><div>CSA</div><div>EAC</div></div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div>Code</div> <div>1SNL312510R0000*1SNL316010R0000*1SNL317510R00001SNL325010R00001SNL340010R0000</div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Main technical data | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table><tr><td>Connecting capacity</td><td>IEC</td><td>UL</td><td>IEC</td><td>UL</td><td>IEC</td><td>UL</td><td>IEC</td><td>UL</td><td>IEC</td><td>UL</td></tr><tr><td>Max current / Copper</td><td>125A/35mm²</td><td>115A/2AWG</td><td>160A/70mm²</td><td>160A/2/0AWG</td><td>175A/70mm²</td><td>175A/2/0AWG</td><td>250A/120mm²</td><td>255A/250Kcmil</td><td>400A/185mm²</td><td>335A/400Kcmil</td></tr><tr><td>Max cross section Aluminium</td><td>100A/35mm²</td><td></td><td>135A/70mm²</td><td></td><td>135A/70mm²</td><td></td><td>200A/120mm²</td><td></td><td>300A/185mm²</td><td></td></tr><tr><td>Rated voltage</td><td>1000VAC/ 1500VDC</td><td>1000V</td><td>1000VAC/ 1500VDC</td><td>1000V</td><td>1000VAC/ 1500VDC</td><td>1000V</td><td>1000VAC/ 1500VDC</td><td>1000V</td><td>1000VAC/ 1500VDC</td><td>1000V</td></tr></table> | | | | | | | | | | | | Connecting capacity | IEC | UL | IEC | UL | IEC | UL | IEC | UL | IEC | UL | Max current / Copper | 125A/35mm² | 115A/2AWG | 160A/70mm² | 160A/2/0AWG | 175A/70mm² | 175A/2/0AWG | 250A/120mm² | 255A/250Kcmil | 400A/185mm² | 335A/400Kcmil | Max cross section Aluminium | 100A/35mm² | | 135A/70mm² | | 135A/70mm² | | 200A/120mm² | | 300A/185mm² | | Rated voltage | 1000VAC/ 1500VDC | 1000V | 1000VAC/ 1500VDC | 1000V | 1000VAC/ 1500VDC | 1000V | 1000VAC/ 1500VDC | 1000V | 1000VAC/ 1500VDC | 1000V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connecting capacity | IEC | UL | IEC | UL | IEC | UL | IEC | UL | IEC | UL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max current / Copper | 125A/35mm² | 115A/2AWG | 160A/70mm² | 160A/2/0AWG | 175A/70mm² | 175A/2/0AWG | 250A/120mm² | 255A/250Kcmil | 400A/185mm² | 335A/400Kcmil | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max cross section Aluminium | 100A/35mm² | | 135A/70mm² | | 135A/70mm² | | 200A/120mm² | | 300A/185mm² | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rated voltage | 1000VAC/ 1500VDC | 1000V | 1000VAC/ 1500VDC | 1000V | 1000VAC/ 1500VDC | 1000V | 1000VAC/ 1500VDC | 1000V | 1000VAC/ 1500VDC | 1000V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rated impulse voltage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table><tr><td>Short-time withstand current (I_{cw} 1s)</td><td colspan="2">4000A</td><td colspan="2">11000A</td><td colspan="2">11000A</td><td colspan="2">21000A</td><td colspan="2">21000A</td></tr><tr><td>Short Circuit Current Rating (SCCR)</td><td colspan="2">100kA</td><td colspan="2">100kA</td><td colspan="2">100kA</td><td colspan="2">100kA</td><td colspan="2">100kA</td></tr><tr><td>Rated peak withstand current (I_{pk})</td><td colspan="2">30kA</td><td colspan="2">30kA</td><td colspan="2">30kA</td><td colspan="2">51kA</td><td colspan="2">51kA</td></tr><tr><td>Protection</td><td colspan="2">IP20NEMA1</td><td colspan="2">IP10NEMA1</td><td colspan="2">IP10NEMA1</td><td colspan="2">IP10NEMA1</td><td colspan="2">IP10NEMA1</td></tr></table> | | | | | | | | | | | | Short-time withstand current (I _{cw} 1s) | 4000A | | 11000A | | 11000A | | 21000A | | 21000A | | Short Circuit Current Rating (SCCR) | 100kA | | 100kA | | 100kA | | 100kA | | 100kA | | Rated peak withstand current (I _{pk}) | 30kA | | 30kA | | 30kA | | 51kA | | 51kA | | Protection | IP20NEMA1 | | IP10NEMA1 | | IP10NEMA1 | | IP10NEMA1 | | IP10NEMA1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Short-time withstand current (I _{cw} 1s) | 4000A | | 11000A | | 11000A | | 21000A | | 21000A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Short Circuit Current Rating (SCCR) | 100kA | | 100kA | | 100kA | | 100kA | | 100kA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rated peak withstand current (I _{pk}) | 30kA | | 30kA | | 30kA | | 51kA | | 51kA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Protection | IP20NEMA1 | | IP10NEMA1 | | IP10NEMA1 | | IP10NEMA1 | | IP10NEMA1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table><tr><td>Connection type/ Cross section</td><td colspan="2">Connection type (mm)Cross section (mm²)</td><td colspan="2">Connection type (mm)Cross section (mm²)</td><td colspan="2">Connection type (mm)Cross section (mm²)</td><td colspan="2">Connection type (mm)Cross section (mm²)</td><td colspan="2">Connection type (mm)Cross section (mm²)</td></tr><tr><td></td><td>1xØ9.8</td><td>10...35 8...2AWG</td><td>10...35 8...2AWG</td><td>1xØ11.8</td><td>16...50 8...1/0AWG</td><td>16...70 6...2/0AWG</td><td>2xØ11.8</td><td>10...50 8...1/0AWG</td><td>10...70 6...2/0AWG</td><td>1xØ15.3</td><td>35...95 2...3/0AWG</td><td>35...120 2...250Kcmil</td><td>1xØ18.8</td><td>95...150 3/0...300Kcmil</td><td>95...185 3/0...400Kcmil</td></tr><tr><td></td><td>1xØ6.8</td><td>2.5...16 14...6AWG</td><td>6...16 10...6AWG</td><td>1xØ6.8</td><td>2.5...16 14...6AWG</td><td>6...16 10...6AWG</td><td>10xØ6.4</td><td>2.5...16 14...6AWG</td><td>2.5...16 14...6AWG</td><td>2xØ8.7</td><td>2.5...25 14...4AWG</td><td>2.5...35 14...2AWG</td><td>2xØ8.7</td><td>2.5...25 14...4AWG</td><td>2.5...35 14...2AWG</td></tr><tr><td></td><td>6xØ6.4</td><td>2.5...16 14...6AWG</td><td>2.5...16 14...6AWG</td><td>6xØ6.4</td><td>2.5...16 14...6AWG</td><td>2.5...16 14...6AWG</td><td></td><td></td><td></td><td>5xØ6.4</td><td>2.5...16 14...6AWG</td><td>2.5...16 14...6AWG</td><td>5xØ6.4</td><td>2.5...16 14...6AWG</td><td>2.5...16 14...6AWG</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>4xØ5.7</td><td>2.5...10 14...8AWG</td><td>2.5...10 14...8AWG</td><td>4xØ5.7</td><td>2.5...10 14...8AWG</td><td>2.5...10 14...8AWG</td></tr></table> | | | | | | | | | | | | Connection type/ Cross section | Connection type (mm)Cross section (mm²) | | Connection type (mm)Cross section (mm²) | | Connection type (mm)Cross section (mm²) | | Connection type (mm)Cross section (mm²) | | Connection type (mm)Cross section (mm²) | | | 1xØ9.8 | 10...35 8...2AWG | 10...35 8...2AWG | 1xØ11.8 | 16...50 8...1/0AWG | 16...70 6...2/0AWG | 2xØ11.8 | 10...50 8...1/0AWG | 10...70 6...2/0AWG | 1xØ15.3 | 35...95 2...3/0AWG | 35...120 2...250Kcmil | 1xØ18.8 | 95...150 3/0...300Kcmil | 95...185 3/0...400Kcmil | | 1xØ6.8 | 2.5...16 14...6AWG | 6...16 10...6AWG | 1xØ6.8 | 2.5...16 14...6AWG | 6...16 10...6AWG | 10xØ6.4 | 2.5...16 14...6AWG | 2.5...16 14...6AWG | 2xØ8.7 | 2.5...25 14...4AWG | 2.5...35 14...2AWG | 2xØ8.7 | 2.5...25 14...4AWG | 2.5...35 14...2AWG | | 6xØ6.4 | 2.5...16 14...6AWG | 2.5...16 14...6AWG | 6xØ6.4 | 2.5...16 14...6AWG | 2.5...16 14...6AWG | | | | 5xØ6.4 | 2.5...16 14...6AWG | 2.5...16 14...6AWG | 5xØ6.4 | 2.5...16 14...6AWG | 2.5...16 14...6AWG | | | | | | | | | | | 4xØ5.7 | 2.5...10 14...8AWG | 2.5...10 14...8AWG | 4xØ5.7 | 2.5...10 14...8AWG | 2.5...10 14...8AWG |
| Connection type/ Cross section | Connection type (mm)Cross section (mm²) | | Connection type (mm)Cross section (mm²) | | Connection type (mm)Cross section (mm²) | | Connection type (mm)Cross section (mm²) | | Connection type (mm)Cross section (mm²) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1xØ9.8 | 10...35 8...2AWG | 10...35 8...2AWG | 1xØ11.8 | 16...50 8...1/0AWG | 16...70 6...2/0AWG | 2xØ11.8 | 10...50 8...1/0AWG | 10...70 6...2/0AWG | 1xØ15.3 | 35...95 2...3/0AWG | 35...120 2...250Kcmil | 1xØ18.8 | 95...150 3/0...300Kcmil | 95...185 3/0...400Kcmil | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1xØ6.8 | 2.5...16 14...6AWG | 6...16 10...6AWG | 1xØ6.8 | 2.5...16 14...6AWG | 6...16 10...6AWG | 10xØ6.4 | 2.5...16 14...6AWG | 2.5...16 14...6AWG | 2xØ8.7 | 2.5...25 14...4AWG | 2.5...35 14...2AWG | 2xØ8.7 | 2.5...25 14...4AWG | 2.5...35 14...2AWG | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 6xØ6.4 | 2.5...16 14...6AWG | 2.5...16 14...6AWG | 6xØ6.4 | 2.5...16 14...6AWG | 2.5...16 14...6AWG | | | | 5xØ6.4 | 2.5...16 14...6AWG | 2.5...16 14...6AWG | 5xØ6.4 | 2.5...16 14...6AWG | 2.5...16 14...6AWG | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | 4xØ5.7 | 2.5...10 14...8AWG | 2.5...10 14...8AWG | 4xØ5.7 | 2.5...10 14...8AWG | 2.5...10 14...8AWG | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* For three poles version, order 3 pcs. of 1SNL.... code. For further data, please see Technical catalogue Nr. 1SNC166001B0202

| | | | | | | | | | |
|--------------------------------------|-------|-------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|--|
| Four-poles | |  | |  | |  | |  | |
| Mark | |  | | | | | | | |
| Code | | AD1004 | | AD1028 | | AD1029 | | AD1027 | |
| In | (A) | 125 | | 125 | | 125 | | 160 | |
| I _{cw} | (kA) | 10 | | 4.2 | | 4.2 | | 6.2 | |
| I _{pk} | (kA) | 24 | | 25 | | 25 | | 20 | |
| Version | poles | 4.2 | | 4 | | 4 | | 4 | |
| Installation | | DIN35/plate | | DIN35/plate | | DIN35/plate | | DIN35 | |
| Power supplye Ø cable (mm²) | min. | 6 | | 6 | | 6 | | 10 | |
| | max | 35 | | 25 with cable terminal | | 25 with cable terminal | | 50 | |
| No.outgoing feeder (mm²) Ø cable | | With cable lugs | | Rigid cable | | Rigid cable | | Rigid cable | |
| | | 5L, 4Nx1,5-6mm² | | 7x1,5-10mm² | | 9x1,5-10mm² | | 8x2,25-25mm² | |
| | | 2L, 6Nx4-10mm² | | 2x6-25mm² | | 2x1,5-16mm² | | 1x10-50mm² | |
| | | 1L, 1Nx6-25mm² | | With cable lugs | | 2x6-25mm² | | 3x16-35mm² | |
| | | Without cable lugs | | 7x1,5-10mm² | | With cable lugs | | With cable lugs | |
| | | 5L, 4Nx1,5-6mm² | | 2x6-16mm² | | 2x1,5-6mm² | | 8x2,5-16mm² | |
| | | 2L, 6Nx4-10mm² | | Without cable lugs | | 9x1,5-10mm² | | 3x6-25mm² | |
| | | 1L, 1Nx6-35mm² | | 7x2,5-16mm² | | 2x6-16mm² | | 1x10-35mm² | |
| | | | | 2x6-35mm² | | Without cable lugs | | Without cable lugs | |
| | | | | | | 11x2,5-16mm² | | 8x6-16mm² | |
| | | | | 2x6-35mm2 | | 3x6-25mm² | | | |
| | | | | | | 1x10-35mm² | | | |
| Dimensions HxWxD | (mm) | 74.5x98x45 | | 93x89x48 | | 96x126x48 | | 90x160.5x50 | |
| No. DIN modules | | 5,5 | | 5 | | 7 | | 9 | |
| Rated service voltage U _e | (V) | 1000 Vac 1500 Vdc | | 440 | | 440 | | 440 | |
| Degree of protection | IP | 20 | | 20 | | 20 | | 20 | |

> Quick selection table page 5/12 > In-depth technical information page 7/1 > Overall dimensions page 8/1



Lighting and signalling devices

Led electronic lamp/fluorescent lamps

The electronic led lamps 3.6 W and 6.5 W and fluorescent lamps 8 W and 13 W are complete with mounting brackets and can be integrated with devices for voltage indicator.

The lamps have the following characteristics:

- Rotatable 180 degrees on the axis of the aluminum bracket
 - Possibility of being mounted in series up to 5 elements (Fig. 1), the chain of lamps can be controlled by a single micro switch simplifying the installation and reducing the number of cables for connecting of the elements.
- Moreover, the conformation of the electronic led lamps provides a very wide light emission and an increase of 70% compared to traditional lamps. So a lamp 8W is comparable with a 14W, and 13W with a version from 18/21W.

| Description | Code | | Package/ No. of pieces |
|----------------------------------------------------------------------------|--------|--|---------------------------|
| Led electronic lamp* | | | |
| Led electronic lamp 3,6W-24V AC/DC L=342mm | EV1001 | | 1/1 |
| Led electronic lamp 6,5W-24V AC/DC L=574mm | EV1002 | | 1/1 |
| Fluorescent lamps | | | |
| Fluorescent lamp 8W-220/240V L=342mm | EV1040 | | 1/1 |
| Fluorescent lamp 13W-220/240V L=574mm | EV1041 | | 1/1 |
| Fluorescent lamp + socket 11W-230V L=355mm, complete with magnetic support | EV1043 | | 1/1 |
| Lamp holder | | | |
| Lamp holder E27 220V max 60W (without lamp) | EV1048 | | 1/1 |

* Led lamps can be fixed both with metal bracket or magnets.

Accessories for lamps

| Description | Code | | Package/ No. of pieces |
|---------------------------------------------------------------------------------|-----------------|--|---------------------------|
| System for positioning limit switch + connector (to be cabled) No.2 NC contacts | EV1042 | | 1/1 |
| No.5 universal bipolar power connectors | 1STQ005223B0000 | | 1/5 |
| Two-pole cable L=10 metres | EV1045 | | 1/1 |
| Limit switch and cabled two-pole connector | EV1047* | | 1/1 |

* There are two cables L=1900mm and L=380mm in the pack.

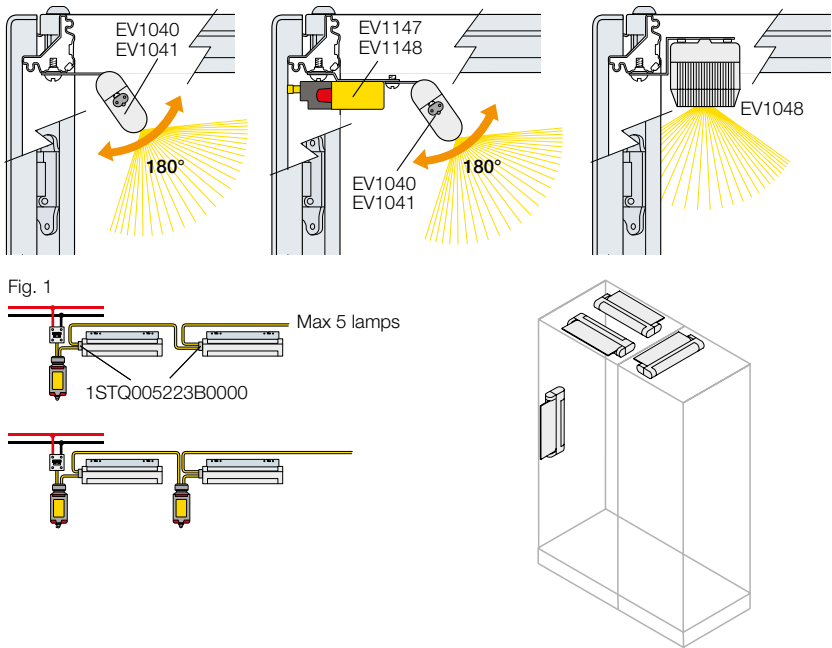
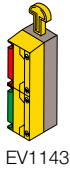
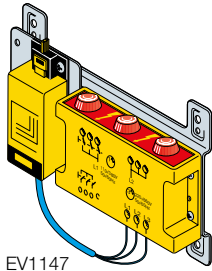
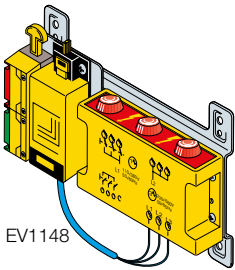


Fig. 1

Lighting and signalling devices

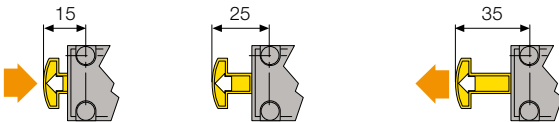
Voltage detector device



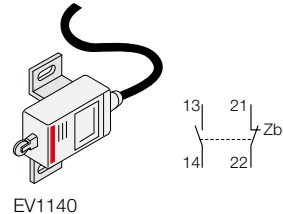
Allows the passive safety level to be increased inside the electric enclosure, flashing when the door is opened. The basic version consists of a three-phase flashing light, three-pole limit switch and fixing bracket. Compared to the basic version, the one with an auxiliary circuit is completed with a mechanical interlock which activates the electric contacts to control the auxiliary circuits. The interlock is always fitted with a NC contact code EV1144 (NO installed with door closed) which allows supply of a current launching coil. A NC contact EV1144 can be added (NO installed with door closed) to allow opening of an undervoltage coil. It is also possible to supply circuits relative to internal lighting and/or to turn off fans/air conditioners using other contacts (2 NC EV1144, NO installed with door closed). Order the fixing screws W=46mm code EV1146 separately for any additional contact. NO contact EV1145 (NC installed with door closed) is also available. Possibility of exclusion during the testing stage with relative automatic recover when the door has been closed. In compliance with EN60947- 5-1 Standards, UL approved, operating temperature from -25 °C to +65 °C. Flashing: terminal capacity max. 3mm², Ue/Ie auxiliary contact capacity: 110V/6A, 230V/3A, 400V/2A, 600V/1.2A. Rated thermal current Ith: 10 A Max. terminal capacity: 2x1.5mm² / 1x3mm² Flashing signalling device:

- Single phase 110-400V DC/AC 50/60Hz power supply voltage
- Three-phase AC 220-690V 50/60Hz

| Description | Ue (V) | Ui (V) | | Code | Package/ No. of pieces |
|----------------------------------------------------|---------|--------|--|--------|------------------------|
| Voltage detector device | 380/600 | 690 | | EV1147 | 1/1 |
| Voltage detector device + interlock + 1 NC contact | 380/600 | 690 | | EV1148 | 1/1 |
| Interlock + 1 NC contact | | | | EV1143 | 1/1 |
| 1 NC contact | | | | EV1144 | 1/1 |
| 1 NO contact | | | | EV1145 | 1/1 |
| Screw L=46mm x 2 contacts | | | | EV1146 | 1/1 |



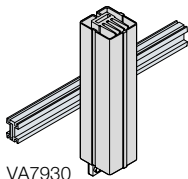
| | Code | Closed door | Open door | Open door By pass |
|----------------------|--------|-------------|-----------|-------------------|
| Position of contacts | EV1144 | | | |
| | EV1145 | | | |



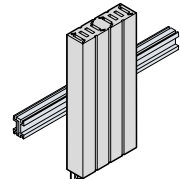
Position switch

Conforming to the EN50047 Standard, IP65 degree of protection, UL/CSA approved, can be assembled in all the positions directly on the enclosure structure by means of the accessory supplied. Technical data: Ui=500V Dimensions: 84x30x30mm. Aux. contact In =3A at 230V≈ or 1.8A at 400V≈ (in AC-15 EN 60947-5-1).

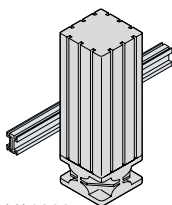
| Description | | Code | Package/ No. of pieces |
|----------------------|--|--------|------------------------|
| Door position device | | EV1140 | 1/1 |



VA7930
VA7950
VA7975
VA7910



VA7915



VA8300

Temperature management

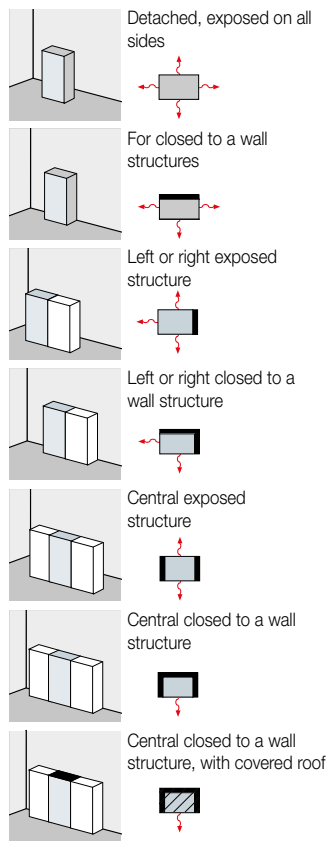
Heater for IP20 electrical switchboards

Their use prevents condensation in the electric cabinets. They consist of a heating element (PTC thermistor) inserted in an aluminium alloy ground plate. The PTC thermistor is a component which modifies its impedance according to the operating temperature. It is intrinsically stable and ensures primary safety features for the heater and service stability. The main qualities of the heaters using PTC are:

- electrical absorption (or dissipated power) which is almost constant in the range of power supply voltage between 100 and 250V;
- electrical absorption bound by inverse law to the trend of the ambient temperature;
- natural or forced ventilator with incorporated ventilator;
- ambient thermostat integrated in the heater (versions with forced ventilation).

Snap-on assembly on 35 mm DIN rail. Requires a thermostat.

| Description | Dimensions (mm) | | | Weight (kg) | Inrush current (A) | Fuse/ MCB (A) | Code | | Package/ No. of pieces |
|------------------------------------------------------------|-----------------|----|----|-------------|--------------------|---------------|--------|--|------------------------|
| | H | W | D | | | | | | |
| Anti-condensation heater 30W, 110-240 Vac-dc | 125 | 42 | 42 | 0,30 | 1.0-1.5 | 2 / C6 | VA7930 | | 1/1 |
| Anti-condensation heater 50W, 110-240 Vac-dc | 150 | 42 | 42 | 0,40 | 1.0-1.5 | 2 / C6 | VA7950 | | 1/1 |
| Anti-condensation heater 75W, 110-240 Vac-dc | 150 | 42 | 42 | 0,40 | 2.0-2.5 | 2 / C6 | VA7975 | | 1/1 |
| Anti-condensation heater 100W, 110-240 Vac-dc | 150 | 42 | 51 | 0,45 | 2.0-3.0 | 2 / C6 | VA7910 | | 1/1 |
| Anti-condensation heater 150W, 110-240 Vac-dc | 150 | 82 | 51 | 0,55 | 5.0-6.0 | 4 / C10 | VA7915 | | 1/1 |
| Anti-condensation heater with fan 300W, 110-240 Vac 50-60H | 125 | 80 | 91 | 0,75 | 8.0-10 | 4 / C10 | VA8300 | | 1/1 |



All the heaters with PTC absorb a higher power than the rated one on inrush according to a transitory which lasts a few tenths of a second.

If the heaters are to be supplied by means of an auxiliary transformer, its apparent power must be sized taking 1.5 times the rated power of the heaters with natural aeration and twice those with forced ventilation into consideration.

IEC 890 method for calculating the effective cooling surface (CEI 17-43 method)

The total power dissipation P of an enclosure is linked to the exchange effective dissipating surface S, the ΔT difference between the inner and outer temperature and the k coefficient of heat exchange relative to the material of the enclosure:

$$P = k \cdot \Delta T \cdot S$$

$$k = 5,5 \text{ for painted steel}$$

$$\Delta T = T_1 - T_2$$

T1 = dew point temperature (on overage 25°C)

T2 = minimum ambient temperature

The exchange surface S can be calculated using the following table taken from the CEI 17-43.

| Disposition of the cabinet | Calculating the enclosure surface S (mm ²) | Dimensions (m) |
|-------------------------------------------------------|------------------------------------------------------------------|--------------------------------------|
| Detached, exposed on all sides | $S = 1,8 \times H \times (L+P) + 1,4 \times L \times P$ | L = width H = height P = depth |
| For closed to a wall structures | $S = 1,4 \times L \times (H+P) + 1,8 \times P \times H$ | |
| Left or right exposed structure | | |
| Left or right closed to a wall structure | $S = 1,4 \times H \times (P+L) + 1,4 \times L \times P$ | |
| Central exposed structure | $S = 1,8 \times L \times H + 1,4 \times L \times P + P \times H$ | |
| Central closed to a wall structure | $S = 1,4 \times L \times (H+P) + P \times H$ | |
| Central closed to a wall structure, with covered roof | $S = 1,4 \times L \times H + 0,7 \times L \times P + P \times H$ | |

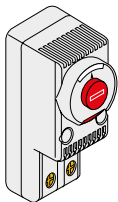
Using a ES1804K enclosure, in "for closed to a wall structures" case we will obtain:

$$T_1 = 25^\circ\text{C}, T_2 = 20^\circ\text{C}, K = 5,5, \Delta T = (25-20) = 5^\circ\text{C}, S = 4,4\text{m}^2$$

The total power dissipation P obtained will be:

$$P = k \cdot \Delta T \cdot S = 121\text{W}$$



The recommended heater is VA7915 (150W)



Temperature management

IP20 Thermostat

Conforms to EN 60730-1, CE and cURus standards, IP20 degree of protection. Grey RAL 7035 colour; electrical life 100,000 cycles. Dimensions (HxWxD) 68x29x45mm, can be mounted on DIN rail. The version with NO (normally open) contact allows closure of a circuit activating ventilation, air conditioning, or alarms. The version with NC (normally closed) contact allows opening of a circuit, disconnecting any anti-condensation resistances.

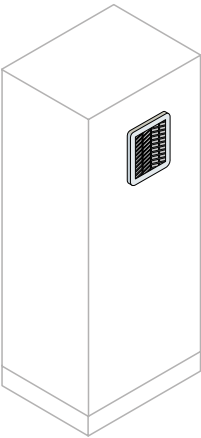
| Description | Standard power supply V~/50-60Hz | | Code | | Package/ No. of pieces |
|---------------------------|-------------------------------------|------------------------------------------------------------------------------------|---------|--|---------------------------|
| NO ventilation thermostat | 12-60 V d.c.; 110-250V a.c. |  | EN0101K | | 1/1 |
| NC heating thermostat | 12-60 V d.c.; 110-250V a.c. |  | EN0102K | | 1/1 |

| Code | Standard power supply V~/50-60Hz | Contact capacity Load Ω | Load L | Temperature scale | Type of contact | Weight |
|---------|-------------------------------------|----------------------------|--------|----------------------|-----------------|--------|
| EN0101K | 12-60 V d.c.; 110-250V a.c. | 10A | 2A | -10 +80 °C | NO | 54g |
| EN0102K | 12-60 V d.c.; 110-250V a.c. | 10A | 2A | -10 +80 °C | NC | 54g |

IS2 Enclosures

Ordering codes

5

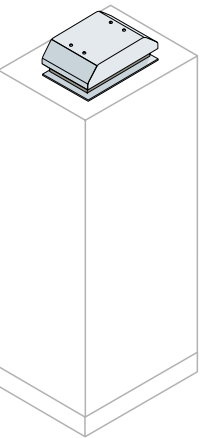


Temperature management

IP21/54 natural ventilation kit

Gratings made of insulating material (self-extinguishing ABS UL94V-0) RAL7035 colour, complete with high dust collection capacity filter cloth (600g/m²), able to reduce maintenance interventions (cleaning by means of washing in water or by beating). Degree of protection IP21 without filter, IP54 with filter according to IEC 60529, Type 1 without filter, Typer 12 with filter according to UL approval 508 fitted with pre-assembled gasket seal. CE and cURus approval.

| Description | Air entry surface for ventilation | | Dimensions (mm) | | Code | Package/No. of pieces |
|--------------------------------|-----------------------------------|-----------------------------|-----------------|-----|---------|-----------------------|
| | Without filter cm ² | With filter cm ² | W | W | | |
| Grille+air pas-sage filter kit | 27 | 6 | 105 | 105 | EN0105K | 1/1 |
| Grille+air pas-sage filter kit | 53 | 10 | 150 | 150 | EN0150K | 1/1 |
| Grille+air pas-sage filter kit | 121 | 22 | 204 | 204 | EN0204K | 1/1 |
| Grille+air pas-sage filter kit | 225 | 32 | 250 | 250 | EN0250K | 1/1 |
| Grille+air pas-sage filter kit | 317 | 55 | 325 | 325 | EN0325K | 1/1 |

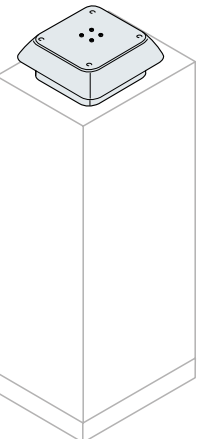


IP23 aeration hood

Structure made of steel painted RAL7035 colour, complete with selfadhesive gasket seal. Useful aeration section 128 cm².

| Description | Dimensions (mm) | | | Code | Custom Made Service | Package/No. of pieces |
|-------------------|-----------------|-----|-----|---------|---------------------|-----------------------|
| | W | W | D | | | |
| Roof aeration kit | 375 | 295 | 119 | EN0481K | | 1/2 |

■ The “Custom Made Service” is valid only for structures assembled at the factory, for more information please contact your local sales network.

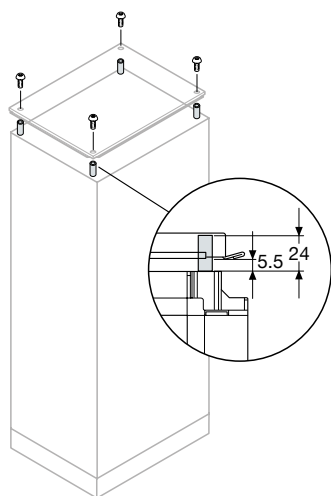


IP54 ventilation hood

Structure made up of plastic PC/ABS and aluminium (PC/ABS selfextinguishing according to UL 94V-0) painted RAL 7035 with polyuretanic foam gasket. CE and cURus approval.

| Description | Dimensions (mm) | | | Code | Custom Made Service | Package/No. of pieces |
|-------------------|-----------------|-----|----|---------|---------------------|-----------------------|
| | W | W | D | | | |
| Roof aeration kit | 324 | 324 | 94 | EN0483K | | 1/1 |

■ The “Custom Made Service” is valid only for structures assembled at the factory, for more information please contact your local sales network.

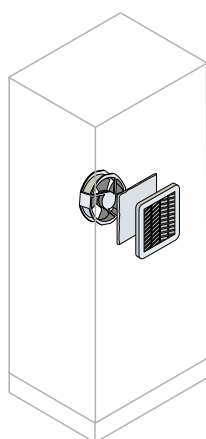


Temperature management

IP20 natural aeration Kit









Allows the roof of the cabinet to be raised, increasing natural ventilation, keeping the IP20 degree of protection. This Kit must not be mounted when the lifting eyebolts are mounted for handling the enclosure.

| Description | Code | | | Package/ No. of pieces |
|--------------------------|--------|--|--|---------------------------|
| Roof aeration Kit (IP20) | AE1015 | | | 1/1 |



IP54 forced ventilation Kit

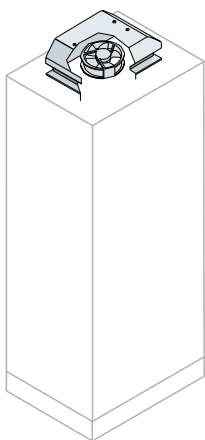
Grilles made of insulating material (ABS self-extinguishing UL94V-0) RAL7035 colour, complete with filter cloth with high dust accumulation capacity (600g/m²), able to reduce maintenance interventions (cleaning by washing with water or beating). IP54 degree of protection with filter according to UL approval 508 fitted with pre-mounted tightness gasket. Operating temperature -10 °C + 50 °C, for noise values see page 7/50. The fans allow reversible flow of air. CE and cURus (see mark) approval.

| Description | Consumption 50/60Hz (W) | Capacity 50/60Hz (m³/h) | Dimensions (mm) | | | Code | | | Package/ No. of pieces |
|-----------------------|----------------------------|----------------------------|--------------------|-----|---------------------------------------------------------------------------------------|---------|--|--|---------------------------|
| | | | W | W | | | | | |
| With IP54 230V ~ fan | | | | | | | | | |
| Ventilation filter | 10/8 | 23/30 | 105 | 105 |  | EN1105K | | | 1/1 |
| Ventilation filter | 20/19 | 57/61 | 150 | 150 |  | EN1150K | | | 1/1 |
| Ventilation filter | 17/15 | 120/135 | 204 | 204 |  | EN1204K | | | 1/1 |
| Ventilation filter | 29/29 | 240/270 | 250 | 250 |  | EN1250K | | | 1/1 |
| Ventilation filter | 67/87 | 520/580 | 325 | 325 | | EN2325K | | | 1/1 |
| With IP 54 1150V~ fan | | | | | | | | | |
| Ventilation filter | 9/7 | 23/30 | 105 | 105 |  | EN2105K | | | 1/1 |
| Ventilation filter | 20/18 | 57/61 | 150 | 150 |  | EN2150K | | | 1/1 |
| Ventilation filter | 17/15 | 120/135 | 200 | 200 |  | EN2204K | | | 1/1 |
| Ventilation filter | 30/30 | 240/270 | 250 | 250 |  | EN2250K | | | 1/1 |
| Ventilation filter | 50/64 | 520/580 | 325 | 325 | | EN3325K | | | 1/1 |

In any forced ventilation kit, the fan wheel is balanced. In the larger sizes (cod. EN2325K and cod. EN3325K) there is the balancing clip. The balanced fan wheel ensures less noise and absorption.

IS2 Enclosures

Ordering codes



Temperature management

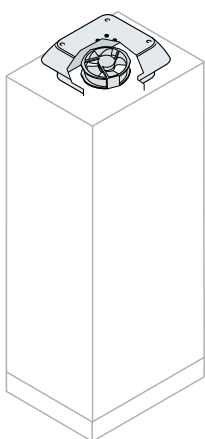
IP23 forced ventilation hood

Allows suction from the roof of the cabinet. RAL 7035 colour, complete with self-adhesive gasket; consumption 58/78W, capacity 550/590m³/h. Operating temperature from -20 °C to + 60 °C, noise 68/71dB(A).

| Description | Dimensions (mm) | | | Code | Custom Made Service | | | Package/ No. of pieces |
|----------------------------------|-----------------|-----|-----|---------|---------------------|--|--|------------------------|
| | W | W | D | | | | | |
| Ventilation hoods 230V - 50/60Hz | 375 | 295 | 119 | EN0480K | ■ | | | 1/1 |
| Ventilation hoods 115V - 50/60Hz | 375 | 295 | 119 | EN0482K | ■ | | | 1/1 |

■ The "Custom Made Service" is valid only for structures assembled at the factory, for more information please contact your local sales network.

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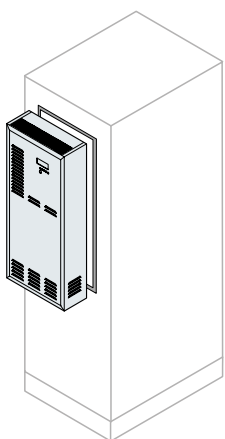


IP54 Forced ventilation hood

This hood allows the aspiration of the heat from the roof of the cabinet. Structure made up of plastic PC/ABS (PC/ABS self-extinguishing according to UL 9V-0), with the top part in aluminium, painted RAL 7035 with polyurethane foam gasket. CE omologation.

| Description | Dimensions (mm) | | | Code | | | Package/ No. of pieces |
|--------------------------------------|-----------------|-----|----|---------|--|--|------------------------|
| | W | W | D | | | | |
| Cappa di ventilazione 115V - 50/60Hz | 324 | 324 | 94 | EN0484K | | | 1/1 |
| Cappa di ventilazione 230V - 50/60Hz | 324 | 324 | 94 | EN0485K | | | 1/1 |

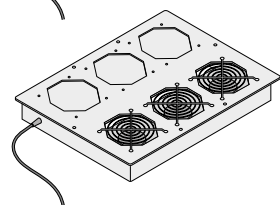
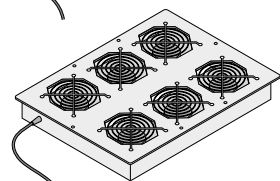
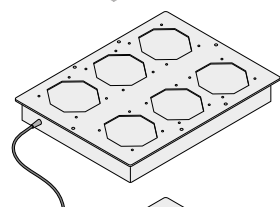
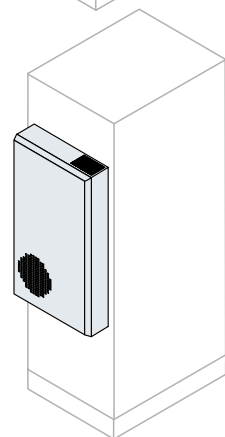
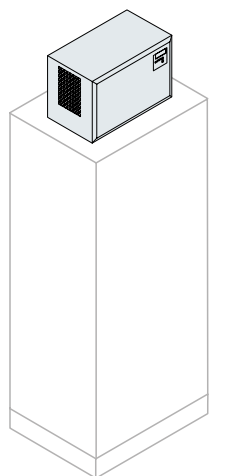
■ The "Custom Made Service" is valid only for structures assembled at the factory, for more information please contact your local sales network.



IP54 air conditioners for wall mounting

| Dimensions (mm) | | | Refrigerating yield (W) | Capacity (m³/h) | | Assorbed power (W) | Code | | Package/ No. of pieces |
|--------------------------------------------------|-----|-----|----------------------------|-----------------|----------|--------------------------|---------|--|---------------------------|
| H | W | D | | Evaporat. | Condens. | | | | |
| Wall mounting - Power supply 230V AC | | | | | | | | | |
| 1025 | 380 | 198 | 605 | 380 | 400 | 330 | VZ1550K | | 1/1 |
| 1025 | 380 | 198 | 810 | 350 | 400 | 400 | VZ1850K | | 1/1 |
| Wall mounting+switchboard - Power supply 230V AC | | | | | | | | | |
| 1025 | 380 | 198 | 1300 | 350 | 600 | 650 | VZ1400K | | 1/1 |
| 1200 | 380 | 230 | 1926 | 500 | 950 | 800 | VZ2000K | | 1/1 |

The filters are not included.



Temperature management

IP54 air conditioners for roof mounting

| Dimensions (mm) | | | Refrigerating yield (W) | Capacity (m³/h) | | Code | | | Package/ No. of pieces |
|-------------------------------------------------|-----|-----|----------------------------|-----------------|-----------|---------|--|--|---------------------------|
| H | W | D | | | Evaporat. | | | | |
| Roof mounting- Power supply 230V AC | | | | | | | | | |
| 350 | 600 | 400 | 810 | 350 | 400 | VZ8501K | | | 1/1 |
| Roof mounting+switchboard- Power supply 230V AC | | | | | | | | | |
| 350 | 600 | 400 | 1300 | 350 | 600 | VZ1401K | | | 1/1 |

* Not suitable for enclosure W=600 mm
Filters are not included.

IP54 heat exchangers (air-air) for wall mounting

| Dimensions (mm) | | | Refrigerating yield (W) | Capacity (m³/h) External | Code | | Package/ No. of pieces |
|-------------------------------------|-----|-----|----------------------------|-----------------------------|---------|--|---------------------------|
| H | W | D | | | | | |
| Wall mounting- Power supply 230V AC | | | | | | | |
| 710 | 370 | 130 | 35 | 200 | VS4235K | | 1/1 |
| 900 | 435 | 175 | 85 | 300 | VS6285K | | 1/1 |

Ventilation roof module

The ventilation roof module is composed of a galvanized steel sheet base 2,00mm and a steel painted cover RAL7035, that hosts the fans.

There are two available products:

Empty ventilation module, that has a pre-cut in order to accommodate the fans

Ventilation module with 3 fans powered by 48V dc

Each figure has an internal pre-wired terminal block for wiring the fans and a power cord L=2.5 m. The increase of the air flow is possible through the addition of a ventilation kit (Code EV0061); each ventilation kit has the tools for the wiring and installation in the ventilation roof module.

| Description | Code | | | Package/ No. of pieces |
|---------------------------------------------|--------|--|--|---------------------------|
| Ventilation empty roof module | EV0058 | | | 1/1 |
| No.1 fan 230V a.c. 50/60 Hz wiring material | EV0061 | | | 1/1 |

Technical characteristics

EV0061

Standard power supply: 230V 50/60 Hz

Total power consumption: 15W

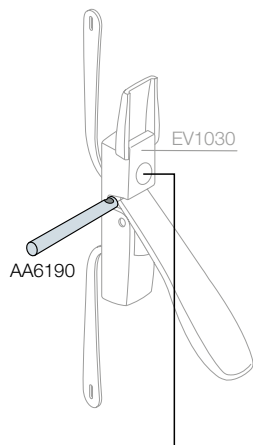
Capacity air of the fan: 150 m³/h

Noise: 37-41 dB (A)

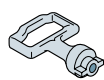
Drilling template 9/45.

IS2 Enclosures

Ordering codes



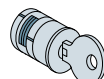
5



AD1058



AA6200
AA8004



PIRH0455
PIRH2432
PIRH1242
PIRH0405



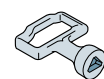
AA6160



AA1570



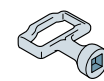
AA6120



AA1560



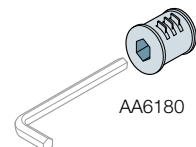
AA6140



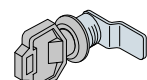
AA6141



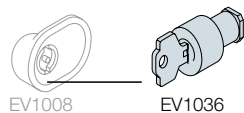
EV1039



AA6180



AA8003



EV1008

EV1036
EV1037

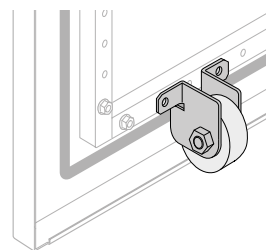
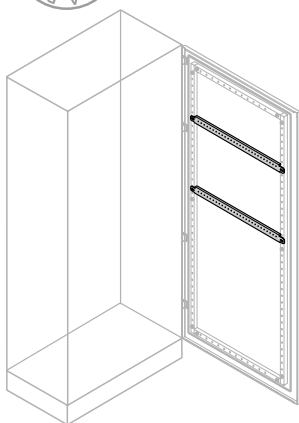
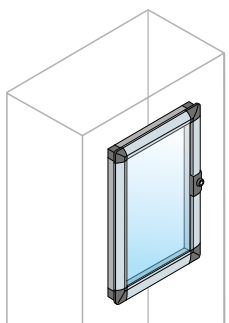
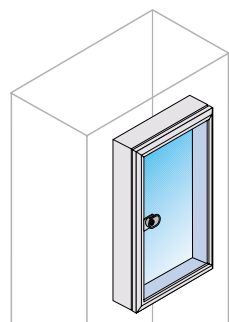
Accessories

Closing systems

Inserts interchangeable with the double tongue ones supplied as standard, complete with relative key.

| Description | Code | Custom Made Service | Package/ No. of pieces |
|----------------------------------------------------------------------------------------------|----------|---------------------|------------------------|
| Spare parts and accessoried for EV1030 handle | | | |
| No. 10 plastic covers for IS2 handle | EV0101 | | 1/1 |
| Handle complete with lock | EV1030 | | 1/1 |
| Zamak (Zn+Al+Mg) alloy key for double tongue insert, for external door, single door version | AD1058 | | 1/1 |
| Yale insert and key for external door, single door version | AA6200 | ■ | 1/1 |
| Ronis E739 insert and key for external door, single door version | AA8004 | ■ | 1/1 |
| Ronis insert 455 and key | PIRH0455 | | 1/1 |
| Ronis insert 2432E and key | PIRH2432 | | 1/1 |
| Ronis insert 1242E and key | PIRH1242 | | 1/1 |
| Ronis insert 405 and key | PIRH0405 | | 1/1 |
| FIST (FIAT) insert for external door, single door version | AA6160 | ■ | 1/1 |
| FIAT key for external door, single door version | AA1570 | | 1/1 |
| Triangular insert, 6.4 male on Ø7.6, for external door, single door version | AA6120 | ■ | 1/1 |
| Key for triangular insert for external door, single door version | AA1560 | | 1/1 |
| Square insert, 7 male, for external door, single door version | AA6140 | ■ | 1/1 |
| Key for square insert for external door, single door version | AA6141 | | 1/1 |
| Hexagonal insert, 8mm socket type; key not available; for external door, single door version | AA6180 | ■ | 1/1 |
| Double tongue insert without key for handle | EV1039 | | 1/1 |
| Accessory for handle locking with external padlock (not provided) | AA6190 | | 1/1 |
| Spare parts and accessoried for EV1008 box | | | |
| Box with double tongue insert made in plastic with key for inner door | EV1008 | | 1/1 |
| Single code Yale insert for inner door | EV1036 | | 1/1 |
| Ronis 455 insert for inner door | EV1037 | | 1/1 |
| Double tongue insert with plastic key for box | AA6100 | | 1/1 |

■ The "Custom Made Service" is valid only for structures assembled at the factory, for more information please contact your local sales network.



Accessories

IP20 and IP54 protective windows with glass with or without frame

Made of aluminium, complete with pre-assembled gasket and closure box with interchangeable double tongue key. Can hold components with 38 and 69mm depth. The dimension of the frame 30mm. 140° door opening.

| Dimensions (mm) | | | Code | | | Package/ No. of pieces |
|---------------------------------------|-----|----------|--------|--|--|---------------------------|
| H | W | Usable D | | | | |
| Protection windows IP20 with frame | | | | | | |
| 400 | 400 | 79 | EV1081 | | | 1/1 |
| 600 | 200 | 48 | EV1082 | | | 1/1 |
| 600 | 200 | 79 | EV1083 | | | 1/1 |
| 600 | 400 | 79 | EV1085 | | | 1/1 |
| 600 | 600 | 79 | EV1087 | | | 1/1 |
| Protection windows IP54 without frame | | | | | | |
| 400 | 400 | 26 | EV8880 | | | 1/1 |
| 600 | 600 | 26 | EV8881 | | | 1/1 |
| 600 | 400 | 26 | EV8882 | | | 1/1 |

Horizontal reinforcement profiles for door

Crosspieces made of galvanised sheet with 25 mm pitch drilling, allow accessories to be fixed inside the blind doors. They are fixed onto the door reinforcement tube.

| Description | Dimensions (mm) | | Code | Custom Made Service | | Package/ No. of pieces |
|---------------------------------|-----------------|---|--------|------------------------|--|---------------------------|
| | W | H | | | | |
| No.2 horizontal profiles H=35mm | 600 | | EB1041 | ■ | | 1/2 |
| No.2 horizontal profiles H=35mm | 800 | | EB1042 | ■ | | 1/2 |
| No.2 horizontal profiles H=35mm | 1000 | | EB1043 | ■ | | 1/2 |

■ The "Custom Made Service" is valid only for structures assembled at the factory, for more information please contact your local sales network.

Door supporting wheel

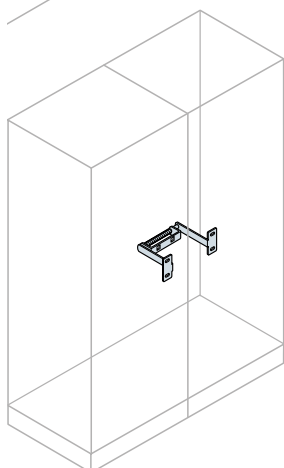
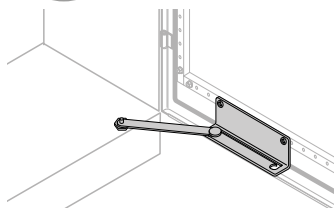
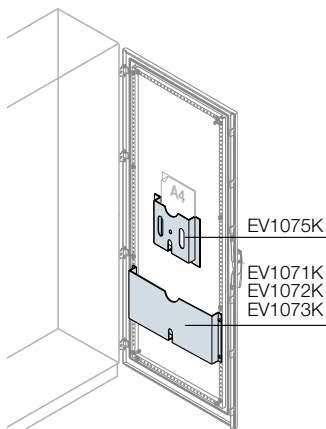
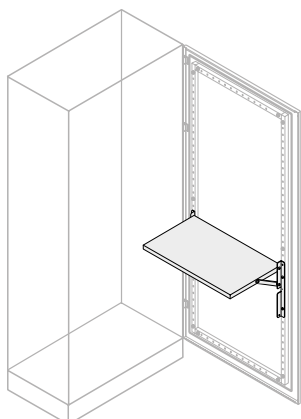
Use in case of heavy loads on blind doors (e.g. air conditioner).

| Description | Code | | | Package/ No. of pieces |
|-----------------------------------|--------|--|--|---------------------------|
| Supporting wheel for door W≥600mm | EV1000 | | | 1/1 |

IS2 Enclosures

Ordering codes

5



Accessories

Folding shelves for door

| Description | Dimensions (mm) | | Code | | Package/ No. of pieces |
|----------------------------------------|-----------------|--|---------|--|---------------------------|
| | W | | | | |
| Shelf 280x250mm (WxD) for door W=600mm | 600 | | EV1060K | | 1/1 |
| Shelf 480x250mm (WxD) for door W=800mm | 800 | | EV1061K | | 1/1 |

Document pockets RAL 7035

Fixed inside the door by means of adhesive parts in the case of the plastic version EV1075K, or directly by means of screws to the sections of the door for the metal versions. Both versions are RAL 7035 colour.

| Description | Dimensions (mm) | | Code | | Package/ No. of pieces |
|-----------------------------------------|-----------------|--|---------|--|---------------------------|
| | W | | | | |
| Metal document pocket for door W=600mm | 600 | | EV1071K | | 1/1 |
| Metal document pocket for door W=800mm | 800 | | EV1072K | | 1/1 |
| Metal document pocket for door W=1000mm | 1000 | | EV1073K | | 1/1 |
| Plastic document pocket for A4 | | | EV1075K | | 1/1 |

Door anti-closure and locking device

Device which can only be mounted in the versions with blind door; in the case of double door versions, two devices are needed. Keeps the door in the open position.

| Description | Code | Custom Made Service | | Package/ No. of pieces |
|--------------------------|--------|------------------------|--|---------------------------|
| Door anti-closure device | EV0005 | ■ | | 1/1 |

For blind doors W≥600mm. Cannot be mounted with glazed doors, with inner door and with modular panel installed in the last available position.

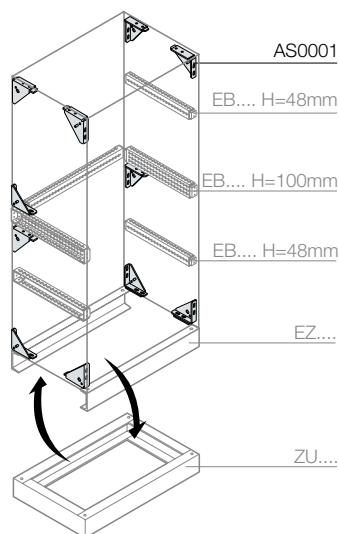
■ The “Custom Made Service” is valid only for structures assembled at the factory, for more information please contact your local sales network.

Door lock

In the case of several cabinets side by side, this prevents a door being opened before the adjacent door has been opened. It is therefore possible to bind opening the doors of an entire battery of cabinets side by side to opening of a single door. Can be mounted on doors with the same opening direction.

| Description | Code | Custom Made Service | | Package/ No. of pieces |
|-------------|--------|------------------------|--|---------------------------|
| Door lock | EV1160 | ■ | | 1/1 |

■ The “Custom Made Service” is valid only for structures assembled at the factory, for more information please contact your local sales network.



Accessories

KIT for seismic zone

Antiseismic tests

Tests constitute a reference base for similar structures for dimensions and for load. IS2 enclosures 2000x800x800mm (HxWxD) with uniform distributed load of 435 kg.

Enclosures have been tested according to the Standards CEI EN 60068-2-6 and IEC 60068-2-57 "Environmental testing Part. 2: Tests method. Vibration - Time history method" and to the Standard IEEE Std 693 "Recommended Practice for Seismic Design of Substation".

Similar application fields*

Enclosure without specific accessories

| According to the Standard IEC 60068-2-57 - IEEE Std 693 | Seismic Zone IEC 68-3-3 | Richter scale | Mercalli scale |
|------------------------------------------------------------|----------------------------|---------------|----------------|
| Shock level test up to 0.5 g | Zone 4 | 7 | 9 |

Enclosure with specific accessories AS0001+crosspieces+reinforced plinth

| According to the Standard IEC 60068-2-57 - IEEE Std 693 | Seismic Zone IEC 68-3-3 | Richter scale | Mercalli scale |
|------------------------------------------------------------|----------------------------|---------------|----------------|
| Shock level test up to 0.75 g | Zone 4 | 7,5 | 10 |

* Values of different scales are indicative.

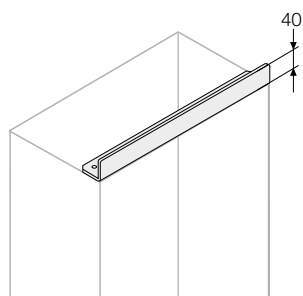
Codes of structures for seismic zone

Antiseismic kit is made of n.12 reinforced angles to be mounted on the side and in the corners of structure and in correspondence of the crosspieces... H=100mm to be ordered. Enclosure must be completed with other crosspieces EB....H=48mm and with the reinforced plinth or the single plinth.

| Description | Code | Package/ No. of pieces |
|------------------------------------------------------|---------|---------------------------|
| No.12 reinforced antiseismic angles | AS0001 | 1/12 |
| Crosspieces H=48mm (see pag. 5/65) C-shaped profile | EB.... | |
| Crosspieces H=100mm (see pag. 5/65) C-shaped profile | EB.... | |
| Reinforced plinth H=100mm (see pag. 5/57) | EZ.... | |
| Single plinth H=100mm (see pag. 5/58) | ZU....* | |

* Maximum length of 6m.

For single cabinet use reinforced plinth.



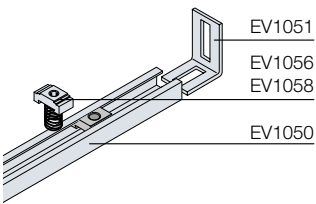
Dust guard trim in metal sheet 1,5mm RAL 7035

Dust guard trim avoids the deposit of dust on the upper edge of the door and between the door and the roof of the cabinet. On the dust guard trim is possible fix labels, buttons or lights.

| Description | Dimensions (mm) W | Code | Package/ No. of pieces |
|--------------------------------|----------------------|--------|---------------------------|
| Metal dust guard trim RAL 7035 | 600 | EV0063 | 1/1 |
| Metal dust guard trim RAL 7035 | 800 | EV0064 | 1/1 |

IS2 Enclosures

Ordering codes

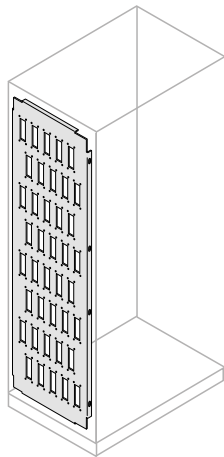


Accessories

Sliding aluminium rails for general purposes

| Description | Code | | | Package/ No. of pieces |
|------------------------------------------------|--------|--|--|---------------------------|
| No. 10 aluminium sections 30x15x1,8 - L=2000mm | EV1050 | | | 1/10 |
| No. 25 fixing brackets for EV1050 | EV1051 | | | 1/25 |
| No. 100 M6 aluminium nuts for EV1050 | EV1056 | | | 1/100 |
| No. 100 M8 aluminium nuts for EV1050 | EV1058 | | | 1/100 |

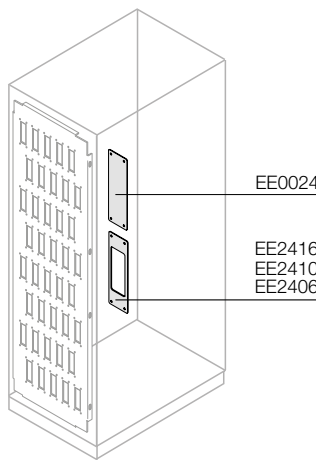
5



Connector holder panel

Panel made of 2,00mm thick galvanised steel sheet prepared with drillings for 24-pole connectors.

| Dimensions (mm) | | total No.holes | No.lines/holes | Code | | | Package/ No. of pieces |
|-----------------|-----|----------------|----------------|--------|--|--|---------------------------|
| H | D | | | | | | |
| 1800 | 500 | 36 holes | 9/4 | EE1852 | | | 1/1 |
| | 600 | 45 holes | 9/5 | EE1862 | | | 1/1 |
| 2000 | 500 | 40 holes | 10/4 | EE2052 | | | 1/1 |
| | 600 | 50 holes | 10/5 | EE2062 | | | 1/1 |
| 2200 | 500 | 48 holes | 12/4 | EE2252 | | | 1/1 |
| | 600 | 60 holes | 12/5 | EE2262 | | | 1/1 |



Connector plates

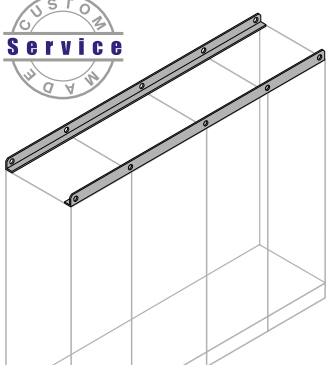
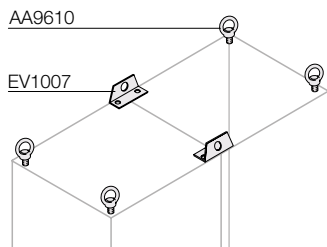
These allow closure of the unused holes on the connector holder panels.

| Description | Code | | | Package/ No. of pieces |
|---------------------------------------------------------|--------|--|--|---------------------------|
| No.10 24-pole connector closure plates | EE0024 | | | 1/10 |
| No.5 plates for reducing connectors from 24 to 16 poles | EE2416 | | | 1/5 |
| No.5 plates for reducing connectors from 24 to 10 poles | EE2410 | | | 1/5 |
| No.5 plates for reducing connectors from 24 to 6 poles | EE2406 | | | 1/5 |

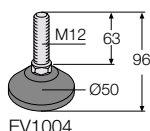
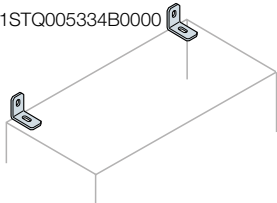


AA9610

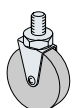
EV1007



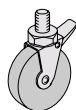
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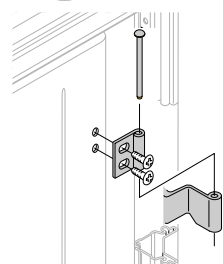
EV1004



EV1005



EV1006



Accessories

Lifting eyebolts and lifting reinforcements

These allow the cabled enclosures to be handled. The lifting eyebolts are made of steel treated with white passivated galvanisation, the lifting reinforcements are painted grey RAL 7012 colour.

| Description | Code | Custom Made Service | | Package/ No. of pieces |
|-----------------------------|--------|---------------------|--|------------------------|
| No.4 lifting eyebolts M12 | AA9610 | ■ | | 1/4 |
| No.2 lifting reinforcements | EV1007 | ■ | | 1/2 |

■ The "Custom Made Service" is valid only for structures assembled at the factory, for more information please contact your local sales network.

Lifting beams

The beam is prepared with holes for lifting tools. Length up to 6 metres. Grey RAL 7012 colour orange peel.

| Description | Code | Custom Made Service | | Package/ No. of pieces |
|-----------------------------------------------------------------|--------|---------------------|--|------------------------|
| A pair of lifting beams for enclosures side by side | TU1000 | ■ | | 1/2 |
| A pair of lifting beams for enclosures side by side - Assembled | TU1001 | ■ | | 1/2 |

- Service only valid for factory pre-assembled enclosures.
- The drawing of the front view of the enclosure battery must always be enclosed, specifying the width, depth and sequence of the enclosures for each column.
- Unit of measurement for the order: METRE.
- Maximum width of 6m.

■ The "Custom Made Service" is valid only for structures assembled at the factory, for more information please contact your local sales network.

Fixing brackets for IS2 H=1400 or H=1600mm

| Description | Code | | | Package/ No. of pieces |
|-----------------------------------|-----------------|--|--|------------------------|
| Fixing brackets for H=1400/1600mm | 1STQ005334B0000 | | | 1/2 |

Feet and wheels

| Description | Code | | | Package/ No. of pieces |
|---------------------------------------|--------|--|--|------------------------|
| No.4 M12 levelling feet (500kg each) | EV1004 | | | 1/4 |
| No.4 Ø 80mm free wheels (70kg each) | EV1005 | | | 1/4 |
| No.4 Ø 80mm braked wheels (70kg each) | EV1006 | | | 1/4 |

Hinges opening 180°

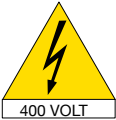
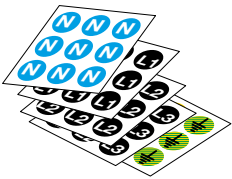
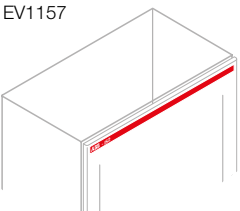
Made of 2,5mm thick sheet, allow the door to be opened 180° also for battery assembled enclosures.

| Description | Code | Custom Made Service* | | Package/ No. of pieces |
|--------------------------|--------|----------------------|--|------------------------|
| No.4 hinges opening 180° | CR0181 | CR0180M | | 1/4 |

* Code only valid for factory-assembled enclosures.

IS2 Enclosures

Ordering codes



5

Accessories

Marking

| Description | Code | | Package/ No. of pieces |
|-------------------------------------------------------------------------|--------|--|---------------------------|
| No.5 adhesive labels ABB-IS2 W=1000mm | EV1157 | | 1/5 |
| No.490 adhesive labels Ø 12mm N symbol | EV1150 | | 1/490 |
| No.490 adhesive labels Ø 12mm L1symbol | EV1151 | | 1/490 |
| No.490 adhesive labels Ø 12mm L2 symbol | EV1152 | | 1/490 |
| No.490 adhesive labels Ø 12mm L3 symbol | EV1153 | | 1/490 |
| No.490 adhesive labels Ø 12mm T symbol | EV1154 | | 1/490 |
| No.10 triangular adhesive labels 125mm with 400V lightning arrow symbol | EV1155 | | 1/10 |
| No.100 triangular adhesive labels 50mm with lightning arrow symbol | EV1156 | | 1/100 |

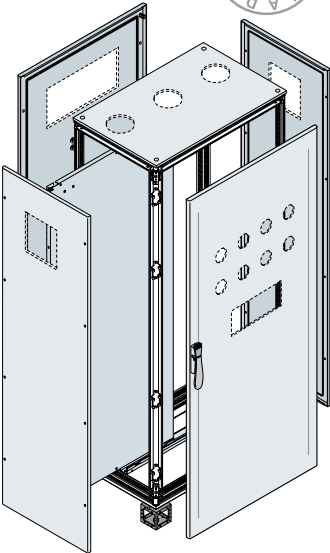


Special Painting Service

Special painting service has to be managed contacting your local sales network. It is necessary to specify the required color in the order. For any other component or further information, please contact your local sales network.

Special Drilling Service

Special drilling service has to be managed contacting your local sales network. It is necessary to attach the drawing of the drillings (in .dwg format) along with the order. For any other component or further information, please contact your local sales network.



Spare parts and mounting hardware

| Description | Code | | Package/ No. of pieces |
|------------------------------------------------------------------|----------|--|---------------------------|
| Top 400x400mm (WxD) | EK4040RK | | 1/1 |
| Top 400x500mm (WxD) | EK4050RK | | 1/1 |
| Top 400x600mm (WxD-DxW) | EK4060RK | | 1/1 |
| Top 400x800mm (WxD-DxW) | EK4080RK | | 1/1 |
| Top 400x1000mm (WxD-DxW) | EK4010RK | | 1/1 |
| Top 600x500mm (WxD) | EK6050RK | | 1/1 |
| Top 600x600mm (WxD) | EK6060RK | | 1/1 |
| Top 600x800mm (WxD-DxW) | EK6080RK | | 1/1 |
| Top 600x1000mm (WxD-DxW) | EK6010RK | | 1/1 |
| Top 800x500mm (WxD) | EK8050RK | | 1/1 |
| Top 800x800mm (WxD) | EK8080RK | | 1/1 |
| Top 800x1000mm (WxD-DxW) | EK8010RK | | 1/1 |
| Top 1000x500mm (WxD) | EK1050RK | | 1/1 |
| Top 1000x1000mm (WxD) | EK1010RK | | 1/1 |
| Top 1200x400mm (WxD) | EK1240RK | | 1/1 |
| Top 1200x500mm (WxD) | EK1250RK | | 1/1 |
| Top 1200x600mm (WxD) | EK1260RK | | 1/1 |
| Top 1200x800mm (WxD) | EK1280RK | | 1/1 |
| Door closing lever mechanisms H=1800mm | EV1802 | | 1/1 |
| Door closing lever mechanisms H=2000mm | EV2002 | | 1/1 |
| Door closing lever mechanisms H=2200mm | EV2202 | | 1/1 |
| Door closing box complete with double tongue insert | EV1030 | | 1/1 |
| 3mm double tongue insert | AA6100 | | 1/1 |
| Standard handle complete with double tongue insert (without tab) | EV1008 | | 1/1 |
| Double tongue insert for EV1030 | EV1039 | | 1/1 |
| Zn + Al + Mg alloy double tongue key | AD1058 | | 1/1 |

IS2 Enclosures

Ordering codes

Spare parts and mounting hardware

| Description | Code | | | Package/ No. of pieces |
|----------------------------------|---------|--|--|---------------------------|
| Blind side panel 1800x400 (HxW) | EL1841K | | | 1/1 |
| Blind side panel 1800x500 (HxW) | EL1851K | | | 1/1 |
| Blind side panel 1800x600 (HxW) | EL1861K | | | 1/1 |
| Blind side panel 1800x800 (HxW) | EL1881K | | | 1/1 |
| Blind side panel 1800x1000 (HxW) | EL1811K | | | 1/1 |
| Blind side panel 2000x400 (HxW) | EL2041K | | | 1/1 |
| Blind side panel 2000x500 (HxW) | EL2051K | | | 1/1 |
| Blind side panel 2000x600 (HxW) | EL2061K | | | 1/1 |
| Blind side panel 2000x800 (HxW) | EL2081K | | | 1/1 |
| Blind side panel 2000x1000 (HxW) | EL2011K | | | 1/1 |
| Blind side panel 2200x400 (HxW) | EL2241K | | | 1/1 |
| Blind side panel 2200x500 (HxW) | EL2251K | | | 1/1 |
| Blind side panel 2200x600 (HxW) | EL2261K | | | 1/1 |
| Blind side panel 2200x800 (HxW) | EL2281K | | | 1/1 |
| Blind side panel 2200x1000 (HxW) | EL2211K | | | 1/1 |

Spare parts and mounting hardware

| Descrizione | Codice | | | Confezione/ No.pezzi |
|-----------------------------------------------------|-----------------------|--|--|-------------------------|
| Track for front plate insertion D=400mm | EA0401 | | | 1/1 |
| Track for front plate insertion D=500mm | EA0501 | | | 1/1 |
| Track for front plate insertion D=600mm | EA0601 | | | 1/1 |
| Track for front plate insertion D=800mm | EA0801 | | | 1/1 |
| Track for front plate insertion D=1000mm | EA1001 | | | 1/1 |
| No.5 sliding back plate kits with front insertion | EV0001 | | | 1/5 |
| Cloth for filter 105x105mm (HxW) | EN3105 | | | 1/6 |
| Cloth for filter 150x150mm (HxW) | EN3150 | | | 1/6 |
| Cloth for filter 204x204mm (HxW) | EN3204 | | | 1/6 |
| Cloth for filter 250x250mm (HxW) | EN3250 | | | 1/6 |
| Cloth for filter 325x325mm (HxW) | EN3326 | | | 1/6 |
| "IS2 survival kit" accessories and spare part items | EV1057 ⁽¹⁾ | | | 1/1 |

⁽¹⁾ Kit consisting of: No.10 mounting kits for plinth flanges H=100mm; No.10 kits for mounting uprights; No.10 mounting kits for rear/side panels; No.5 kits for mounting plate, No.10 kits for door accessories, No.4 hinges for IP on intermediate upright; No.6 squares box door with overlapping closure; No.5 kits of 50 pcs refill screws, No. 5 kits of 20 pcs cage nuts; No. 6 blocks for mounting door with overlapping closure.

Fixing accessories for apparatus

| Description | Code | | | Package/ No. of pieces |
|--------------------------------------------------------------|--------|--|--|---------------------------|
| No.1000 cross-cut head piercing screws 4.2x13mm | EV1100 | | | 1/1000 |
| No.1000 cross-cut head piercing screws 4.2x19mm | EV1101 | | | 1/1000 |
| No.50 screws M6 x 13mm cross rounded head | EV6130 | | | 1/50 |
| No.50 cage nut M6 for square hole 9,2 x 9,2mm | EV6131 | | | 1/50 |
| No.20 M5 cage nuts - insertion from the front ⁽¹⁾ | EV0102 | | | 1/20 |
| No.20 M6 cage nuts - insertion from the front ⁽²⁾ | AD1036 | | | 1/20 |
| No.50 trilobed screws M6 L=10mm | AD1033 | | | 1/50 |
| No.20 Torx screws M5 and nylon washer L=16mm | EV0103 | | | 1/20 |
| No.20 Torx screws M6 and nylon washer L=16mm | EV0104 | | | 1/20 |
| No.500 special screws for IS2 side and rear panels | EV1102 | | | 1/500 |
| No.8 Hinges and rivets for IS2 standard uprights | EV1103 | | | 1/8 |

⁽¹⁾ For rack frames' squared holes and cage nuts 9.2x9.2mm.

⁽²⁾ For rectangular holes 13x8,2mm.

IS2 Enclosures

Examples of configurations

Composition of the supply

Width $\leq 1000\text{mm}$

- Self-supporting galvanised steel structure consisting of a closed section drilled with 25mm pitch
- Removable roof
- Plinth H=100mm consisting of four angle pieces (2,5mm)
- Rear panel
- Blind door made of 2,00mm thick sheet, fitted with polyurethane gasket, complete with fixed handle with double tongue key. Reversible with 4 closure points and complete with internal reinforcement frame for $W \geq 600\text{mm}$ and earthing pins.
- Glazed door made of 2,00mm thick sheet, with 4mm thickness safety glass, fitted with polyurethane gasket, complete fixed handle with double tongue key. Reversible with 4 closure points and complete with internal reinforcement frame and earthing pins.
- Cable container door (2,00mm) with opposite opening (standard hinging on the left) complete with double box with double tongue key (interchangeable) for cable container $W=200\text{mm}$ or flange for cable container $W=400\text{mm}$, intermediate removable crosspiece and upright
- Packed separately

- Glazed doors (2,00mm) with 4mm thickness safety glass and with opposite opening, complete with fixed handles with double tongue key (interchangeable) and lever closing mechanisms in four points, removable intermediate crosspiece and upright
- Packed separately

Completion items

- Standard and oversized back plates with front and lateral insertion pag. 5/61
- Cable entry flanges pag. 5/55
- Plinth covering flanges H=100/200mm and reinforced plinth..... pag. 5/59
- Side panels pag. 5/53
- Crosspieces pag.5/67
- 19" rack frames pag.5/83
- Lifting eyebolts and reinforcements pag.5/111
- Key inserts pag.5/106
- Fans, air conditioners..... pag.5/102
- Uprights, panels and DIN rails pag.5/78

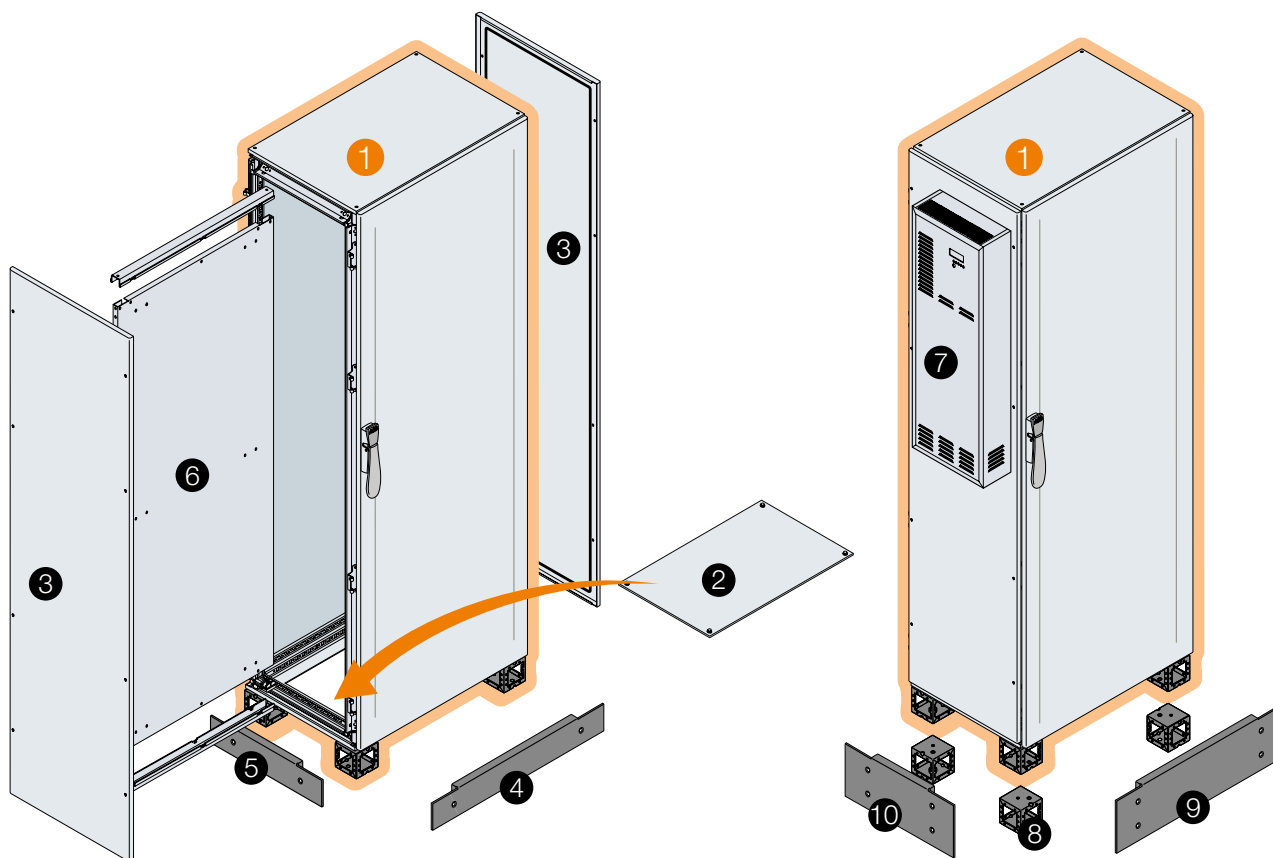
Width $\geq 1200\text{mm}$

- Self-supporting galvanised steel structure consisting of a closed section drilled with 25mm pitch
- Removable roof
- Plinth H=100mm consisting of four angle pieces plus intermediate support (3,00mm) and relative covering flanges
- Rear panel with 1,5mm thickness (two panels with $W=800\text{mm}$ for the version $W=1600\text{mm}$)
- Blind doors (2,00mm) with opposite opening complete with internal reinforcement frame and lever closing mechanisms in four points, removable intermediate crosspiece and upright for improved access

Technical characteristics

| | | |
|-------------------------------|--------------------|-----------------------------------------------|
| Conformity with Standard | | IEC EN 62208, IEC EN 60439-1, IEC 62208 |
| Degree of protection | | IP65 (IEC 60529) with fixed flanges |
| Degree of mechanical strength | blind door | IK10 (IEC 62262) |
| | glazed door | IK09 (IEC 62262) |
| Colour | internal structure | galvanized white |
| | external panelling | RAL 7035 orange peel |
| | plinth | RAL 7012 orange peel |

Example of completion of pre-assembled structure



- 1** ES2065K
Structure 2000x600x500 (HxWxD) complete with blind door and rear panel

Completion items

- 2** EF6052 Bottom closure
- 3** EL2050K No. 2 side panels
- 4** ZN6000 No. 2 plinth flanges H=100mm front/rear
- 5** ZN5000 No. 2 plinth flanges H=100mm side
- 6** EA2161 Oversize back plate + tracks for lateral insertion
- 7** VZ1000K Super thin wall-mounted IP54 air conditioned
- 8** ZN1010 No. 4 plinth angle pieces H=100mm
- 9** ZN6002 No. 2 plinth flanges H=200mm front/rear
- 10** ZN5002 No. 2 plinth flanges H=200mm side

IS2 Enclosures

Examples of configurations

Configuration with compartments

Building the configuration with compartments

The cabinets with configuration with compartments can be constructed starting from pre-assembled structures, or from structure kits. The useful dimension is always 200mm less than the total height of the enclosure.

Composition of the supply with pre-assembled cabinet

- Pre-assembled self-supporting structure made of galvanised steel consisting of a closed section drilled with 25mm pitch preset for mounting the compartment cubicles and partial doors.
- Removable roof, plinth H=100mm (consisting of four angle pieces 2,5mm) and rear panel.
- The structures with internal compartment W=200mm are supplied complete with blind door with opposite opening (standard hinging on the left), double box with double tongue key. The structures with internal compartment W=400mm are supplied complete with blind door with opposite opening (standard hinging on the left), handle with double tongue key. Both versions are complete with removable intermediate upright and pair of crosspieces (top/bottom) for fixing the latter

Composition of the supply with built-up cabinet

For construction of the cabinet kits, the base, top, uprights, panelling, doors, plinth flanges, cable entry flanges and internal accessories must be ordered separately.

Base and top:

completely pre-assembled by means of 3-way joint complete with plinth angle pieces (2,5mm) H=100mm. Removable roof.

Uprights:

made of galvanised steel consisting of a closed section drilled with 25 mm pitch preset for mounting compartment cubicles and partial doors, which can be mounted with just 8 screws at the base/top

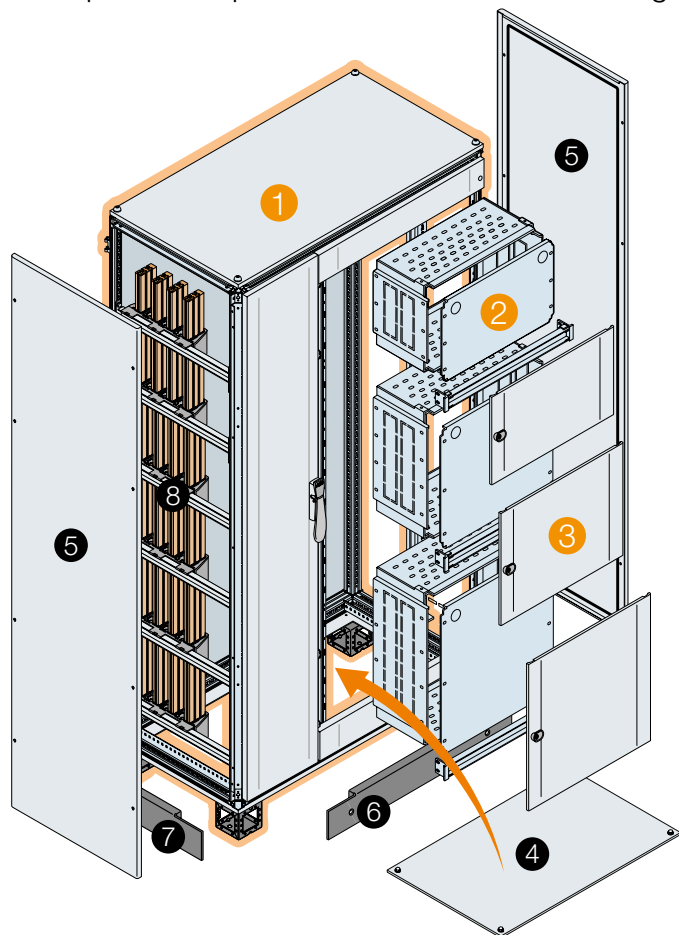
Rear panel:

made of 1,5mm thick sheet, fitted with polyurethane gasket

Cable container door:

(2,00mm) opposite opening (standard hinging on the left) complete with double box with double tongue key (interchangeable), crosspiece and intermediate upright to be ordered separately for version with cable container montante intermedio da ordinare a parte in caso di versione con vano cavi.

Example of composition of a structure for configuration with compartments



Composition of pre-assembled structure 2000x800x600 (HxLxP)

- 1 ES2086MF2K Pre assembled cabinet with cable container and partial blind panels
- 2 2 EH.... Cubicles for compartments
- 3 EH....K Partial front panels for compartments

Completion items

- 4 EF8062 Bottom closure
- 5 EL2060K No. 2 side panels
- 6 ZN8000 No. 2 plinth flanges H=100mm front/rear
- 7 ZN6000 No. 2 plinth flanges H=100mm side
- 8 Busbar system with shaped section

Completion items

- Cubicle for compartments pag. 5/76
- Partial front doors pag. 5/77
- Distribution system pag. 5/90
- Cable entry flanges pag. 5/55
- Plinth covering flanges H=100/200mm and reinforced plinth pag. 5/59
- Side panels pag. 5/53
- Crosspieces pag. 5/67
- Lifting eyebolts and reinforcements pag. 5/111
- Key inserts pag. 5/106

Technical characteristics

| | | |
|------------------------------------------|-----------------------------------------|----------------------|
| Conformity with Standard | IEC EN 62208, EN60439-1 - IEC 61439-1-2 | |
| Rated service voltage Ue | up to 690 V | |
| Rated insulation voltage Ui | up to 1000 V | |
| Rated impulse withstand voltage Uimp | 8 kV | |
| Rated current In | up to 1600 A | |
| Rated short-time short-circuit withstand | up to 65 kA | |
| Rated peak short-circuit current Ipk | 143 kA | |
| Degree of protection | IP41 (IEC 60529) | |
| Degree of mechanical strength | IK10 (IEC 62262) | |
| Obtainable segregation forms | up to Form 3a | |
| Colour: | internal structure | galvanised white |
| | external panelling | Orange peel RAL 7035 |
| | plinth | Orange peel RAL 7012 |

MCC version with fixed drawers

Compartment selection according to the type of starting/power

| Type of starter | Power diagram | Power 400-50Hz | | Type of circuit-breaker | Type of contactor | Type of thermal relay | Compartment dimensions HxW mm | | |
|-----------------|---------------|----------------|---------|-------------------------|---------------------|-----------------------|-------------------------------|---------|---------|
| | | kW | A | | | | 200x600 | 200x800 | 300x800 |
| Direct | | 0.37÷11 | 1.1÷22 | T2 | A9÷A30 | TA25÷TA42 | • | | |
| | | 15÷45 | 28.5÷83 | | A50÷A95 | TA75÷TA110 | | • | |
| | | 0.37÷11 | 1.1÷22 | XT2 | A9÷A30 | TA25÷TA42 | • | | |
| | | 15÷45 | 28.5÷83 | | A50÷A95 | TA75÷TA110 | | • | |
| | | 55÷90 | 98÷158 | T3 | A110÷A185 | TA110÷TA200 | | • | |
| | | 55÷90 | 98÷158 | XT3 | A110÷A185 | TA110÷TA200 | | • | |
| | | 110 | 193 | T4 | A210 | TA450/E320 | | | • |
| | | 110 | 193 | XT4 | A210 | TA450/E320 | | | • |
| | | 132÷160 | 232÷282 | T5 | A260÷A300 | TA450/E320 | | | • |
| Type of starter | Power diagram | Power 400-50Hz | | Type of circuit-breaker | Type of contactor | Type of thermal relay | Compartment dimensions HxW mm | | |
| | | kW | A | | | | 400x600 | 600x800 | 800x800 |
| Star Delta | | 18.5÷55 | 36÷98 | T2 | A50÷A26÷A75÷A40 | TA75 | • | | |
| | | 18.5÷55 | 36÷98 | XT2 | A50÷A26÷A75÷A40 | TA75 | • | | |
| | | 75÷110 | 135÷193 | T3 | A95÷A75÷A145÷A95 | TA110÷TA200 | | • | |
| | | 75÷110 | 135÷193 | XT3 | A95÷A75÷A145÷A95 | TA110÷TA200 | | • | |
| | | 132 | 232 | T4 | A145÷A110 | TA200 | | | • |
| | | 132 | 232 | XT4 | A145÷A110 | TA200 | | | • |
| | | 160÷200 | 282÷349 | T5 | A210÷A145÷A210÷A185 | TA200÷TA450 | | | • |
| | | | | | | | | | |

Segregated Form 3 PC version

Compartment selection according to the type of circuit-breaker

| Type of circuit-breaker | Installation | H comp. (mm) | Version fixed | fixed |
|------------------------------|--------------|--------------|---------------|-------|
| Tmax T1 - 3/4P | horizontal | 200 | • | |
| Tmax T2/T3 - 3P | horizontal | 200 | • | • |
| Tmax T2/T3 - 4P | horizontal | 300 | • | • |
| Tmax T3 - 3/4P | vertical | 300 | • | • |
| Tmax T4 - 3P | horizontal | 300 | • | • |
| Tmax T4 - 3/4P | vertical | 400 | • | • |
| Tmax T5 - 3/4P | horizontal | 300 | • | |
| Tmax T5 - 3P | horizontal | 300 | | • |
| Tmax T5 - 4P | horizontal | 400 | | • |
| Tmax T5 - 3/4P (400A) | vertical | 400 | • | • |
| Tmax T5 - 3/4P | vertical | 500 | | • |

| Type of circuit-breaker | Installation | H comp. (mm) | Version fixed | fixed |
|-------------------------|--------------|--------------|---------------|-------|
| Tmax XT1 - 3/4P | horizontal | 200 | • | • |
| Tmax XT1 - 3/4P | vertical | 300 | • | • |
| Tmax XT2 - 3P | horizontal | 200 | • | • |
| Tmax XT2 - 4P | horizontal | 300 | • | • |
| Tmax XT2 - 3/4P | vertical | 300 | • | • |
| Tmax XT3 - 3P | horizontal | 200 | • | • |
| Tmax XT3 - 4P | horizontal | 300 | • | • |
| Tmax XT3 - 3/4P | vertical | 300 | • | |
| Tmax XT3 - 3/4P | vertical | 400 | | • |
| Tmax XT4 - 3P | horizontal | 200 | • | • |
| Tmax XT4 - 4P | horizontal | 300 | • | • |
| Tmax XT4 - 3/4P | vertical | 300 | • | |
| Tmax XT4 - 3/4P | vertical | 400 | | • |

> Quick selection table page 5/12 > In-depth technical information page 7/1 > Overall dimensions page 8/1

IS2 Enclosures

Examples of configurations

Construction of modular configurations

Making up configurations with DIN panels and rails is possible by means of the pre-assembled cabinet or cabinet Kit solution. The useful dimension is always 100mm less than the total height of the enclosure.

Composition of the supply with pre-assembled cabinet

- Pre-assembled self-supporting structure made of galvanised steel consisting of a closed section drilled with 25mm pitch preset for mounting the modular uprights.
- Removable roof, plinth H=100mm (consisting of four angle pieces 2,5mm) and rear panel.
- Blind door made of 2,00mm thick sheet, fitted with polyurethane gasket, complete with ergonomic handle and other types of inserts, see page 5/104). Reversible (standard hinging on the right) with 4 closure points and complete with internal reinforcement frame for $W \geq 600\text{mm}$ and earthing pins.
- Glazed door made of 2,00mm thick sheet, with 4mm thickness safety glass, fitted with polyurethane gasket, complete with fixed handle with double tongue key interchangeable with other types of inserts, see page 4/104. Reversible (standard hinging on the right) with 4 closure points and complete with earthing pins.
- The structures with internal cable container $W=200\text{mm}$ are supplied complete with blind door with opposite opening (standard hinging on the left), double box with double tongue key. The structures with internal cable container $W=400\text{mm}$ are supplied complete with blind door with opposite opening (standard hinging on the left), handle with double tongue key. Both versions are complete with removable intermediate upright.

Composition of the supply with built-up cabinet

For construction of the cabinet kits, the base, top, uprights, panelling, doors, plinth flanges, cable entry flanges and internal accessories must be ordered separately.

Base, top and plinth:

completely pre-assembled by means of a 3-way joint complete with plinth angle pieces (2,5mm) $H=100\text{mm}$. Removable roof.

Uprights:

made of galvanised steel consisting of a closed section drilled with

25 mm pitch preset for mounting compartment cubicles and partial doors, which can be mounted with just 8 screws at the base/top

Rear panel:

made of 1,5mm thick sheet, fitted with polyurethane gasket

Cable container door

The doors for internal cable container $W=200\text{mm}$ with opposite opening (standard hinging on the left) are complete with double box with double tongue key. The doors for internal cable container $W=400\text{mm}$ with opposite opening (standard hinging on the left) are complete with handle with double tongue key. Both versions require the removable intermediate upright

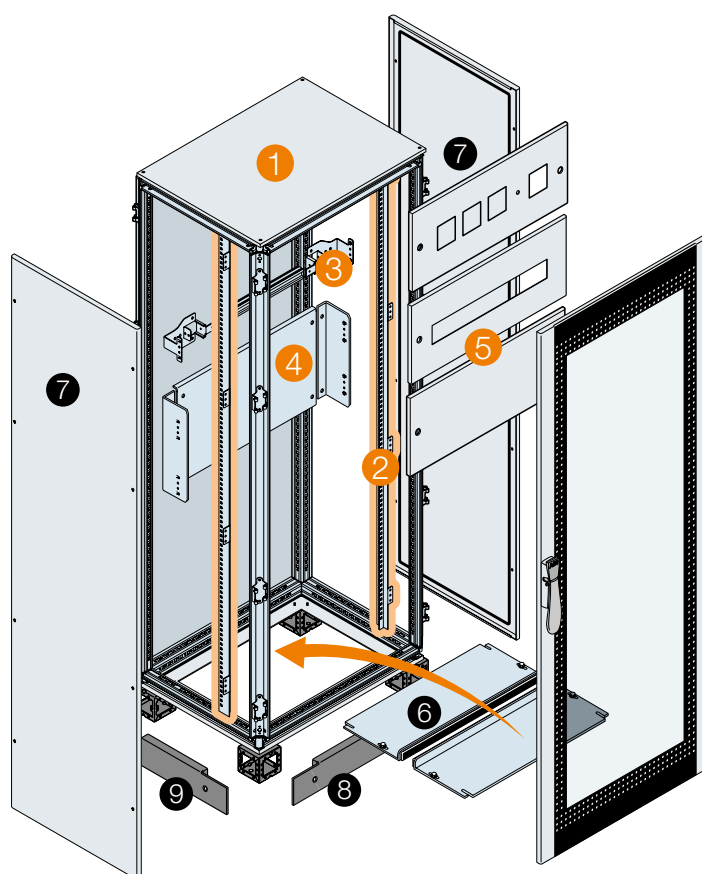
Completion items

- Uprights for apparatus pag. 5/78
- DIN rails and modular panels pag. 5/78
- Distribution system..... pag. 5/90
- Cable entry flanges pag. 5/55
- Plinth covering flanges $H=100/200\text{mm}$ and reinforced plinth pag. 5/59
- Side panels pag. 5/53
- Crosspieces pag. 5/67
- Lifting eyebolts and reinforcements pag. 5/111
- Key inserts pag. 5/106

Technical characteristics

| | | |
|-----------------------------------------------------------|--------------------|-----------------------------------------|
| Conformity with Standard | | IEC 62208 IEC 60439-1, IEC 61439-1-2 |
| Rated service voltage U_e | | up to 690 V |
| Rated insulation voltage U_i | | up to 1000 V |
| Rated impulse withstand voltage U_{imp} | | 8 kV |
| Rated current I_n | | up to 1600 A |
| Rated short-time short-circuit withstand current I_{sc} | | up to 65 kA |
| Rated peak short-circuit current I_{pk} | | 143kA |
| Degree of protection | | IP65 (IEC 60529) |
| Degree of mechanical strength | blind door | IK10 (IEC 62262) |
| | glazed door | IK09 (IEC 62262) |
| Colour | internal structure | galvanised white |
| | external panelling | Orange peel RAL 7035 |
| | plinth | Orange peel RAL 7012 |

Example of composition of a structure for power factor correction

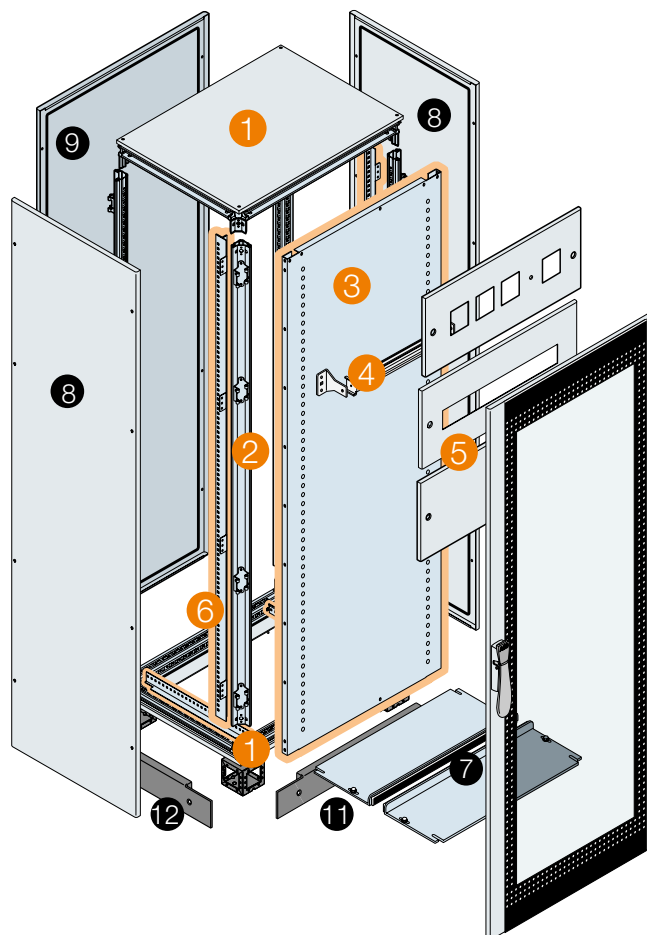


Composition of pre-assembled structure 2000x600x600 (HxWxD) for apparatus

- 1 ES2066VK Pre-assembled cabinet with glazed door
- 2 EH2000 Uprights for apparatus
- 3 EH0018 Kit for modular apparatus
- 4 EH.... Blind back plates for apparatus
- 5 EH....K Blind front panels, with cut-outs for modular items and instrument holder

Completion items

- 6 EF6060 Cable entry sliding flanges
- 7 EL2060K No. 2 side panels
- 8 ZN6000 No. 2 plinth flanges H=100mm front/rear
- 9 ZN6000 No. 2 plinth flanges H=100mm side



Composition of a structure Kit 2000x600x500 (HxWxD) for apparatus mounted on the back plate

- 1 EK6050K Base top
- 2 EM2000 Uprights
- 3 EX2060 Oversized back plate
- 4 EH1018 Kit for modular apparatus
- 5 EH....K Blind front panels with cut-outs for modular items and instruments holder
- 6 EH2000 Kit for modular apparatus

Completion items

- 7 EF6050 Cable entry sliding flanges
- 8 EL2050K No. 2 side panels
- 9 EP2060K Rear panel
- 10 ET2060K Glazed door
- 11 ZN6000 No. 2 plinth flanges H=100mm front/rear
- 12 ZN5000 No.2 plinth flanges H=100mm side

IS2 Enclosures

Examples of configurations

Constructing the 19" rack structures

Making up the 19" rack structures is possible by means of the pre-assembled or cabinet Kit solution, using a rack 19" with "L" profile or a rack 19" with cranked shaped frame profile.

Composition of the supply with pre-assembled cabinet

- Pre-assembled self-supporting structure made of galvanised steel consisting of a closed section drilled with 25mm pitch.
- Removable roof, plinth H=100mm (consisting of four angle pieces 2,5mm) and rear panel.
- Blind door made of 2,00mm thick sheet, fitted with polyurethane gasket, complete with handle with double tongue key interchangeable with other types of inserts, see page 4/36. Reversible (standard hinging on the right) with 4 closure points and complete with internal reinforcement frame and earthing pins.
- Glazed door made of 2,00mm thick sheet, with 4mm thickness safety glass, fitted with polyurethane gasket, complete with handle with double tongue key interchangeable with other types of inserts, see page 5/104. Reversible (standard hinging on the right) with 4 closure points and complete with earthing pins.

Composition of the supply with built-up cabinet

For construction of the cabinet kits, the base, top, uprights, panelling, doors, plinth flanges, cable entry flanges and internal accessories must be ordered separately.

Base, top and plinth:

completely pre-assembled by means of 3-way joint complete with plinth angle pieces (2,5mm) H=100mm. Removable roof.

Uprights:

made of galvanised steel consisting of a closed section drilled with 25mm pitch preset for mounting the rack frames.

19" rack frame with "L" profile:

made of galvanised steel, this is able to support a maximum load of 90kg, and is available in the fixed and swing versions.

It can hold 38 to 47 HE in the fixed version, 36 to 45 HE in the swing version and 9 to 27 HE in the partial version. The structure is completed with the aluminium dummy panels.

Rack 19" with cranked and "C" shaped frame profile:

Fastening systems with fixed cranked shaped profile uprights in enclosure W=600mm and W=800mm available. Adjustable 25mm pitch brackets and crosspieces. All eight and partial fixed frame available. Rack frame with swing decentralized "C" shaped profile for W=800mm available.

New brackets, crosspieces and useful accessories have been included into ABB offer; crosspieces have dedicated slots for the passage of cables and for the ducts fixing. Support for accessories, universal fixed, adjustable in deep or removable shelves plus DIN-rail codes are now available.

Rear panel:

made of 1,5mm thick sheet, fitted with polyurethane gasket.

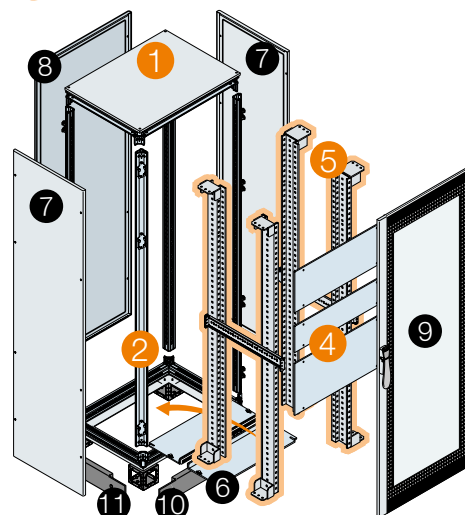
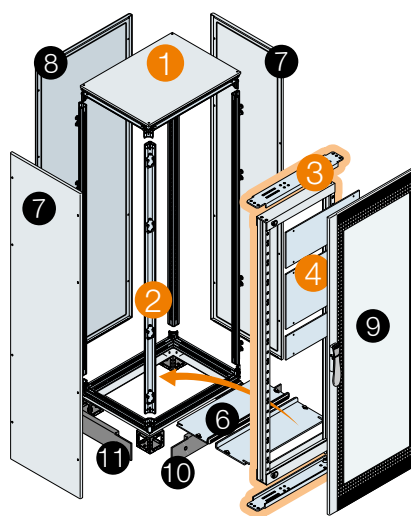
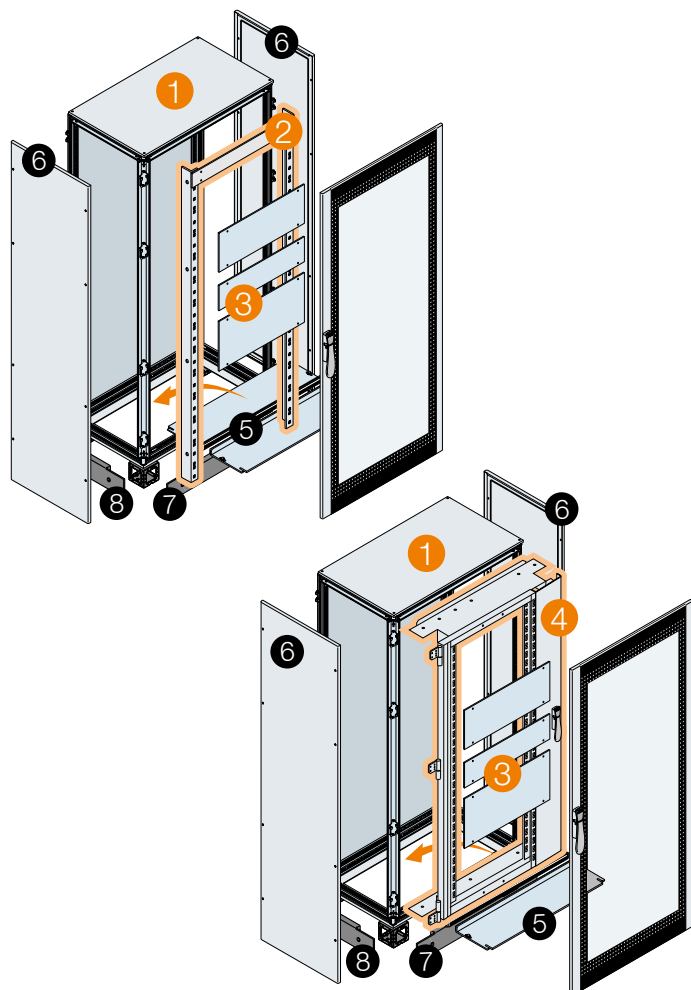
Completion items

- 19" rack frames with "L" profile pag. 5/83
- 19" fixed rack frames with cranked shaped profile..... pag. 5/84
- 19" swing rack frames with "C" shaped profile..... pag. 5/85
- Accessories pag. 5/88
- Dummy panels..... pag. 5/87
- Cable entry flanges pag. 5/55
- Plinth covering flanges H=100/200mm and reinforced plinth pag. 5/59
- Side panels pag. 5/53
- Crosspieces pag. 5/67
- Lifting eyebolts and reinforcements pag. 5/111
- Key inserts pag. 5/106

Technical characteristics

| | | |
|-------------------------------|--------------------|---------------------------------------|
| Conformity with Standard | | IEC 62208, IEC 60439-1, IEC 61439-1-2 |
| Degree of protection | | IP65 (IEC 60529) with fixed flanges |
| Degree of mechanical strength | blind door | IK10 (IEC 62262) |
| | glazed door | IK09 (IEC 62262) |
| Colour | internal structure | galvanised white |
| | external panelling | Orange peel RAL 7035 |
| | plinth | Orange peel RAL 7012 |

Example of composition of a structure with 19" rack frame



Making up a pre-assembled structure 2000x800x600 (HxWxD) for 19" rack frames

- 1 ES2086VK Pre-assembled cabinet with glazed door
- 2 EG2080 Telaio rack fisso con profilo a "L"
- 3 EG.... Panels for rack frame
- 4 EG2004K Swing "C" shaped rack frame and EV0007 kit for fixing swing rack frame "C" shaped

Completion items

- 5 EF8060 Cable entry sliding flanges
- 6 EL2060K No.2 blind side panels
- 7 ZN8000 No. 2 plinth flanges H=100mm front/rear
- 8 ZN6000 No. 2 plinth flanges H=100mm side

Composition of a structure Kit 2000x600x500 (HxWxD) for 19" rack frames

- 1 EK6050K Base top
- 2 EM2000 Uprights
- 3 EG2001K Centred swing rack frame
- 4 EG.... Panels for rack frame
- 5 EG2005 Cranked shape uorights EB6000 kit for fixing and EB0500 crosspieces

Completion items

- 6 EF6050 Cable entry sliding flanges
- 7 EL2050K No. 2 side panels
- 8 EP2060K Rear panel
- 9 ET2060K Glazed door
- 10 ZN6000 No. 2 plinth flanges H=100mm front/rear
- 11 ZN5000 No. 2 plinth flanges H=100mm side

IS2 Enclosures

Examples of configurations

Construction of cabinet kits

For construction of the cabinet kits, the base, top, uprights, paneling, door, plinth flanges, cable entry flanges and internal accessories must be ordered separately.

Components to be ordered:

Base, top and plinth:

completely pre-assembled by means of 3-way joint complete with plinth angle pieces (2,5mm) H=100mm; removable roof

Uprights:

made of galvanised steel consisting of a closed section drilled with 25 mm pitch, which can be mounted with just 8 screws at the base/top

Rear/side panel:

made of 1,5mm thick sheet, fitted with polyurethane gasket

Blind door:

made of 2,00mm thick sheet, fitted with polyurethane gasket, complete with fixed handle with double tongue key. Reversible with 4 closing points, and complete with internal reinforcement frame for $W \geq 600$ mm and earthing pins.

Glazed door:

made of 2,00mm thick sheet with 4 mm thickness safety glass, fitted with polyurethane gasket, complete with handle with double tongue key interchangeable with other types of inserts. Reversible with 4 closure points and complete with earthing pins.

Cable container door:

(2,00mm) opposite opening (standard hinging on the left) complete with double box with double tongue key (interchangeable), intermediate removable crosspiece and upright.

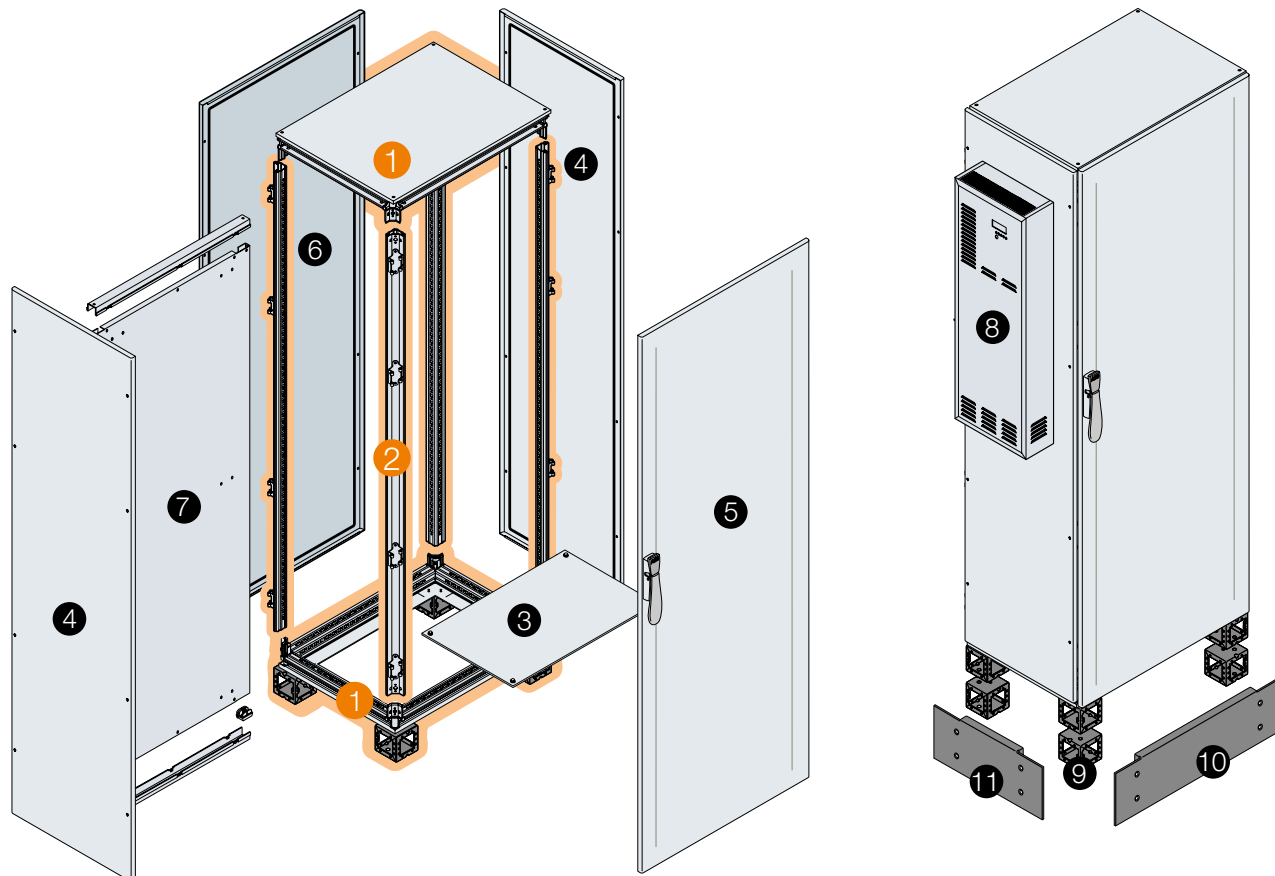
Completion items

- Standard and oversized back plates with front and lateral insertion pag. 5/61
- Cable entry flanges pag. 5/55
- Plinth covering flanges H=100/200mm and reinforced plinth pag. 5/59
- Crosspieces pag. 5/67
- 19" rack frames pag. 5/83
- Lifting eyebolts and reinforcements pag. 5/111
- Key inserts pag. 5/106
- Fans, air conditioners pag. 5/102
- Uprights, panels and DIN rails pag. 5/78

Technical characteristics

| | | |
|-------------------------------|--------------------|-----------------------------------------|
| Conformity with Standard | | IEC 62208 IEC 60439-1, IEC 61439-1-2 |
| Degree of protection | | IP65 (IEC 60529) with fixed flanges |
| Degree of mechanical strength | blind door | IK10 (IEC 62262) |
| | glazed door | IK09 (IEC 62262) |
| Colour | internal structure | galvanised white |
| | external panelling | Orange peel RAL 7035 |
| | plinth | Orange peel RAL 7012 |

Example of composition of a structure Kit



Composition of a structure 2000x600x500 (HxWxD)

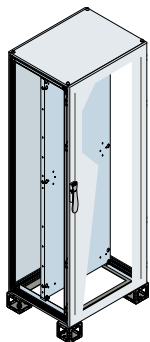
- 1 EK6050K Base, top and plinth
- 2 EM2000 N°4 uprights

Completion items

- 3 EF6052 Bottom closure
- 4 EL2050K No. 2 side panels
- 5 EC2060K Blind door
- 6 EP2060K Rear panel
- 7 EA2161 Oversized back plate + tracks for lateral insertion
- 8 VZ1850K Super thin wall air conditioner IP54
- 9 ZN1010 No. 4 plinth angle pieces H=100mm
- 10 ZN6002 No. 2 plinth flanges H=200mm front/rear
- 11 ZN5002 No. 2 plinth flanges H=200mm side

IS2 Enclosures

Examples of configurations

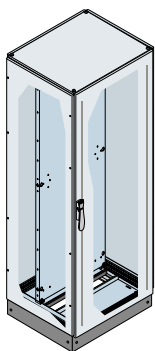


Pre-assembled structures

IS2 series pre-assembled structure dim.: 1800x600x400 (1905x594x410)mm (external HxWxD) IP65 with blind door, back plate and plinth H=100mm (side panels, cable entry flanges and plinth flanges excluded).

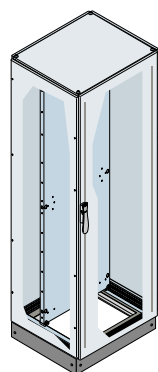
| Description | Code | | | Q.ty |
|-----------------------------------|---------|--|--|------|
| Blind door cabinet 1800x600x400mm | ES1864K | | | 1 |
| Back plate 1800x600mm (HxW) | EA1860 | | | 1 |

5



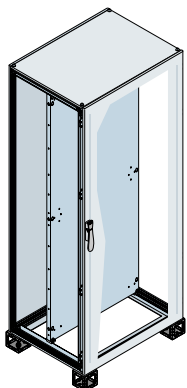
IS2 series pre-assembled structure dim.: 1800x600x500 (1905x610x510)mm. (external HxWxD) IP65 with blind door, back plate, side panels, cable entry flanges and plinth flanges H=100mm

| Description | Code | | | Q.ty |
|-----------------------------------------|---------|--|--|------|
| Blind door cabinet 1800x600x500mm | ES1865K | | | 1 |
| Back plate 1800x600mm (HxW) | EA1860 | | | 1 |
| No.2 blind side panels 1800x500mm (HxD) | EL1850K | | | 1 |
| No.2 plinth flanges W=600mm | ZN6000 | | | 1 |
| No.2 plinth flanges D=500mm | ZN5000 | | | 1 |
| Sliding cable entry flanges 600x500mm | EF6050 | | | 1 |



IS2 series pre-assembled structure dim.: 2000x600x500 (2105x610x510)mm. (external HxWxD) IP65 with blind door, back plate, side panels, plinth and flange H=100mm (cable entry flanges excluded)

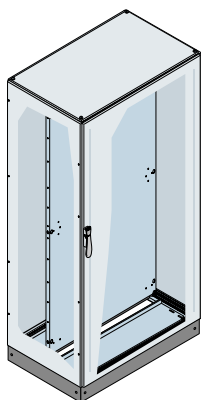
| Description | Code | | | Q.ty |
|-----------------------------------------|---------|--|--|------|
| Blind door cabinet 2000x600x500mm | ES2065K | | | 1 |
| Back plate 2000x600mm (HxW) | EA2060 | | | 1 |
| No.2 blind side panels 2000x500mm (HxD) | EL2050K | | | 1 |
| No.2 plinth flanges W=600mm | ZN6000 | | | 1 |
| No.2 plinth flanges D=500mm | ZN5000 | | | 1 |



Pre-assembled structures

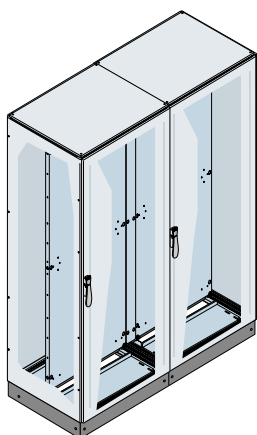
IS2 series pre-assembled structure dim.: 2000x800x600 (2105x794x610)mm. (external HxWxD) IP65 with blind door, back plate and plinth H=100mm (flange excluded)

| Description | Code | | | Q.ty |
|-----------------------------------|---------|--|--|------|
| Blind door cabinet 2000x800x600mm | ES2086K | | | 1 |
| Back plate 2000x800mm (HxW) | EA2080 | | | 1 |



IS2 series pre-assembled structure dim.: 2000x1000x600 (2105x1010x610)mm. (external HxWxD) IP65 with blind door, back plate, side panels, sliding cable entry flanges and plinth H=100mm (flanges included)

| Description | Code | | | Q.ty |
|-----------------------------------------|---------|--|--|------|
| Blind door cabinet 2000x1000x600mm | ES2006K | | | 1 |
| No.2 blind side panels 2000x600mm (HxD) | EL2060K | | | 1 |
| Sliding flanges 1000x600mm | EF1060 | | | 1 |
| No.2 plinth flanges W=1000mm | ZN1000 | | | 1 |
| No.2 plinth flanges D=600mm | ZN6000 | | | 1 |



No.2 IS2 series pre-assembled structures dim.: 2000x600x600 2105x1204x610mm external HxWxD) IP65 with blind door, back plate, side panels, sliding cable entry flanges, structure/plates and plinth joining kit H=100mm (flanges included).

| Description | Code | | | Q.ty |
|-----------------------------------------|---------|--|--|------|
| Blind door cabinet 2000x600x600mm | ES2066K | | | 2 |
| Back plate 2000x600mm (HxW) | EA2060 | | | 2 |
| No.2 blind side panels 2000x600mm (HxD) | EL2060K | | | 1 |
| Sliding flanges 600x600mm | EF6060 | | | 2 |
| Back plate joining kit H=2000mm | EA2000 | | | 1 |
| Kit for joining cabinets | EV0003 | | | 1 |
| No.2 plinth flanges W=600mm | ZN6000 | | | 3 |

IS2 Enclosures

Examples of configurations

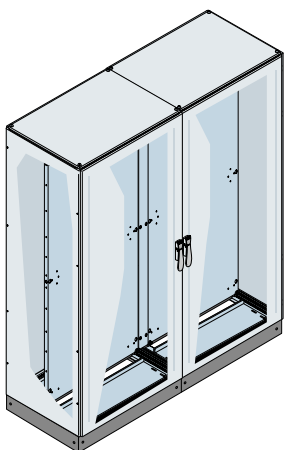


Pre-assembled structures

IS2 series pre-assembled structure dim.: 2000x1200x600 (2105x1210x610)mm. (external HxWxD) IP65 with blind door, back plate, side panels, sliding cable entry flanges and plinth H=100mm (flanges included).

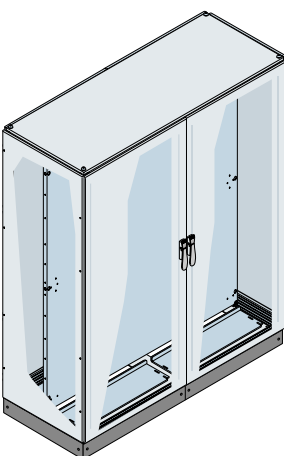
| Description | Code | | | Q.ty |
|------------------------------------------|---------|--|--|------|
| Cabinets with blind door 2000x1200x600mm | ES2026K | | | 1 |
| Black plate 2000x1200mm (HxW) | EA2013 | | | 1 |
| No.2 side blind panels 2000x600mm (HxD) | EL2060K | | | 1 |
| Sliding flanges 600x600mm | EF6060 | | | 2 |
| No.2 plinth flanges W=600mm | ZN6000 | | | 3 |

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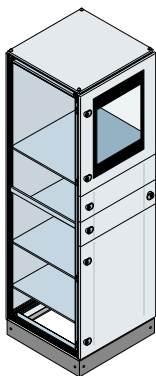
No.2 IS2 series pre-assembled structures dim.: 2000x800x600 (2105x1604x610) mm. (external HxWxD) IP65 with blind door, back plate, side panels, sliding cable entry flanges, structure/plates and plinth joining kit H=100mm (flanges included).

| Description | Code | | | Q.ty |
|-----------------------------------------|---------|--|--|------|
| Blind door cabinet 2000x800x600mm | ES2086K | | | 2 |
| Back plate 2000x800mm (HxW) | EA2080 | | | 2 |
| Back plate joining kit H=2000mm | EA2000 | | | 1 |
| No.2 blind side panels 2000x600mm (HxD) | EL2060K | | | 1 |
| Sliding flanges 800x600mm | EF8060 | | | 2 |
| Kit for joining cabinets | EV0003 | | | 1 |
| No.2 plinth flanges W=800mm | ZN8000 | | | 2 |
| No.2 plinth flanges D=600mm | ZN6000 | | | 1 |



IS2 series pre-assembled structure dim.: 2000x1600x600 (2105x1610x610)mm (external HxWxD) IP65 with blind door, back plate, side panels, sliding cable entry flanges and plinth H=100mm (flanges included).

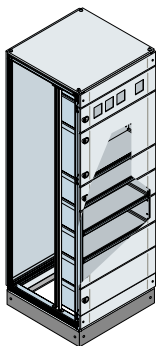
| Description | Code | | | Q.ty |
|-----------------------------------------|---------|--|--|------|
| Blind door cabinet 2000x1600x600mm | ES2076K | | | 1 |
| Back plate 2000x1600mm (HxW) | EA2016 | | | 1 |
| No.2 blind side panels 2000x600mm (HxD) | EL2060K | | | 1 |
| Sliding flanges 800x600mm | EF8060 | | | 2 |
| No.2 plinth flanges W=800mm | ZN8000 | | | 2 |
| No.2 plinth flanges D=600mm | ZN6000 | | | 1 |



Pre-assembled structures

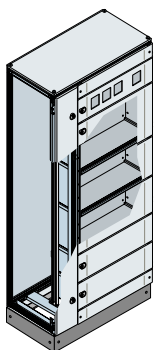
IS2 series pre-assembled structure dim.: 2000x600x600 (2105x610x610)mm (external HxWxD) IP65 PC version with glazed door for monitor, keyboard shelf, CPU module, side panels and plinth H=100mm (flanges included)

| Description | Code | | | Q.ty |
|-----------------------------------------|-----------|--|--|------|
| Cabinet for computer 2000x600x600mm | ES2066PCK | | | 1 |
| No.2 blind side panels 2000x600mm (HxD) | EL2060K | | | 1 |
| No.2 plinth flanges W=600mm | ZN6000 | | | 2 |



IS2 series pre-assembled structure dim.: 1800x600x600 (1805x594x610)mm (external HxWxD) IP65 version with Form 3 segregated compartments, with instrument panel and blind doors for PC-MCC, plinth H=100mm (flanges included)

| Description | Code | | | Q.ty |
|---------------------------------------------------|----------|--|--|------|
| Cabinet with compartments 1800x600x600mm (HxWxD) | ES1864VK | | | 1 |
| No.2 plinth flanges 100x600mm (HxW) | ZN6000 | | | 1 |
| Back plate x compartments 400x600mm (HxW) | EH1800 | | | 1 |
| Back plate x compartments 200x600mm (HxW) | EH2272K | | | 1 |
| Panel for No.2 72x72 instruments - 200x600mm(HxW) | EH3063K | | | 1 |
| Front panel for compartments 400x600mm (HxW) | EH0018 | | | 6 |
| Front panel for compartments 200x600mm (HxW) | EH6018K | | | 2 |
| No.2 flange zoccolo 100x400mm (hxl) | ZN4000 | | | 1 |

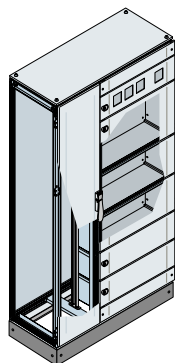


IS2 series pre-assembled structure dim.: 1800x800x400 (1805x794x410)mm. (external HxWxD) IP65 version with Form 3 segregated compartments, cable riser W=200mm, with instrument panel and blind doors for PC-MCC, plinth H=100mm (flanges included)

| Description | Code | | | Q.ty |
|----------------------------------------------------------|------------|--|--|------|
| Cabinet with compartments 1800x800x400+cable cont. W=200 | ES1884MF2K | | | 1 |
| Back plate x compartments 400x600mm (hxxw) | EH4063 | | | 1 |
| Back plate x compartments 300x600mm (hxxw) | EH3060 | | | 2 |
| Back plate x compartments 200x600mm (HxW) | EH2060 | | | 3 |
| Panel for No.2 72x72 instruments - 200x600mm(HxW) | EH7262K | | | 1 |
| Front panel for compartments 200x600mm (HxW) | EH2061K | | | 2 |
| Front panel for compartments 300x600mm (HxW) | EH3061K | | | 2 |
| Front panel for compartments 400x600mm (HxW) | EH4061K | | | 1 |
| No.2 plinth flanges 100x800mm (HxW) | ZN8000 | | | 1 |
| No.2 plinth flanges 100x400mm (HxW) | ZN4000 | | | 1 |

IS2 Enclosures

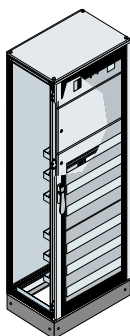
Examples of configurations



Pre-assembled structures

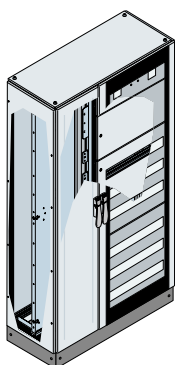
IS2 series pre-assembled structure dim.: 1800x1000x400 (1805x994x410)mm. (external HxWxD) IP65 version with Form 3 segregated compartments, cable riser W=400mm, with instrument panel and blind doors for PC-MCC, plinth H=100mm (flanges included).

| Description | Code | | Q.ty |
|---------------------------------------------------------------|------------|--|------|
| Cabinet with compartments 1800x1000x400+cable container W=400 | ES1804MF4K | | 1 |
| Back plate x compartments 400x600mm (HxW) | EH4063 | | 1 |
| Back plate x compartments 300x600mm (HxW) | EH3060 | | 2 |
| Back plate x compartments 200x600mm (HxW) | EH2060 | | 3 |
| Panel for No.2 72x72 instruments - 200x600mm (HxW) | EH7262K | | 1 |
| Front panel for compartments 200x600mm (HxW) | EH2061K | | 2 |
| Front panel for compartments 300x600mm (HxW) | EH3061K | | 2 |
| Front panel for compartments 400x600mm (HxW) | EH4061K | | 1 |
| No.2 plinth flanges 100x1000mm (HxW) | ZN1000 | | 1 |
| No.2 plinth flanges 100x1000mm (HxW) | ZN4000 | | 1 |



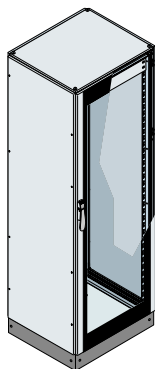
IS2 series pre-assembled structure dim.: 1800x600x400 (1805x594x410)mm. (external HxWxD) IP65 modular version, with instrument panel and glazed door, DIN panels, plinth H=100mm (flanges included).

| Description | Code | | Q.ty |
|---------------------------------------------------|----------|--|------|
| Glazed door cabinet 1800x600x400mm | ES1864VK | | 1 |
| No.2 plinth flanges 100x600mm (HxW) | ZN6000 | | 1 |
| No.2 uprights H=1800mm x DIN panels | EH1800 | | 1 |
| Panel for No.2 72x72 instruments - 200x600mm(HxW) | EH2272K | | 1 |
| Blind panel 300x600mm (HxW) | EH3063K | | 1 |
| DIN rail W=600mm (18 mod.)+front supp. | EH0018 | | 6 |
| Panel 3x18 DIN mod. 600x600mm (HxW) | EH6018K | | 2 |
| No.2 plinth flanges 100x400mm (HxW) | ZN4000 | | 1 |



IS2 series mounted structure, dimensions: 1800x1200x400mm (1805x1210x410mm external HxWxD). IP65 modular version with cable riser W=400mm, instrument panel, DIN panels, cabling on mounting plate and plinth H=100mm (flanges included).

| Description | Code | | Q.ty |
|--------------------------------------------------------------|------------|--|------|
| Cabinet+Cable container W=400 transparent door 1800x1200x400 | ES1824VC4K | | 1 |
| No.2 plinth flanges 100x600mm (HxW) | ZN6000 | | 2 |
| No.2 plinth flanges 100x400mm (HxW) | ZN4000 | | 1 |
| Back plate for bench cabling 1800x800mm (HxW) | EX1880 | | 1 |
| DIN rail l=800mm (18 mod.)+ rear support | GD1530 | | 6 |
| Panel x No.2 instruments 72x72-200x800mm (HxW) | EH3272K | | 1 |
| Blind panel 300x800mm (HxW) | EH3082K | | 1 |
| Panel 3x18 DIN mod. 600x800mm (HxW) | EH6029K | | 2 |
| No.2 blind side panels 1800x400mm (HxD) | EL1840K | | 1 |
| No.2 rails for sliding back plate | EB4101 | | 1 |
| No.2 uprights for modular apparatus | EH1800 | | 1 |

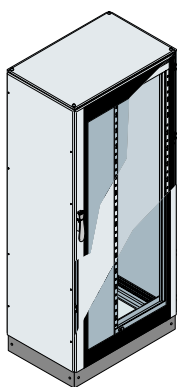


Pre-assembled structures

IS2 series pre-assembled structure dim.: 2000x600x500 (2105x610x510)mm. (external HxWxD) IP65 version 19" rack with 42 fixed HE, side panels, glazed door, plinth H=100mm (flanges included).

| Description | Code | | | Q.ty |
|-----------------------------------------|----------|--|--|------|
| Glazed door cabinet 2000x600x500mm | ES2065VK | | | 1 |
| 19" rack frame 2000x600mm 42 fixed HE | EG2000 | | | 1 |
| No.2 blind side panels 2000x500mm (HxD) | EL2050K | | | 1 |
| No.2 plinth flanges 100x600mm (HxW) | ZN6000 | | | 1 |
| No.2 plinth flanges 100x500mm (HxW) | ZN5000 | | | 1 |

5

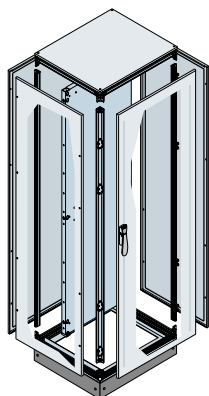


IS2 series mounted structure, 2000x800x500mm dimensions (2105x810x510mm external HxWxD), IP65 19" 40 HE swing offcentre rack version, side panels, transparent door, plinth H=100mm (flanges included).

| Description | Code | | | Q.ty |
|----------------------------------------------|----------|--|--|------|
| Cabinet with transparent door 2000x800x500mm | ES2085VK | | | 1 |
| 40HE swing off-centre rack frame 2000x800mm | EG2003K | | | 1 |
| No.2 blind side panels 2000x500mm (HxD) | EL2050K | | | 1 |
| No.2 plinth flanges 100x800mm (HxW) | ZN8000 | | | 1 |
| No.2 plinth flanges 100x500mm (HxW) | ZN5000 | | | 1 |

IS2 Enclosures

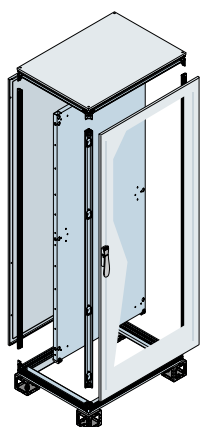
Examples of configurations



Built-up structures

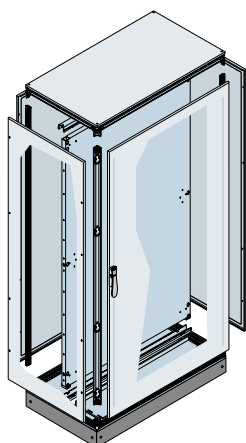
IS2 series structure kit dim.: 2000x600x500 (2105x610x510)mm. (external HxWxD) IP65 with blind door, back plate, side panels, plinth and flange H=100mm (cable entry flanges excluded).

| Description | Code | | | Q.ty |
|-----------------------------------------|----------|--|--|------|
| Base/Top 600x500mm (WxD) | EK6050KN | | | 1 |
| No.4 uprights H=2000mm | EM2000 | | | 1 |
| Back plate 2000x600mm (HxW) | EA2060 | | | 1 |
| No.2 blind side panels 2000x500mm (HxD) | EL2050K | | | 1 |
| No.2 plinth flanges W=600mm | ZN6000 | | | 1 |
| No.2 plinth flanges D=500mm | ZN5000 | | | 1 |
| Blind door 2000x600mm (HxW) | EC2060K | | | 1 |
| Rear panel 2000x600mm (HxW) | EP2060K | | | 1 |



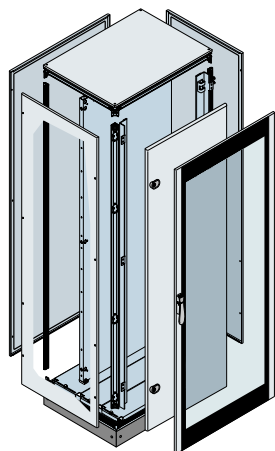
IS2 series structure kit dim.: 2000x800x600 (2105x794x610) mm. (external HxWxD) IP65 with blind door, back plate and plinth H=100mm (flange excluded).

| Description | Code | | | Q.ty |
|-----------------------------|----------|--|--|------|
| Base/Top 800x600mm (WxD) | EK8060KN | | | 1 |
| No.4 uprights H=2000mm | EM2000 | | | 1 |
| Back plate 2000x800mm (HxW) | EA2080 | | | 1 |
| Blind door 2000x800mm (HxW) | EC2080K | | | 1 |
| Rear panel 2000x800mm (HxW) | EP2080K | | | 1 |



IS2 series structure kit dim.: 2000x1000x600 (2105x1010x610) mm. (external HxWxD) IP65 with blind door, oversized back plate, side panels, sliding cable entry flanges and plinth H=100mm (flanges included).

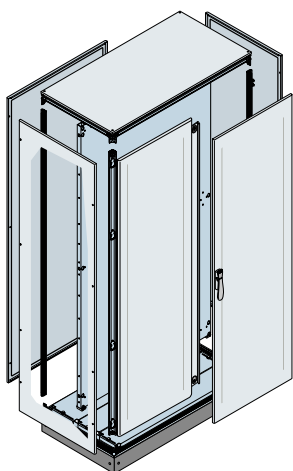
| Description | Code | | | Q.ty |
|----------------------------------------------|----------|--|--|------|
| Base/Top 1000x600mm (WxD) | EK1060KN | | | 1 |
| No.4 uprights H=2000mm | EM2000 | | | 1 |
| Oversized back plate+tracks 2000x1000mm(HxW) | EA2110 | | | 1 |
| No.2 blind side panels 2000x600mm (HxD) | EL2060K | | | 1 |
| Sliding flanges 1000x600mm | EF1060 | | | 1 |
| No.2 plinth flanges W=1000mm | ZN1000 | | | 1 |
| No.2 plinth flanges D=600mm | ZN6000 | | | 1 |
| Blind door 2000x1000mm (HxW) | EC2012K | | | 1 |
| Rear panel 2000x1000mm (HxW) | EP2010K | | | 1 |



Built-up structures

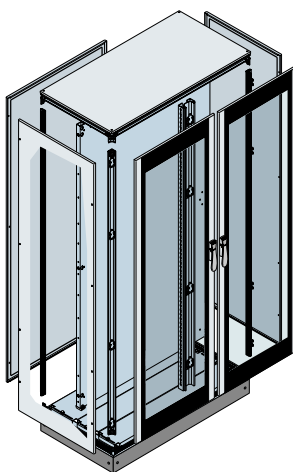
IS2 series structure kit dim.: 2200x800x600 (2305x810x610)mm. (external HxWxD) IP65 with glazed door, Inner door, back plate, side panels, removable cable entry flanges and plinth H=100mm (flanges included).

| Description | Code | | Q.ty |
|-----------------------------------------|----------|--|------|
| Base/Top 800x600mm (WxD) | EK8060KN | | 1 |
| No.4 uprights H=2200mm | EM2200 | | 1 |
| No.2 blind side panels 2200x600mm (HxD) | EL2260K | | 1 |
| Glazed door 2200x800mm (HxW) | ET2280K | | 1 |
| Inner door 2200x800mm (HxW) | EE2280K | | 1 |
| Back plate 2200x800mm (HxW) | EA2280 | | 1 |
| Removable flanges 800x600mm | EF8061 | | 1 |
| No.2 plinth flanges W=800mm | ZN8000 | | 1 |
| No.2 plinth flanges D=600mm | ZN6000 | | 1 |
| Rear panel 2200x800mm (HxW) | EP2280K | | 1 |



IS2 series structure kit dim.: 2000x1000x600mm (2105x1010x610mm external HxWxD) IP65 with double doors closing with overlap, back plate, side panels, built-up cable entry flanges and plinth H=100mm (flanges included).

| Description | Code | | Q.ty |
|-----------------------------------------|------------|--|------|
| Base/Top 1000x600mm (WxD) | EK1060KN | | 1 |
| No.4 uprights H=2000mm | EM2000 | | 1 |
| No.2 blind side panels 2000x600mm (HxD) | EL2060K | | 1 |
| Blind door for double door version | EC2080FC5K | | 1 |
| Blind door with overlap | ED2010SK | | 1 |
| Back plate 2000x1000mm (HxW) | EA2010 | | 1 |
| Removable flanges 1000x600mm | EF1061 | | 1 |
| No.2 plinth flanges W=1000mm | ZN1000 | | 1 |
| No.2 plinth flanges D=600mm | ZN6000 | | 1 |
| Rear panel 2000x1000mm (HxW) | EP2010K | | 1 |



IS2 series structure kit dim.: 2000x1200x600mm (2105x1010x610mm external HxWxD) IP65 with double doors closing with overlap on intermediate upright, back plate, side panels, built-up cable entry flanges and plinth H=100mm (flanges included).

| Description | Code | | Q.ty |
|-----------------------------------------|------------|--|------|
| Base/Top 1000x600mm (WxD) | EK1260KN | | 1 |
| No.4 uprights H=2000mm | EM2000 | | 1 |
| No.2 blind side panels 2000x600mm (HxD) | EL2060K | | 1 |
| Glazed door for double door version | EC2080FV6K | | 2 |
| Intermediate upright H=2000mm | EM2001 | | 1 |
| Pair of intermediate crosspieces | EB6100 | | 1 |
| Back plate 2000x1000mm (HxW) | EA2013 | | 1 |
| Removable flanges 1000x600mm | EF6061 | | 2 |
| No.2 plinth flanges D=600mm | ZN6000 | | 3 |
| Rear panel 2000x1200mm (HxW) | EP2012K | | 1 |

IS2 Enclosures EMC

General characteristics and applications

The range of IS2 enclosures has been enriched with the EMC (Electromagnetic Compatibility) version. The new version has undergone shielding efficiency tests with success according to the MIL STD 285: 1956 Standard.

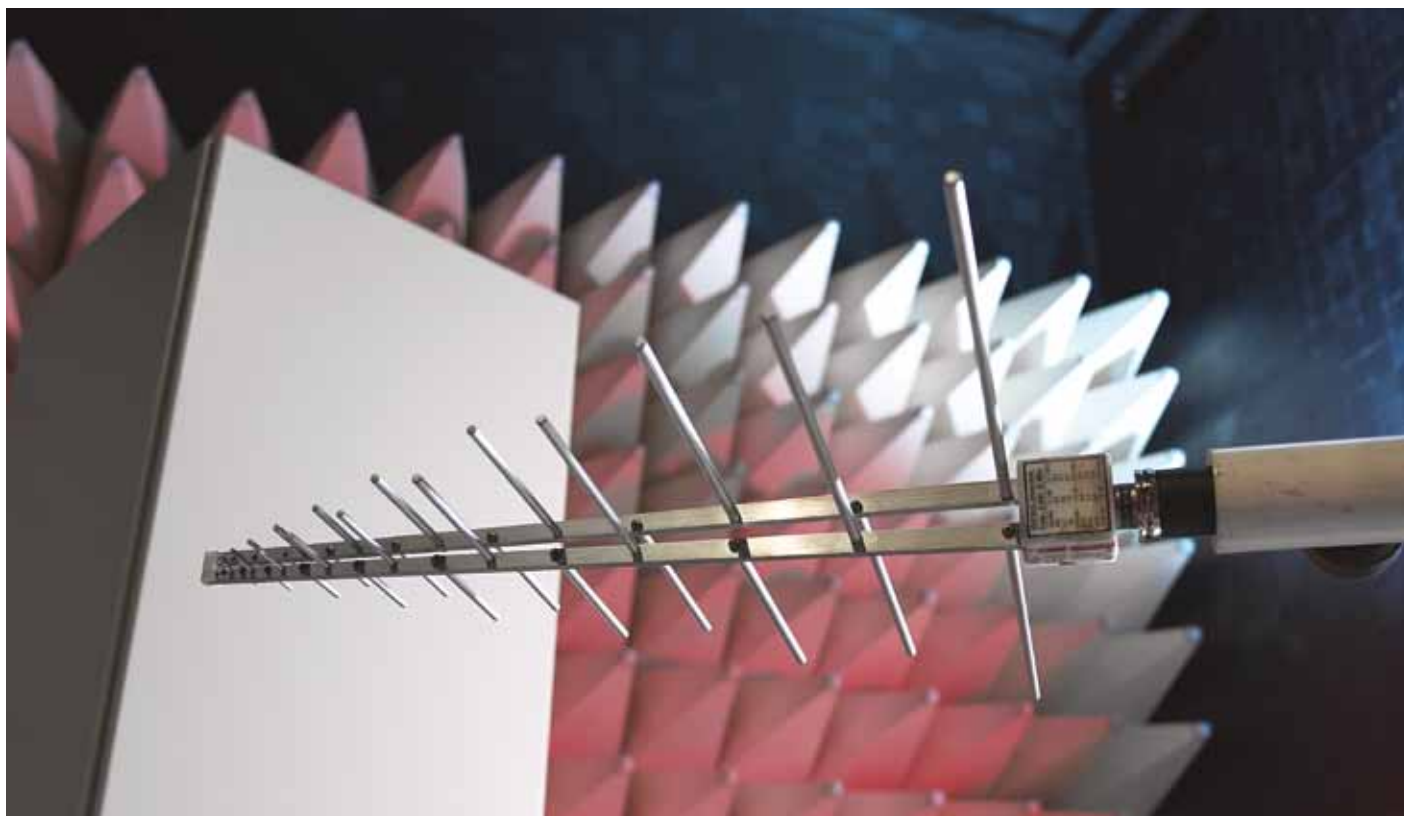
This series of products is suitable for making small and medium-sized electric switchboards installed on the floor, whose range is available in 4 different dimensions:

- height 2000mm
- width 600 and 800mm
- depth 600 and 800mm
- version: with blind door/glazed door

of components in the operation and regulation electronics and the high processing speeds of signals increasingly often leave a possibility of introducing errors which can be attributed to electromagnetic interference. These interferences may be caused continuously, periodically or at random, from internal or external sources, which generate electric, magnetic or electromagnetic fields.

The electromagnetic compatibility problem also requires attention when selecting enclosures and cabinets. The increased number

The suitability tests according to MIL STD 285: 1956 ("Attenuation measurements for enclosures, electromagnetic shielding, for



The range of IS2 EMC enclosures is characterized by the IP54 degree of protection, tested and checked according to the EN 60529 Standard.

electronic test purposes, method of") have confirmed conformity of the IS2 metalwork structures with the requirements of the standard. The attenuation level (measured in dB) remains at high levels for a wide spectrum of frequencies (from 30MHz to 10GHz).

The steel sheet enclosures are particularly suited to making EMC version operating mechanisms and plants.

The enclosure is painted both externally and internally to guarantee greater resistance to oxidation. The standard colour is orange peel RAL7035.

Special attention has been paid in selecting the conductible materials for the gaskets and in making the conductive connection, as free of holes and slots as possible which can considerably reduce the efficiency value of the cabinet shielding.

The high shielding characteristics are such as to allow the use of the IS2 EMC enclosures in the telephone, aerospace, naval, medical, military and information technology fields, as well as in all uses where there are active components sensitive to electromagnetic pollution.

5



IS2 Enclosures EMC

General characteristics and applications

Front doors with 120° opening made of galvanized and painted steel sheet 2,00mm thick. They have an internal conductive gasket made of neoprene foam coated with a conductive cloth.



Structure

- Made of galvanized steel sheet.
- Painted steel panelling 1,5mm thick and 2,00mm doors.
- IP54 degree of protection verified according to the IEC 60529 Standard.
- Galvanized sheet internal plate 2,5mm thick. The plate can be adjusted in depth with a pitch of 25mm.
- Placing two or more structures side by side is possible using a special conductive basket able to guarantee both the degree of protection and continuity of the conductive electrical parts.



Door

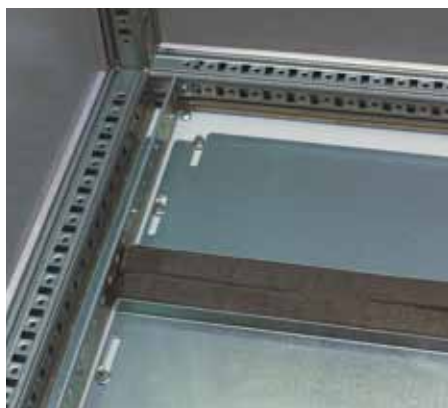
- Front doors with 120° opening made of galvanized and painted steel sheet 2,00mm thick. They have an internal conductive gasket made of neoprene foam coated with a conductive cloth. The blind doors are fitted with an internal tube section which increases the rigidity and allows simple assembly of wiring ducts and other accessories. The standard opening is from left to right, with the possibility of modification (inverting the assembly and changing the direction the handle opens). The glazed door is made up of standard glass, metallic mesh and hardened glass 3mm thick. The metallic mesh, placed between the two pieces of glass, guarantees high electromagnetic shielding thanks to contact with the metallic part of the door.
- Lock with double tongue insert and hooking device with four closing points.
- Screwed rear panel, made of galvanized and painted steel sheet 1,5mm thick. It has an internal conductive gasket made of neoprene foam coated with a conductive cloth. The panel can be removed and replaced with a door.
- Internal Inner door made of galvanized painted steel sheet 2,00mm thick, fixed onto a pair of internal uprights and positioned at a distance of 74mm from the external front door. The door and the side panels can be fitted with natural and forced ventilation kits, which are EMC approved as well.

The IS2 EMC enclosures can be fitted with modular panel accessories in widths 600 and 800mm made of steel sheet 1,5mm thick.



Distribution enclosure

- The modular panels are available in the version with DIN cut-out for one or three rows of modular apparatus, in the blind version and for measuring instruments 72x72mm and 96x96mm. All the panels have 200mm vertical modularity and are available in the fixed or hinged (using an accessory) version. The panels with 600mm wide DIN cut-out allow installation of 18 or 24 DIN modules, whereas those 800mm wide allow installation of 29 or 36 DIN modules according to whether the wiring duct is placed at the front or rear in relation to the DIN rail. Installation of the modular panels in the IS2 enclosures requires the use of special uprights for modular panels which are screwed onto the enclosure structure. The useful space for installation of the modular panels is always 100mm less than the nominal dimension of the cabinet. The DIN rails are ordered separately and the kit includes the rail, the supports and the small fixing items. Finally, the modular galvanized internal plates are available (in the 600 and 800mm widths and in the 200, 300 and 400mm heights). The modular plates are fixed using a kit of side crosspieces to be ordered separately according to the depth of the enclosure.



Cable entry and plinth

- The cable entry flanges are of the sliding type and are fitted with a basket coated with a special conductive netting to limit dispersions as far as possible even in the areas with possible openings.
- Palletisable plinths made up of four angle pieces H=100mm already fixed to the base of the structure. The four closing flanges must be ordered separately.

IS2 Enclosures EMC

General characteristics and applications

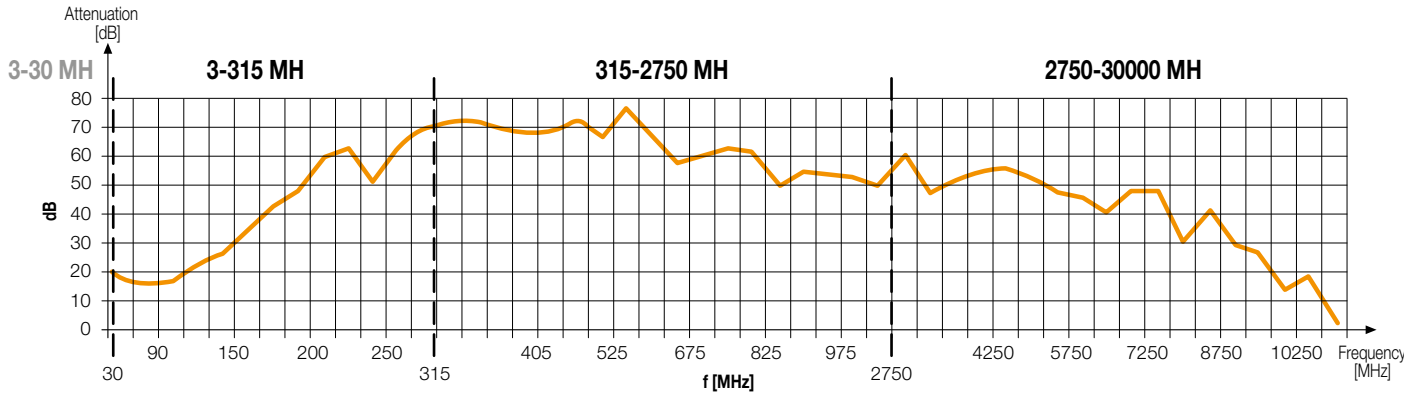
For the range of IS2 EMC enclosures, the uprights with the section dedicated to mounting the panels and 19" Rack accessories are available, destined for various applications such as installation of electronic cards or to make small enclosures for local networks (LAN).



Enclosure with 19" rack frame

- The fixed 19" rack uprights, swing type and of partial height are made of galvanized sheet 2,00mm thick and are applied onto the structure of the IS2 enclosures with 600-800mm width using special screws: it is possible to install up to a maximum of 40 HE vertical modules. The buffer panels are available with dimensions up to 20 HE modules, are blind and made of opaque natural colour anodized aluminium 3,00mm thick.

Attenuation values



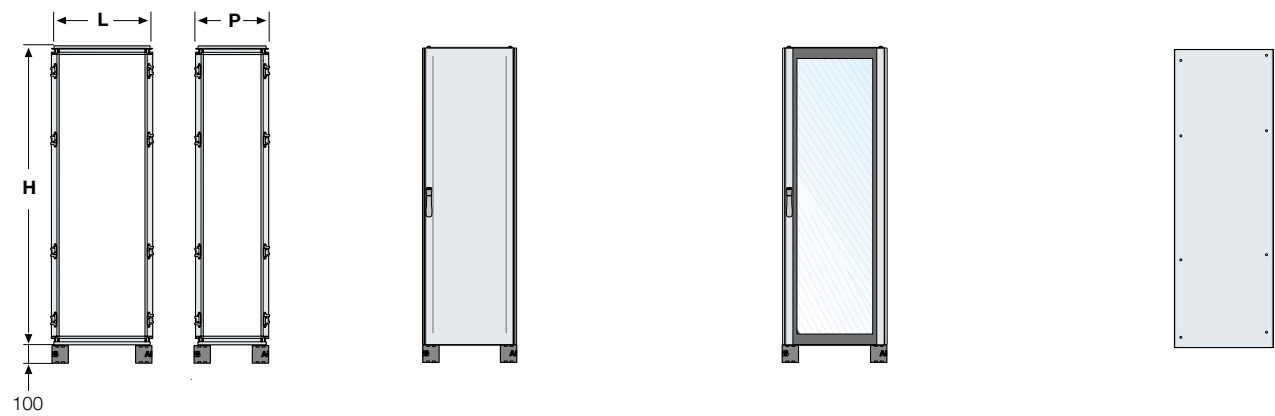
Technical characteristics

| | | |
|------------------------------|----------|---------------------|
| Conformity with the Standard | | IEC 62208 |
| Degree of protection | | IP54 (IEC 60529) |
| Operating climate (t°/rh%) | costant | 23°C/83% - 40°C/93% |
| | variable | 23°C/98% - 40°C/98% |
| Type of material | | Metallic |
| Installation site | | Indoors |
| Fixing method | | floor |
| Normal service conditions | | |
| - ambient temperature | | da -5 a +40°C |

IS2 Enclosures EMC

Selection of the structure

Quick selection tables



| Overall dimensions | | | | | |
|--------------------|---------|---------|-------------------------|-------------------------|-----------------------|
| H mm | W mm | D mm | Cabinet with blind door | Cabinet with blind door | Blind side panel IP54 |
| 2000 | 600 | 600 | ES2066EMCK | ES2066VEMCK | 2 x EL2060EMCK |
| | 800 | | ES2086EMCK | ES2086VEMCK | |
| | 600 | 800 | ES2068EMCK | ES2068VEMCK | 2 x EL2080EMCK |
| | 800 | | ES2089EMCK | ES2089VEMCK | |

Versions available

- Cabinet with blind/glazed door
- Enclosure with fixed and swing 19" rack frame
- Distribution enclosure with DIN rails and panels

IS2 Enclosures EMC

Ordering codes



Pre-assembled structures

IP54 - EMC Cabinets with blind door

Structure with removable roof complete with blind door, screwed-on rear panel, sliding fairlead flanges and plinth H=100mm made up of four angle pieces. Painted orange peel RAL 7035 colour inside/outside. To be completed with plinth flanges, cable tightening plates, side panels and internal equipment.

| Description | Dimensions (mm) | | Code | | | Confezione/ No.pezzi |
|-------------------------|-----------------|---------|------------|--|--|-------------------------|
| | H | WxD | | | | |
| Cabinet with blind door | 2000 | 600x600 | ES2066EMCK | | | 1/1 |
| Cabinet with blind door | | 800x600 | ES2086EMCK | | | 1/1 |
| Cabinet with blind door | | 600x800 | ES2068EMCK | | | 1/1 |
| Cabinet with blind door | | 800x800 | ES2089EMCK | | | 1/1 |

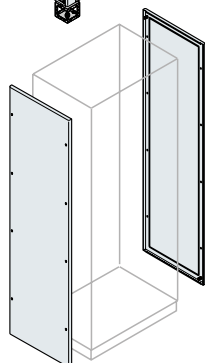
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IP54 - EMC Cabinets with glazed door

Structure with removable roof complete with glazed door, screwed-on rear panel, sliding fairlead flanges and plinth H=100mm made up of four angle pieces. Painted orange peel RAL 7035 colour inside/outside. To be completed with plinth flanges, cable tightening plates, side panels and internal equipment.

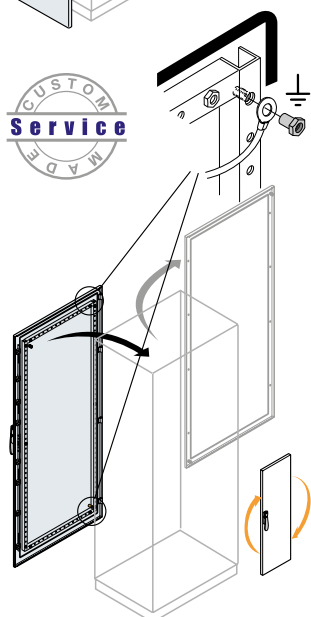
| Description | Dimensions (mm) | | Code | | | Confezione/ No.pezzi |
|--------------------------|-----------------|---------|-------------|--|--|-------------------------|
| | H | WxD | | | | |
| Cabinet with glazed door | 2000 | 600x600 | ES2066VEMCK | | | 1/1 |
| Cabinet with glazed door | | 800x600 | ES2086VEMCK | | | 1/1 |
| Cabinet with glazed door | | 600x800 | ES2068VEMCK | | | 1/1 |
| Cabinet with glazed door | | 800x800 | ES2089VEMCK | | | 1/1 |



IP54 - EMC Blind side panel

Panel made of sheet 1,5mm thick, fitted with polyurethane gasket, painted orange peel RAL 7035 colour inside/outside, complete with earthing pins.

| Description | Dimensions (mm) | | Code | | | Confezione/ No.pezzi |
|------------------|-----------------|-----|------------|--|--|-------------------------|
| | H | D | | | | |
| Blind side panel | 2000 | 600 | EL2060EMCK | | | 1/1 |
| Blind side panel | | 800 | EL2080EMCK | | | 1/1 |

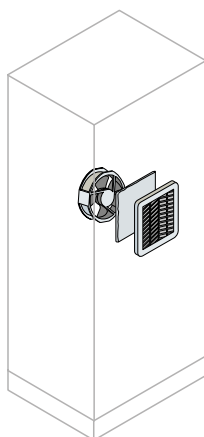
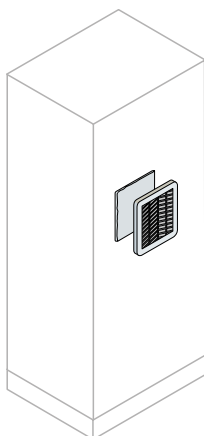
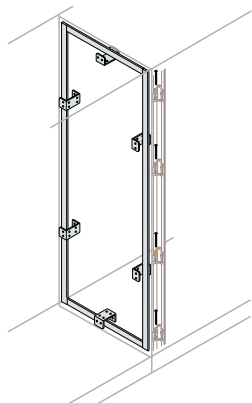


Replacement of rear panel with door

The supply consist in replacing the rear panel with a blind/glazed door mounted directly in the factory.

| Description | Dimensions (mm) | | Code | Custom Made Service | | Package/ No. of pieces |
|-------------------------------------------|-----------------|-----|-------------|---------------------------|--|------------------------------|
| | H | D | | | | |
| Replacement of rear panel with blind door | 2000 | 600 | EC2060EMCKM | ■ | | 1/1 |
| Replacement of rear panel with blind door | | 800 | EC2080EMCKM | ■ | | 1/1 |
| Replacement of rear panel with glass door | | 600 | ET2060EMCKM | ■ | | 1/1 |
| Replacement of rear panel with glass door | | 800 | ET2080EMCKM | ■ | | 1/1 |

■ The "Custom Made Service" is valid only for structures assembled at the factory, for more information please contact your local sales network.



Completion of structures

Kit for joining cabinets - EMC

The kit consists of 6 squares and adhesive EMC conductive gasket. Joining is made from the inside by means of the 6 squares which can be mounted for the full height or depth of the enclosure.

| Description | Code | | | Package/ No. of pieces |
|------------------------------|-----------|--|--|---------------------------|
| Kit for joining EMC cabinets | EV0006EMC | | | 1/1 |

IP21/54 shielded EMC natural ventilation Kit

Grilles made of insulating material (PC/ABS self-extinguishing UL94V-0) RAL7035 colour, complete with filter cloth with high dust accumulation capacity (600g/m²), able to reduce maintenance interventions (cleaning by washing with water or beating). IP21 degree of protection without filter, IP54 with filter, fitted with pre-mounted EMC tightness gasket.

| Description | Dimensions (mm) | | Code | | | Package/ No. of pieces |
|--------------------------------|-----------------|-----|------------|--|--|---------------------------|
| | W | H | | | | |
| Panel + air passage filter kit | 150 | 150 | EN0150EMCK | | | 1/1 |
| Panel + air passage filter kit | 250 | 250 | EN0250EMCK | | | 1/1 |

IP54 shielded EMC forced ventilation Kit

Grilles made of insulating material (PC/ABS self-extinguishing UL94V-0), RAL7035 colour, complete with filter cloth with high dust accumulation capacity (600g/m²), able to reduce maintenance interventions (cleaning by washing with water or beating). IP54 degree of protection with filter, fitted with pre-mounted EMC tightness gasket. Operating temperature -20 °C + 70 °C, noise 50 dB (A). The fans allow reversible flow of air by means of the fan rotation.

| Description | Consumption (W) | Power (m³/h) | Dimensions (mm) | | Code | | | Package/ No. of pieces |
|-------------------------------|--------------------|-----------------|--------------------|-----|------------|--|--|---------------------------|
| | | | W | H | | | | |
| With fan at 230V - IP54 | | | | | | | | |
| Grille+air passage filter Kit | 20 | 57 | 150 | 150 | EN1150EMCK | | | 1/1 |
| Grille+air passage filter Kit | 59 | 240 | 250 | 250 | EN1250EMCK | | | 1/1 |
| With fan at 115V - IP54 | | | | | | | | |
| Grille+air passage filter Kit | 20 | 57 | 150 | 150 | EN2150EMCK | | | 1/1 |
| Grille+air passage filter Kit | 59 | 240 | 250 | 250 | EN2250EMCK | | | 1/1 |

To complete the structure, see accessories from page 5/28

Wiring ducts

General characteristics

| | |
|------------------------------------------------|-----|
| Halogen free wiring ducts with vertical slots | 6/2 |
| Thermoplastic wiring ducts with vertical slots | 6/3 |
| Flexible thermoplastic wiring ducts | 6/4 |

Ordering codes

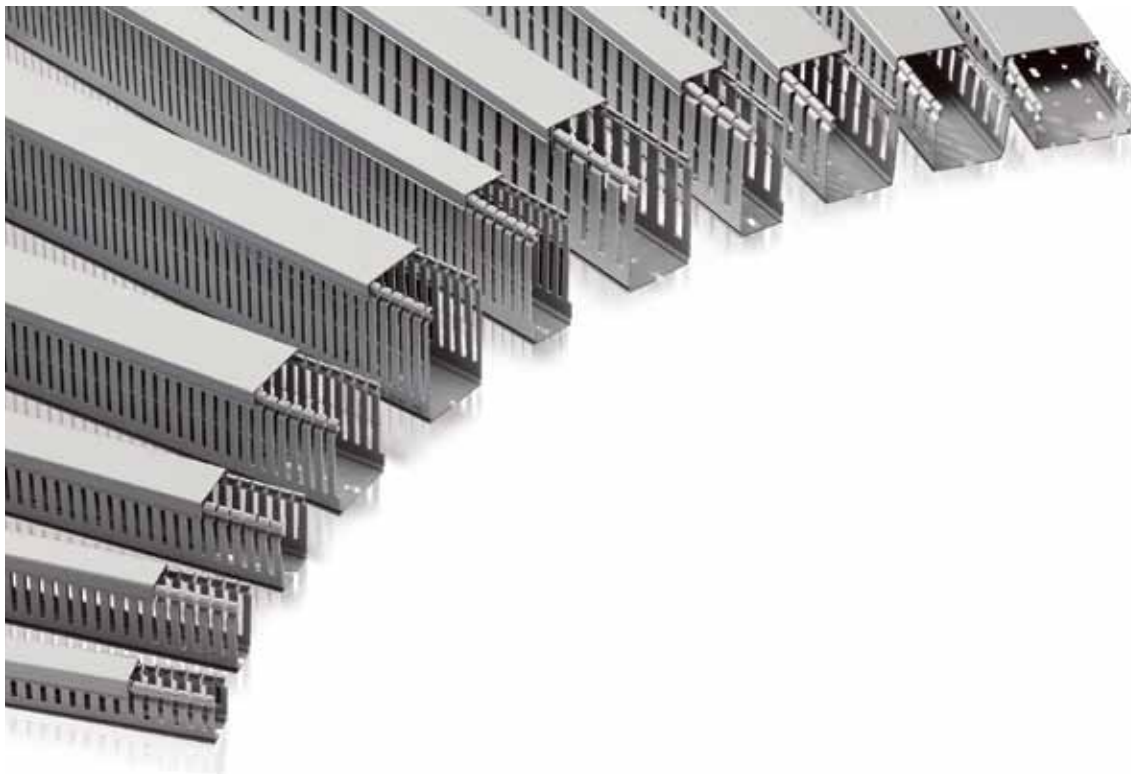
| | |
|-------------------------------------------------|-----|
| Halogen free wiring ducts with vertical slots | 6/5 |
| Thermoplastic wiring ducts with vertical slotsi | 6/6 |
| Flexible thermoplastic wiring ducts | 6/7 |
| Accessoires | 6/8 |

Wiring ducts

General characteristics

Halogen-free thermoplastic material in compliance with VDE 0472 Part 815
Standard: Br + Cl < 0.2 %, F < 0.1 %

- colour RAL 7035 grey
- halogen-free thermoplastic material in compliance with VDE 0472 Part 815 Standard: Br + Cl < 0.2 %, F < 0.1 %
- smoke toxicity index: 18.0 according to NF X70-100 and NF F16-101 Standards
- smoke opacity index*: Dm 377.0 (2.3 mm) V0F4 386.2 (2.3 mm) in compliance with NF X10-702 Standard (reference NF F16-101)* in the event of fire, it is extremely important for the smoke opacity level to be as low as possible during the first 4 minutes in order to allow people to move away from the areas of risk
- on the basis of the values obtained during the smoke opacity and toxicity tests, the material falls within class F2 (in compliance with NF F16-101 Standard)
- in conformity with the UNI EN ISO 11925-2 Standard (test with use of a single flame)
- insulating, shock-proof, self-extinguishing material in compliance with UL 94 V0 Standard and resistant to abnormal heat and fire up to 850°C (glow wire test) in compliance with IEC 695-2-1 Standard
- dimensional stability from -40 to +100 °C
- resistant to acids, oils and greases
- absence of burrs, rounded internal edges
- dimensions and resilience of ribs guarantee repeated splaying during the wiring phase
- controlled splaying of sides for guaranteeing a perfect seal of the cover in vertical sections and in the case of high temperatures
- two prearranged trimming lines: one line at the basis of ribs in order to remove them by bending them towards the outside direction and another line at the basis of the wall in order to cut the edge when two connection ducts are used
- cable holder mouldings halfway along the straight section of the ribs in 80 mm high ducts
- standard 2-metre length
- trunkings comply with the EN 50085-2-3 European Standard
- fields of application: residential, industrial and commercial
- compliance to RoHS directive



Thermoplastic wiring ducts with vertical slots. Plastic, insulating, shock-proof, self-extinguishing material in compliance with UL 94 V0 Standard and resistant to abnormal heat and fire up to 960 °C (glow wire test) in compliance with IEC 695-2-1 Standard

- colour RAL 7030 grey
- minimum storage/transport temperature -5 °C
- minimum installation and usage temperature -15 °C
- maximum usage temperature +60 °C
- resistant to acids, oils and greases
- no burr, rounded-off inner edges
- new rib profile makes it easy to open and close the cover and guarantees that it clips on more safely
- designed to snap onto the Fix-O-rapid special accessory, suitable to be fastened both to DIN rail and base plate
- the ribs are cut using a special pressing process (rounding of the edges) producing wiring ducts completely free of burr and rough edges
- the dimensions and resilience of the ribs ensure repeated splaying during cabling
- controlled splaying of sides to ensure a perfect seal of the cover in the vertical sections and at high temperatures
- double trimming line, one at the base of the ribs so that they can be removed by bending them outwards and one at the base of the lateral sides so that the edge can be cut when two wiring ducts are branched
- cable holder mouldings half-way up the straight section of the ribs in 80 and 100-mm high wiring ducts
- cover can be opened without having to use a special tool
- can be mounted on horizontal or vertical surfaces even when the cover is on the bottom
- standard 2-metre length
- industrial application
- compliance to RoHS directive



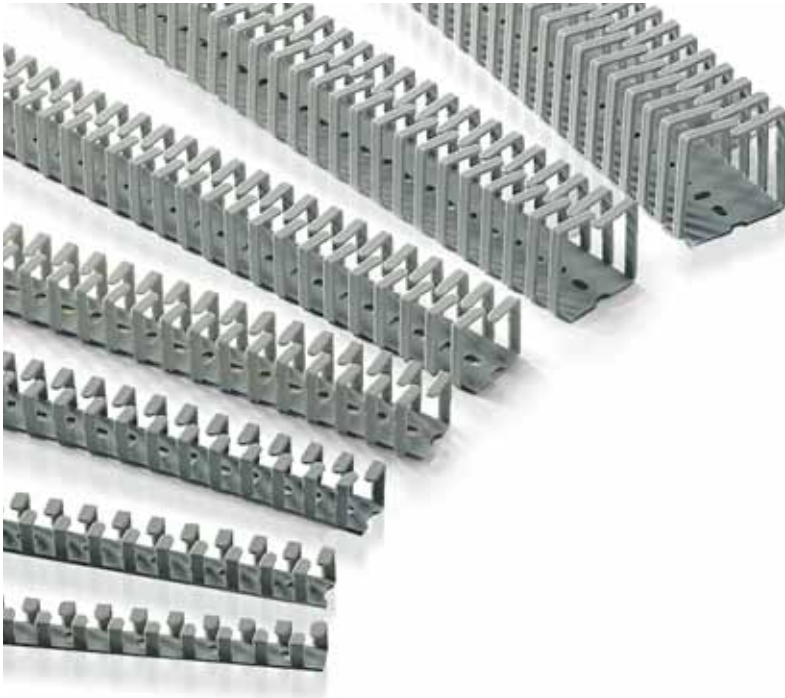
Wiring ducts

General characteristics

Flexible thermoplastic wiring ducts. Suitable for connecting panels and doors with compass-opening mechanisms and in general for applications where cabling is subject to bending and twisting.

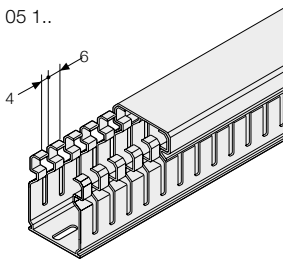
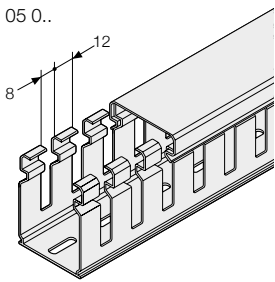
- colour RAL 7040 grey
- plastic, insulating, shock-proof, self-extinguishing material in compliance with UL 94 V2 Standard and resistant to permanent temperature of 80 °C and peaks up to 110 °C in compliance with IEC 216 Standards
- resistant to acids, oils and greases
- ribs alternate and angle slightly inwards to make it easier to insert and extract cables
- no covers so that cables can be constantly monitored
- possibility of fastening using screws and rivets or bi-adhesive tape which sticks strongly to the steel (pre-mounted)
- standard 500-mm length
- industrial application

6



Wiring ducts

Ordering codes



Halogen free wiring ducts with vertical slots

Halogen free wiring ducts with vertical slot grey RAL 7035

| Dimensioni (mm) | | Slot 8x12mm | Slot 4x6mm | Unit/ packmeters |
|-----------------|----|-------------|------------|---------------------|
| B | H | Code | Code | |
| 15 | 17 | 1SL9019A00 | 1SL9119A00 | 46 |
| 25 | 30 | 1SL9033A00 | 1SL9133A00 | 58 |
| 40 | 30 | 1SL9035A00 | 1SL9135A00 | 38 |
| 60 | 30 | 1SL9037A00 | 1SL9137A00 | 52 |
| 25 | 40 | 1SL9043A00 | 1SL9143A00 | 48 |
| 40 | 40 | 1SL9045A00 | 1SL9145A00 | 30 |
| 60 | 40 | 1SL9047A00 | 1SL9147A00 | 40 |
| 80 | 40 | 1SL9049A00 | 1SL9149A00 | 32 |
| 100 | 40 | 1SL9051A00 | 1SL9151A00 | 24 |
| 120 | 40 | 1SL9053A00 | 1SL9153A00 | 20 |
| 25 | 60 | 1SL9063A00 | 1SL9163A00 | 34 |
| 40 | 60 | 1SL9065A00 | 1SL9165A00 | 22 |
| 60 | 60 | 1SL9067A00 | 1SL9167A00 | 32 |
| 80 | 60 | 1SL9069A00 | 1SL9169A00 | 24 |
| 100 | 60 | 1SL9071A00 | 1SL9171A00 | 20 |
| 120 | 60 | 1SL9073A00 | 1SL9173A00 | 14 |
| 25 | 80 | 1SL9083A00 | 1SL9183A00 | 28 |
| 40 | 80 | 1SL9085A00 | 1SL9185A00 | 36 |
| 60 | 80 | 1SL9087A00 | 1SL9187A00 | 24 |
| 80 | 80 | 1SL9089A00 | 1SL9189A00 | 16 |
| 100 | 80 | 1SL9091A00 | 1SL9191A00 | 16 |
| 120 | 80 | 1SL9093A00 | 1SL9193A00 | 12 |

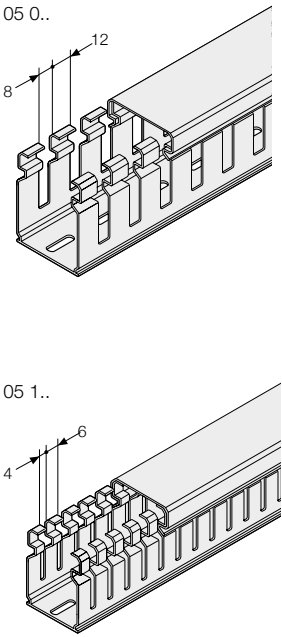
6

Spare covers

| Description | Code | Unit/ packmeters |
|---------------------|------------|---------------------|
| Trunking base 15mm | 1SL5316A00 | 2/200 |
| Trunking base 25mm | 1SL5317A00 | 2/60 |
| Trunking base 40mm | 1SL5318A00 | 2/40 |
| Trunking base 60mm | 1SL5319A00 | 2/24 |
| Trunking base 80mm | 1SL5320A00 | 2/16 |
| Trunking base 100mm | 1SL5321A00 | 2/48 |
| Trunking base 120mm | 1SL5322A00 | 2/36 |

For further information on the wiring ducts, please contact the Products for installation division of ABB SACE

Wiring ducts Ordering codes



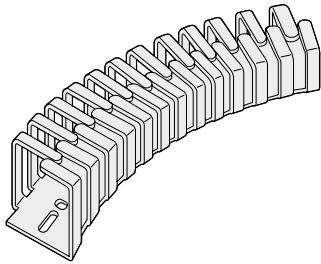
Lead free thermoplastic wiring ducts with vertical slots
Wiring ducts made of lead free thermoplastic material with grey RAL 7030 slots

| Dimensioni (mm) | | Slot 8x12mm | Slot 4x6mm | Unit/pack-meters |
|-----------------|-----|-------------|------------|------------------|
| B | H | Code | Code | |
| 15 | 17 | 05 019 | 05 119 | 92 |
| 25 | 30 | 05 033 | 05 133 | 116 |
| 40 | 30 | 05 035 | 05 135 | 80 |
| 60 | 30 | 05 037 | 05 137 | 52 |
| 25 | 40 | 05 043 | 05 143 | 96 |
| 40 | 40 | 05 045 | 05 145 | 60 |
| 60 | 40 | 05 047 | 05 147 | 40 |
| 80 | 40 | 05 049 | 05 149 | 32 |
| 100 | 40 | 05 051 | 05 151 | 24 |
| 120 | 40 | 05 053 | 05 153 | 20 |
| 25 | 60 | 05 063 | 05 163 | 68 |
| 40 | 60 | 05 065 | 05 165 | 44 |
| 60 | 60 | 05 067 | 05 167 | 32 |
| 80 | 60 | 05 069 | 05 169 | 24 |
| 100 | 60 | 05 071 | 05 171 | 18 |
| 120 | 60 | 05 073 | 05 173 | 14 |
| 25 | 80 | 05 083 | 05 183 | 56 |
| 40 | 80 | 05 085 | 05 185 | 36 |
| 60 | 80 | 05 087 | 05 187 | 24 |
| 80 | 80 | 05 089 | 05 189 | 16 |
| 100 | 80 | 05 091 | 05 191 | 16 |
| 120 | 80 | 05 093 | 05 193 | 12 |
| 25 | 100 | 05 094 | 05 194 | 40 |
| 40 | 100 | 05 095 | 05 195 | 28 |
| 60 | 100 | 05 096 | 05 196 | 20 |
| 80 | 100 | 05 097 | 05 197 | 14 |
| 100 | 100 | 05 098 | 05 198 | 8 |
| 150 | 100 | 05 099 | 05 199 | 8 |

Spare covers

| Description | Code | Imballo/metri |
|---------------------|--------|---------------|
| Trunking base 15mm | 05 300 | 2/200 |
| Trunking base 25mm | 05 302 | 2/60 |
| Trunking base 40mm | 05 304 | 2/40 |
| Trunking base 60mm | 05 306 | 2/24 |
| Trunking base 80mm | 05 308 | 2/16 |
| Trunking base 100mm | 05 310 | 2/48 |
| Trunking base 120mm | 05 312 | 2/36 |
| Trunking base 150mm | 05 314 | 2/28 |

For further information on the wiring ducts, please contact the Products for installation division of ABB SACE



exible thermoplastic wiring ducts

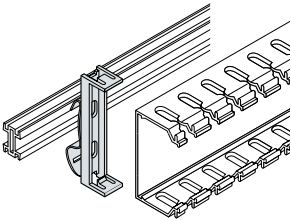
Flexible wiring duct

| Dimensioni (mm) | | Code | | | Unit/pack- pieces |
|--------------------------------------------|------|--------|--|--|----------------------|
| B | H | | | | |
| Slot pitch 7.5/5 - Standard length 500 mm. | | | | | |
| 12.5 | 12.5 | 05 400 | | | 112 |
| 16 | 16 | 05 402 | | | 84 |
| 20 | 20 | 05 405 | | | 112 |
| 25 | 25 | 05 410 | | | 70 |
| 30 | 30 | 05 415 | | | 50 |
| 40 | 40 | 05 420 | | | 50 |
| 50 | 50 | 05 425 | | | 32 |

For further information on the wiring ducts, please contact the Products for installation division of ABB SACE

Wiring ducts

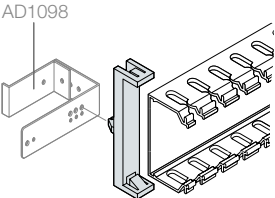
Ordering codes



Accessories

Fix-O-quick Quick clip for DIN rail

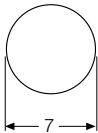
| Description | Code | | | Unit/pack-pieces |
|----------------------|--------|--|--|------------------|
| Trunking base 25 mm | 05 250 | | | 20/600 |
| Trunking base 40 mm | 05 252 | | | 20/600 |
| Trunking base 60 mm | 05 254 | | | 20/600 |
| Trunking base 80 mm | 05 256 | | | 20/240 |
| Trunking base 100 mm | 05 258 | | | 20/240 |
| Trunking base 120 mm | 05 260 | | | 20/240 |
| Trunking base 150 mm | 05 262 | | | 20/240 |



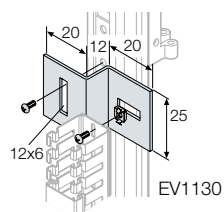
Quick clip for base plate

| Description | Code | | | Unit/pack-pieces |
|----------------------|--------|--|--|------------------|
| Trunking base 25 mm | 05 270 | | | 20/600 |
| Trunking base 40 mm | 05 272 | | | 20/600 |
| Trunking base 60 mm | 05 274 | | | 20/600 |
| Trunking base 80 mm | 05 276 | | | 20/240 |
| Trunking base 100 mm | 05 278 | | | 20/240 |
| Trunking base 120 mm | 05 280 | | | 20/240 |
| Trunking base 150 mm | 05 282 | | | 20/240 |

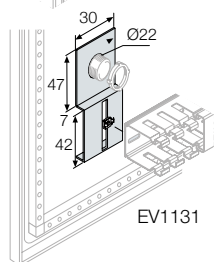
Can be snapped onto holes as shown:



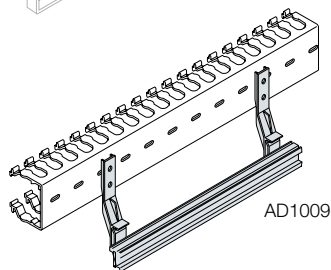
For further information on the wiring ducts, please contact the Products for installation division of ABB SACE



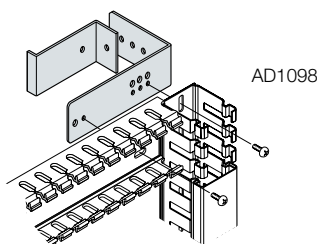
EV1130



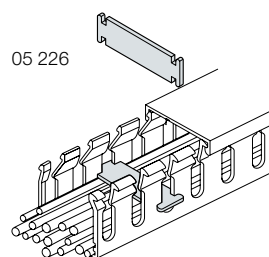
EV1131



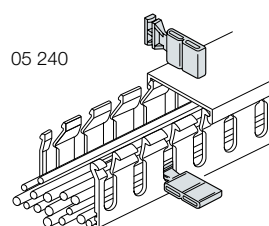
AD1009



AD1098



05 226



05 240

Accessories

Wiring duct support brackets

| Description | Code | | | Unit/pack-pieces |
|----------------------------------------------------------|--------|--|--|------------------|
| N°100 wiring duct support brackets on structure uprights | EV1130 | | | 1/100 |
| N°100 wiring duct support brackets on pushbuttons Ø22mm | EV1131 | | | 1/100 |

Supports for wiring duct

| Description | Code | | | Unit/pack-pieces |
|--------------------------------------------------------|--------|--|--|------------------|
| N°4 plastic supports for horizontal wiring duct | AD1009 | | | 1/4 |
| N°4 metal supports for horizontal/vertical wiring duct | AD1098 | | | 1/4 |

Duct shears

| Description | Code | | | Unit/pack-pieces |
|-------------|--------|--|--|------------------|
| Duct shears | 05 265 | | | 1/1 |

Rivet fastener

| Description | Code | | | Unit/pack-pieces |
|----------------------------------|--------|--|--|------------------|
| For ø 6 mm rivets (black colour) | 05 266 | | | 1/12 |
| For ø 4 mm rivets (green colour) | 05 268 | | | 1/12 |

Plastic rivet

| Description | Code | | | Unit/pack-pieces |
|--------------|--------|--|--|------------------|
| 05 214 Ø 4mm | 05 214 | | | 1/100 |
| 05 216 Ø 6mm | 05 216 | | | 1/100 |

Plastic cable retainer

| Description | Code | | | Unit/pack-pieces |
|---------------------|--------|--|--|------------------|
| Trunking base 40 mm | 05 224 | | | 1/100 |
| Base duct 60mm | 05 226 | | | 1/100 |
| Base duct 80mm | 05 228 | | | 1/100 |
| Base duct 100/120mm | 05 230 | | | 1/100 |

Plastic label tag

| Description | Code | | | Unit/pack-pieces |
|----------------------------------------------------|--------|--|--|------------------|
| Suitable for wiring ducts with 8/12 mm slots only. | 05 240 | | | 1/100 |

For further information on the wiring ducts, please contact the Products for installation division of ABB SACE

Structures

Gemini switchboards

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In-depth technical information

Gemini switchboards

Conformity with standards and technical characteristics

Reference Standards

Standard IEC 62208 ("Empty enclosures for low voltage switch-gear and control gear assemblies. General requirements."), that has implemented at an international level the Standard IEC 62208, is the prescriptive reference for Gemini switchboards.

The object of Standard IEC 62208 is to formulate definitions, classifications, characteristics and test prescriptions for cases designed to be used as part of protection and operating equipment (switchboards) in compliance with the Standards of the IEC 60439 – IEC 61439-1-2 series, that have a maximum rated voltage of 1000 V in alternating current for maximum frequencies of 1000 Hz or 1500 V in direct current and are suitable for general use in both internal and external applications.

The Standard applies to empty enclosures, before the user has installed protection and operating devices inside them.

The Standard does not apply to enclosures which, due to their construction and functional characteristics, are subject to other prescriptions (e.g. enclosures for domestic and similar installations). In this case, the IEC 60670 – CEI 23-48 Standards are the reference ("Enclosures for apparatus for fixed electrical installations for domestic and similar uses).

Part 1: general prescriptions") and CEI 23-49 ("Enclosures for apparatus for fixed electrical installations for domestic and similar uses.

Part 2: special prescriptions for enclosures destined to contain protection devices and apparatus which dissipate a power that is not negligible").

On the basis of what is indicated by ABB SACE in the table of technical characteristics, if, necessary, the installer must certify conformity with the CEI 23-51 ("Prescriptions for constructing, checking and testing distribution switchboards for fixed installations for domestic and similar use") or IEC 60439-1/IEC 61439-1-2 Standards.

Conformity with standards and technical characteristics

Table of Gemini switchboards' technical characteristics

| Size | 1 | 2 | 3 | 4 | 5 | 6 |
|-------------------------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Gemini with transparent door | 1SL0211A00 | 1SL0212A00 | 1SL0213A00 | 1SL0214A00 | 1SL0215A00 | 1SL0216A00 |
| Gemini with opaque door | 1SL0201A00 | 1SL0202A00 | 1SL0203A00 | 1SL0204A00 | 1SL0205A00 | 1SL0206A00 |
| External dimensions WxHxD (mm) | 335x400x210 | 460x550x260 | 460x700x260 | 590x700x260 | 590x855x360 | 840x1005x360 |
| Internal dimensions WxHxD (mm) | 250x300x180 | 375x450x230 | 375x600x230 | 500x600x230 | 500x750x330 | 750x900x330 |
| IP degree | IP66 | IP66 | IP66 | IP66 | IP66 | IP66 |
| Double isolation | yes | yes | yes | yes | yes | yes |
| IK degree | 10 | 10 | 10 | 10 | 10 | 10 |
| GWT (°C) | 750 | 750 | 750 | 750 | 750 | 750 |
| Operating temperature | -25 °C ... +100 °C | -25 °C ... +100 °C | -25 °C ... +100 °C | -25 °C ... +100 °C | -25 °C ... +100 °C | -25 °C ... +100 °C |
| No. of DIN modules | 24 (12x2) | 54 (18x3) | 72 (18x4) | 96 (24x4) | 120 (24x5) | 216 (36x6) |
| No. of vertical modules (H=150 mm) | 2 | 3 | 4 | 4 | 5 | 6 |
| Material | Thermoplastic | Thermoplastic | Thermoplastic | Thermoplastic | Thermoplastic | Thermoplastic |
| Color | Grey RAL7035 | Grey RAL7035 | Grey RAL7035 | Grey RAL7035 | Grey RAL7035 | Grey RAL7035 |
| Fast wiring system | Unifix L | Unifix L | Unifix L | Unifix L | Unifix L | Unifix L |
| No. of locks | 2 | 2 | 2 | 2 | 3 | 3 |
| Rated frequency | 50-60 Hz | 50-60 Hz | 50-60 Hz | 50-60 Hz | 50-60 Hz | 50-60 Hz |
| NORMA CEI 23-51⁽¹⁾ - IEC 61439-1-2 | | | | | | |
| Max. dispersible power ⁽²⁾ | 45 W | 72 W | 85 W | 102 W | 156 W | 248 W |
| STANDARD IEC 60439-1 | | | | | | |
| Over-temperature (par. 8.2.1) ⁽³⁾ | | | | | | |
| Max. dispersible power with over-temperature of 25 °C | 40 W | 65 W | 77 W | 91 W | 133 W | 205 W |
| Max. dispersible power with over-temperature of 30 °C | 45 W | 72 W | 85 W | 102 W | 156 W | 248 W |
| Max. dispersible power with over-temperature of 35 °C | 52 W | 85 W | 100 W | 121 W | 187 W | 299 W |
| Max. dispersible power with over-temperature of 40 °C | 62 W | 100 W | 118 W | 143 W | 221 W | 355 W |
| Impulse withstand (par. 8.2.2) | | | | | | |
| - Rated service voltage | ≤ 690 V | ≤ 690 V | ≤ 690 V | ≤ 690 V | ≤ 690 V | ≤ 690 V |
| - Rated insulation voltage AC | ≤ 1000 V | ≤ 1000 V | ≤ 1000 V | ≤ 1000 V | ≤ 1000 V | ≤ 1000 V |
| - Rated insulation voltage DC | ≤ 1500 V | ≤ 1500 V | ≤ 1500 V | ≤ 1500 V | ≤ 1500 V | ≤ 1500 V |
| - Rated impulse withstand voltage | 8 kV | 8 kV | 8 kV | 8 kV | 8 kV | 8 kV |

⁽¹⁾ **Limits of Applicability of the CEI 23-51 Standard**

The Standard is only applicable if the cabled switchboard fulfils all the following conditions:

fixed installation with average ambient temperature up to 25 °C, occasionally up to 35 °C;

alternating current with rated voltage up to 440 V;

rated incoming current up to 125 A;

rated prospective short-circuit current up to 10 kA or protection using current-limiting devices with limited current up to 15 kA in correspondence with their rated breaking capacity.

⁽²⁾ The data on the maximum dissipated power were taken following the indications in the CEI 23-49 Standard, with a temperature difference of $\Delta t=30$ °C.

⁽³⁾ **Note to paragraph 8.2.1 of Standard IEC 60439-1**

The table gives the thermal dissipation values of Gemini switchboards when they are wall-mounted. The dispersible power figures (in Watts) vary according to the overtemperature allowed in the accessible parts of the switchboard and must be compared with the total amount of power dissipated by all the components installed inside the switchboard taking into due account the factor of contemporaneity.

In-depth technical information

Gemini switchboards

IP degree of protection

1st number according to IEC 60529 Standard

As indicated in the following table, the IP degree of protection is expressed by two characteristic numbers depending on the behavior of the product to which it refers according to the prescriptions of CEI 70-1 and IEC 60529 Standards.

1st Number: protection against the penetration of solid bodies

| | |
|---|------------------------------------------------------------------------------------------------------------|
| 0 | No protection |
| 1 | Protection against the penetration of solid bodies with a diameter of over 50 mm |
| 2 | Protection against the penetration of solid bodies with a diameter of over 12 mm or a length of over 80 mm |
| 3 | Protection against the penetration of solid bodies with a diameter or thickness of over 2.5 mm |
| 4 | Protection against the penetration of solid bodies with a diameter or thickness of over 1.0 mm |
| 5 | Protection against the penetration of dusts |
| 6 | Total protection against the penetration of dusts |

2nd number according to CEI 70-1 IEC 60529 Standard

With IP66 degree of protection, Gemini switchboards are totally protected against the penetration of dusts and sprays of seawater.

2nd Number: protection against the penetration of water

| | |
|---|-----------------------------------------------------------------------------------------------------|
| 0 | No protection |
| 1 | Protection against the penetration of drops of water falling vertically |
| 2 | Protection against the penetration of drops of water falling at an angle of up to 15° from vertical |
| 3 | Protection against the penetration of drops of water falling at an angle of up to 60° from vertical |
| 4 | Protection against the penetration of splashes of water from all directions |
| 5 | Protection against the penetration of water sprayed by a hose from all directions |
| 6 | Protection against the penetration of sea water |
| 7 | Protection against the penetration of water during temporary immersion |
| 8 | Protection against the penetration of water during continual immersion |

IK degree of resistance to impacts

K degree according to IEC 62262 reference Standard.

The method specified in the IEC 62262 Standard to determine the IK degree of resistance to impact is indicated in the table below. It specifies the resistance of equipment to impact. The proof

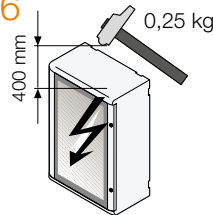
consists in let a weight falling down from a pre-established height. The degree of resistance to impacts is therefore obtained and it is expressed in Joules.

IK 0



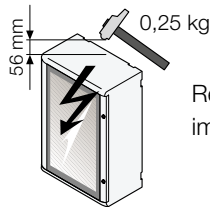
No protection against impacts

IK 06



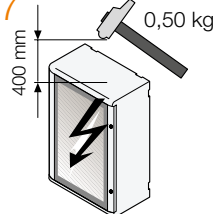
Resistance to impacts with impact energy up to **1,00 J**

IK 01



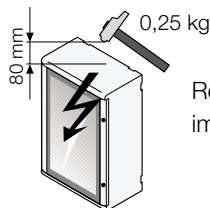
Resistance to impacts with impact energy up to **0,150 J**

IK 07



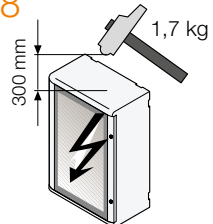
Resistance to impacts with impact energy up to **2,00 J**

IK 02



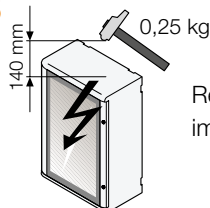
Resistance to impacts with impact energy up to **0,200 J**

IK 08



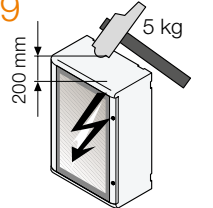
Resistance to impacts with impact energy up to **5,00 J**

IK 03



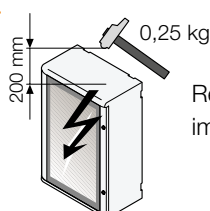
Resistance to impacts with impact energy up to **0,350 J**

IK 09



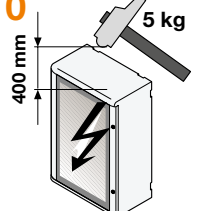
Resistance to impacts with impact energy up to **10,00 J**

IK 04



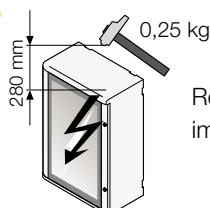
Resistance to impacts with impact energy up to **0,500 J**

IK 10



Resistance to impacts with impact energy up to **20,00 J**

IK 05



Resistance to impacts with impact energy up to **0,700 J**

Gemini

In-depth technical information

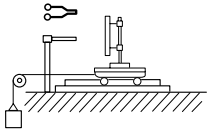
Gemini switchboards

Double insulation



Double insulation guarantees that Gemini is protected against indirect contacts on condition that the manufacturer's instructions are observed when carrying out mounting and wiring operations on the switchboard and that the appropriate accessories are used (e.g. screw-cover caps).

Self-extinguishing tests

| Test text | Equipment required | Compliance with Standards | Purpose of the test | Test results | Test conditions | | |
|---------------------------|-----------------------------------------------------------------------------------|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------|---------------------------------------------------------|
| | | | | | Heat source | Length of test | Character. elements |
| Glow wire (GLOWWIRE TEST) |  | IEC 695-2-1 CEI 50-11 | To assess the danger of fire by simulating thermal stresses produced by heat sources or by ignition (e.g. glowing elements, resistances overloaded for short intervals) | If a flame is generated, it must go out within 30 seconds of removing the glow wire. The test is conducted at temperatures of: - 650°C - 750°C - 850°C - 960°C | Glow wire ø 4 mm | 30 sec. | Assessment of the time it takes for the flame to go out |

Resistance to chemical agents

The behavior of Gemini switchboards in the presence of chemical agents is indicated in the table with the symbols:

| | High resistance | Limited resistance |
|--------------------------|-----------------|--------------------|
| Cold water | • | |
| Hot water | • | |
| Sulfuric acid 50% | • | |
| Hydrochloric acid 36% | • | |
| Acetic acid 60% | • | |
| Benzol | | • |
| Gasoline | | • |
| Acetone | • | |
| Ethyl alcohol | • | |
| Ammonia | • | |
| Dichloromethane | | • |
| Diesel oil - naphtha | | • |
| Mineral oils and greases | • | |
| Food oils and greases | • | |
| Perchloroethylene | | • |
| Trichlorethene | | • |
| Ethylether | • | |
| Toluene | | • |
| Methanol | • | |
| Wine | • | |
| Fruit juices | • | |
| Laundry lye | • | |
| Detergents | • | |

In-depth technical information

Gemini switchboards

Disposal instructions

Information about how to dispose of Gemini switchboards when they reach the end of their life

Instructions are given below about the procedures to adopt when disposing of Gemini switchboards at the end of their life cycle. The text is drafted in the form of a table referring to Standard CEI 308-1 “Information table concerning the end of life of electric and electronic products and a compilation guide”, 2002-04, ed. 1, pamphlet number 308-1 6454.

Section I – Global product specification

| Name | Type of product | | | |
|------|-----------------------|------------------|----------------------|-----------------------------------|
| Size | With transparent door | With opaque door | Rated weight [kg] | External dimensions WxHxD (mm) |
| 1 | 1SL0211A00 | 1SL0201A00 | 4,3 | 335x400x210 |
| 2 | 1SL0212A00 | 1SL0202A00 | 7,9 | 460x550x260 |
| 3 | 1SL0213A00 | 1SL0203A00 | 9,5 | 460x700x260 |
| 4 | 1SL0214A00 | 1SL0204A00 | 12,0 | 590x700x260 |
| 5 | 1SL0215A00 | 1SL0205A00 | 17,8 | 590x855x360 |
| 6 | 1SL0216A00 | 1SL0206A00 | 21,1 | 840x1005x360 |

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Section II – Global product table

General code: CER 17 02 03 plastic (more than 95% of the product's weight)

| No. of the component part P1, P2, etc.) | Diagram | Quantity % over total weight | Material description | Symbol | Dangerousness (Yes/No) | CER Code |
|--------------------------------------------|---------|------------------------------------|-------------------------|--------|---------------------------|----------|
| P1/BOX | | ~ 80% | Polypropylene | >PP< | No | 17 02 03 |
| P2/ROOF | | | Polypropylene | >PP< | No | 17 02 03 |
| P3/DOOR | | ~ 20% | Polycarbonate | >PC< | No | 17 02 03 |
| P4/ACCESSORIES | | < 5% | Steel | - | No | 17 04 05 |
| P5/ACCESSORIES | | < 5% | Brass | - | No | 17 04 01 |

Disposal instructions

Section III – Components to be removed from the product and sent for separate treatment

Refer to section II of the table for a description of the materials.

Notes for recovery and disposal

At the end of its life, after separating it from components, the product can be sent to be recovered.

The product is not biodegradable: do not dispose of it in the environment.

The product/waste product is assimilable as solid urban waste. It must be incinerated or disposed of in compliance with current EEC, national and local regulations. You are recommended to check all reutilization possibilities.

Other recommendations

The information in this table relates to the product in the condition it was supplied. Assembled parts coming from different supplies must be treated separately according to the reference specifications of the respective manufacturers.

Section IV – Safety instructions

Handling

No special instructions. Refer to the general regulations concerning hygiene on the workplace when using.

The product's main components contain mineral additives and coloring agents in concentrations that comply with current European Directives at the time this catalogue went to press: they do not contain substances classified as dangerous.

Transport

No special instructions.

Storage

No gas or harmful vapors are released during storage. Thermal decomposition in the event of fire or combustion may release dangerous products: if this should occur, specific means of protection must be used. In the event of fire, conventional fire extinguishing instruments are recommended (atomized water, foam, carbon dioxide, powder).

Empty packages are not contaminated by the product and can therefore be recycled or reused.

Utilization

No special instructions.

Other instructions

The information given in this section is based on current ABB SACE know-how and is aimed at describing the product only for environmental, health and safety purposes. It must not, therefore, be considered as a guarantee of specific properties. ABB SACE assumes no responsibility for the behavior of buyers that do not comply with the information given in this table and for incorrect or improper usages of the product or usages that cannot reasonably be envisaged.

In-depth technical information

Mechanical characteristics

Material

| | Stucture | Kit panels | Structure panels | Doors | | Plates |
|--------------------------|-----------------------------|--------------------------|--------------------------|--------------------------|--------------------------------------|-----------------------------|
| | Galvanized Steel sheet [mm] | Pickled steel sheet [mm] | Pickled steel sheet [mm] | Pickled steel sheet [mm] | Safety glass external thickness [mm] | Galvanized Steel sheet [mm] |
| SR2 Enclosures | 12/10 | 12/10 | - | 12/10 | 4 | 20/10 |
| AM2 cabinets | 15/10 | 12/10 | - | 15/10 | 4 | 25/10 |
| IS2 - IS2 EMC Enclosures | 12/10 | 12/10 | 15/10 | 20/10 | 4 | 25/10 |

Painting

| | | |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Structure colour | Grey orange peel RAL 7035 | |
| Plinth colour | Grey orange peel RAL 7012 | |
| Standard cycle | Sheet washing | |
| | Phosphating with ferrous salt base | |
| | Tunnel drying at 100°C | |
| | External and internal painting with electrostatic application of powder thermosetting coat with epoxy polyester binders, orange peel RAL 7035 colour, 60/70 micron total thickness. | |
| | Oven polymerisation at 180° C. | |
| Characteristics of the paint | Binder: | epoxy polyester |
| | Specific gravity: | 1,61g/cm3 |
| | Theoretical spread: | 10.4 m2/kg with 60 micron average film thickness |
| | Melting point: | 85-95° C (Kofler bench method) |
| | Granulometry: | standard distribution from 5 to 100 micron with average particle size between 30 and 40 micron. Hardening 12 min x 190° C (object temperature). |
| | Hardness: | 1H - 2H |
| | Bending elasticity DIN 53152: | unaltered on 1/4" spindle |
| | Reticle adhesion DIN 53151: | GT O (100%) |
| | Erichem elasticity: | SEN DIN 53156: > 6mm |
| | Gardner impact strength: | 25 Kg. x cm. |

Tests carried out on degreased and phosphated plates with 60/70 micron film thickness.
The painting has passed the saline mist resistance tests (193 hours).

Environmental characteristics according to the IEC 62208 Standard

| | | |
|----------------------------------|-----------|---------------------|
| Type of installation | indoor | |
| Installation conditions | floor | |
| Operating climate (t°/rh %) | constant | 23°C/83% - 40°C/93% |
| | variable | 23°C/98% - 40°C/98% |
| Environmental temperature limits | operating | -5°C +40°C |
| | storage | -25°C +55°C |

Mechanical characteristics

IS2 cabinet vibration tests

The results of the vibration tests which our standard IS2 automation enclosures have undergone are significant, above all when the enclosures are installed on ships, in seismic areas and in military areas.

The vibration tests on the standard IS2 enclosures have produced the following positive result: with respect to a stress 0.1 g in a range of frequencies between 10 and 500Hz, the maximum acceleration found inside the enclosure is less than 0.5 g.

| | |
|------------------------------------------------------------|----------|
| Range of frequency 10-500Hz | 10-500Hz |
| Stress 0,1 g | 0,1 g |
| Maximum acceleration reached (inside the enclosure) <0,5 g | <0,5 g |

We have also verified that the IS2 standard enclosure has linear behaviour even when the level of acceleration is increased up to 1 g in the same range of frequencies.

Antiseismic tests enclosures IS2

Enclosure IS2 dimensions 2000x800x800mm (HxDxW) with 435 kh of load. Enclosures have been tested according with the Standard IEC 60068-2-57 "Environmental testing Part. 2: Tests method. Vibration - Time history method" and with the Standard IEEE Std 693 "Recommended Practice for Seismic Design of Substation".

7

Similar application fields*

| Enclosure without specific accessories | | | |
|------------------------------------------------------------|----------------------------|---------------|----------------|
| According to the Standard IEC 60068-2-57 - IEEE Std 693 | Seismic Zone IEC 68-3-3 | Richter scale | Mercalli scale |
| Shock level test up to 0.5 g | Zona 4 | 7 | 9 |

* Values of different scales are indicative.

| Enclosure with specific accessories AS0001+crosspieces+reinforced plinth | | | |
|--------------------------------------------------------------------------|----------------------------|---------------|----------------|
| According to the Standard IEC 60068-2-57 - IEEE Std 693 | Seismic Zone IEC 68-3-3 | Richter scale | Mercalli scale |
| Shock level test up to 0.75 g | Zone 4 | 7,5 | 10 |

In-depth technical information

ABB SACE declaration of conformity

Conformity with the IEC 62208, IEC 60439-1 and new EN61439-1 and 2 standards

The enclosures have undergone the type tests foreseen by the IEC 62208 and IEC 60439-1 and new 61439-1 and 2 standards at the ABB laboratories. The results of these tests guarantee the performances of the IS2 enclosures and allow the end enclosure builder not to carry out any further type tests by respecting the selection criteria and assembly instructions of the various components. These results, given below, can be referred to for making out the declaration of conformity for the electric enclosure.

CEI IEC 62208 Standard

"Empty enclosures for low voltage switchgear and controlgear assemblies".

EN 60439-1 and new 61439-1 and 2 standards

"Low voltage protection switchgear and controlgear assemblies".

IS2 Enclosure

Nominal characteristics:

| | |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Rated service voltage Un | up to 1000V AC - 1500V DC |
| Rated insulation voltage Ui | up to 1000V AC - 1500V DC |
| Rated impulse withstand voltage Uimp | 8 kV |
| Rated frequency fn | 50-60Hz |
| Degree of protection | IP65 with door and fixed flanged IP54 with ventilated/air-conditioned door and panels - with EMC door version |
| Mechanical impact strength IK | 10 with blind door 09 with glazed door - 08 EMC version glazed door |
| Rated short-time current Icw | 65 kA |
| Rated max.peak current Ipk | 143 kA |
| Installation condition | Internal cabinet |

Efficiency of the protection circuit (Ref. par. 8.2.4. of the Standard)

By respecting the assembly indications for the metal components, the effective electrical continuity between the conductive electrical parts has been verified, with negligible resistance values.

Insulation distances (Ref. par. 8.2.5. of the Standard)

The insulation distances are guaranteed by following the ABB SACE metalwork structure and circuit-breaker assembly and mounting instruction.

Mechanical operation (Ref. par. 8.2.6. of the Standard)

By respecting the assembly instructions for the structures and ABB SACE circuit-breakers, mechanical operation is verified.

| | SR2 | AM2 |
|-------------------------------|-------------------------------------------|---------------------------|
| Rated service voltage Un | up to 1000V AC - 1500V DC | up to 1000V AC - 1500V DC |
| Rated insulation voltage Ui | up to 1000V AC - 1500V DC | up to 1000V AC - 1500V DC |
| Rated frequency fn | 50-60Hz | 50-60Hz |
| IP Degree of protection | with door 65 EMC version 54 | 65 |
| Mechanical impact strength IK | with blind door 10 with glazed door 09 | 10 09 |

When correctly selected and assembled, as per the indications given in the catalogue and in the instruction manual, they allow of electrical enclosures complying with the IEC 60439-1 Standard and the new IEC 61439-1 and 2 Standard "Low voltage controlgear and switchgear for assemblies" and the IEC 60204-1 "Standard "Safety of machinery – Electrical equipment of machines", to be built, based on what is foreseen under the Low Voltage Directive of the European Community 2006/95/CE (which takes place of 73/23/CEE directive).














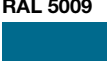
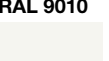
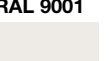
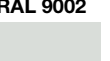
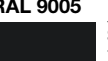
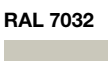
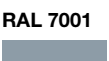
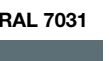



The above is valid if the electrical enclosure is designed and constructed:

- selecting the materials based on the performances indicated in the ABB catalogues;
- sizing the conductors according to the prescriptions of the IEC 60439-1 Standard and the new IEC 61439-1 and 2 Standard, and Standard and CEI 64-8;
- carrying out the individual tests foreseen under the IEC 60439-1 Standard and the new Standard IEC 61439-1 and 2 Standard with a positive outcome.

Standardised RAL colours (on request)



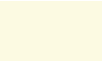
















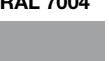


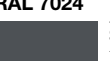

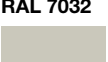
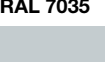
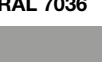

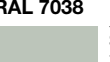
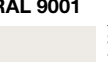
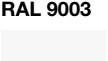
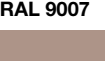
On request, colours other than the standard RAL 7035 orange peel are available with the same painting cycle.
Tables A, B and C indicates different raises on standard price for the paint. For every request regarding special colours, please contact ABB.

Tab. A

| | | | | | |
|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| RAL 1013  Smooth Orange peel | RAL 1015  Smooth Orange peel | RAL 1014  Smooth Orange peel | RAL 6027  Smooth Orange peel | RAL 6019  Smooth Orange peel | RAL 6021  Smooth Orange peel |
| RAL 6011  Smooth Orange peel | RAL 2002  Smooth Orange peel | RAL 2004  Smooth Orange peel | RAL 3000  Smooth Orange peel | RAL 5012  Smooth Orange peel | RAL 5015  Smooth Orange peel |
| RAL 5010  Smooth Orange peel | RAL 5009  Smooth Orange peel | RAL 9010  Smooth Orange peel | RAL 9001  Smooth Orange peel | RAL 9002  Smooth Orange peel | RAL 9005  Smooth Orange peel |
| RAL 7032  Smooth Orange peel | RAL 7001  Smooth Orange peel | RAL 7031  Smooth Orange peel | RAL 7030  Smooth Orange peel | RAL 7035  Smooth Orange peel | RAL 7012  Smooth Orange peel |

7

Tab. B

| | | | | | |
|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| RAL 1002  Smooth Orange peel | RAL 1004  Smooth Orange peel | RAL 1013  Smooth Orange peel | RAL 1015  Smooth Orange peel | RAL 1018  Smooth Orange peel | RAL 1019  Smooth Orange peel |
| RAL 1021  Smooth Orange peel | RAL 1023  Smooth Orange peel | RAL 2002  Smooth Orange peel | RAL 2008  Smooth Orange peel | RAL 2004  Smooth Orange peel | RAL 2009  Smooth Orange peel |
| RAL 3003  Smooth Orange peel | RAL 3004  Smooth Orange peel | RAL 3020  Smooth Orange peel | RAL 4005  Smooth Orange peel | RAL 5002  Smooth Orange peel | RAL 5003  Smooth Orange peel |
| RAL 5017  Smooth Orange peel | RAL 7004  Smooth Orange peel | RAL 7011  Smooth Orange peel | RAL 7016  Smooth Orange peel | RAL 7024  Smooth Orange peel | RAL 7031  Smooth Orange peel |
| RAL 7032  Smooth Orange peel | RAL 7035  Smooth Orange peel | RAL 7036  Smooth Orange peel | RAL 7037  Smooth Orange peel | RAL 7038  Smooth Orange peel | RAL 9001  Smooth Orange peel |
| RAL 9003  Smooth Orange peel | RAL 9007  Smooth Orange peel | | | | |

In-depth technical information

Standardised RAL colours (on request)

Tab. C

| | | | | | |
|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| <div><div>RAL 1001</div><div><div></div><div>Smooth</div><div>Orange peel</div></div></div> | <div><div>RAL 1016</div><div><div></div><div>Smooth</div><div>Orange peel</div></div></div> | <div><div>RAL 3002</div><div><div></div><div>Smooth</div><div>Orange peel</div></div></div> | <div><div>RAL 3011</div><div><div></div><div>Smooth</div><div>Orange peel</div></div></div> | <div><div>RAL 5000</div><div><div></div><div>Smooth</div><div>Orange peel</div></div></div> | <div><div>RAL 5002</div><div><div></div><div>Smooth</div><div>Orange peel</div></div></div> |
| <div><div>RAL 5009</div><div><div></div><div>Smooth</div><div>Orange peel</div></div></div> | <div><div>RAL 5017</div><div><div></div><div>Smooth</div><div>Orange peel</div></div></div> | <div><div>RAL 5018</div><div><div></div><div>Smooth</div><div>Orange peel</div></div></div> | <div><div>RAL 6001</div><div><div></div><div>Smooth</div><div>Orange peel</div></div></div> | <div><div>RAL 6002</div><div><div></div><div>Smooth</div><div>Orange peel</div></div></div> | <div><div>RAL 6003</div><div><div></div><div>Smooth</div><div>Orange peel</div></div></div> |
| <div><div>RAL 6009</div><div><div></div><div>Smooth</div><div>Orange peel</div></div></div> | <div><div>RAL 6020</div><div><div></div><div>Smooth</div><div>Orange peel</div></div></div> | <div><div>RAL 6024</div><div><div></div><div>Smooth</div><div>Orange peel</div></div></div> | <div><div>RAL 6026</div><div><div></div><div>Smooth</div><div>Orange peel</div></div></div> | <div><div>RAL 6029</div><div><div></div><div>Smooth</div><div>Orange peel</div></div></div> | <div><div>RAL 7000</div><div><div></div><div>Smooth</div><div>Orange peel</div></div></div> |
| <div><div>RAL 7001</div><div><div></div><div>Smooth</div><div>Orange peel</div></div></div> | <div><div>RAL 7004</div><div><div></div><div>Smooth</div><div>Orange peel</div></div></div> | <div><div>RAL 7005</div><div><div></div><div>Smooth</div><div>Orange peel</div></div></div> | <div><div>RAL 7006</div><div><div></div><div>Smooth</div><div>Orange peel</div></div></div> | <div><div>RAL 7012</div><div><div></div><div>Smooth</div><div>Orange peel</div></div></div> | <div><div>RAL 7015</div><div><div></div><div>Smooth</div><div>Orange peel</div></div></div> |
| <div><div>RAL 7016</div><div><div></div><div>Smooth</div><div>Orange peel</div></div></div> | <div><div>RAL 7021</div><div><div></div><div>Smooth</div><div>Orange peel</div></div></div> | <div><div>RAL 7022</div><div><div></div><div>Smooth</div><div>Orange peel</div></div></div> | <div><div>RAL 7024</div><div><div></div><div>Smooth</div><div>Orange peel</div></div></div> | <div><div>RAL 7037</div><div><div></div><div>Smooth</div><div>Orange peel</div></div></div> | <div><div>RAL 7038</div><div><div></div><div>Smooth</div><div>Orange peel</div></div></div> |
| <div><div>RAL 7040</div><div><div></div><div>Smooth</div><div>Orange peel</div></div></div> | <div><div>RAL 7024</div><div><div></div><div>Smooth</div><div>Orange peel</div></div></div> | <div><div>RAL 7043</div><div><div></div><div>Smooth</div><div>Orange peel</div></div></div> | <div><div>RAL 7044</div><div><div></div><div>Smooth</div><div>Orange peel</div></div></div> | <div><div>RAL 7045</div><div><div></div><div>Smooth</div><div>Orange peel</div></div></div> | <div><div>RAL 7046</div><div><div></div><div>Smooth</div><div>Orange peel</div></div></div> |
| <div><div>RAL 7047</div><div><div></div><div>Smooth</div><div>Orange peel</div></div></div> | <div><div>RAL 9005</div><div><div></div><div>Smooth</div><div>Orange peel</div></div></div> | <div><div>RAL 9016</div><div><div></div><div>Smooth</div><div>Orange peel</div></div></div> | | | |

Corrosion test in saline mist

(Ref. Standard UNI ISO 9227, CEI50-5/4, IEC 60068-2-30)

| Treatment time (hours) | 24 | 48 | 72 | 96 | 120 | 144 | 168 | 192 |
|------------------------|----|----|----|----|-----|-----|-----|--------------------|
| Rust penetration | no | no | no | no | no | no | no | 193 ⁽¹⁾ |
| Blistering | no | no | no | no | no | no | no | no |

⁽¹⁾ When a tearing test with adhesive tape is carried out after 193 hours of exposure, about 3 mm of paint detachment can be noted from the notch area with 1-1.5 mm rust penetration.

In-depth technical information

SR enclosures - AM2 cabinets - IS2/IS2 EMC enclosures

Dissipating power

Temperature-rise (Ref. Standard IEC 60439-1 par. 8.2.1 and new IEC 61439-1-2 Standard).

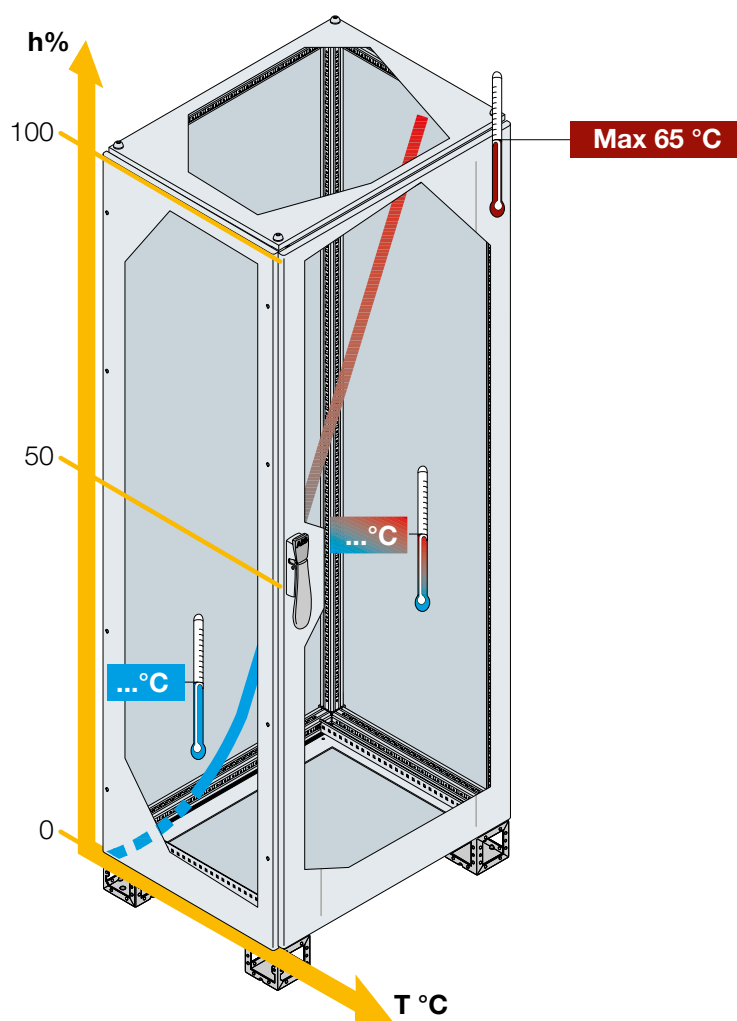
The following tables show the thermal dissipation values referred to all the dimensions of the enclosures and to the type of installation, coming from the type tests carried out. The dissipating power data (in Watts) depend on the admissible overtemperature inside the enclosure in the upper Part, and must be compared with the sum of the powers dissipated by all the components installed inside the enclosure.

Use of the dissipated power tables

The dissipated power value of a cabinet depends on the maximum temperature (T_{max}) and on the admissible overtemperatures (EN60439-1 Standard and new IEC 61439-1-2 Standard).

Example

If an ambient temperature of 35 °C is considered, the value of dissipating admissible overtemperature (ΔT), which is 30 °C if a temperature at the top of the enclosure of 65 °C is acceptable.



In-depth technical information

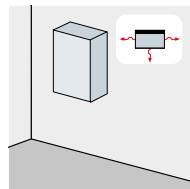
SR enclosures

Dissipating power

SR enclosures

Maximum dissipating power (W)

Dissipating power inside the SR enclosures according to the permissible overtemperature (external temperature plus overtemperature = 60 °C max).



Wall-mounted single enclosure

| Code | Dimensions | | | Overtemperature values ΔT | | | |
|--------------------------|------------|--------|--------|-----------------------------------|-------|-------|-------|
| | H (mm) | W (mm) | D (mm) | 25 °C | 30 °C | 35 °C | 40 °C |
| SRN3215K | 300 | 200 | 150 | 18 | 22 | 26 | 31 |
| SRN3315K | 300 | 300 | 150 | 23 | 29 | 35 | 42 |
| SRN3415K | 300 | 400 | 150 | 34 | 42 | 51 | 60 |
| SRN4315K | 400 | 300 | 150 | 30 | 37 | 45 | 53 |
| SRN4320K | 400 | 300 | 200 | 33 | 42 | 51 | 60 |
| SRN4420K | 400 | 400 | 200 | 42 | 52 | 63 | 74 |
| SRN4620K ⁽¹⁾ | 400 | 600 | 200 | 59 | 74 | 89 | 105 |
| SRN5320K | 500 | 300 | 200 | 39 | 49 | 59 | 69 |
| SRN5420K | 500 | 400 | 200 | 47 | 59 | 72 | 85 |
| SRN5420VK | 500 | 400 | 200 | 47 | 59 | 72 | 85 |
| SRN5425K | 500 | 400 | 250 | 52 | 66 | 79 | 94 |
| SRN5425VK | 500 | 400 | 250 | 52 | 66 | 79 | 94 |
| SRN6420K | 600 | 400 | 200 | 54 | 67 | 82 | 96 |
| SRN6420VK | 600 | 400 | 200 | 54 | 67 | 82 | 96 |
| SRN6425K | 600 | 400 | 250 | 59 | 74 | 89 | 105 |
| SRN6425VK | 600 | 400 | 250 | 59 | 74 | 89 | 105 |
| SRN6625K ⁽²⁾ | 600 | 600 | 250 | 79 | 99 | 120 | 141 |
| SRN7520K | 700 | 500 | 200 | 68 | 86 | 104 | 122 |
| SRN7520VK | 700 | 500 | 200 | 68 | 86 | 104 | 122 |
| SRN7525K | 700 | 500 | 250 | 74 | 93 | 113 | 133 |
| SRN7525VK | 700 | 500 | 250 | 74 | 93 | 113 | 133 |
| SRN8625K | 800 | 600 | 250 | 94 | 118 | 143 | 169 |
| SRN8625VK | 800 | 600 | 250 | 94 | 118 | 143 | 169 |
| SRN8630K | 800 | 600 | 300 | 107 | 134 | 162 | 191 |
| SRN8630VK | 800 | 600 | 300 | 107 | 134 | 162 | 191 |
| SRN8830K | 800 | 800 | 300 | 114 | 142 | 173 | 204 |
| SRN10625K | 1000 | 600 | 250 | 95 | 118 | 143 | 169 |
| SRN10625VK | 1000 | 600 | 250 | 95 | 118 | 143 | 169 |
| SRN10630K | 1000 | 600 | 300 | 103 | 130 | 156 | 185 |
| SRN10630VK | 1000 | 600 | 300 | 103 | 130 | 156 | 185 |
| SRN10830K ⁽³⁾ | 1000 | 800 | 300 | 142 | 178 | 215 | 254 |
| SRN10830VK | 1000 | 800 | 300 | 142 | 178 | 215 | 254 |
| SRN12630K | 1200 | 600 | 300 | 123 | 155 | 187 | 220 |
| SRN12630VK | 1200 | 600 | 300 | 123 | 155 | 187 | 220 |
| SRN12830K | 1200 | 800 | 300 | 168 | 210 | 255 | 300 |
| SRN12830VK | 1200 | 800 | 300 | 168 | 210 | 255 | 300 |

⁽¹⁾ Values also valid for **SR4620EMCK**.

⁽²⁾ Values also valid for **SR6625EMCK**.

⁽³⁾ Values also valid for **SR10830EMCK**.

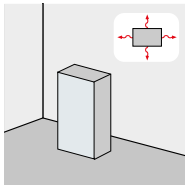
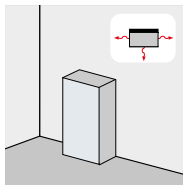
Values also valid for the versions with glazed door.

In-depth technical information

AM2 cabinets

Dissipating power

AM2 cabinets

| Maximum dissipating power (W) | | | | | | | | | | | |
|-------------------------------|------------|--------|-----------------------------------------------------------------------------------|---------------------------|-------|-------|-------------------------------------------------------------------------------------|-------|-------|-------|-------|
| | | |  | | | |  | | | | |
| | | | Single enclosure exposed on all sides | | | | Wall-mounted single enclosure | | | | |
| Code | Dimensioni | | | Overtemperature values ΔT | | | | | | | |
| | H (mm) | W (mm) | D (mm) | 25 °C | 30 °C | 35 °C | 40 °C | 25 °C | 30 °C | 35 °C | 40 °C |
| TM2063K | 1000 | 600 | 300 | 110 | 137 | 166 | 197 | 102 | 128 | 155 | 183 |
| TM2064K | 1000 | 600 | 400 | 137 | 171 | 208 | 245 | 129 | 162 | 196 | 231 |
| TM2083K | 1000 | 800 | 300 | 146 | 184 | 222 | 263 | 139 | 174 | 211 | 250 |
| TM2003FV5K | 1000 | 1000 | 300 | 190 | 238 | 289 | 341 | 177 | 223 | 270 | 319 |
| TM2084K | 1000 | 800 | 400 | 179 | 224 | 272 | 321 | 171 | 215 | 260 | 308 |
| TM2004K | 1000 | 1000 | 400 | 237 | 297 | 360 | 425 | 217 | 273 | 330 | 390 |
| TM2024K | 1000 | 1200 | 400 | 285 | 358 | 434 | 512 | 262 | 329 | 399 | 471 |
| TM2074K | 1000 | 1600 | 400 | 399 | 501 | 607 | 717 | 343 | 430 | 521 | 615 |
| TM2263K | 1200 | 600 | 300 | 130 | 163 | 197 | 233 | 118 | 148 | 180 | 212 |
| TM2283FV4K | 1200 | 800 | 300 | 176 | 221 | 268 | 317 | 161 | 202 | 245 | 290 |
| TM2223K | 1200 | 1200 | 300 | 281 | 352 | 427 | 504 | 255 | 320 | 387 | 458 |
| TM2264K | 1200 | 600 | 400 | 164 | 205 | 249 | 294 | 150 | 188 | 228 | 269 |
| TM2284K | 1200 | 800 | 400 | 223 | 280 | 339 | 400 | 202 | 254 | 308 | 363 |
| TM2204K | 1200 | 1000 | 400 | 272 | 341 | 413 | 488 | 253 | 317 | 385 | 454 |
| TM2224K | 1200 | 1200 | 400 | 327 | 411 | 497 | 587 | 301 | 378 | 458 | 541 |

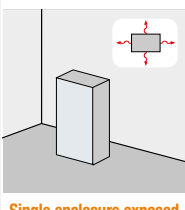
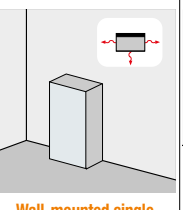
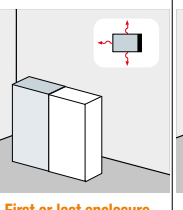
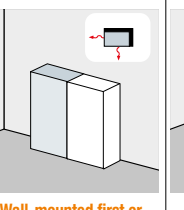
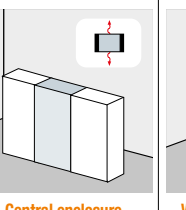
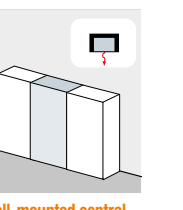
Values also valid for the versions with glazed door.

In-depth technical information

IS2/IS2 EMC enclosures

Dissipating power

IS2/IS2EMC enclosures - H = 1400/1600/1800mm

| | | Maximum dissipation power (W) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|------------|-----------------------------------------------------------------------------------|--------|---------------------------|-------|-----------------------------------------------------------------------------------|-------|-------|-------|-----------------------------------------------------------------------------------|-------|-------|-------|------------------------------------------------------------------------------------|-------|-------|-------|-------------------------------------------------------------------------------------|-------|-------|-------|-------------------------------------------------------------------------------------|-------|-------|-------|--------------------------------|-------|--|--|
| | |  | | | |  | | | |  | | | |  | | | |  | | | |  | | | | | | | |
| | | | | | | Single enclosure exposed on all sides | | | | Wall-mounted single enclosure | | | | First or last enclosure exposed | | | | Wall-mounted first or last enclosure | | | | Central enclosure exposed | | | | Wall-mounted central enclosure | | | |
| Code | Dimensions | | | Overtemperature values ΔT | | | | | | | | | | | | | | | | | | | | | | | | | |
| | H (mm) | W (mm) | D (mm) | 25 °C | 30 °C | 35 °C | 40 °C | 25 °C | 30 °C | 35 °C | 40 °C | 25 °C | 30 °C | 35 °C | 40 °C | 25 °C | 30 °C | 35 °C | 40 °C | 25 °C | 30 °C | 35 °C | 40 °C | 25 °C | 30 °C | 35 °C | 40 °C | | |
| 1STQ005346B0000 | 1400 | 600 | 300 | 148 | 186 | 225 | 266 | 136 | 170 | 206 | 244 | | | | | | | | | | | | | | | | | | |
| 1STQ005350B0000 | 1400 | 600 | 400 | 178 | 224 | 271 | 320 | 175 | 220 | 266 | 314 | | | | | | | | | | | | | | | | | | |
| 1STQ005357B0000 | 1400 | 600 | 500 | 234 | 294 | 357 | 421 | 211 | 265 | 321 | 379 | | | | | | | | | | | | | | | | | | |
| 1STQ005347B0000 | 1400 | 800 | 300 | 195 | 245 | 297 | 350 | 186 | 233 | 282 | 333 | | | | | | | | | | | | | | | | | | |
| 1STQ005351B0000 | 1400 | 800 | 400 | 249 | 313 | 379 | 447 | 230 | 289 | 350 | 414 | | | | | | | | | | | | | | | | | | |
| 1STQ005358B0000 | 1400 | 800 | 500 | 300 | 376 | 456 | 538 | 271 | 340 | 412 | 487 | | | | | | | | | | | | | | | | | | |
| 1STQ005348B0000 | 1400 | 1000 | 300 | 257 | 323 | 391 | 461 | 236 | 297 | 359 | 424 | | | | | | | | | | | | | | | | | | |
| 1STQ005352B0000 | 1400 | 1000 | 400 | 303 | 380 | 460 | 543 | 284 | 357 | 432 | 511 | | | | | | | | | | | | | | | | | | |
| 1STQ005353B0000 | 1400 | 1200 | 400 | 354 | 444 | 538 | 635 | 332 | 417 | 505 | 596 | | | | | | | | | | | | | | | | | | |
| 1STQ005359B0000 | 1400 | 1000 | 500 | 346 | 434 | 526 | 621 | 325 | 408 | 494 | 584 | | | | | | | | | | | | | | | | | | |
| 1STQ005360B0000 | 1400 | 1200 | 500 | 390 | 489 | 592 | 699 | 362 | 454 | 551 | 650 | | | | | | | | | | | | | | | | | | |
| 1STQ005369B0000 | 1600 | 600 | 300 | 176 | 221 | 268 | 316 | 151 | 190 | 230 | 272 | | | | | | | | | | | | | | | | | | |
| 1STQ005371B0000 | 1600 | 600 | 400 | 220 | 277 | 335 | 396 | 194 | 244 | 295 | 349 | | | | | | | | | | | | | | | | | | |
| 1STQ005378B0000 | 1600 | 600 | 500 | 259 | 325 | 394 | 465 | 234 | 293 | 355 | 420 | | | | | | | | | | | | | | | | | | |
| 1STQ005370B0000 | 1600 | 800 | 300 | 244 | 307 | 371 | 439 | 209 | 263 | 318 | 376 | | | | | | | | | | | | | | | | | | |
| 1STQ005372B0000 | 1600 | 800 | 400 | 284 | 357 | 432 | 510 | 253 | 317 | 384 | 453 | | | | | | | | | | | | | | | | | | |
| 1STQ005379B0000 | 1600 | 800 | 500 | 317 | 398 | 483 | 570 | 295 | 371 | 449 | 530 | | | | | | | | | | | | | | | | | | |
| 1STQ005373B0000 | 1600 | 1000 | 400 | 331 | 415 | 503 | 594 | 308 | 387 | 469 | 554 | | | | | | | | | | | | | | | | | | |
| 1STQ005374B0000 | 1600 | 1200 | 400 | 379 | 476 | 577 | 681 | 347 | 435 | 527 | 622 | | | | | | | | | | | | | | | | | | |
| 1STQ005379B0000 | 1600 | 800 | 500 | 317 | 398 | 483 | 570 | 295 | 371 | 449 | 530 | | | | | | | | | | | | | | | | | | |
| 1STQ005380B0000 | 1600 | 1000 | 500 | 366 | 460 | 557 | 657 | 342 | 429 | 520 | 614 | | | | | | | | | | | | | | | | | | |
| 1STQ005381B0000 | 1600 | 1200 | 500 | 416 | 522 | 632 | 746 | 383 | 481 | 582 | 688 | | | | | | | | | | | | | | | | | | |
| ES1844K | 1800 | 400 | 400 | 161 | 202 | 245 | 289 | 147 | 185 | 224 | 264 | 145 | 182 | 220 | 260 | 132 | 166 | 201 | 237 | 130 | 163 | 197 | 233 | 119 | 149 | 180 | 213 | | |
| ES1845K | 1800 | 400 | 500 | 190 | 238 | 289 | 341 | 177 | 222 | 268 | 317 | 170 | 213 | 259 | 305 | 157 | 197 | 239 | 282 | 149 | 187 | 227 | 268 | 139 | 174 | 211 | 250 | | |
| ES1846K | 1800 | 400 | 600 | 219 | 275 | 333 | 393 | 207 | 259 | 314 | 371 | 195 | 244 | 296 | 349 | 182 | 229 | 277 | 327 | 169 | 212 | 257 | 303 | 159 | 200 | 242 | 286 | | |
| ES1848K | 1800 | 400 | 800 | 283 | 355 | 430 | 508 | 270 | 339 | 411 | 485 | 248 | 311 | 377 | 445 | 236 | 296 | 358 | 423 | 211 | 264 | 320 | 378 | 203 | 254 | 308 | 364 | | |
| ES1840K | 1800 | 400 | 1000 | 346 | 435 | 526 | 621 | 336 | 421 | 510 | 602 | 301 | 377 | 457 | 540 | 289 | 363 | 439 | 519 | 252 | 317 | 384 | 453 | 247 | 310 | 375 | 443 | | |
| ES1864K | 1800 | 600 | 400 | 219 | 275 | 333 | 393 | 197 | 247 | 300 | 354 | 204 | 256 | 310 | 366 | 182 | 229 | 277 | 327 | 188 | 235 | 285 | 337 | 169 | 212 | 257 | 304 | | |
| ES1865K | 1800 | 600 | 500 | 256 | 321 | 389 | 460 | 233 | 293 | 355 | 419 | 236 | 296 | 359 | 423 | 214 | 268 | 325 | 383 | 214 | 268 | 325 | 383 | 196 | 246 | 298 | 351 | | |
| ES1866K | 1800 | 600 | 600 | 292 | 367 | 444 | 524 | 269 | 337 | 409 | 483 | 267 | 335 | 406 | 479 | 244 | 306 | 371 | 438 | 239 | 299 | 362 | 428 | 221 | 278 | 337 | 397 | | |
| ES1868K | 1800 | 600 | 800 | 367 | 461 | 558 | 659 | 346 | 434 | 526 | 621 | 328 | 412 | 499 | 589 | 309 | 387 | 469 | 554 | 292 | 366 | 443 | 523 | 277 | 347 | 420 | 496 | | |
| ES1860K | 1800 | 600 | 1000 | 425 | 533 | 646 | 762 | 421 | 529 | 640 | 756 | 392 | 492 | 596 | 704 | 375 | 470 | 569 | 672 | 344 | 432 | 523 | 618 | 331 | 416 | 503 | 594 | | |
| ES1884K | 1800 | 800 | 400 | 283 | 355 | 430 | 508 | 250 | 314 | 380 | 449 | 268 | 336 | 407 | 481 | 236 | 296 | 358 | 423 | 250 | 314 | 380 | 449 | 224 | 281 | 340 | 402 | | |
| ES1885K | 1800 | 800 | 500 | 323 | 406 | 492 | 580 | 291 | 365 | 443 | 523 | 303 | 381 | 461 | 544 | 271 | 339 | 411 | 485 | 281 | 352 | 427 | 504 | 255 | 320 | 388 | 458 | | |
| ES1886K | 1800 | 800 | 600 | 367 | 461 | 558 | 659 | 335 | 420 | 509 | 601 | 339 | 425 | 515 | 608 | 309 | 387 | 469 | 554 | 313 | 393 | 476 | 562 | 288 | 361 | 438 | 517 | | |
| ES1888K | 1800 | 800 | 800 | 431 | 541 | 655 | 774 | 422 | 529 | 641 | 757 | 413 | 518 | 628 | 741 | 383 | 480 | 582 | 687 | 375 | 470 | 569 | 672 | 351 | 441 | 534 | 630 | | |
| ES1880K | 1800 | 800 | 1000 | 482 | 605 | 733 | 865 | 471 | 590 | 715 | 844 | 454 | 570 | 691 | 815 | 450 | 565 | 684 | 808 | 435 | 546 | 661 | 780 | 413 | 518 | 627 | 741 | | |
| ES1804K | 1800 | 1000 | 400 | 346 | 435 | 526 | 621 | 304 | 382 | 463 | 546 | 332 | 416 | 504 | 595 | 289 | 363 | 439 | 519 | 315 | 395 | 478 | 565 | 280 | 351 | 426 | 502 | | |
| ES1805K | 1800 | 1000 | 500 | 395 | 496 | 601 | 709 | 353 | 443 | 537 | 634 | 373 | 468 | 567 | 669 | 333 | 417 | 506 | 597 | 353 | 443 | 537 | 634 | 319 | 400 | 484 | 572 | | |
| ES1806K | 1800 | 1000 | 600 | 425 | 533 | 646 | 762 | 401 | 503 | 609 | 719 | 412 | 517 | 627 | 740 | 375 | 470 | 569 | 672 | 389 | 488 | 592 | 699 | 355 | 446 | 540 | 637 | | |
| ES1808K | 1800 | 1000 | 800 | 482 | 605 | 733 | 865 | 464 | 583 | 706 | 833 | 461 | 578 | 700 | 826 | 450 | 565 | 684 | 808 | 446 | 560 | 678 | 801 | 425 | 534 | 646 | 763 | | |
| ES1800K | 1800 | 1000 | 1000 | 543 | 681 | 825 | 974 | 520 | 653 | 791 | 934 | 509 | 639 | 774 | 913 | 496 | 622 | 754 | 890 | 485 | 609 | 737 | 870 | 485 | 608 | 737 | 870 | | |
| ES1824K | 1800 | 1200 | 400 | 403 | 506 | 613 | 723 | 362 | 454 | 550 | 650 | 396 | 497 | 603 | 711 | 347 | 436 | 528 | 623 | 384 | 482 | 583 | 689 | 340 | 426 | 517 | 610 | | |
| ES1827K | 1800 | 1200 | 500 | 438 | 549 | 665 | 786 | 415 | 520 | 630 | 744 | 427 | 536 | 650 | 767 | 395 | 495 | 600 | 708 | 423 | 530 | 642 | 758 | 382 | 480 | 581 | 686 | | |
| ES1826K | 1800 | 1200 | 600 | 471 | 591 | 715 | 845 | 448 | 562 | 680 | 803 | 456 | 572 | 693 | 818 | 440 | 552 | 669 | 789 | 448 | 562 | 680 | 803 | 422 | 530 | 642 | 758 | | |
| ES1828K | 1800 | 1200 | 800 | 538 | 674 | 817 | 964 | 508 | 637 | 772 | 911 | 511 | 642 | 777 | 918 | 491 | 616 | 747 | 882 | 494 | 620 | 751 | 886 | 487 | 611 | 740 | 873 | | |
| ES1875K | 1800 | 1600 | 500 | 533 | 669 | 810 | 956 | 466 | 585 | 708 | 836 | 517 | 648 | 785 | 927 | 449 | 563 | 682 | 805 | 497 | 624 | 755 | 892 | 442 | 554 | 671 | 793 | | |
| ES1876K | 1800 | 1600 | 600 | 592 | 743 | 900 | 1063 | 524 | 658 | 797 | 941 | 566 | 710 | 861 | 1016 | 502 | 630 | 763 | 901 | 546 | 685 | 829 | 979 | 491 | 615 | 745 | 880 | | |
| ES1878K | 1800 | 1600 | 800 | 705 | 884 | 1071 | 1264 | 636 | 798 | 966 | 1141 | 667 | 837 | 1013 | 1197 | 603 | 757 | 917 | 1082 | 636 | 798 | 966 | 1141 | 582 | 730 | 885 | 1044 | | |

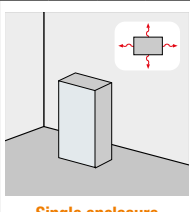
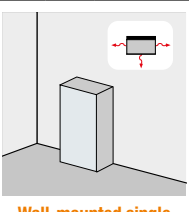
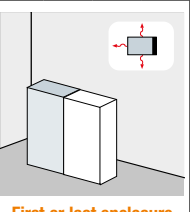
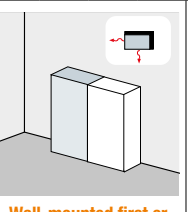
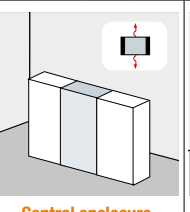
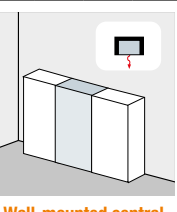
Valori validi anche per le versioni con porta vetro.

In-depth technical information

IS2/IS2EMC enclosures

Dissipating power

IS2/IS2EMC enclosures - H = 2000mm

| Maximum dissipation power (W) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------|-----------------------------------------------------------------------------------|--------|---------------------------|-------|-----------------------------------------------------------------------------------|-------|-------|-------|-----------------------------------------------------------------------------------|-------|-------|-------|------------------------------------------------------------------------------------|-------|-------|-------|-------------------------------------------------------------------------------------|-------|-------|-------|-------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|
| | |  | | | |  | | | |  | | | |  | | | |  | | | |  | | | | | |
| | | Single enclosure exposed on all sides | | | | Wall-mounted single enclosure | | | | First or last enclosure exposed | | | | Wall-mounted first or last enclosure | | | | Central enclosure exposed | | | | Wall-mounted central enclosure | | | | | |
| Code | Dimensions | | | Overtemperature values ΔT | | | | | | | | | | | | | | | | | | | | | | | |
| | H (mm) | W (mm) | D (mm) | 25 °C | 30 °C | 35 °C | 40 °C | 25 °C | 30 °C | 35 °C | 40 °C | 25 °C | 30 °C | 35 °C | 40 °C | 25 °C | 30 °C | 35 °C | 40 °C | 25 °C | 30 °C | 35 °C | 40 °C | 25 °C | 30 °C | 35 °C | 40 °C |
| ES2044K | 2000 | 400 | 400 | 174 | 218 | 264 | 312 | 158 | 199 | 240 | 284 | 155 | 195 | 236 | 279 | 141 | 177 | 215 | 254 | 139 | 175 | 212 | 250 | 127 | 159 | 193 | 228 |
| ES2045K | 2000 | 400 | 500 | 206 | 258 | 313 | 369 | 191 | 239 | 290 | 342 | 183 | 230 | 278 | 329 | 169 | 212 | 257 | 304 | 161 | 202 | 245 | 289 | 149 | 187 | 227 | 268 |
| ES2046K | 2000 | 400 | 600 | 237 | 297 | 360 | 425 | 223 | 280 | 339 | 400 | 210 | 264 | 320 | 377 | 197 | 247 | 299 | 353 | 182 | 228 | 277 | 326 | 171 | 215 | 260 | 307 |
| ES2048K | 2000 | 400 | 800 | 305 | 382 | 463 | 547 | 291 | 365 | 442 | 522 | 266 | 334 | 405 | 478 | 253 | 317 | 385 | 454 | 226 | 283 | 343 | 405 | 217 | 272 | 330 | 389 |
| ES2040K | 2000 | 400 | 1000 | 372 | 467 | 566 | 668 | 361 | 453 | 549 | 648 | 324 | 407 | 493 | 582 | 311 | 391 | 473 | 559 | 270 | 339 | 411 | 485 | 264 | 331 | 401 | 473 |
| ES2064K | 2000 | 600 | 400 | 237 | 297 | 360 | 425 | 213 | 267 | 323 | 382 | 221 | 277 | 335 | 396 | 197 | 247 | 299 | 353 | 202 | 254 | 308 | 363 | 182 | 228 | 277 | 327 |
| ES2065K | 2000 | 600 | 500 | 275 | 346 | 419 | 494 | 251 | 315 | 381 | 450 | 253 | 318 | 385 | 454 | 229 | 287 | 348 | 411 | 229 | 288 | 348 | 411 | 209 | 263 | 318 | 376 |
| ES2066K ⁽¹⁾ | 2000 | 600 | 600 | 315 | 395 | 479 | 565 | 290 | 364 | 440 | 520 | 287 | 360 | 436 | 515 | 262 | 329 | 399 | 471 | 257 | 322 | 390 | 460 | 237 | 298 | 361 | 426 |
| ES2068K ⁽²⁾ | 2000 | 600 | 800 | 387 | 486 | 588 | 694 | 370 | 464 | 562 | 663 | 351 | 440 | 533 | 629 | 329 | 413 | 500 | 591 | 311 | 390 | 473 | 558 | 294 | 369 | 447 | 528 |
| ES2060K | 2000 | 600 | 1000 | 438 | 550 | 666 | 786 | 432 | 542 | 656 | 775 | 411 | 515 | 624 | 737 | 401 | 503 | 609 | 719 | 368 | 462 | 559 | 660 | 353 | 443 | 537 | 634 |
| ES2084K | 2000 | 800 | 400 | 305 | 382 | 463 | 547 | 269 | 338 | 409 | 483 | 288 | 361 | 437 | 517 | 253 | 317 | 385 | 454 | 269 | 338 | 409 | 483 | 240 | 301 | 365 | 430 |
| ES2085K | 2000 | 800 | 500 | 349 | 438 | 531 | 627 | 313 | 392 | 475 | 561 | 327 | 410 | 497 | 587 | 291 | 365 | 442 | 522 | 301 | 378 | 458 | 541 | 273 | 342 | 414 | 489 |
| ES2086K ⁽³⁾ | 2000 | 800 | 600 | 387 | 486 | 588 | 694 | 358 | 449 | 544 | 642 | 362 | 455 | 551 | 650 | 329 | 413 | 500 | 591 | 334 | 420 | 508 | 600 | 307 | 385 | 466 | 550 |
| ES2089K ⁽⁴⁾ | 2000 | 800 | 800 | 445 | 559 | 677 | 799 | 432 | 542 | 657 | 776 | 423 | 531 | 643 | 760 | 410 | 514 | 623 | 735 | 401 | 503 | 610 | 720 | 375 | 471 | 570 | 673 |
| ES2080K | 2000 | 800 | 1000 | 506 | 635 | 769 | 908 | 489 | 613 | 743 | 877 | 471 | 591 | 716 | 845 | 463 | 581 | 703 | 830 | 446 | 560 | 678 | 801 | 442 | 554 | 671 | 792 |
| ES2004K | 2000 | 1000 | 400 | 372 | 467 | 566 | 668 | 327 | 410 | 497 | 587 | 358 | 449 | 544 | 642 | 311 | 391 | 473 | 559 | 338 | 424 | 514 | 607 | 300 | 376 | 455 | 537 |
| ES2007K | 2000 | 1000 | 500 | 404 | 507 | 614 | 725 | 378 | 474 | 574 | 678 | 393 | 494 | 598 | 706 | 355 | 446 | 540 | 637 | 378 | 474 | 574 | 678 | 340 | 426 | 516 | 610 |
| ES2006K | 2000 | 1000 | 600 | 438 | 550 | 666 | 786 | 419 | 526 | 637 | 752 | 423 | 531 | 643 | 759 | 401 | 503 | 609 | 719 | 413 | 519 | 628 | 742 | 380 | 476 | 577 | 681 |
| ES2008K | 2000 | 1000 | 800 | 506 | 635 | 769 | 908 | 481 | 604 | 732 | 864 | 479 | 601 | 727 | 859 | 463 | 581 | 703 | 830 | 460 | 577 | 699 | 825 | 456 | 572 | 693 | 819 |
| ES2000K | 2000 | 1000 | 1000 | 579 | 726 | 880 | 1039 | 548 | 687 | 832 | 982 | 536 | 672 | 814 | 961 | 516 | 647 | 784 | 926 | 505 | 633 | 767 | 905 | 499 | 626 | 758 | 895 |
| ES2024K | 2000 | 1200 | 400 | 414 | 519 | 628 | 742 | 387 | 486 | 589 | 695 | 405 | 508 | 616 | 727 | 371 | 466 | 564 | 666 | 401 | 504 | 610 | 720 | 363 | 455 | 551 | 651 |
| ES2025K | 2000 | 1200 | 500 | 454 | 569 | 690 | 814 | 427 | 536 | 649 | 766 | 441 | 553 | 670 | 791 | 420 | 527 | 639 | 754 | 433 | 544 | 659 | 778 | 409 | 513 | 622 | 734 |
| ES2026K | 2000 | 1200 | 600 | 493 | 618 | 749 | 884 | 462 | 580 | 702 | 829 | 474 | 595 | 720 | 850 | 451 | 566 | 686 | 809 | 462 | 580 | 702 | 829 | 451 | 566 | 686 | 810 |
| ES2028K | 2000 | 1200 | 800 | 573 | 719 | 871 | 1028 | 533 | 668 | 810 | 956 | 539 | 677 | 820 | 968 | 511 | 641 | 776 | 916 | 516 | 647 | 784 | 925 | 502 | 629 | 762 | 900 |
| ES2075K | 2000 | 1600 | 500 | 574 | 720 | 872 | 1030 | 499 | 625 | 758 | 895 | 556 | 697 | 845 | 997 | 481 | 604 | 732 | 864 | 532 | 668 | 809 | 955 | 471 | 591 | 715 | 845 |
| ES2076K | 2000 | 1600 | 600 | 632 | 793 | 961 | 1135 | 558 | 700 | 848 | 1001 | 604 | 758 | 918 | 1084 | 533 | 669 | 811 | 957 | 581 | 729 | 883 | 1043 | 520 | 653 | 791 | 934 |
| ES2078K | 2000 | 1600 | 800 | 755 | 947 | 1147 | 1354 | 679 | 851 | 1031 | 1218 | 713 | 895 | 1084 | 1279 | 643 | 806 | 976 | 1153 | 679 | 851 | 1031 | 1218 | 619 | 776 | 941 | 1110 |

⁽¹⁾ Values also valid for **ES2066EMCK**.

Values also valid for the versions with glazed door.

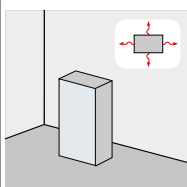
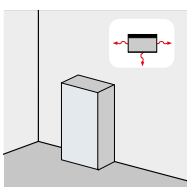
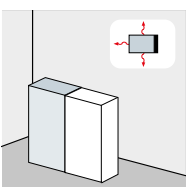
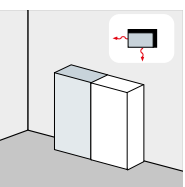
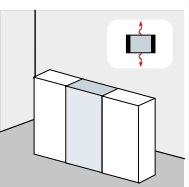
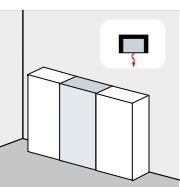
⁽²⁾ Values also valid for **ES2086EMCK**.

⁽³⁾ Values also valid for **ES2068EMCK**.

⁽⁴⁾ Values also valid for **ES2089EMCK**.

Dissipating power

IS2/IS2EMC enclosures - H =2200mm

| Maximum dissipation power (W) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------|--------|--------|-----------------------------------------------------------------------------------|-------|-------|-------|-----------------------------------------------------------------------------------|-------|-------|-------|-----------------------------------------------------------------------------------|-------|-------|-------|------------------------------------------------------------------------------------|-------|-------|-------|-------------------------------------------------------------------------------------|-------|-------|-------|-------------------------------------------------------------------------------------|-------|-------|-------|
| | | | |  | | | |  | | | |  | | | |  | | | |  | | | |  | | | |
| | | | | Single enclosure exposed on all sides | | | | Wall-mounted single enclosure | | | | First or last enclosure exposed | | | | Wall-mounted first or last enclosure | | | | Central enclosure exposed | | | | Wall-mounted central enclosure | | | |
| Code | Dimensions | | | Overtemperature values ΔT | | | | | | | | | | | | | | | | | | | | | | | |
| | H (mm) | W (mm) | D (mm) | 25 °C | 30 °C | 35 °C | 40 °C | 25 °C | 30 °C | 35 °C | 40 °C | 25 °C | 30 °C | 35 °C | 40 °C | 25 °C | 30 °C | 35 °C | 40 °C | 25 °C | 30 °C | 35 °C | 40 °C | 25 °C | 30 °C | 35 °C | 40 °C |
| ES2244K | 2200 | 400 | 400 | 186 | 233 | 282 | 333 | 169 | 212 | 256 | 303 | 165 | 207 | 251 | 296 | 150 | 188 | 228 | 269 | 148 | 186 | 225 | 266 | 135 | 169 | 204 | 241 |
| ES2245K | 2200 | 400 | 500 | 221 | 277 | 335 | 396 | 204 | 256 | 310 | 366 | 196 | 245 | 297 | 351 | 180 | 226 | 274 | 324 | 172 | 216 | 262 | 309 | 159 | 200 | 242 | 285 |
| ES2246K | 2200 | 400 | 600 | 255 | 320 | 388 | 458 | 239 | 300 | 364 | 429 | 225 | 283 | 342 | 404 | 210 | 264 | 320 | 377 | 195 | 245 | 296 | 350 | 183 | 229 | 278 | 328 |
| ES2248K | 2200 | 400 | 800 | 325 | 408 | 494 | 583 | 311 | 390 | 472 | 557 | 283 | 355 | 431 | 508 | 269 | 338 | 409 | 483 | 240 | 302 | 365 | 431 | 230 | 289 | 350 | 413 |
| ES2240K | 2200 | 400 | 1000 | 381 | 478 | 580 | 684 | 379 | 476 | 576 | 680 | 346 | 435 | 526 | 622 | 333 | 417 | 506 | 597 | 289 | 362 | 439 | 518 | 281 | 352 | 427 | 504 |
| ES2264K | 2200 | 600 | 400 | 255 | 320 | 388 | 458 | 228 | 286 | 347 | 409 | 236 | 296 | 359 | 424 | 210 | 264 | 320 | 377 | 217 | 272 | 330 | 389 | 195 | 244 | 296 | 349 |
| ES2265K | 2200 | 600 | 500 | 293 | 368 | 446 | 526 | 267 | 335 | 406 | 479 | 270 | 339 | 411 | 485 | 244 | 307 | 371 | 439 | 244 | 306 | 371 | 438 | 223 | 279 | 338 | 399 |
| ES2266K | 2200 | 600 | 600 | 336 | 422 | 511 | 604 | 309 | 388 | 470 | 555 | 306 | 384 | 465 | 549 | 280 | 351 | 425 | 502 | 274 | 343 | 416 | 491 | 253 | 317 | 384 | 453 |
| ES2268K | 2200 | 600 | 800 | 397 | 498 | 603 | 712 | 388 | 486 | 589 | 696 | 379 | 475 | 575 | 679 | 351 | 440 | 533 | 629 | 330 | 414 | 502 | 592 | 311 | 390 | 473 | 558 |
| ES2260K | 2200 | 600 | 1000 | 453 | 568 | 689 | 813 | 443 | 556 | 673 | 795 | 420 | 527 | 638 | 753 | 417 | 523 | 633 | 747 | 391 | 490 | 594 | 701 | 374 | 470 | 569 | 672 |
| ES2284K | 2200 | 800 | 400 | 325 | 408 | 494 | 583 | 287 | 360 | 436 | 515 | 306 | 385 | 466 | 550 | 269 | 338 | 409 | 483 | 287 | 360 | 436 | 515 | 255 | 320 | 387 | 458 |
| ES2285K | 2200 | 800 | 500 | 368 | 462 | 559 | 660 | 334 | 420 | 508 | 600 | 349 | 438 | 531 | 627 | 311 | 390 | 472 | 558 | 322 | 404 | 490 | 578 | 291 | 365 | 442 | 521 |
| ES2287K | 2200 | 800 | 600 | 397 | 498 | 603 | 712 | 382 | 479 | 580 | 685 | 385 | 483 | 585 | 690 | 351 | 440 | 533 | 629 | 355 | 446 | 540 | 637 | 324 | 407 | 493 | 582 |
| ES2288K | 2200 | 800 | 800 | 461 | 579 | 701 | 827 | 444 | 556 | 674 | 796 | 434 | 545 | 660 | 779 | 424 | 532 | 644 | 761 | 415 | 521 | 631 | 745 | 398 | 499 | 604 | 714 |
| ES2280K | 2200 | 800 | 1000 | 532 | 668 | 809 | 955 | 509 | 639 | 774 | 914 | 490 | 614 | 744 | 879 | 476 | 598 | 724 | 855 | 459 | 575 | 697 | 823 | 459 | 575 | 697 | 823 |
| ES2204K | 2200 | 1000 | 400 | 381 | 478 | 580 | 684 | 350 | 439 | 532 | 628 | 375 | 471 | 570 | 674 | 333 | 417 | 506 | 597 | 362 | 454 | 550 | 650 | 320 | 401 | 486 | 574 |
| ES2205K | 2200 | 1000 | 500 | 416 | 521 | 631 | 746 | 393 | 493 | 597 | 705 | 406 | 509 | 616 | 728 | 376 | 472 | 572 | 675 | 393 | 493 | 597 | 705 | 359 | 451 | 546 | 645 |
| ES2206K | 2200 | 1000 | 600 | 453 | 568 | 689 | 813 | 429 | 538 | 651 | 769 | 434 | 545 | 660 | 779 | 417 | 523 | 633 | 747 | 422 | 529 | 641 | 757 | 402 | 505 | 612 | 722 |
| ES2208K | 2200 | 1000 | 800 | 532 | 668 | 809 | 955 | 500 | 627 | 760 | 897 | 499 | 625 | 758 | 895 | 476 | 598 | 724 | 855 | 474 | 595 | 721 | 851 | 466 | 584 | 708 | 836 |
| ES2200K | 2200 | 1000 | 1000 | 621 | 779 | 943 | 1114 | 578 | 725 | 879 | 1037 | 566 | 710 | 860 | 1015 | 538 | 674 | 817 | 964 | 526 | 660 | 799 | 944 | 514 | 645 | 782 | 923 |
| ES2224K | 2200 | 1200 | 400 | 428 | 537 | 651 | 768 | 397 | 498 | 603 | 712 | 421 | 528 | 640 | 755 | 394 | 494 | 598 | 706 | 410 | 515 | 623 | 736 | 385 | 483 | 585 | 690 |
| ES2225K | 2200 | 1200 | 500 | 472 | 592 | 717 | 846 | 438 | 549 | 665 | 785 | 455 | 571 | 692 | 817 | 428 | 538 | 651 | 769 | 445 | 558 | 676 | 799 | 430 | 540 | 654 | 772 |
| ES2226K | 2200 | 1200 | 600 | 517 | 649 | 786 | 928 | 478 | 599 | 726 | 857 | 494 | 619 | 750 | 886 | 463 | 581 | 704 | 831 | 478 | 599 | 726 | 857 | 461 | 578 | 700 | 827 |
| ES2228K | 2200 | 1200 | 800 | 614 | 770 | 932 | 1101 | 561 | 703 | 852 | 1006 | 571 | 716 | 867 | 1024 | 532 | 667 | 808 | 954 | 540 | 677 | 820 | 968 | 518 | 649 | 787 | 929 |
| ES2275K | 2200 | 1600 | 500 | 613 | 769 | 932 | 1100 | 532 | 667 | 808 | 954 | 593 | 744 | 901 | 1064 | 513 | 643 | 779 | 920 | 568 | 713 | 863 | 1019 | 501 | 628 | 761 | 898 |
| ES2276K | 2200 | 1600 | 600 | 675 | 846 | 1025 | 1210 | 591 | 742 | 898 | 1061 | 649 | 814 | 986 | 1164 | 567 | 711 | 861 | 1016 | 616 | 773 | 936 | 1106 | 549 | 689 | 835 | 985 |
| ES2279K | 2200 | 1600 | 800 | 794 | 996 | 1206 | 1424 | 719 | 902 | 1093 | 1291 | 757 | 950 | 1150 | 1358 | 680 | 853 | 1033 | 1220 | 719 | 902 | 1093 | 1291 | 654 | 820 | 993 | 1173 |

Values also valid for the versions with glazed door.

In-depth technical information

Conformity with Standards

Reference Standard

- CEI 17-70 "Guide to application of the low voltage enclosure standards"
- CEI EN 60439-1 and new IEC 61439-1-2 Standard "Low voltage switchgear and controlgear assemblies (LV enclosures) Part 1: Assemblies subject to type tests (TTA) and assemblies partially subject to type tests (PTTA)"
- CEI EN 60529 (IEC 529-1) "Degrees of protection provided by enclosures (IP Code)"
- IEC 62262 "Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK Code)"
- CEI 17-43 (IEC 60890) "Method of temperature-rise assessment by extrapolation for partially type-tested assemblies (PTTA) of low voltage switchgear and controlgear (LV enclosures) not mass-produced"
- (*) CEI 17-52 (IEC 61117 "Method of assessment of the short-circuit withstand of switchgear and controlgear assemblies not mass-produced (PTTA)"
- CEI EN 62208 "Empty enclosures for low voltage switchgear and controlgear assemblies. General prescriptions"
- CEI EN 60204-1 (IEC 60204-1) "Safety of machinery – Electrical equipment of machines. Part 1: General requirements"
- IEEE Std 693 "Recommended Practice for Seismic Design of Substation"

7

Laws which have implications for electrical enclosures

The new series of IS2 enclosures comply with the national laws regulating responsibility regarding the matter of electrical apparatus and assemblies.

- Law 187/68, in which the following is stated:
 - Art.1. All the materials, apparatus, machinery, assemblies and electrical and electronic plants must be professionally made and constructed.
 - Art.2. The materials, apparatus, machinery, assemblies and electrical plants built according to the Italian Electrotechnical Committee are considered to be constructed professionally.
- The 2006/95/EC Low voltage Directive (which replaces 73/23/EEC and subsequent amendments) indicates what characteristics the electrical material commercialised must have.
In this case, the technical references are the Harmonised European Standards, and in case of their lacking, the IEC publications and, in order, National Standards.
- Legislative Decree n° 626 of 25 November 1996, implementation of the 93/68 EEC Directive on the matter of CE marking for the Low voltage Directive, modified with Legislative Decree n° 227 of 31 July 1997.
- Law 46/90 and Decree of implementation DPR n° 447 of 6 December 1991; introduce the obligation for the installer to issue the customer with a declaration of conformity with the Law relative to the plant and to which a report with the type of components used must be attached.
- Directive 1999/92/EC and 94/9/EC Directive Minimum requirements for improvement of safeguarding the health and safety of workers who may be exposed to the risk of explosive atmospheres

In-depth technical information

SR2 Enclosures - AM2 Cabinets - IS2 Enclosures

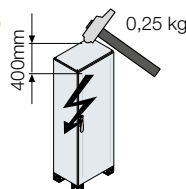
IK degree of resistance to impacts

IK 0



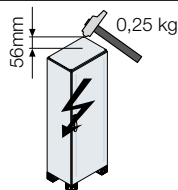
No protection against impacts

IK 06



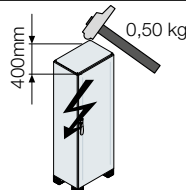
Resistance to impacts with impact energy up to **1,00 J**

IK 01



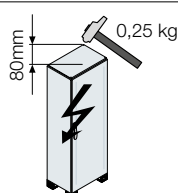
Resistance to impacts with impact energy up to **0,150 J**

IK 07



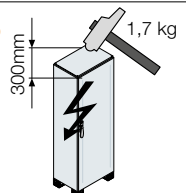
Resistance to impacts with impact energy up to **2,00 J**

IK 02



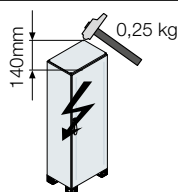
Resistance to impacts with impact energy up to **0,200 J**

IK 08



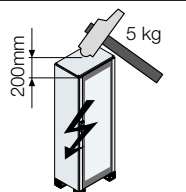
Resistance to impacts with impact energy up to **5,00 J**

IK 03



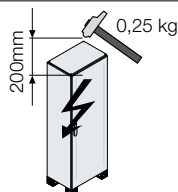
Resistance to impacts with impact energy up to **0,350 J**

IK 09



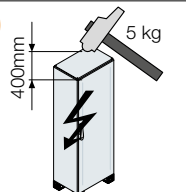
Resistance to impacts with impact energy up to **10,00 J**

IK 04



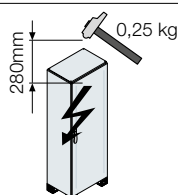
Resistance to impacts with impact energy up to **0,500 J**

IK 10



Resistance to impacts with impact energy up to **20,00 J**

IK 05



Resistance to impacts with impact energy up to **0,700 J**

7

Test performed according to the IEC 62262 Standard.

Degree of protection provided by enclosures for electrical equipment against external mechanical impacts (IK Code).

| | With blind door | With glass door |
|---------------------------------------------|-----------------|-----------------|
| SR2 Enclosures | IK10 | IK09 |
| AM2 cabinets | IK10 | IK09 |
| IS2 enclosure blind and glass door | IK10 | IK09 |
| IS2 enclosure console/PC/compartment | IK10 | IK08 |
| IS2 EMC Enclosures | IK10 | |

In-depth technical information

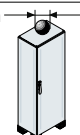
SR2 Enclosures - AM2 Cabinets - IS2 Enclosures


Degrees of protection IP

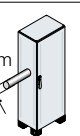
1st NUMBER: protection against solid bodies

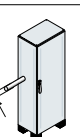
0

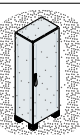
No protection

1  Protection against the penetration of solid bodies with a diameter of over 50 mm

2  Protection against the penetration of solid bodies with a diameter of over 12 mm or a length of over 80 mm

3  Protection against the penetration of solid bodies with a diameter or thickness of over 2.5 mm

4  Protection against the penetration of solid bodies with a diameter or thickness of over 1.0 mm

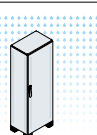
5  Protection against the penetration of dusts

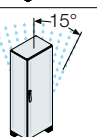
6  Total protection against the penetration of dusts

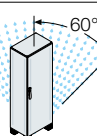
2nd NUMBER: protection against liquids

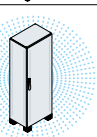
0

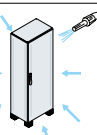
No protection

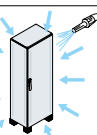
1  Protection against the penetration of drops of water falling vertically

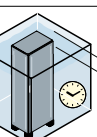
2  Protection against the penetration of drops of water falling at an angle of up to 15° from vertical

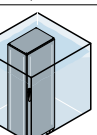
3  Protection against the penetration of drops of water falling at an angle of up to 60° from vertical

4  Protection against the penetration of splashes of water from all directions

5  Protection against the penetration of water sprayed by a hose from all directions

6  Protection against the penetration of sea water

7  Protection against the penetration of water during temporary immersion

8  Protection against the penetration of water during continual immersion

Tests carried out in accordance with IEC EN 60529. Degree of protection of the enclosures (IP code).

| | With blind door | With cover Hinged/ screwed | With door and panel ventilated/air conditioning | With closing profile |
|---------------------------------------------------------------------------|-----------------|----------------------------------|----------------------------------------------------------|-------------------------|
| SR2 Enclosures | IP65 | IP65 | | |
| AM2 cabinets | IP65 | IP65 | | |
| IS2 enclosure blind and glass door, with fixed cable entry flanges | IP65 | IP65 | IP54 | |
| IS2 enclosure console/PC/compartiment | IP41 | IP41 | IP41 | |
| IS2 EMC Enclosures | IP54 | IP54 | | |
| IS2 Enclosures without door | IP55 | IP55 | | IP31 |

IP degree of protection

Protection against penetration of solid bodies

| 1st characteristic number | Brief description | Complete description |
|---------------------------|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0 | Unprotected | No particular protection |
| 1 | Protected against solid bodies larger than 50mm | No large surface of the human must be able to penetrate, for example a hand (voluntary protection is not provided) or solid bodies larger than 50mm in diameter. |
| 2 | Protected against solid bodies larger than 12mm | Fingers or similar objects of length not exceeding 80mm or solid bodies of diameter higher than 12 mm must not penetrate |
| 3 | Protected against solid bodies larger than 2.5mm | Tools, wires, etc. with diameter or thickness greater than 2.5mm or solid bodies with diameter greater than 2.5mm must not be able to penetrate |
| 4 | Protected against solid bodies larger than 1.0mm | Wires or plates thicker than 1.0mm or solid bodies with diameter greater than 1.0mm must not be able to penetrate |
| 5 | Protected against dust | Penetration of dust is not totally excluded, but the amount penetrating is not enough to harm correct operation of the material |
| 6 | Totally protected against dust | No penetration of dust is allowed |

Protection against penetration of water

| 2nd characteristic number | Brief description | Complete description |
|---------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0 | Unprotected | No particular protection |
| 1 | Protected against vertical fall of drops of water | The drops of water which fall vertically must not cause harmful effects |
| 2 | Protected against drops of water up to 15° from vertical | The drops of water which fall vertically must not cause harmful effects when the housing is leant at any angle up to 15° in relation to its normal position |
| 3 | Protected against rain | The water which falls like rain from a direction with an angle of up to 60° to vertical must not cause harmful effects |
| 4 | Protected against the splashes of water | Water splashed over the housing from all directions must not cause harmful effects |
| 5 | Protected against jets | Water sprayed with a nozzle onto the housing from all direction must not cause harmful effects |
| 6 | Protected against waves | In the case of waves or strong jets of water, the water must not enter the housing in a harmful amount |
| 7 | Protected against the effects of temporary immersion | Water in a harmful amount must not be able to penetrate inside the housing immersed in certain pressure and duration conditions |
| 8 | Protected against the effects of continual immersion | The material is suited to remaining immersed in water in |

In-depth technical information

SR2 Enclosures - AM2 Cabinets - IS2 Enclosures

NEMA “National Electrical Manufacturers Association” Classification

| Type | Description | Products classified |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| 1 | Enclosures constructed for indoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment and to provide a degree of protection against falling dirt. | SR2 - AM2 - IS2 |
| 2 | Enclosures constructed for indoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment, to provide a degree of protection against falling dirt, and to provide a degree of protection against dripping and light splashing of non-corrosive liquids. | |
| 3 | Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt, rain, sleet, snow, and windblown dust; and that will be undamaged by the external formation of ice on the enclosure. | SR2 - AM2 - IS2 |
| 3R* | Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt, rain, sleet, and snow; and that will be undamaged by the external formation of ice on the enclosure. | |
| 3S | Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt, rain, sleet, snow, and windblown dust; and in which the external mechanism(s) remain operable when ice laden. | |
| 4 | Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt, rain, sleet, snow, windblown dust, splashing water, and hose-directed water; and that will be undamaged by the external formation of ice on the enclosure. | |
| 4x | Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt, rain, sleet, snow, windblown dust, splashing water, hose-directed water, and corrosion; and that will be undamaged by the external formation of ice on the enclosure. | |
| 5 | Enclosures constructed for indoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt; against settling airborne dust, lint, fibers, and flyings; and to provide a degree of protection against dripping and light splashing of non-corrosive liquids. | |
| 6 | Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt, rain, sleet, snow, hose-directed water, and the entry of water during occasional temporary submersion at a limited depth, and that will be undamaged by the external formation of ice on the enclosure. | |
| 6P | Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt, rain, sleet, snow, hose-directed water, corrosion and the entry of water during prolonged submersion at a limited depth; and that will be undamaged by the external formation of ice on the enclosure. | |
| 12 | Enclosures constructed (without knockouts) for indoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt, against circulating dust, lint, fibers, and flyings; against dripping and light splashing of non-corrosive liquids; and against light splashing and consequent seepage of oil and non-corrosive coolants. | SR2 - AM2 - IS2 |
| 12K | Enclosures constructed (with knockouts) for indoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt, against circulating dust, lint, fibers, and flyings; against dripping and light splashing of non-corrosive liquids; and against light splashing and consequent seepage of oil and non-corrosive coolants. | |
| 13 | Enclosures constructed for indoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt, against circulating dust, lint, fibers, and flyings; and against the spraying, splashing, and seepage of water, oil, and non-corrosive coolants. | |

* Type 3R has been assigned to enclosure provided with protective hood.

ATEX Certification

TABLE 1 - GROUPS, CATEGORIES AND LEVELS OF PROTECTION

(source: Atex Guide – first edition - European Commission DG Enterprises, May 2000)

| Level of protection | Group I | Group II | Protection performances | Operating conditions* |
|-------------------------------------------------------|-----------|----------|----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| Very high | M1 | | Two independent means of protection or safety guaranteed even when two faults independent of each other occur | The apparatus remains supplied and in operation even in the presence of an explosive atmosphere |
| Very high | | 1 | Two independent means of protection or safety guaranteed even when two faults independent of each other occur | The apparatus remains supplied and in operation even in areas 0, 1, 2 (G) and/or 20, 21, 22 (D) |
| High | M2 | | Protection suited to normal operation and heavy operating conditions (37) | The power supply is cut off to the apparatus in the presence of an explosive atmosphere |
| High | | 2 | Protection suited to normal operation and to frequent disturbances during which the faults are normally taken into account | The apparatus remains supplied and in operation in areas 1, 2 (G) and/or 21, 22 (D) |
| SR2 Enclosures - AM2 Cabinets - IS2 Enclosures | | | | |
| Normal | | 3 | Protection suited to normal operation | The apparatus remains supplied and in operation in areas 2 (G) and/or 22 (D) |

* Note: Also see directive 1999/92/CE regarding the minimum prescriptions for improving safety and health of the workers who may be exposed to the hazard of explosive atmospheres ⁽³⁸⁾.

⁽³⁷⁾ Although the wording of the requirements of apparatus belonging to categories M2 and 2 is different in the relative attachments to directive 94/9/CE, both categories are treated in parallel by the IEC 50014 standard and by the specific regulations. The concepts of technical protection relative to electrical apparatus belonging to category M2 and 2G (gas) in conformity with the IEC 50014 standard are identical. The requirements relative to category 2D (dusts) may, on the other hand, need to be considered separately.

⁽³⁸⁾ GU L23, of 28.1.2000.

7

TABLE 2 - Characteristics and areas corresponding to equipment in group II

(source: "Guide to certification - Directive 94/9/CE - Atex – on the subject of products destined to be used in potentially explosive atmospheres" - Ipsesl)

| MANUFACTURER | | | | | | USER | |
|------------------------------------------------------------------------------------------------|----------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------------------|-------------------------------|
| DPR 126/98 - Directive 94/9/CE | | | | | | D.Lgs. 233/03 | |
| Additional requirements for equipment (including the devices and components connected with it) | | | | | | (Direttiva 1999/92/CE) | |
| Group | Category | Means of protection | | | | Presence of explosive atmosphere | Area of use |
| | | Level | Protection characteristics (Annex. I) | Construction characteristic (Annex. II) | Applicable RES | | |
| II | 1 | Very high | In the case of a fault in a means of protection, the level of safety is guaranteed by at least one second independent means of protection. Furthermore, the level of safety is also guaranteed if two anomalies independent of each other occur | Must be designed and constructed so that the ignition sources are not activated, even in the case of anomalies | 1.0 1.1 1.2 1.3 1.4 1.5 1.6 2.1 | Continuous or for long periods of time | 0 1 2 20 21 22 |
| | 2 | High | The level of safety is guaranteed even in the presence of recurring anomalies or operating defects of the equipment which must normally be taken into account | Must be designed and constructed so as to preclude the ignition sources even in the case of recurring anomalies or operating defects of the equipment which must normally be taken into account | 1.0 1.1 1.2 1.3 1.4 1.5 1.6 2.2 | Intermediate situation between the previous and the following one | 1 2 21 22 |
| SR2 Enclosures - AM2 Cabinets - IS2 Enclosures | | | | | 1.0 1.1 1.2 1.3 1.4 1.5 1.6 2.3 | Scarce probability and if it occurs it is of short duration | 2 22 |
| | 3 | Normal | The level of safety is guaranteed during normal operation | Must be designed and constructed so as to preclude the sources of ignition which can be anticipated during normal operation | | | |

In-depth technical information

Electrical continuity

Electrical continuity of the structure and of the fixed and moving parts

Figure 1

Electrical continuity of the structure in the IS2 cabinets is automatically guaranteed just with assembly of the structure, without the use of dedicated accessories.

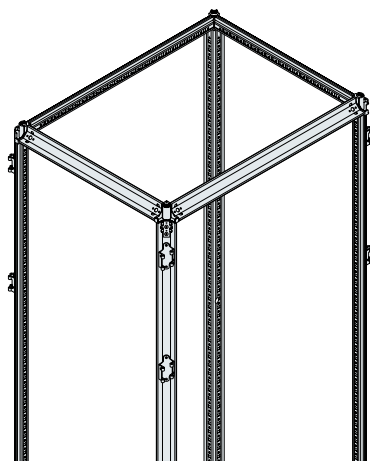


Figure 2

In the case of modular panels, electrical continuity is guaranteed in the closed position by the special shape of the hinge (ABB patent).

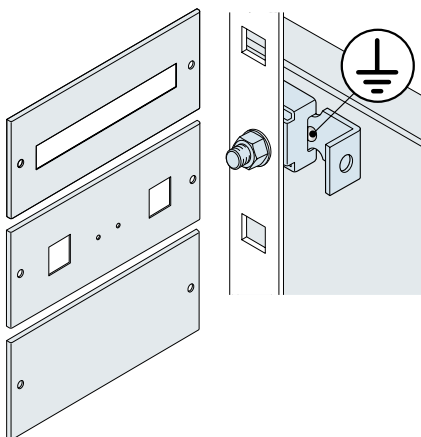


Figure 3

The special shape of the hinges also allows connection by means of traditional copper braids (to be installed if the panel can be opened).

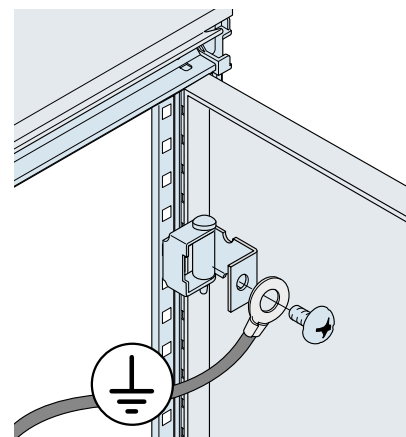
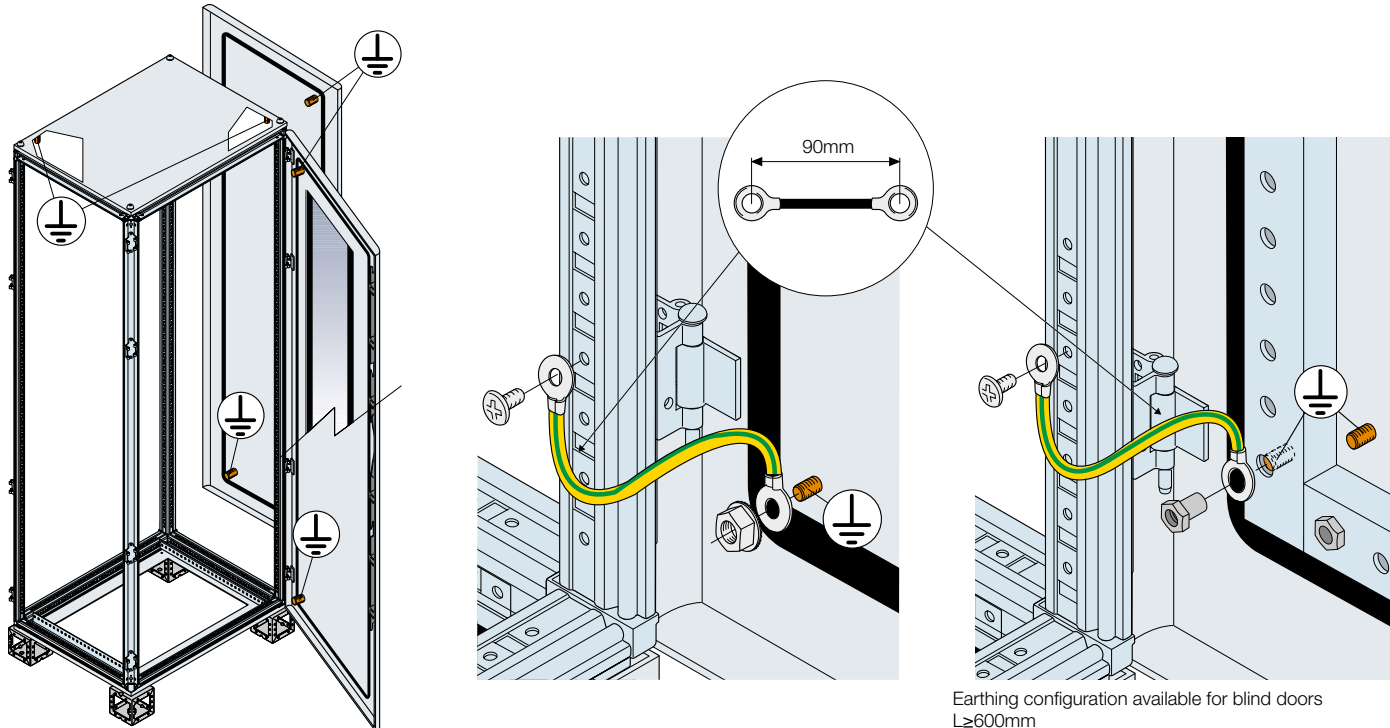


Figure 4

The blind and glazed doors, side panels, rear panels and roofs are fitted with M6 copper captive self-removing paint screws for earthing (test report LBRP14175/00).



Tests performed according to IEC 62208 (par. 7.7) Standard Empty enclosures for low voltage protection switchgear and controlgear assemblies. General prescriptions

Electrical continuity

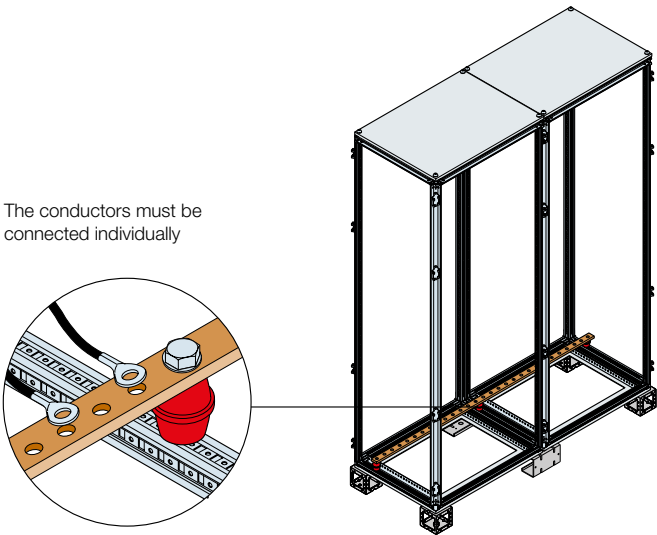
Calculation of the PE protection conductor

The IEC 60439-1 and new 61439-1-2 standard indicates the methods for calculating the cross-section of the PE protection conductor which must be suitably sized to withstand the thermal and dynamic components of the fault currents. The following conditions must be verified when identifying the fixing position of the busbar:

- the busbar must be connected directly to the earthed parts of the enclosure (structure);
- the busbar must be connected in an easily accessible position.

For sizing, use the values in the table, taken from the CEI EN60439-1 Standard and new IEC 61439-1-2 Standard (P.7.4.3.1.7)

| S (mm²) | | | | | SP (mm²) | | | | |
|------------|---|---|---|-----|-------------|-----|--|--|--|
| | | S | ≤ | 16 | | S | | | |
| 16 | < | S | ≤ | 35 | | 16 | | | |
| 35 | < | S | ≤ | 400 | | S/2 | | | |
| 400 | < | S | ≤ | 800 | | 200 | | | |
| | | S | > | 800 | | S/4 | | | |



Equipotentiality

The accessible conductive parts of a device, which cannot be connected to the protection circuit by means of its own means of connection, must be connected to the protection circuit of the apparatus for equipotentiality of the protection by means of an equipotential conductor, whose cross-section must be selected according to the table given below.

| Rated service current Ie (A) | | | | | Minimum cross-section of the equipotential protection conductor (mm²) | | | | |
|---------------------------------|---|----|---|----|--------------------------------------------------------------------------|-----|--|--|--|
| | | Ie | ≤ | 20 | | S | | | |
| 20 | < | Ie | ≤ | 25 | | 2.5 | | | |
| 25 | < | Ie | ≤ | 32 | | 4 | | | |
| 32 | < | Ie | ≤ | 63 | | 6 | | | |
| 63 | < | Ie | | | | 10 | | | |

S = cross-section of the phase conductor (mm²)

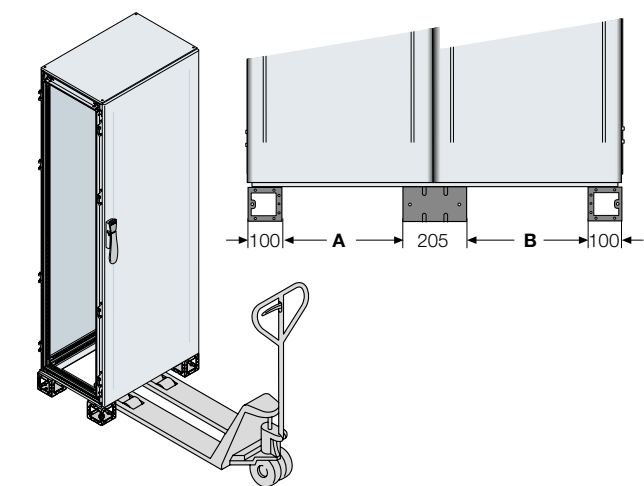
PEN conductor

The cross-section of the PEN conductors of a piece of apparatus must be determined using the same procedure as the one followed for the neutral conductor (N). The minimum cross-section of a copper conductor must be 10mm². The PEN conductor does not need to be insulated. The parts of the structure must not be used as PEN conductors. However, the assembly tracks, either in copper or aluminium, can be used as PEN conductors. For conductors not made of copper, the above cross-sections are replaced with cross-sections of equivalent conductivity, which may require larger sized terminals.

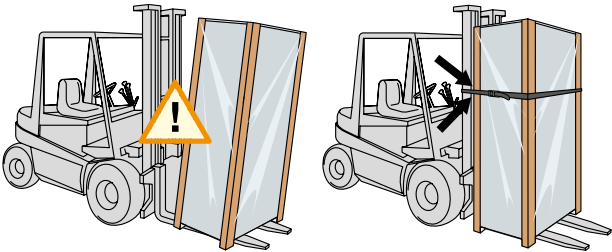
In-depth technical information

Handling

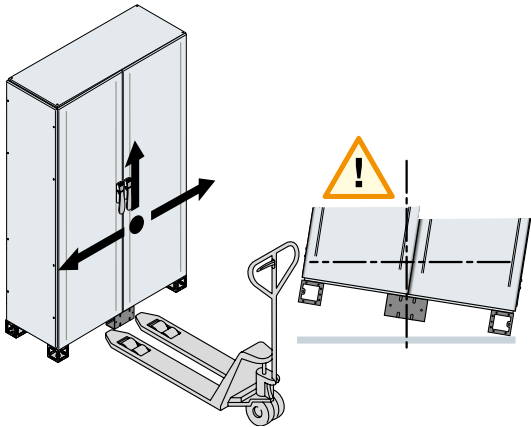
Handling by means of transpallets



For greater safety during transport by means of a fork-lift truck, it is advisable to anchor the enclosure to the fork-lift truck:



In the case of W=800mm structures (with internal or external cable container) containing a busbar system, check the centre of gravity before handling.



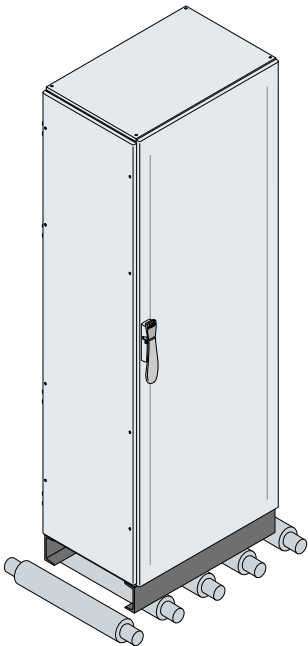
7

Palletisable plinth

| | A (mm) | B (mm) |
|----------------------------------|-----------|-----------|
| External cable container W=300mm | 88 | |
| Structure W=400mm | 188 | |
| Structure W=600mm | 388 | |
| Structure W=800mm | 588 | |
| Structure W=1000mm | 788 | |
| Structure W=1200mm | 391.5 | 391.5 |
| Structure W=1600mm | 591.5 | 591.5 |

Handling by rollers

Handling IS2 structures by means of rollers: only with EZ... reinforced plinth.



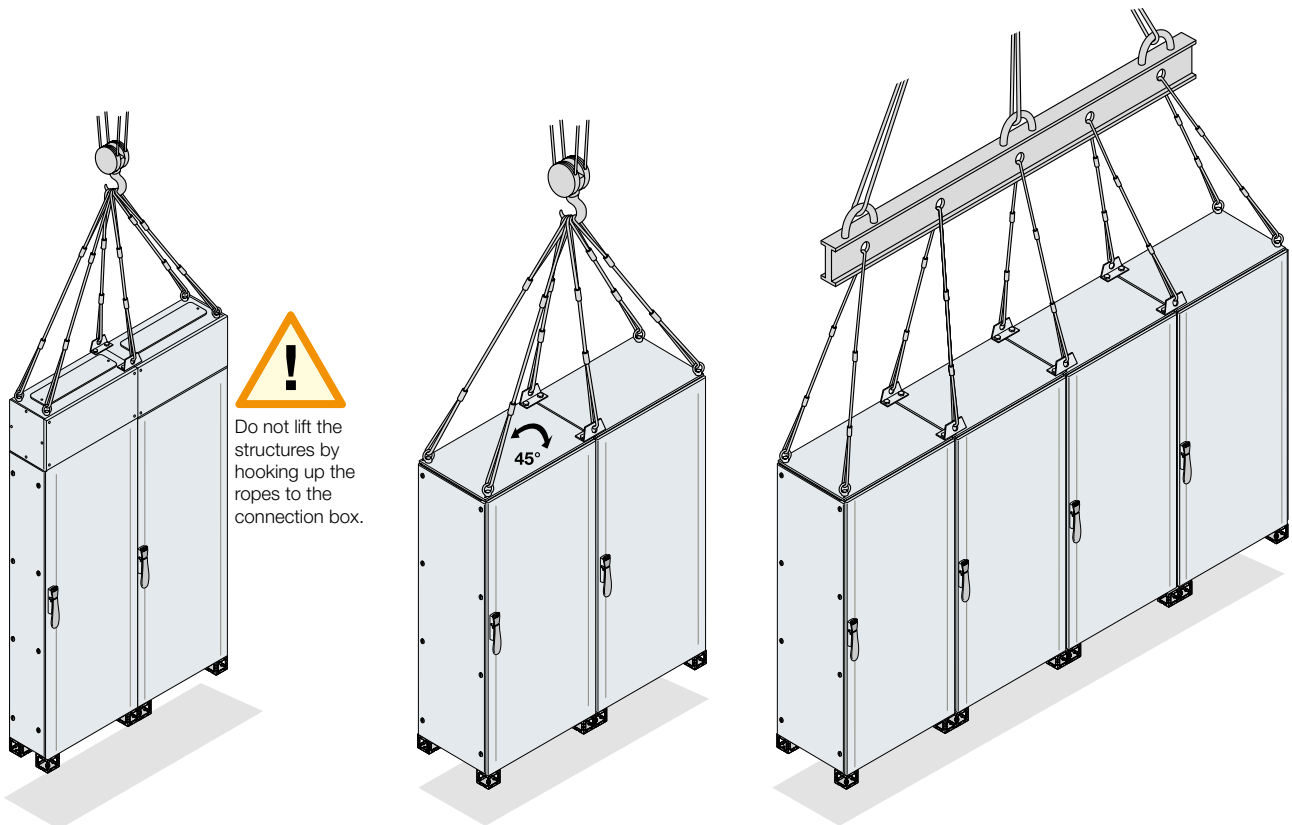
Handling

Handling by means of bridge crane

For handling by means of crane or bridge crane, check the following conditions before lifting the enclosure:

- excellent state of the ropes or chains;
- the angle between the lifting ropes and the roof of the switchboard must be $\geq 45^\circ$;
- maximum number of columns which can be transported see pages 8/30;
- maximum weight which can be lifted see pages 8/31.

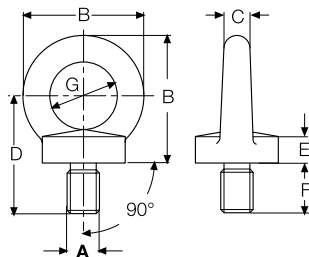
When there are several columns placed side by side, to respect the above-mentioned conditions, a lifting beam with appropriate characteristics can be used.



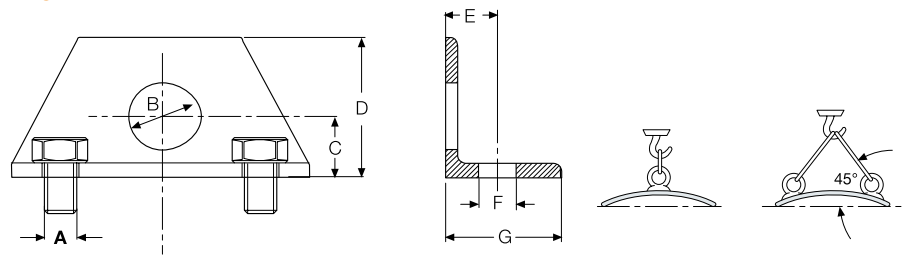
Tests carried out according to IEC 62208 (par. 8.4) Standard
Empty enclosures for low voltage protection switchgear and controlgear assemblies.
General prescriptions.

DIN 580 Standard regarding mechanical connection elements (only for lifting eyebolts)

Lifting eyebolts



Lifting reinforcements

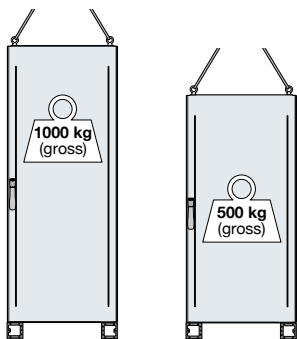


| | A | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | G (mm) | Load 1 (kg) | Load 2 (kg) | Tightening (Nm) |
|------------------------|-----|--------|--------|--------|--------|--------|--------|-------------|-------------|-----------------|
| Lifting eyebolts | M12 | 54 | 12 | 28 | 10 | 22 | 30 | 340 | 240 | 8* |
| Lifting reinforcements | M12 | ø20 | 30 | 60 | 28 | ø10 | 40 | 510 | 350 | 40 |

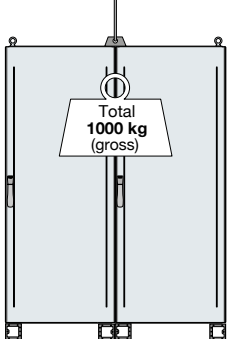
* Tighten manually without mechanical aids because the latter may cause over-tension in the stem, reducing the eyebolt capacity.

In-depth technical information

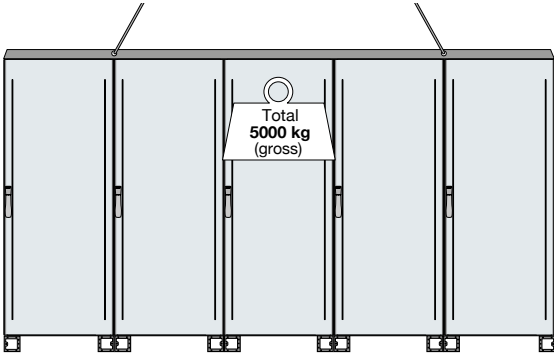
Maximum capacities (in accordance with the IEC 62208 Standard)



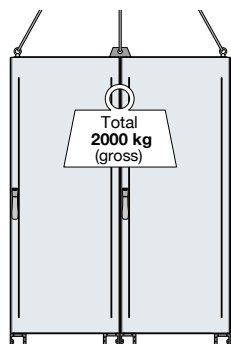
| | IS2 | AM2 |
|----------------------------|--------|--------|
| Number of columns | 1 | 1 |
| Weight of single column Kg | 1000 | 500 |
| Total weight of columns Kg | 1000 | 500 |
| Joining Kit | | |
| Lifting Kit | AA9610 | TA5510 |
| Number of braces used | 4 | 4 |



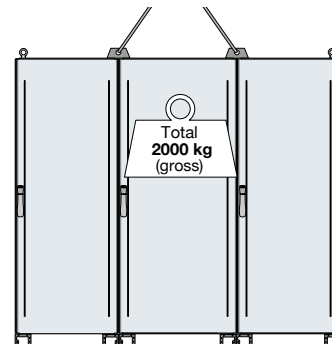
| | IS2 | IS2 EMC |
|------------------------------------------------------------------------------------|------------------|---------------------|
| Number of columns | 2 | 2 |
| Weight of single column Kg | 500 | 500 |
| Total weight of columns Kg | 1000 | 1000 |
| Joining Kit | | |
| The joining of the angle pieces ZN1010 can be obtained by means of M5 screws | EV0002 EV0003 | EV0002 EV0006EMC |
| Lifting Kit | EV1007 | EV1007 |
| Number of braces used | 2 | 2 |



| | IS2 | IS2 EMC |
|----------------------------|--------------------|--------------------|
| Number of columns | 5 | 5 |
| Weight of single column Kg | 1000 | 1000 |
| Total weight of columns Kg | 5000 | 5000 |
| Joining Kit | EV0003 | EV0006EMC |
| By means of TU1000 | By means of TU1000 | By means of TU1000 |
| Lifting Kit | 4 | 4 |
| Number of braces used | 4 | 4 |

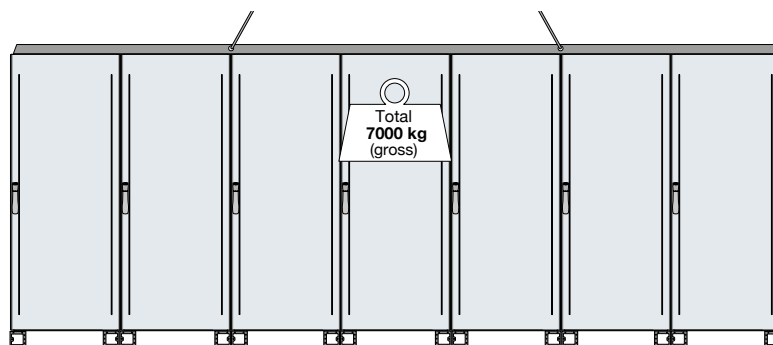


| | IS2 | IS2 EMC |
|----------------------------|--------------------------------|-----------------------------------|
| Number of columns | 2 | 2 |
| Weight of single column Kg | 1000 | 1000 |
| Total weight of columns Kg | 2000 | 2000 |
| Joining Kit | EV0002 EV0003 | EV0002 EV0006EMC |
| Lifting Kit | AA9610 EZ1007 | AA9610 EZ1007 |
| Number of braces used | 6 | 6 |



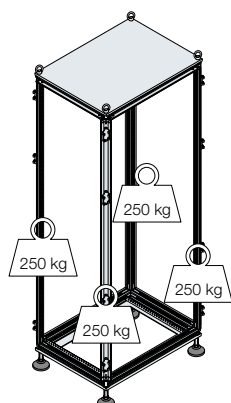
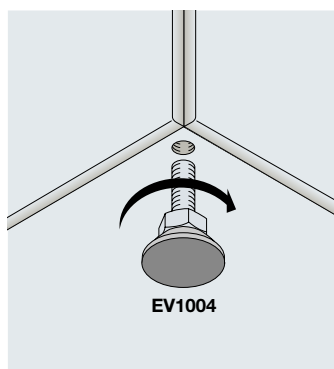
| | IS2 | IS2 EMC |
|------------------------------------------------------------------------------|--------------------------------|-----------------------------------|
| Number of columns | 3 | 3 |
| Weight of single column Kg | 500 | 500 |
| Total weight of columns Kg | 1500 | 1500 |
| Joining Kit | EV0002 EV0003 | EV0002 EV0006EMC |
| The joining of the angle pieces ZN1010 can be obtained by means of M5 screws | | |
| Lifting Kit | EV1007 | EV1007 |
| | 4 | 4 |
| Number of braces used | 6 | 6 |

7

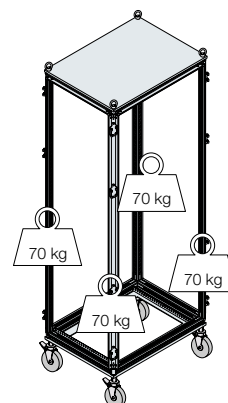
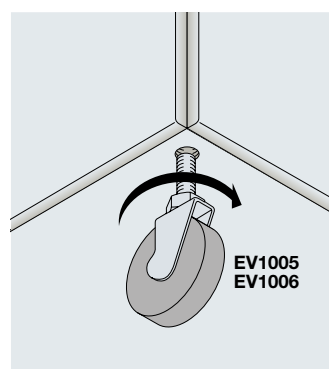


| | IS2 | IS2 EMC |
|----------------------------|--------------------------------|-----------------------------------|
| Number of columns | 7 | 7 |
| Weight of single column Kg | 1000 | 1000 |
| Total weight of columns Kg | 7000 | 7000 |
| Joining Kit | EV0003 TU1000 | EV0006EMC TU1000 |
| Lifting Kit | By means of TU1000 | By means of TU1000 |
| Number of braces used | 4 | 4 |

Fitten weels



Braked weels



In-depth technical information

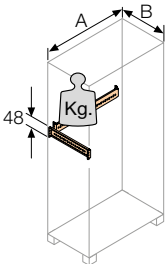
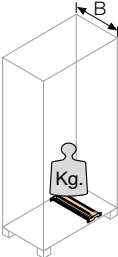
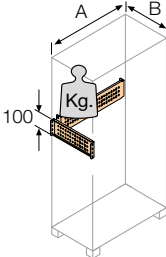
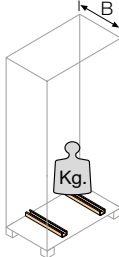
Maximum capacities

(in accordance with the IEC 62208 Standard)

| | Door | Side panels | Rear panels | Roof | Standard mounting plate |
|------------|------|-------------|-------------|--------|-------------------------|
| | | | | | |
| | Kg | A (mm) | Kg | A (mm) | Kg |
| SR2 | 20 | | | | 50 |
| AM2 | 50 | | > 800 | 90 | 180 |
| | | | ≤ 800 | 110 | |
| IS2 | 50 | > 800 | 90 | > 800 | 90 |
| | | ≤ 800 | 110 | ≤ 800 | 110 |
| | | | | 40 | 500 |

7

| | Kit for moving back plate back | | Oversized mounting plate | Swing rack frame | Fixed rack frame | Horizontal partition panel | Brackets for wall fixing | |
|-----|--------------------------------|-----|--------------------------|------------------|------------------|----------------------------|--------------------------|-----|
| | | | | | | | | |
| | Codice | Kg | Kg | Kg | Kg | Kg | Codice | Kg |
| SR2 | | | | | | 100 | AA1206 | 200 |
| AM2 | EA5100 | 200 | | | 90 | | | |
| IS2 | EA2100 | 600 | 500 | 90 | 90 | | | |

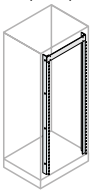
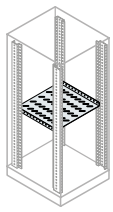
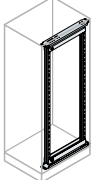
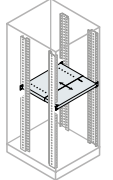
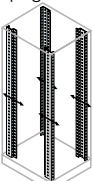
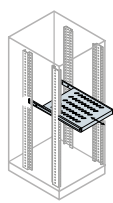
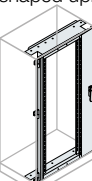
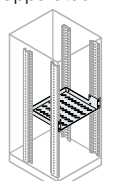
| Crosspieces H = 48mm | Crosspieces for fixing heavy accessories | Crosspieces H =100mm | Trasformer older crosspieces | | | | | | | | |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------|-----|--------|----------|-----|--------|----------|-----|
|  |  |  |  | | | | | | | | |
| Codice | A/B (mm) | Kg | Codice | B (mm) | Kg | Codice | A/B (mm) | Kg | Codice | A/B (mm) | Kg |
| EB0400 | 400 | 110 | EB4100 | 400 | 210 | EB0440 | 400 | 220 | EB6102 | 600 | 320 |
| EB0500 | 500 | 110 | EB5100 | 500 | 190 | EB0550 | 500 | 210 | EB8102 | 800 | 250 |
| EB0600 | 600 | 100 | EB6100 | 600 | 175 | EB0660 | 600 | 210 | EB1102 | 1000 | 200 |
| EB0800 | 800 | 90 | EB8100 | 800 | 150 | EB0880 | 800 | 185 | | | |
| EB1000 | 1000 | 70 | EB1100 | 1200 | 130 | EB1010 | 1000 | 160 | | | |
| EB1200 | 1200 | 50 | | | | EB1020 | 1200 | 140 | | | |

In-depth technical information

Busbars with shaped section and flat busbars

Maximum capacities

(in accordance with the IEC 62208 Standard)

| Rack code | CODES | IS2 | AM2 | Rack code | CODES | IS2 | AM2 |
|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------------------------------------|----------------------------|-------|-----|
| Fixed rack frame "L" shaped profile  | EG1400 EG1600 EG1800 EG2000 EG2200 EG1880 EG2080 EG2280 | 90 kg with one frame 250 kg with two frame (the frame can be fixed on the front or rear uprights; for intermediate frame mounting use EM1804, EM2004 or EM2204) | 90 kg | Universal shelves  | EV0400 EV0600 EV0800 | 20 kg | NA |
| Swing rack frame "L" shaped profile  | EG1405 EG1605 EG1801K EG2001K EG2201K EG1803K EG2003K EG2203K | 90 kg | NA | Adjustable in depth shelf 1HE  | EV0041 | 80 kg | NA |
| 19" cranked shaped uprights  | EG1805 EG2005 EG2205 | 1000 kg with 4 uprights on shelves 250 kg with 2 uprights | NA | Withdrawable shelves  | EV3500 EV5000 | 40 kg | NA |
| Swing rack frame "C" shaped upright  | EG1804K EG2004K EG2204K | 120 kg 160 kg with extra central EV0004 180° hinge | NA | Fixed Shelves for apparatus  | EV1385 EV2385 | 20 kg | NA |

7

Mechanical and electrical characteristics

Conformity with IEC 60439-1 and new IEC 61439-1-2 Standard

The IS2 cabinets have undergone the type tests foreseen by the IEC 60439-1 and new IEC 61439-1-2 Standard in ABB laboratories. The results of these tests guarantee the performances of the IS2 cabinets and, by using ABB SACE metalwork structures and accessories, such as moulded-case and modular circuit-breakers, allow the end enclosure builder not to carry out further type tests, as long as the selection criteria and assembly instructions of the various components are respected, just carrying out the individual tests foreseen by the IEC 61439-1-2 Standard. It is possible to make reference to these results, given below, to draw up the declaration of conformity of the electrical enclosure.





Characteristics of the materials

| Components | Material |
|-------------------|--------------------------------------------------------------|
| Busbars | electrolytic copper 99.9% CU-ETP |
| Busbar holder | self-extinguishing thermoplastic VO |
| Tightening screws | Material class 8.8 |
| Tightening torque | M6 screws - 10N.m M8 screws - 20N.m M10 screws - 30N.m |









In-depth technical information

Busbars with shaped section and flat busbars



Technical characteristics of busbars with shaped section up to 1600A

| Cross-section | In (A) | Code | N° busbars/ phase | Capacity (A) IP65 | Icw max (kA) | IpK (kA) | Dimensions | | | Weight (kg) |
|-----------------------------------------------------------------------------------|-----------|---------------|-------------------------|-------------------------|-----------------|-------------|-------------|----------------------------|----------------|----------------|
| | | | | | | | SxS (mm) | Cross- section (mm²) | Lenght (mm) | |
|  | 400 | BA0400 | 1 | 400 | 35 | 74 | 20x20 | 200 | 1730 | 4 |
|  | 800 | BA0800 | 1 | 800 | 35 | 74 | 20x20 | 283 | 1730 | 4.4 |
|  | 1250 | BA1250 | 1 | 1250 | 65 | 143 | 20x60 | 603 | 1730 | 9.3 |
|  | 1600 | BA1600 | 1 | 1600 | 65 | 143 | 20x60 | 703 | 1730 | 10 |

Technical characteristics of flat busbars up to 1600A

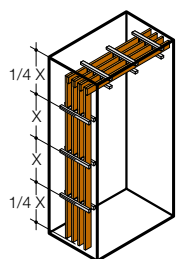
| Cross-section | In (A) | Code | N° busbars/ phase | Capacity (A) IP65 | Icw max (kA) | IpK (kA) | Dimensions | | Weight (kg) |
|------------------------------------------------------------------------------------|-----------|-----------------|-------------------------|-------------------------|-----------------|-------------|-------------|----------------|----------------|
| | | | | | | | SxS (mm) | Lenght (mm) | |
|  | 250 | BR0250 | 1 | 250 | 32 | 48 | 15X5 | 1750 | 1.35 |
|  | 400 | BR0400 | 1 | 400 | 32 | 48 | 25X5 | 1750 | 3.4 |
|  | 630 | BR0630 | 1 | 630 | 32 | 68 | 30X10 | 1750 | 4.4 |
|  | 400 | PBFC3205 | 1 | 400 | 35 | 74 | 32X5 | 1750 | 2.1 |
|  | 630 | PBFC5005 | 1 | 630 | 50 | 105 | 50X5 | 1750 | 3.4 |
|  | 800 | PBFC6305 | 1 | 800 | 50 | 105 | 63X5 | 1750 | 4.4 |
|  | 1250 | PBFC1005 | 1 | 1250 | 50 | 105 | 100X5 | 1750 | 7.25 |
|  | 1600 | PBFC1001 | 1 | 1600 | 100 | 220 | 100X10 | 1750 | 14.5 |

Busbar holders for busbars with shaped section

| Type | | Icc (kA) | In (A) | Busbars with shaped section | | | | |
|-----------------------------------------------------------------------------------|--------|-------------|-----------------------|-----------------------------|----------|----------|----------|----------|
| | | | | 400A | 800A | 1250A | 1600A | |
|  | Linear | 35 | PB0803 | L1-L2-L3 | 3xBA0400 | 3xBA0800 | - | - |
| | | | | N 100% | 1xBA0400 | 1xBA0800 | - | - |
| | | | | N rduced | | 1xBA0400 | - | - |
|  | Linear | 65 | PB1603 ⁽¹⁾ | L1-L2-L3 | - | - | 3xBA1250 | 3xBA1600 |
| | | | | N 100% | - | - | 1xBA1250 | 1xBA1600 |
| | | | | N rduced | - | - | - | 1xBA1250 |

The distance between the first busbar holder and the end of the busbar must not exceed 1/4 of X.

| N° and distance of the busbar holder according to the max I _{cc} | | | | | | | | | | |
|---------------------------------------------------------------------------|--------------|-----------------------|-------|------------|-------|------------|-------|------------|-------|------------|
| Busbar | Capacity (A) | Busbar holder | 25 kA | X max (mm) | 35 kA | X max (mm) | 50 kA | X max (mm) | 65 kA | X max (mm) |
| BA0400 | 400 | PB0803 | 4 | 550 | 5 | 425 | - | - | - | - |
| | | PB1603 ⁽¹⁾ | 4 | 550 | 4 | 550 | - | - | - | - |
| BA0800 | 800 | PB0803 | 4 | 550 | 5 | 425 | - | - | - | - |
| | | PB1603 ⁽¹⁾ | 4 | 550 | 4 | 550 | - | - | - | - |
| BA1250 | 1250 | PB1603 | 4 | 550 | 4 | 550 | 6 | 350 | 9 | 225 |
| BA1600 | 1600 | PB1603 | 4 | 550 | 4 | 550 | 6 | 350 | 9 | 225 |


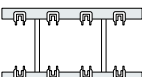
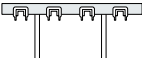


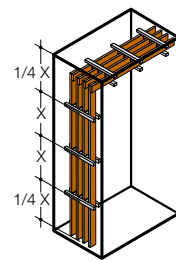
The distance between the first busbar holder and the end of the busbar must not exceed 1/4 of X.

X max = maximum distance not to be exceeded between two consecutive busbar holders.

⁽¹⁾ It is possible to mount the 400/800A busbars with the special adapter AD1066, see example on page 8/32

Busbar holder for flat busbars

| Type | | Icc (kA) | In (A) | Flat busbars | | | | | | |
|-------------------------------------------------------------------------------------|--------|-------------|-----------|--------------|----------|------------|------------|------------|------------|----------|
| | | | | 250A | 400A | 630A | 800A | 1250A | 1600A | |
|  | Linear | 32 | BP0630 | L1-L2-L3 | 3xBR0250 | 3xBR0400 | 3xBR0630 | - | - | - |
| | | | | N 100% | 1xBR0250 | 1xBR0400 | 1xBR0630 | - | - | - |
|  | Linear | 50 | BP1250 | L1-L2-L3 | - | 3xPBFC3205 | 3xPBFC5005 | 3xPBFC6305 | 3xPBFC1005 | - |
| | | | | N 100% | - | 1xPBFC3205 | 1xPBFC5005 | 1xPBFC6305 | 1xPBFC1005 | - |
|  | Linear | 75 | BP1600 | L1-L2-L3 | - | - | - | - | - | 3xBR1600 |
| | | | | N 100% | - | - | - | - | - | 1xBR1600 |



The distance between the first busbar holder and the end of the busbar must not exceed 1/4 of X.

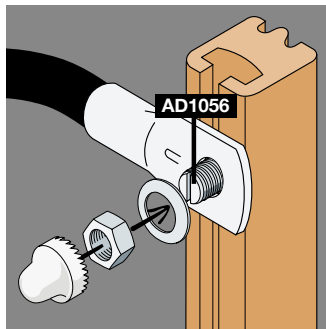
| Busbar | Capacity (A) | Busbar holder | N° and distance of the busbar holder according to the max I _{cc} | | | | | | | |
|----------|-----------------|------------------|---------------------------------------------------------------------------|---------------|-------|---------------|-------|---------------|-------|---------------|
| | | | 16 kA | X max (mm) | 20 kA | X max (mm) | 23 kA | X max (mm) | 32 kA | X max (mm) |
| BR0250 | 250 | BP0630 | 4 | 500 | 6 | 350 | 10 | 200 | - | - |
| BR0400 | 400 | | 4 | 500 | 6 | 350 | 10 | 200 | - | - |
| BR0630 | 630 | | - | - | 4 | 600 | 4 | 600 | 9 | 210 |
| | | | | | | | | | | |
| Busbar | Portata (A) | Busbar holder | | | | | | | | |
| | | | 25 kA | X max (mm) | 35 kA | X max (mm) | 50 kA | X max (mm) | 65 kA | X max (mm) |
| PBFC3205 | 400 | BP1250 | 7 | 300 | 9 | 225 | - | - | - | - |
| PBFC5005 | 630 | | 6 | 375 | 7 | 275 | 9 | 225 | - | - |
| PBFC6305 | 800 | | 5 | 425 | 7 | 300 | 9 | 225 | - | - |
| PBFC1005 | 1250 | | 4 | 500 | 6 | 375 | 8 | 250 | - | - |
| PBFC1001 | 1600 | BP1600 | 3 | 1000 | 3 | 1000 | 4 | 600 | 6 | 375 |

X max = maximum distance not to be exceeded between two consecutive busbar holders.

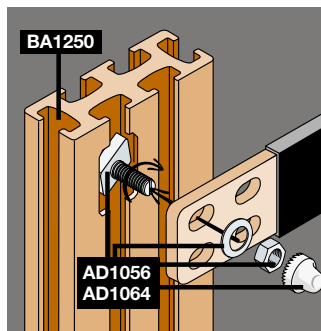
In-depth technical information

Busbars with shaped section and flat busbars

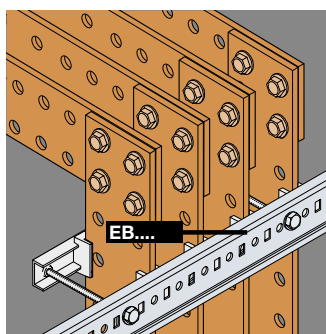
Components



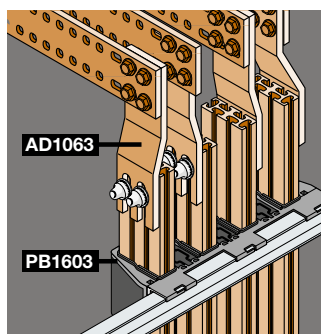
Direct branch by means of cable terminal for cross-section of cable up to 50mm².



M8 self-locking hammer screw for fixing between conductors in any position along the busbar, guarantees a large contact surface.








The 25mm drilling pitch allows branches between flat busbars at any point.


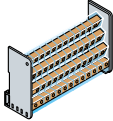
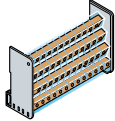
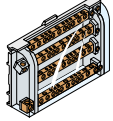



Branch between 1600A flat busbars and 1250/1600A busbars with shaped section.

Modular dividers

| | | | | | | | | | | | | |
|---------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------|-------------------------|----------------------------------|-------------------------|-------------------------------|----------------------------------|------------------|
| Single-pole |  |  |  |  |  | | | | | | | |
| Mark | <div>CECEIEC CBRoHSRoHSULUSRCSAEACEAC</div> | | | | | | | | | | | |
| Code | 1SNL312510R0000* | 1SNL316010R0000* | 1SNL317510R0000 | 1SNL325010R0000 | 1SNL340010R0000 | | | | | | | |
| Main technical data | | | | | | | | | | | | |
| Connecting capacity | IEC | UL | IEC | UL | IEC | UL | IEC | UL | IEC | UL | | |
| Max current / Copper | 125A/35mm ² | 115A/2AWG | 160A/70mm ² | 160A/2/0AWG | 175A/70mm ² | 175A/2/0AWG | 250A/120mm ² | 255A/250Kcmil | 400A/185mm ² | 335A/400Kcmil | | |
| Max cross section Aluminium | 100A/35mm ² | | 135A/70mm ² | | 135A/70mm ² | | 200A/120mm ² | | 300A/185mm ² | | | |
| Rated voltage | 1000VAC/ 1500VDC | 1000V | 1000VAC/ 1500VDC | 1000V | 1000VAC/ 1500VDC | 1000V | 1000VAC/ 1500VDC | 1000V | 1000VAC/ 1500VDC | 1000V | | |
| Rated impulse voltage | | | | | | | | | | | | |
| Short-time withstand current (I _{cw} 1s) | 4000A | | 11000A | | 11000A | | 21000A | | 21000A | | | |
| Short Circuit Current Rating (SCCR) | | 100kA | | 100kA | | 100kA | | 100kA | | 100kA | | |
| Rated peak withstand current (I _{pk}) | 30kA | | 30kA | | 30kA | | 51kA | | 51kA | | | |
| Protection | IP20 | NEMA1 | IP10 | NEMA1 | IP10 | NEMA1 | IP10 | NEMA1 | IP10 | NEMA1 | | |
| Connection type/ Cross section | Connection type (mm) | Cross section (mm ²) | | Connection type (mm) | Cross section (mm ²) | | Connection type (mm) | Cross section (mm ²) | | Connection type (mm) | Cross section (mm ²) | |
| | | 1xØ9.8 | 10...35 10...35 | | 1xØ11.8 | 16...50 16...70 | | 2xØ11.8 | 10...50 10...70 | | 1xØ15.3 | 35...95 35...120 |
| | | 8...2AWG 8...2AWG | | 8...1/0AWG 6...2/0AWG | | 8...1/0AWG 6...2/0AWG | | 2...3/0AWG 2...250Kcmil | | 3/0...300Kcmil 3/0...400Kcmil | | |
| | 1xØ6.8 | 2.5...16 6...16 | 1xØ6.8 | 2.5...16 6...16 | 10xØ6.4 | 2.5...16 2.5...16 | 2xØ8.7 | 2.5...25 2.5...35 | 2xØ8.7 | 2.5...25 2.5...35 | | |
| | | 14...6AWG 10...6AWG | | 14...6AWG 10...6AWG | | 14...6AWG 14...6AWG | | 14...4AWG 14...2AWG | | 14...4AWG 14...2AWG | | |
| | 6xØ6.4 | 2.5...16 2.5...16 | 6xØ6.4 | 2.5...16 2.5...16 | | | 5xØ6.4 | 2.5...16 2.5...16 | 5xØ6.4 | 2.5...16 2.5...16 | | |
| | | 14...6AWG 14...6AWG | | 14...6AWG 14...6AWG | | | | 14...6AWG 14...6AWG | | 14...6AWG 14...6AWG | | |
| | | | | | | | 4xØ5.7 | 2.5...10 2.5...10 | 4xØ5.7 | 2.5...10 2.5...10 | | |
| | | | | | | | 14...8AWG 14...8AWG | | 14...8AWG 14...8AWG | | | |

* For three poles version, order 3 pcs. of 1SNL.... code. For further data, please see Technical Nr. 1SNC166001B0202

| | | | | | |
|-----------------------------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Four-poles | |  |  |  |  |
| Mark | |  | | | |
| Code | | AD1004 | AD1028 | AD1029 | AD1027 |
| In | (A) | 125 | 125 | 125 | 160 |
| I _{cw} | (kA) | 10 | 4.2 | 4.2 | 6.2 |
| I _{pk} | (kA) | 24 | 25 | 25 | 20 |
| Version | poles | 4.2 | 4 | 4 | 4 |
| Installation | | DIN35/plate | DIN35/plate | DIN35/plate | DIN35 |
| Power supply Ø cable (mm ²) | min. | 6 | 6 | 6 | 10 |
| | max | 35 | 25 with cable terminal | 25 with cable terminal | 50 |
| No.outgoing feeder (mm ²) Ø cable | | With cable lugs 5L, 4Nx1,5-6mm ² 2L, 6Nx4-10mm ² 1L, 1Nx6-25mm ² Without cable lugs 5L, 4Nx1,5-6mm ² 2L, 6Nx4-10mm ² 1L, 1Nx6-35mm ² | Rigid cable 7x1,5-10mm ² 2x6-25mm ² With cable lugs 7x1,5-10mm ² 2x6-16mm ² Without cable lugs 7x2,5-16mm ² 2x6-35mm ² | Rigid cable 9x1,5-10mm ² 2x1,5-16mm ² 2x6-25mm ² With cable lugs 2x1,5-6mm ² 9x1,5-10mm ² 2x6-16mm ² Without cable lugs 11x2,5-16mm ² 2x6-35mm ² | Rigid cable 8x2,5-25mm ² 1x10-50mm ² 3x16-35mm ² With cable lugs 8x2,5-16mm ² 3x6-25mm ² 1x10-35mm ² Without cable lugs 8x6-16mm ² 3x6-25mm ² 1x10-35mm ² |
| Dimensions HxWxD | (mm) | 74.5x98x45 | 93x89x48 | 96x126x48 | 90x160.5x50 |
| No. DIN modules | | 5,5 | 5 | 7 | 9 |
| Rated service voltage U _e | (V) | 1000 Vac 1500 Vdc | 440 | 440 | 440 |
| Degree of protection | IP | 20 | 20 | 20 | 20 |

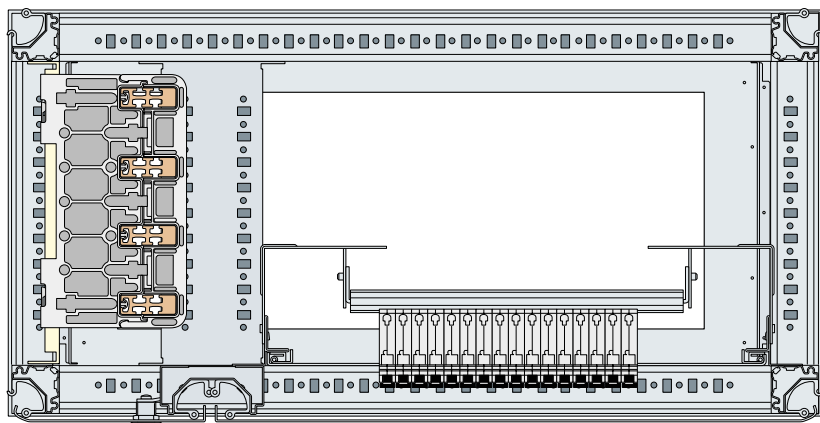
In-depth technical information

Busbars with shaped section

Linear busbar holder PB1603

IS2

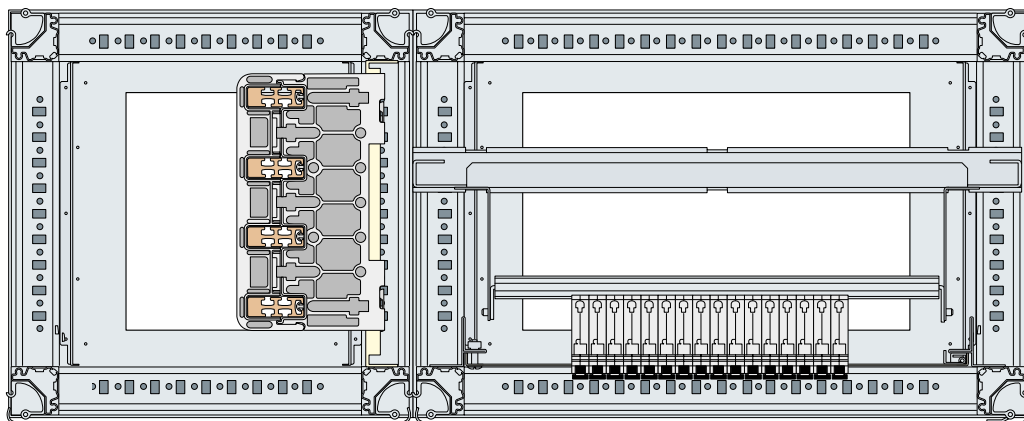
Busbars in the internal cable container and DIN rail apparatus holder fixed on the front.



7 Linear busbar holder PB1603

IS2

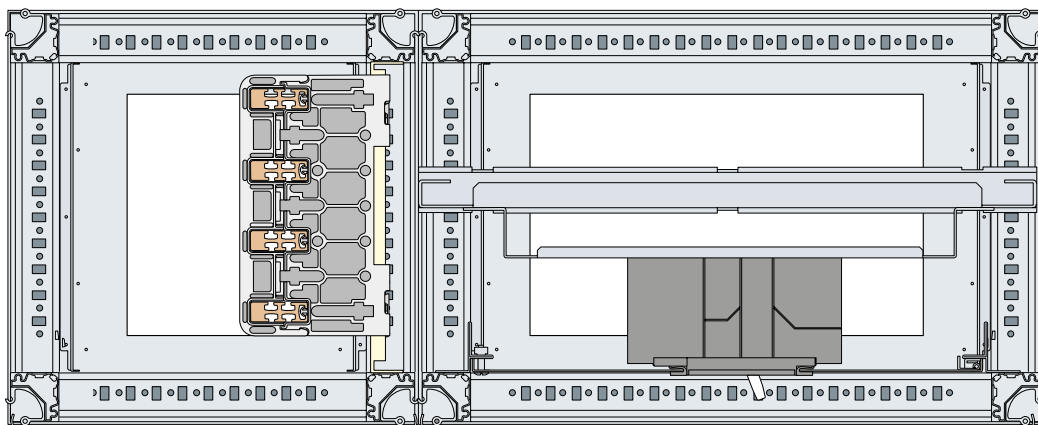
Busbars in the additional structure W=400mm and DIN rail apparatus holder fixed on the back plate.



Linear busbar holder PB1603

IS2

Busbars in the additional structure W=400mm and kit for moulded-case apparatus fixed on the back plate.



In-depth technical information

Ventilation and air conditioning

General characteristics and applications

Heat, dust and humidity are the major causes of incorrect operation of controls and settings in electrical equipment, especially considering the high sensitivity of electronic components which have to record the input of signals and working of logical parts.

There are several methods and products for cooling the electrical enclosures:

- air condensed air conditioners
- water condensed air conditioners
- air-air heat exchangers
- gas pipe heat exchangers
- air-water heat exchangers
- fans with or without filters.

Each of these systems is able to cool in a different way and with different application limits, and consequently with advantages and disadvantages depending on the type of application they are destined for.

To maintain the ideal climatic conditions inside an enclosure, ABB has the following solutions:

Ventilation

Natural ventilation together with forced ventilation is used when the temperature inside the electrical enclosure exceeds the ambient temperature.

Fans are economical and efficient, making it possible to keep degrees of protection up to IP54, in the case of use of a filter, or IP21 without the latter.

The only precaution needed is periodic cleaning of the filtering elements.

Air conditioners

These systems are able to keep temperatures inside the electrical enclosure lower than the ambient, ensuring a high degree of protection against dust and water (IP54).

According to the position of the air conditioner (on the door, wall, roof or side of the enclosure) and to the type of installation (outdoor, indoor, or semi-embedded), ABB proposes a wide range of types based on the refrigeration yield required.

Air-air heat exchangers

These systems are suitable when temperatures inside the electrical enclosure can be kept higher than ambient temperature, guaranteeing an IP54 degree of protection.

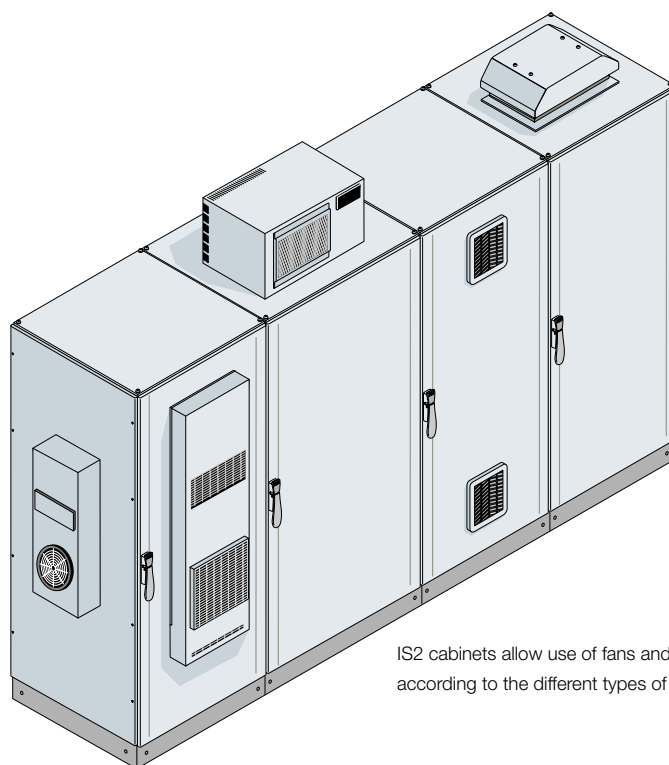
The yield of heat exchangers is indicated in W/K (Watt/Kelvin) – a value which expresses the capacity of removing heat for each centigrade degree of difference between the ambient temperature and the temperature inside the electrical enclosure. In some cases heat exchangers can be more expensive than air conditioners.

Under the same conditions air conditioners obtain the same results with lower costs and overall dimensions

Heaters for enclosures

Formation of condensation inside the electrical enclosures is the cause of oxidation of the apparatus contained in it and the consequent loss of insulation and dielectric strength.

By keeping the optimal temperature for operation of the components, anti-condensation heaters eliminate the risk of oxidation.



IS2 cabinets allow use of fans and air conditioners according to the different types of installation.

In-depth technical information

Ventilation and air conditioning

Operation and selection of components

Natural ventilation

Enclosure cooling can be obtained by means of simple natural convection.

In fact, it is sufficient to the install aeration kit (in the different ways shown in the diagram) to obtain a fair improvement in enclosure cooling.

The following table indicatively provides the increase in percentage of the thermal power value dissipated by the enclosure in relation to the aeration kits used.

The result is obtained by multiplying the dissipation power value of the selected cabinet (page 7/13) by the coefficient indicated in the table corresponding with the size of the aeration grating selected.

Multiplication coefficient of the dissipated power from the enclosure according to the dimensions of the aeration gratings.

| Cabinet dimensions | | | Dimensions of the aeration grating WxW (mm) | | | |
|--------------------|-------------------|----------------------|---------------------------------------------|---------|---------|---------|
| H (mm) | W (mm) | D (mm) | 105x105 | 150x150 | 204x204 | 250x250 |
| 1800 | 600-800-1000-1200 | 400-500-600-800-1000 | Multiplication coefficient | | | |
| 2000 | | | 1,2 | 1,5 | 2,1 | 3 |
| 2200 | 1600 | 400-500-600-800 | - | 1,3 | 1,7 | 2,2 |

Natural aeration with gratings (IP54 with filter or IP21 without filter).

Natural aeration with hood (IP43) and grating.

Natural aeration with roof lifting kit (IP20) and grating.



Forced ventilation

Operation of the ventilation kit is simple: the ambient air - in this case colder than the air inside the enclosure - is sucked up from below, filtered of impurities and conveyed inside. It grazes the apparatus cooling it, whilst the warmer air flows towards the upper part and exits through the special air passage. In this way a slight overpressure is created inside, which prevents dust from entering.

Even when the fan is not working, there is no formation of condensation and humidity, since the entry and exit fans are a guarantee of quick heat exchange.

For correct operation, it is good practice to periodically clean the filtering part by shaking, compressed air or washing in water, or to replace it with a new cloth.

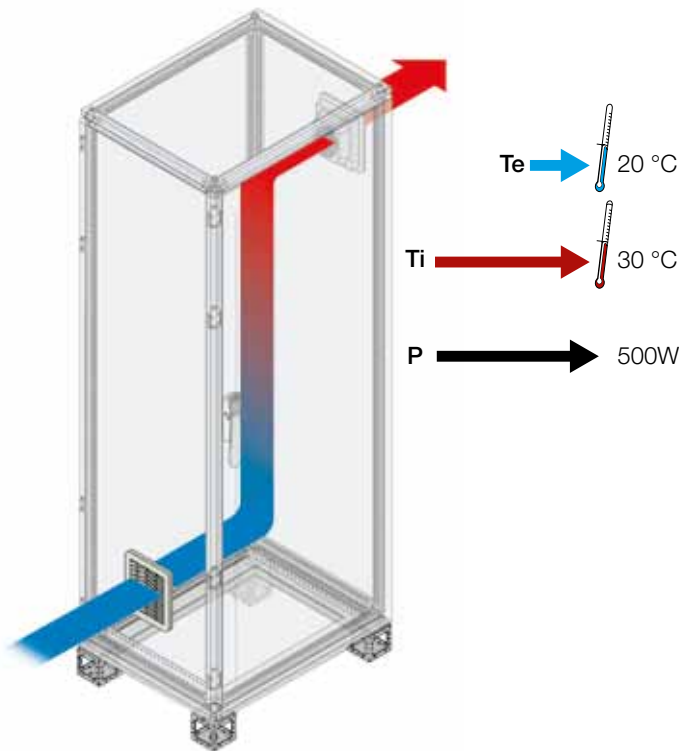
How to calculate the capacities of the fans

Once the value of the power to be dissipated has been calculated, given by the sum of the dissipating power of each device, and by the conductors (taking into account the contemporaneity coefficient as well) and once the maximum temperature inside the enclosure has been defined – compatibly with correct operation of the apparatus it contains – the following formula must be applied:

$$Q = \frac{P}{\Delta T} \cdot f$$

- where:
- Q = fan capacity (m³/h)
 - P = power to be dissipated (W)
 - ΔT = difference in the ambient temperature Te and the temperature inside the enclosure Ti
 - f = coefficient of thermal exchange

Ti > Te



| Height m/slm | f m³ °C/W/h |
|-----------------|----------------|
| 0 ÷ 100 | 3.1 |
| 100 ÷ 250 | 3.2 |
| 250 ÷ 500 | 3.3 |
| 500 ÷ 700 | 3.4 |
| 750 ÷ 1000 | 3.5 |

example:: $Q = \frac{500}{10} \cdot 3.2 = 160 \frac{m^3}{h}$

In-depth technical information

Ventilation and air conditioning

How to install the ventilation kit

Use of a ventilator as a means for extracting heat from a cabinet is recommended when an internal temperature higher than the ambient temperature is acceptable.

In both cases (A and B), to improve the thermal performances of the system, it is advisable to use the filter without a fan one size larger than the one with a fan.

The best thermal situations are obtained by installing the aeration kit in the following ways:

Ventilation kit at the top and filter at the bottom on the opposite wall - Fig.1

The fan sucks in hot air from the top area of the cabinet towards the outside, whilst fresh air enters through the filter placed at the bottom. This configuration is recommended for cabinets fitted with gaskets as it is the condition which offers better temperature distribution.

Ventilation kit at the bottom and filter at the top on the opposite wall - Fig.2

The fan sucks in fresh air from the outside towards the bottom area inside the cabinet, whilst hot air exits through the filter placed at the top. This solution is particularly recommended when you want to avoid entry of dust as far as possible, using the delivery fan, so as to put the cabinet under pressure and prevent entry of dust through the gaps between the panels. Entry of dust is prevented by the fan filter.

Hood with fan mounted on the cabinet roof and filter placed at the bottom on a wall - Fig.3

In this configuration, the air flow moves from the bottom towards the top: fresh air enters the cabinet through the filter placed at the bottom and hot air exits to the room through the hood. When the hood is used, what has already been said in the previous cases is valid with regard to selecting to mount the fan on delivery or on suction.

7

Air flow

Fig. 1

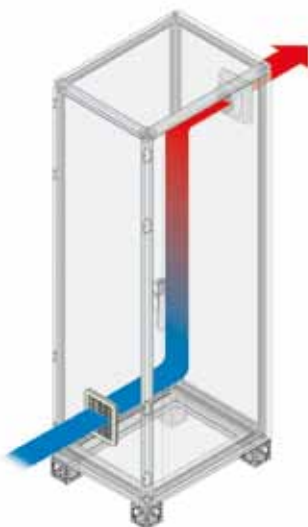


Fig. 2



Fig. 3



Air conditioners

Air conditioners allow the temperature inside the enclosure to be kept within an established range and are available in the versions for mounting on a wall or on the enclosure roof. There are also four super thin versions available to be mounted on the wall with a thickness of 105mm.

To size the air conditioner, the following data are required:

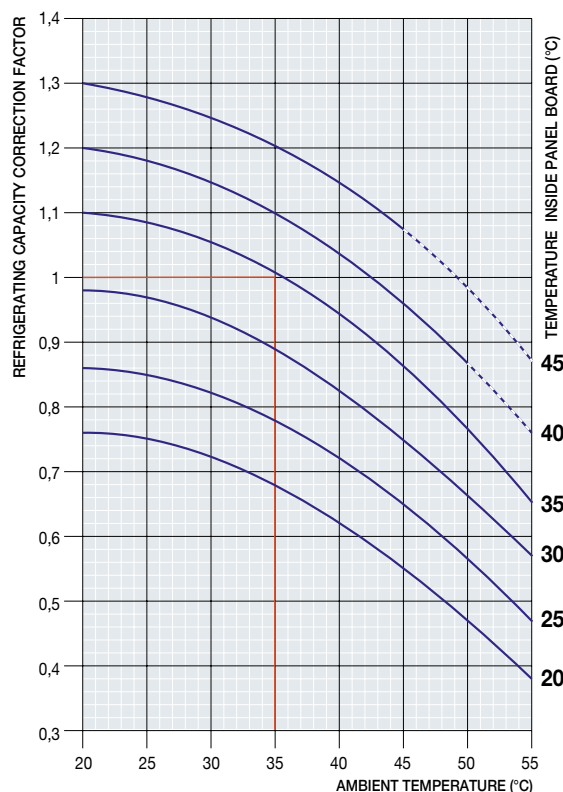
- **power to be dissipated**
(this depends on the type and number of pieces of apparatus and conductors contained in the enclosure);
- **maximum internal temperature;**
- **ambient temperature**
(referring to the place where the enclosure is installed);
- **equivalent cooling surface**
(sum of the external surfaces able to transmit heat from/towards the outside). To calculate this, the calculation method of the IEC 60890 Standard can be used;

| Disposition of the cabinet | Calculating the enclosure surface S (mm ²) | Dimensions (m) |
|-------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------|
| Detached, exposed on all sides | $A_e = 1,8 \times H \times (L+P) + 1,4 \times L \times P$ | L = width H = height P = depth |
| For closed to a wall structures | $A_e = 1,4 \times L \times (H+P) + 1,8 \times P \times H$ | |
| Left or right exposed structure | $A_e = 1,4 \times P \times (H+L) + 1,8 \times L \times H$ | |
| Left or right closed to a wall structure | $A_e = 1,4 \times H \times (P+L) + 1,4 \times L \times P$ | |
| Central exposed structure | $A_e = 1,8 \times L \times H + 1,4 \times L \times P + P \times H$ | |
| Central closed to a wall structure | $A_e = 1,4 \times L \times (H+P) + P \times H$ | |
| Central closed to a wall structure, with covered roof | $A_e = 1,4 \times L \times H + 0,7 \times L \times P + P \times H$ | |

- **thermal power** absorbed or dissipated by the surface of the cabinet, according to the difference in the existing internal/ external temperature (if the external temperature is lower than the internal one, the heat flows towards the outside and vice versa);

- **nominal characteristics** of the air conditioner and refrigerating yield: in our case, the ABB air conditioners work with outside temperatures between 20 and 55 °C, keeping temperature values between 25 and 45 °C inside the enclosure. The nominal reference condition is 35 °C inside and outside the enclosure: as this condition varies, the yielded refrigerating capacity of the air conditioner undergoes modifications which must be taken into account to size the air conditioner correctly (refer to the "Refrigerating capacity correction factor" table given here).

Table 1 - Correction factor



In-depth technical information

Ventilation and air conditioning

Example of selection of an air conditioner

Data:
 Internal power to be dissipated 400 W
 Internal temperature 35°C
 Foreseen ambient temperature 40°C

Equivalent cooling surface (Ae)
 (e.g. ES2086K 2000x800x600mm) 5,7 m²

Note: in this case the cooling surface was considered in the hypothesis of installation exposed on all sides. For other types of installation, the effective cooling surface must be calculated using the method illustrated in the IEC 60890 Standard.

| Disposition of the cabinet | Calculating the enclosure surface S (mm²) | Dimensions (m) |
|-------------------------------------------------------|--------------------------------------------------------------------|----------------|
| Detached, exposed on all sides | $A_e = 1,8 \times H \times (L+P) + 1,4 \times L \times P$ | |
| For closed to a wall structures | $A_e = 1,4 \times L \times (H+P) + 1,8 \times P \times H$ | |
| Left or right exposed structure | $A_e = 1,4 \times P \times (H+L) + 1,8 \times L \times H$ | L = width |
| Left or right closed to a wall structure | $A_e = 1,4 \times H \times (P+L) + 1,4 \times L \times P$ | H = height |
| Central exposed structure | $A_e = 1,8 \times L \times H + 1,4 \times L \times P + P \times H$ | P = depth |
| Central closed to a wall structure | $A_e = 1,4 \times L \times (H+P) + P \times H$ | |
| Central closed to a wall structure, with covered roof | $A_e = 1,4 \times L \times H + 0,7 \times L \times P + P \times H$ | |



Since the internal temperature is lower than the external temperature, the heat is transmitted from the outside towards the inside of the enclosure. To size the air conditioner, the total power to be dissipated derives from the sum of two components: power generated by the apparatus, including that of the copper conductors, (400 W in our example) and the power transmitted by the ambient towards the inside of the enclosure through the external sheet steel surfaces, given by the following formula:

$$P = K \cdot Ae \cdot \Delta T = 5,5 \cdot 5,7 \cdot 5 = 156,75W$$

The total power to be dissipated is therefore:

$$P_{tot} = 400 + 156,75 = 556,75W$$

At this point the total power value obtained in this way could be used to select the air conditioner. However, correct sizing must also take into consideration the environmental effects where the conditioner is going to operate. In our example ($T_{int} = 35\text{ °C}$ and $T_{ext} = 40\text{ °C}$) the correction coefficient of the refrigerating capacity (0.94) is taken from table 1.

The power to be used for sizing the air conditioner is therefore:

$$P_{resa} = P_{tot} : 0,94 = 556,75 : 0,94 = 592,3\text{ W}$$

It should be noted how, in the case of an internal temperature higher than the external temperature, to calculate the total power to be dissipated, the heat naturally transmitted to the outside by the walls of the cabinet must be deducted from the power value deriving from the apparatus contained in the enclosure, due to the condition of the internal temperature being higher than the external temperature.

Formula for calculating the power transmitted from (or towards) the ambient:

$$P = K \cdot Ae \cdot \Delta T$$

where:

- P = power transmitted from the ambient (W)
- K = coefficient of thermal exchange for painted sheet
 $K = 5,5\text{ W/m}^2 \cdot K$
- Ae = free surface of the cabinet (m2)
- $\Delta T = (T_i - T_e)$
- T_i = internal temperature
- T_e = external temperature

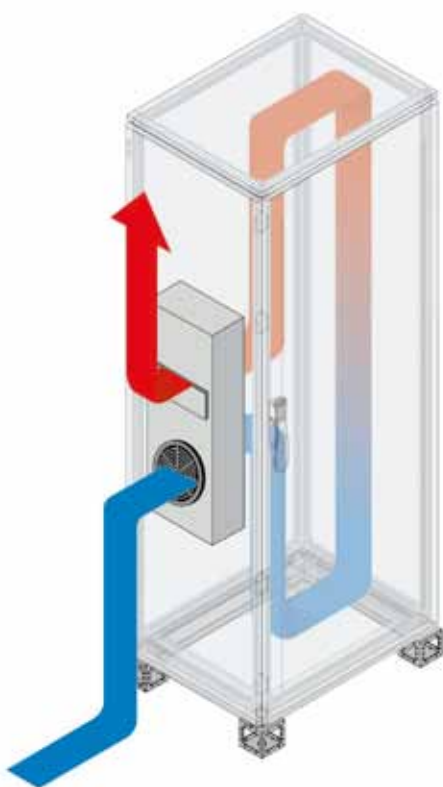
Air-air heat exchangers

Heat exchangers cool the hot air taken up inside the cabinet causing thermal exchange with the colder air coming from the outside, but keeping the two air flows isolated from each other. For this reason, heat exchangers can only be used when the condition $T_{int} > T_{ext}$ exists and their use is recommended in the case of enclosure installation in industrial environments with presence of dust.

In fact, heat exchangers allow the air inside the enclosure to be cooled without mixing it with the air coming from the outside, keeping an IP54 degree of protection and therefore preventing penetration of impurities into the electrical enclosure.

The $T_{int} > T_{ext}$ condition still being valid, the power generated by the apparatus installed inside the enclosure is dissipated by the heat exchanger and by the surface of the cabinet.

The heat exchanger is sized by means of its specific power W/K (Watt/Kelvin) which expresses the power which can be exchanged for every degree of difference between the external and internal temperature.



Example of selection of a heat exchanger

Data:

Internal power to be dissipated 640 W

Internal temperature 35 °C

Foreseen ambient temperature 25 °C

Equivalent cooling surface (A_e)
(e.g. ES2086K 2000x800x600mm) 5.7 m²

Note: in this case the cooling surface was considered in the hypothesis of installation exposed on all sides. For other types of installation, the effective cooling surface must be calculated using the method illustrated in the IEC 60890 Standard.

Since the internal temperature is higher than the external temperature, the heat is transmitted from the inside towards

| Disposition of the cabinet | Calculating the enclosure surface S (mm ²) | Dimensions (m) |
|-------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------|
| Detached, exposed on all sides | $A_e = 1,8 \times H \times (L+P) + 1,4 \times L \times P$ | L = width H = height P = depth |
| For closed to a wall structures | $A_e = 1,4 \times L \times (H+P) + 1,8 \times P \times H$ | |
| Left or right exposed structure | $A_e = 1,4 \times P \times (H+L) + 1,8 \times L \times H$ | |
| Left or right closed to a wall structure | $A_e = 1,4 \times H \times (P+L) + 1,4 \times L \times P$ | |
| Central exposed structure | $A_e = 1,8 \times L \times H + 1,4 \times L \times P + P \times H$ | |
| Central closed to a wall structure | $A_e = 1,4 \times L \times (H+P) + P \times H$ | |
| Central closed to a wall structure, with covered roof | $A_e = 1,4 \times L \times H + 0,7 \times L \times P + P \times H$ | |

the outside of the enclosure and therefore naturally contributes towards a part of the necessary dissipation.

The power transmitted to the ambient through the external sheet surfaces of the enclosure is calculated with the following formula:

$$P = K \cdot A_e \cdot \Delta T = 5,5 \cdot 5,7 \cdot 10 = 313,5W$$

The total power to be dissipated is therefore:

$$P_{tot} = 640 - 313,5 = 326,5W$$

The heat exchanger must dissipate:

$$P_{spec} = P_{tot} : \Delta T = 326,5 : 10 = 32,65W/K$$

In this case, the heat exchanger suitable for the purpose is the one with 35W/K specific power (code VS 4233).

Formula for calculating the power transmitted towards the ambient:

$$P = K \cdot A_e \cdot \Delta T$$

where:

P = power transmitted from the ambient (W)

K = coefficient of thermal exchange for painted sheet

$$K=5,5 \text{ W/m}^2 \cdot K$$

A_e = free surface of the cabinet (m²)

$$\Delta T = (T_i - T_e)$$

T_i = internal temperature

T_e = external temperature

In-depth technical information

Ventilation and air conditioning

Heater for enclosures

Heater prevent condensation of the atmospheric humidity inside the electrical enclosure – a phenomenon which can cause slow but progressive alteration of the of the surface of the materials, jeopardising the insulation.

The temperature that can create condensation may depends on different factors, including atmospheric pressure and air humidity. Generally, if the temperature inside the switchgear is kept over the 15°C limit, the condensation risk is null. In tropical countries, instead, the limit can be risen up to 30-35°C.

The anti- condensation heaters ABB are made of a PTC heating element positioned in an aluminum alloy sink. The use of the PTC heating element guarantees an excellent heater thermal stability and allows the use of it in a wide break of supply voltage (between 110 and 240 V).

The combination of the heater with EN0102K thermostat with NC contact (set at 20°C) is suggested in order to avoid energy waste. Furthermore, it's suggested to position the heaters in the bottom part of the cabinet, keeping the distances advised in the section 9/48, to help the air convection inside the switchgear.

Thermostats for regulating the temperature

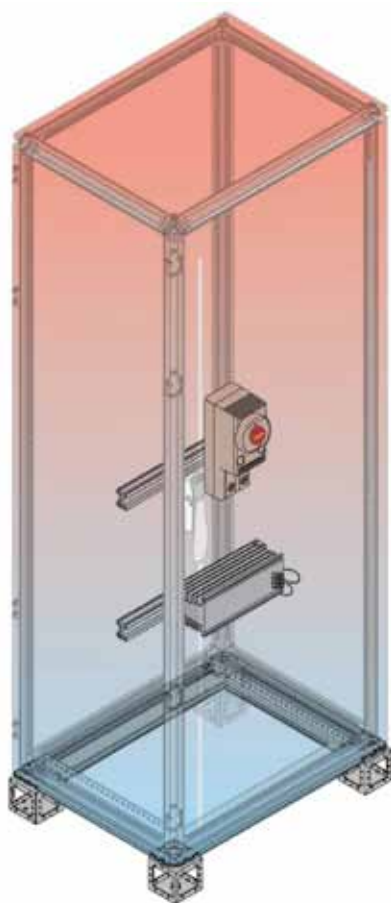
The thermostat is used to control operation of the fans. It has a temperature adjustment range from 10 ÷ 60 °C, with intervention sensitivity of about 1 °C and can be snap-on mounted on DIN EN 50022 rails.

Inside the regulation knob of the thermostat there is a manual device which limits the setting scale (min-max) of the temperature. For correct installation, mount the apparatus so that the ventilation passes from the bottom to the top, but never sideways.

Furthermore, avoid the thermostat being close to direct heat sources and draughts of air.

Conforming to the IEC 60730-1, IEC 60730-2-9 Standards and UL approved, they have IP20 degree of protection. Grey RAL 7035, capacity of the 10 A contact and electrical life of 100000 cycles with resistive load. The version with NO (normally open) contact allows closure of a circuit activating ventilation, air conditioning or alarms.

The version with NC (normally closed) contact allows opening of a circuit, disconnecting any anti-condensation heaters.



Air conditioner for mounting on wall or on door

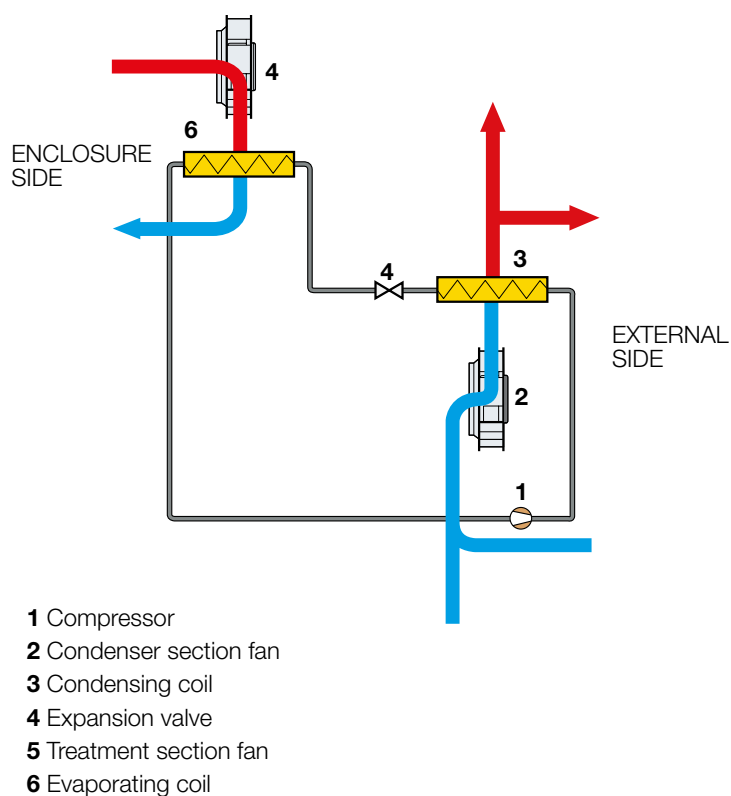


| Model | | | VZ1550K | | VZ1850K | | VZ1400K | | VZ2000K | |
|----------------------------------------|------------------|---|------------------|-----|------------------|-----|------------------|------|------------------|------|
| Standard electrical power supply | V~(single-phase) | | 230 | | 230 | | 230 | | 230 | |
| Frequency | Hz | | 50 | 60 | 50 | 60 | 50 | 60 | 50 | 60 |
| Refrigerating yield | W | | 605 | 670 | 810 | 900 | 1300 | 1480 | 1926 | 2200 |
| Total power consumption | W | | 330 | 360 | 400 | 450 | 650 | 720 | 800 | 920 |
| Absorbed current | on inrush | A | 8 | | 12,5 | | 21 | | 22 | |
| | operating | A | 2 | | 2,5 | | 4 | | 4,5 | |
| Current protection | A | | 4,9 | | 5,9 | | 8 | | 10 | |
| Air evaporator capacity | m³/h | | 380 | | 350 | | 350 | | 500 | |
| Air condenser capacity | m³/h | | 400 | | 400 | | 600 | | 950 | |
| Degree of protection on enclosure side | IP | | 54 | | 54 | | 54 | | 54 | |
| Refrigerating gas (standard) | | | R 134 A | | R 134 A | | R 134 A | | R 134 A | |
| Permissible external temperature | °C | | 55 | | 55 | | 55 | | 55 | |
| Noise | dB(A) | | 64 | | 64 | | 66 | | 66 | |
| Dimensions HxWxD | mm | | 1025x380x198 | | 1025x380x198 | | 1025x380x198 | | 1100x380x230 | |
| Approximate weight | kg | | 33 | | 33 | | 36 | | 42 | |
| Standard painting | RAL | | 7035 orange peel | | 7035 orange peel | | 7035 orange peel | | 7035 orange peel | |

7



Basic cooling circuit diagram



In-depth technical information

Ventilation and air conditioning

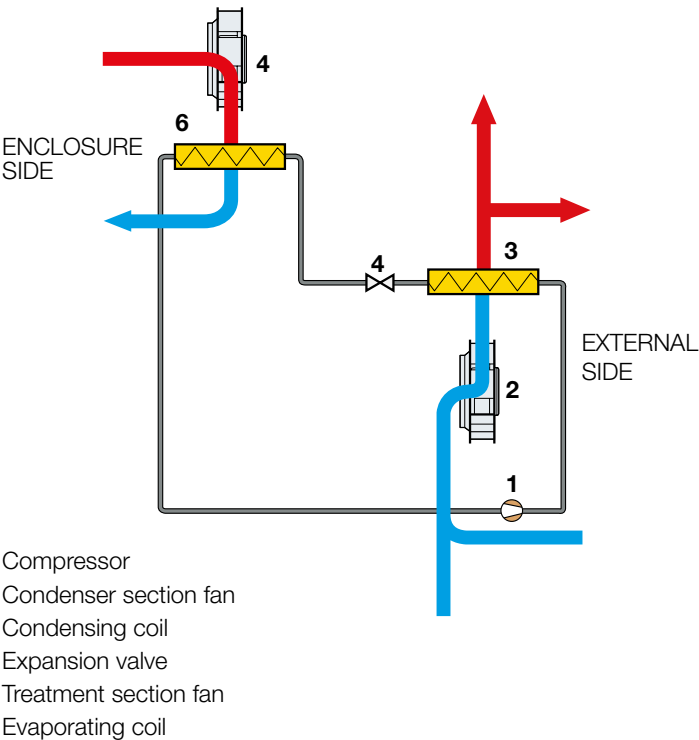
Air conditioner for mounting on roof



| Model | | | VZ8501K | | VZ1401K | |
|----------------------------------------|-----------|---|------------------|-----|------------------|------|
| Standard electrical power supply | | | V~(single-phase) | | 230 | |
| Frequency | Hz | | 50 | 60 | 50 | 60 |
| Refrigerating yield | W | | 810 | 900 | 1300 | 1480 |
| Total power consumption | W | | 400 | 450 | 650 | 720 |
| Absorbed current | on inrush | A | 12,5 | | 21 | |
| | operating | A | 2,5 | | 4 | |
| Current protection | A | | 5,9 | | 8 | |
| Air evaporator capacity | m³/h | | 350 | | 350 | |
| Air condenser capacity | m³/h | | 400 | | 600 | |
| Degree of protection on enclosure side | IP | | 54 | | 54 | |
| Refrigerating gas (standard) | | | R 134 A | | R 134 A | |
| Permissible external temperature | °C | | 55 | | 55 | |
| Noise | dB(A) | | 64 | | 66 | |
| Dimensions HxWxD | mm | | 350x600x400 | | 350x600x400 | |
| Approximate weight | kg | | 33 | | 34 | |
| Standard painting | RAL | | 7035 orange peel | | 7035 orange peel | |



Basic cooling circuit diagram



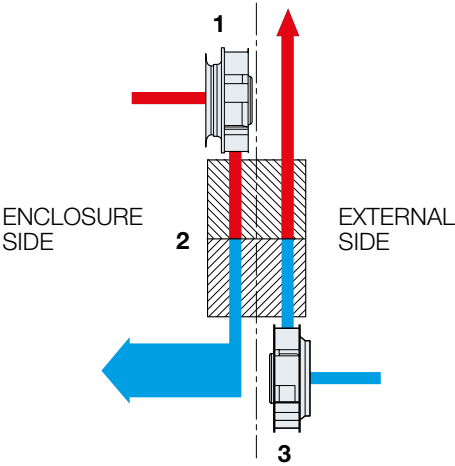
Heat exchangers



| Model | | VS4235K | VS6285K |
|----------------------------------------|--------------|------------------|------------------|
| Specific thermal yield | W/K | 35 | 85 |
| Total power consumption | W | 117/150 | 170/180 |
| Power supply standard | V~(monofase) | 230 | 230 |
| Frequency | Hz | 50/60 | 50/60 |
| Absorbed current | A | 0,52/0,68 | 0,77/0,80 |
| Internal circuit fan air capacity | m³/h | 200 | 200 |
| External circuit fan air capacity | m³/h | 200 | 300 |
| Degree of protection on enclosure side | | IP 54 | IP 54 |
| Permissible external temperature | °C | 55 | 55 |
| Dimensions HxWxD | mm | 735x370x155 | 845x475x195 |
| Approximate weight | kg | 15 | 21 |
| Standard painting | RAL | 7035 orange peel | 7035 orange peel |



Basic cooling circuit diagram



In-depth technical information

Ventilation and air conditioning

Fans



| Characteristic | U.m. | EN1105K | EN2105K | EN1150K | EN2150K | EN1204K |
|-----------------------------------------|------------|------------|-------------|--------------|--------------|--------------|
| Capacity air | m³/h | 23/30 | 23/30 | 57/61 | 57/61 | 120/135 |
| Standard power supply (single-phase) | V a.c. | 230 | 115 | 230 | 115 | 230 |
| Frequency | Hz | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 |
| Total power consumption | W | 10/8 | 9/7 | 20/19 | 20/19 | 17/15 |
| Rated current | A | 0.07/0.055 | 0.115/0.092 | 0.125/0.110 | 0.210/0.180 | 0.100/0.090 |
| Rotation speed | rpm | 2700 | 2700 | 2650 | 2650 | 2700 |
| Noise | dB(A) | 33/38 | 33/38 | 46/49 | 46/49 | 46/50 |
| Operating temperature | °C | -10+50 | -10+50 | -10+50 | -10+50 | -10+50 |
| Electrical life | h | 45.000 | 45.000 | 45.000 | 45.000 | 45.000 |
| Degree of protection | IP | 54 | 54 | 54 | 54 | 54 |
| Class | | I | I | I | I | I |
| Weight | Kg | 0,5 | 0,5 | 0,8 | 0,8 | 1,1 |
| Protection | | Impedance | Impedance | Impedance | Impedance | Impedance |
| Electric connection | | Wires | Wires | 2-pole term. | 2-pole term. | 3-pole term. |
| Mounting | | No screws | No screws | No screws | No screws | No screws |
| Flow direction | | Reversible | Reversible | Reversible | Reversible | Reversible |
| Bearing | | Bearings | Bearings | Bearings | Bearings | Bearings |
| Dimensions | mm (WxHxD) | 105x105x67 | 105x105x67 | 150x150x71 | 150x150x71 | 204x204x98 |
| Colour | RAL | 7035 | 7035 | 7035 | 7035 | 7035 |
| Approvals | | CE, UL | CE, UL | CE, UL | CE, UL | CE, UL |

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| Characteristic | U.m. | EN2204K | EN1250K | EN2250K | EN2325K | EN3325K |
|-----------------------------------------|------------|--------------|--------------|--------------|--------------|--------------|
| Capacity air | m³/h | 120/135 | 240/270 | 240/270 | 520/580 | 520/580 |
| Standard power supply (single-phase) | V a.c. | 115 | 230 | 115 | 230 | 115 |
| Frequency | Hz | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 |
| Total power consumption | W | 17/15 | 29/29 | 30/30 | 67/87 | 50/64 |
| Rated current | A | 0.200/0.160 | 0.132/0.130 | 0.265/0.274 | 0.300/0.382 | 0.540/0.650 |
| Rotation speed | rpm | 2700 | 2800 | 2800 | 2770 | 3120 |
| Noise | dB(A) | 46/50 | 50/55 | 50/55 | 65/68 | 66/69 |
| Operating temperature | °C | -10+50 | -10+50 | -10+50 | -10+50 | -10+55 |
| Electrical life | h | 45.000 | 45.000 | 45.000 | 50.000 | 53.000 |
| Degree of protection | IP | 54 | 54 | 54 | 54 | 54 |
| Class | | I | I | I | I | I |
| Weight | Kg | 1,1 | 1,7 | 1,7 | 3,7 | 3,7 |
| Protection | | Impedance | Thermal | Thermal | Thermal | Thermal |
| Electric connection | | 3-pole term. | 3-pole term. | 3-pole term. | 3-pole term. | 3-pole term. |
| Mounting | | No screws | No screws | No screws | No screws | No screws |
| Flow direction | | Reversible | Reversible | Reversible | Reversible | Reversible |
| Bearing | | Bearings | Bearings | Bearings | Bearings | Bearings |
| Dimensions | mm (WxHxD) | 204x204x98 | 250x250x121 | 250x250x121 | 325x325x161 | 325x325x161 |
| Colour | RAL | 7035 | 7035 | 7035 | 7035 | 7035 |
| Approvals | | CE, UL | CE, UL | CE, UL | CE | CE |

In any forced ventilation kit, the fan wheel is balanced. In the larger sizes (cod. EN2325K and cod. EN3325K) there is the balancing clip.

The balanced fan wheel ensures less noise and absorption.



Ventilation towers

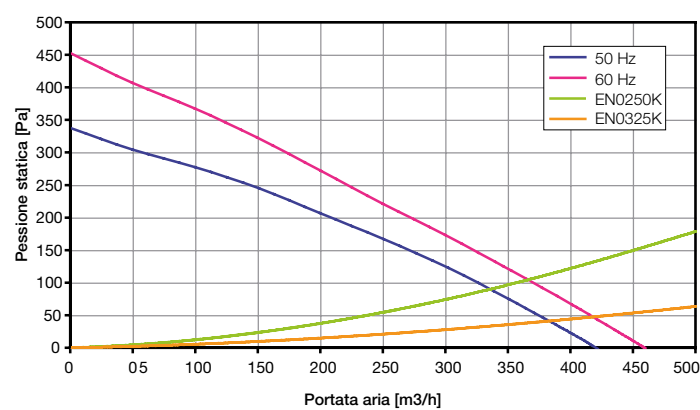


| Characteristic | U.m. | EN0480K | EN0482K | EN0484K | EN0485K |
|-----------------------------------------|------------|-------------|-------------|--------------|--------------|
| Capacity air | m³/h | 550/590 | 550/590 | *420/490 | *420/490 |
| Standard power supply (single-phase) | V | 230 | 115 | 115 | 230 |
| Frequency | Hz | 50/60 | 50/60 | 50/60 | 50/60 |
| Total power consumption | W | 62/78 | 58/71 | 66/74 | 70/83 |
| Absorbed current | mA | 0.290/0.340 | 0.530/0.620 | 0.620/0.640 | 0.309/0.360 |
| Rotation speed | rpm | 2535 | 2500 | 2470 | 2510 |
| Noise | dB(A) | 68/71 | 61 | 68/71 | 68/71 |
| Operating temperature | °C | -20+60 | -20+60 | -10+60 | -10+60 |
| Electrical life | h | 50.000 | 50.000 | 75.000 | 59.000 |
| Degree of protection | IP | 23 | 23 | 54 | 54 |
| Class | | I | I | I | I |
| Weight | Kg | 5,29 | 5,29 | 2,1 | 2,1 |
| Protection | | Thermal | Thermal | Thermal | Thermal |
| Electric connection | | Wires | Wires | 3-pole term. | 3-pole term. |
| Mounting | | Screws | Screws | Screws | Screws |
| Flow direction | | Inside-out | Inside-out | Inside-out | Inside-out |
| Bearing | | Bearings | Bearings | Bearings | Bearings |
| Dimensions | mm (wxdxh) | 375x295x119 | 375x295x119 | 324x324x94 | 324x324x94 |
| Colour | RAL | 7035 | 7035 | 7035 | 7035 |
| Approvals | | CE | CE | CE | CE |

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* Sample air flow m3/h



In-depth technical information

Ventilation and air conditioning

Declaration of conformity

Air conditioners and heat exchanges

Under their full and exclusive responsibility, ABB declares that the air conditioners and heat exchangers they market comply with the provisions of the following directives 89/392/CEE, 89/337/CEE, 91/368/CEE, 93/47/CEE.

Reference Standards: UNI EN 292, UNI EN 294, CEI 50081-2, IEC 50082-2, IEC 55011, IEC 60204-1.

Thermostats

Under their full and exclusive responsibility, ABB declares that the thermostats for temperature regulation they market comply with the provisions of the following directives 2006/95/CE (which replaces the 73/23/EEC and subsequent amendments).

Reference Standards: IEC 60730, 60730-1 "Automatic electrical controls for household and similar use".

Anti-condensation heaters

ABB declares that anti-condensation heaters are in accordance with what expected by the following EU directives, including all the applicable changes:

- Low Voltage Directive 73/23/CEE (replaced by 2006/95/CEE)
- EMC Directive 2004/108/CEE

And that all the following requirements and/or technical specifics were applied:

- CEI EN 60335-1, Ed. 04/2004 "Safety of household and similar electrical appliances –part 1: General requirements"
- CEI EN 60335-1/A1/A11, Ed. 01/2006 "Safety of household and similar electrical appliances –Part 1: General requirements" A1:2004-12, A11:2004-02, IEC 60335-1:2002 variants.

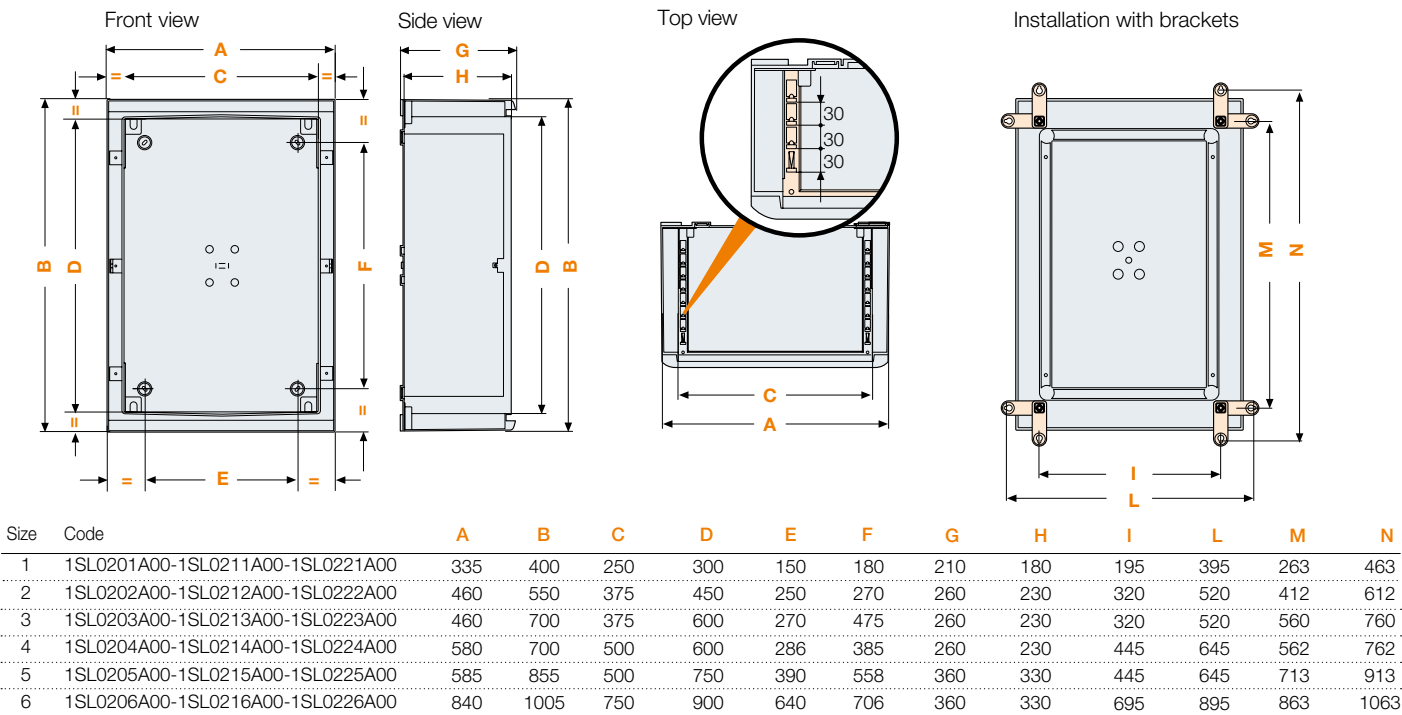
Overall dimensions

| | |
|--------------------------|------|
| Gemini Switchboards | 8/2 |
| SR2 - SR2 EMC Enclosures | 8/6 |
| AM2 Cabinets | 8/8 |
| IS2 - IS2 EMC cabinets | 8/15 |
| Busbars | 8/34 |
| Single plinth | 8/36 |
| Wiring ducts | 8/38 |
| Aeration/ventilation | 8/42 |
| Air conditioners | 8/44 |
| Drillings | 8/46 |
| Accessories | 8/48 |

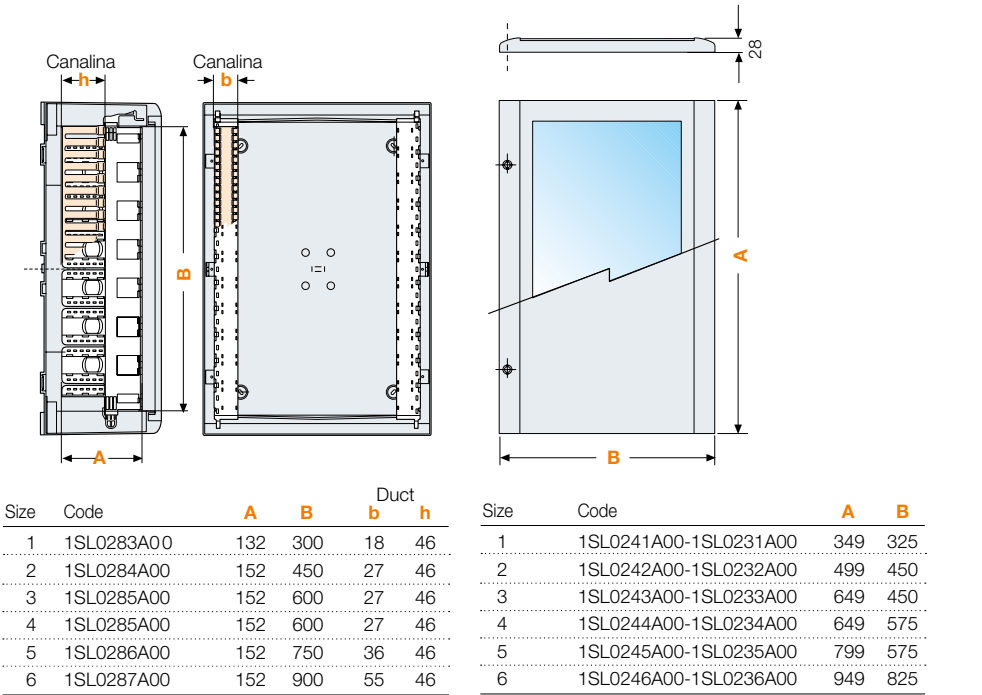
Overall dimensions

Gemini switchboards

Structures

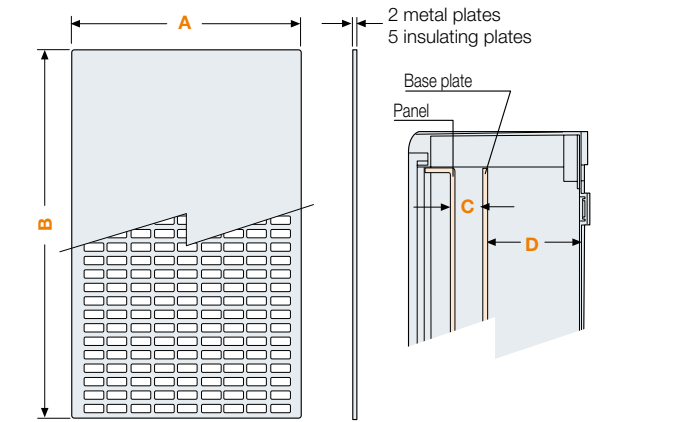


Uprights



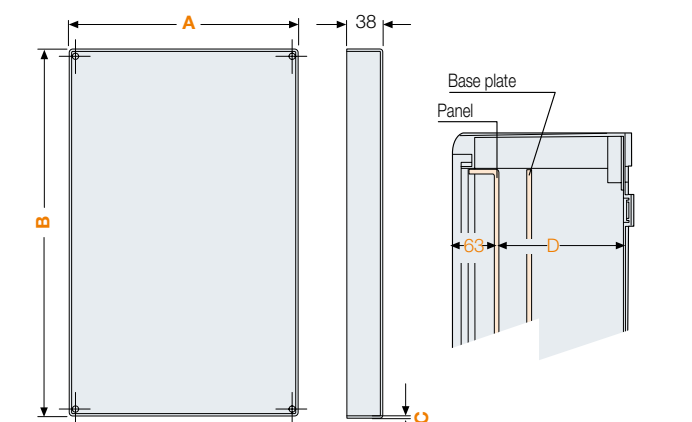
Measurements are in millimetres

Base plates



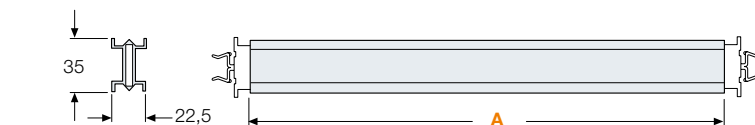
| Size | Code | A | B | C | D |
|------|----------------------------------|-----|-----|----------|----------|
| 1 | 1SL0259A00-1SL0275A00-1SL0267A00 | 235 | 285 | 16.3÷91 | 33.5÷110 |
| 2 | 1SL0260A00-1SL0276A00-1SL0268A00 | 360 | 435 | 36.4÷140 | 33.5÷139 |
| 3 | 1SL0261A00-1SL0277A00-1SL0269A00 | 360 | 585 | 36.4÷140 | 33.5÷139 |
| 4 | 1SL0262A00-1SL0278A00-1SL0270A00 | 485 | 585 | 36.4÷140 | 33.5÷139 |
| 5 | 1SL0263A00-1SL0279A00-1SL0271A00 | 485 | 735 | 47÷244 | 33.5÷228 |
| 6 | 1SL0264A00-1SL0280A00-1SL0272A00 | 735 | 885 | 47÷244 | 33.5÷228 |

Inner doors



| Size | Code | A | B | C | D |
|------|------------|-----|-----|---|-----|
| 1 | 1SL0251A00 | 250 | 300 | 3 | 128 |
| 2 | 1SL0252A00 | 375 | 450 | 4 | 177 |
| 3 | 1SL0253A00 | 375 | 600 | 4 | 177 |
| 4 | 1SL0254A00 | 500 | 600 | 4 | 177 |
| 5 | 1SL0255A00 | 500 | 750 | 5 | 277 |
| 6 | 1SL0256A00 | 750 | 900 | 5 | 277 |

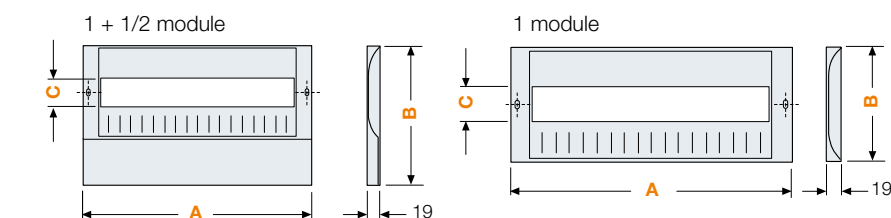
DIN rail



| Size | Code | A | d = pos. 1 | d = pos. 2 | d = pos. 3 | d = pos. 4 | d = pos. 5 | d = pos. 6 |
|------|------------|-----|------------|------------|------------|------------|------------|------------|
| 1 | 1SL0290A00 | 210 | 51 | 63,5 | 76 | 88,5 | - | - |
| 2 | 1SL0291A00 | 318 | 51 | 63,5 | 76 | 88,5 | 101 | 113,5 |
| 3 | 1SL0291A00 | 318 | 51 | 63,5 | 76 | 88,5 | 101 | 113,5 |
| 4 | 1SL0292A00 | 443 | 51 | 63,5 | 76 | 88,5 | 101 | 113,5 |
| 5 | 1SL0292A00 | 443 | 51 | 63,5 | 76 | 88,5 | 101 | 113,5 |
| 6 | 1SL0293A00 | 663 | 51 | 63,5 | 76 | 88,5 | 101 | 113,5 |

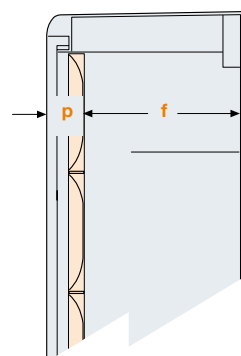
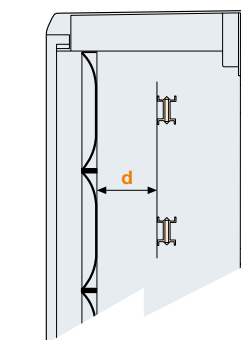
The distances of the DIN rail from the panel depend on the depth at which the DIN rail is regulated by using fixing devices.

Panels for modular apparatus mounted on DIN rail



| Size | Code | 1 mod. | | 1+1/2 mod. | | DIN modules | p | f |
|------|-----------------------|--------|-----|------------|-----|-------------|----|-----|
| | | A | B | A | B | | | |
| 1 | 1SL0307A00 | 250 | 150 | - | - | 12 | 44 | 145 |
| 2 | 1SL0308A00-1SL0313A00 | 375 | 150 | 375 | 225 | 18 | 44 | 197 |
| 3 | 1SL0308A00-1SL0313A00 | 375 | 150 | 375 | 225 | 18 | 44 | 197 |
| 4 | 1SL0309A00-1SL0314A00 | 500 | 150 | 500 | 225 | 24 | 44 | 197 |
| 5 | 1SL0309A00-1SL0314A00 | 500 | 150 | 500 | 225 | 24 | 44 | 297 |
| 6 | 1SL0310A00-1SL0315A00 | 750 | 150 | 750 | 225 | 36 | 44 | 297 |

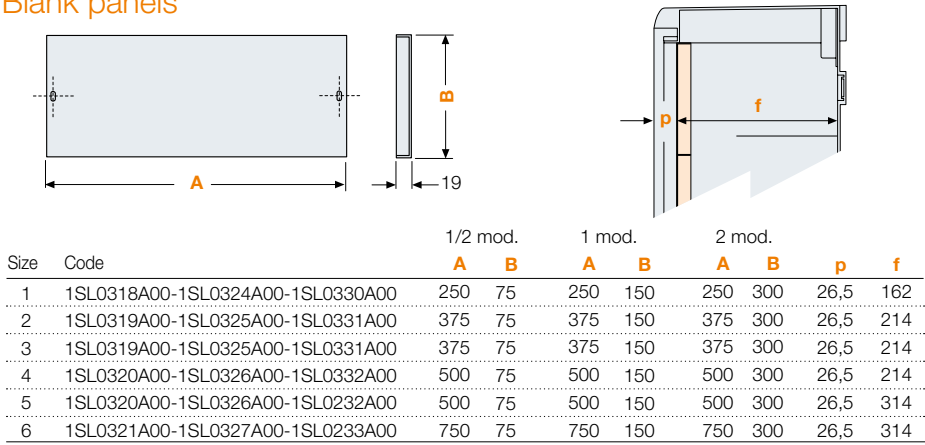
Measurements are in millimetres



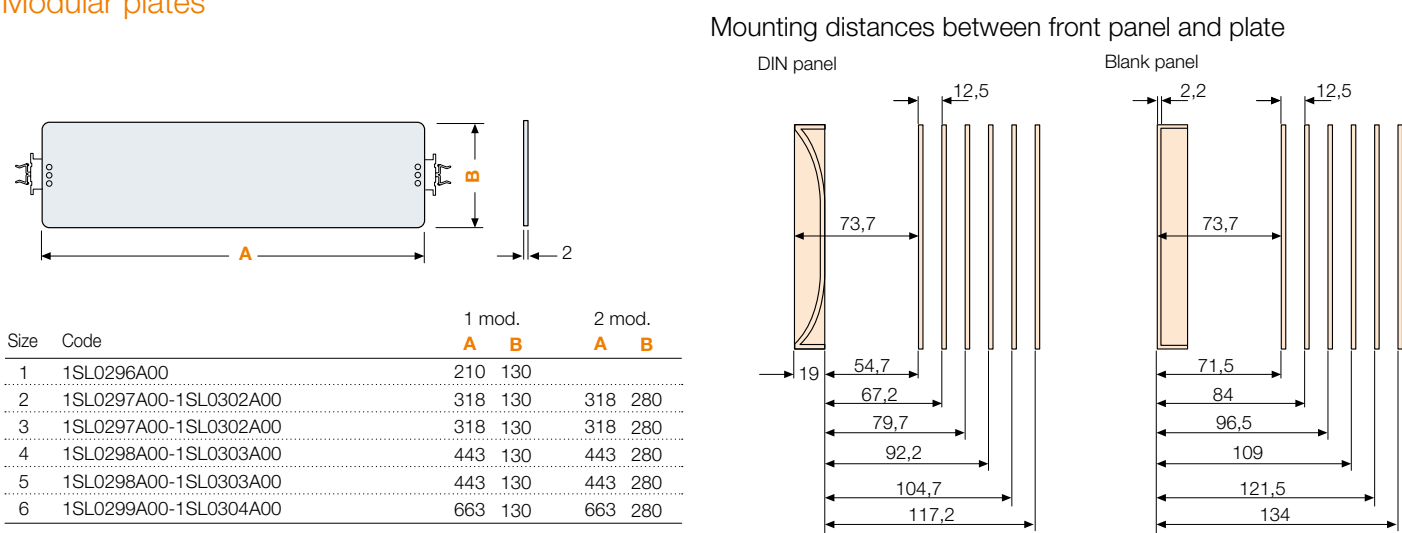
Overall dimensions

Gemini switchboards

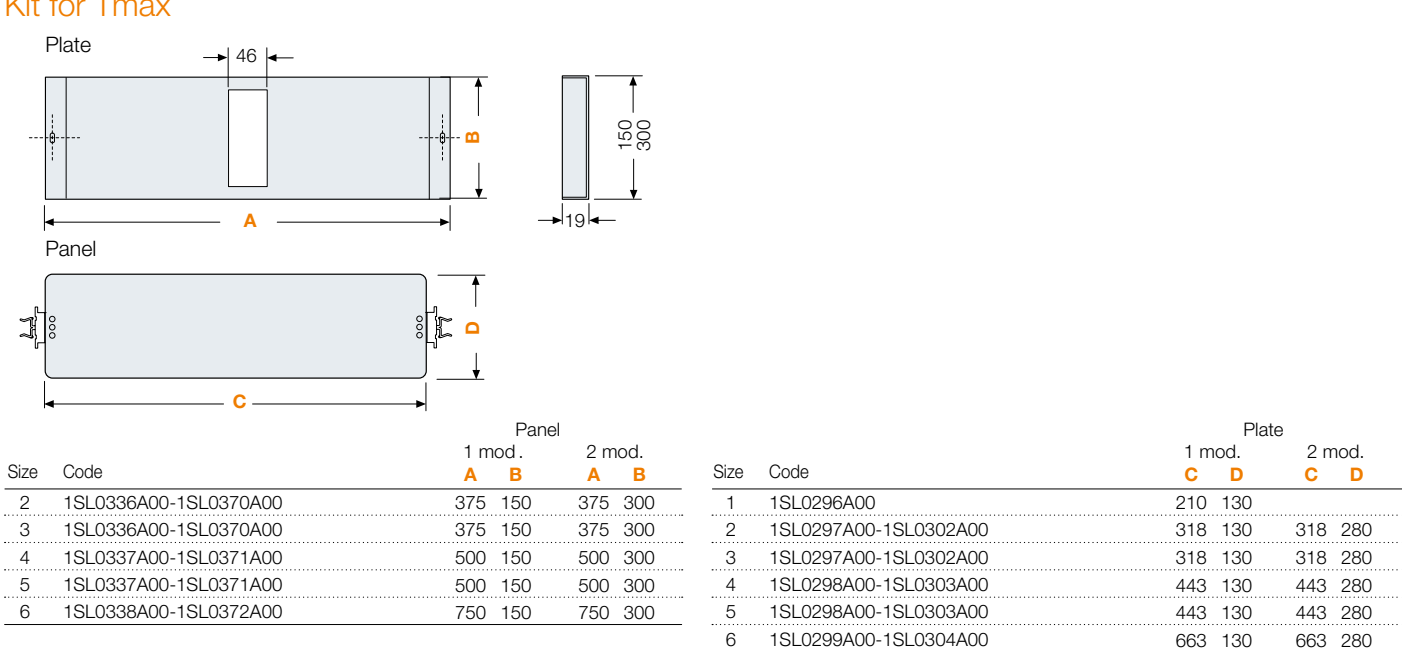
Blank panels



Modular plates

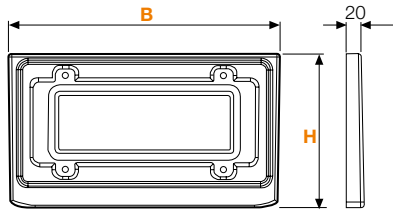


Kit for Tmax



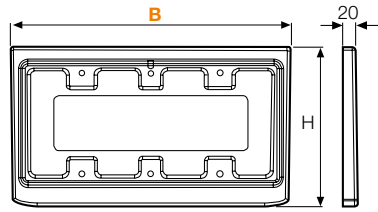
Measurements are in millimetres

Coupling Kit



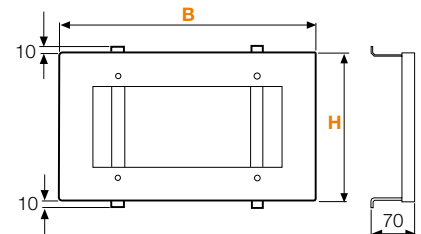
| size | B | H |
|------|-----|-----|
| 1 | - | - |
| 2 | 455 | 258 |
| 3 | 455 | 258 |
| 4 | 583 | 260 |
| 5 | 583 | 360 |
| 6 | 834 | 360 |

Plinth



| size | B | H |
|------|-----|-----|
| 1 | - | - |
| 2 | 458 | 260 |
| 3 | 458 | 260 |
| 4 | 583 | 260 |
| 5 | 590 | 366 |
| 6 | 840 | 366 |

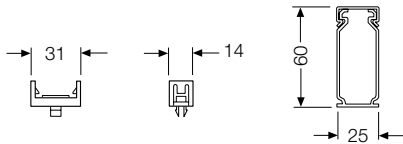
Fixed frame



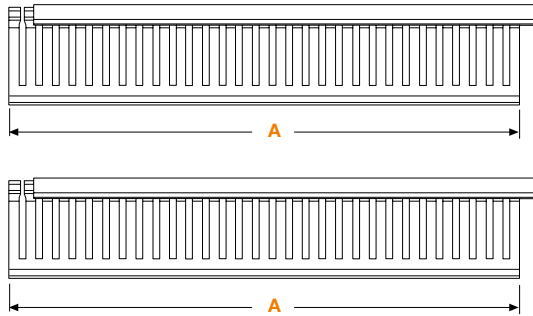
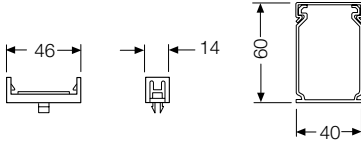
| size | B | H |
|------|-----|-----|
| 1 | - | - |
| 2 | 415 | 240 |
| 3 | 415 | 240 |
| 4 | 540 | 240 |
| 5 | 584 | 330 |
| 6 | 834 | 330 |

Wiring kit

Duct 25x60 mm

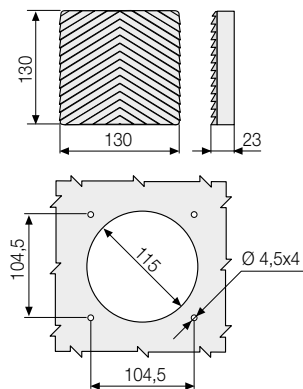


Duct 40x60 mm

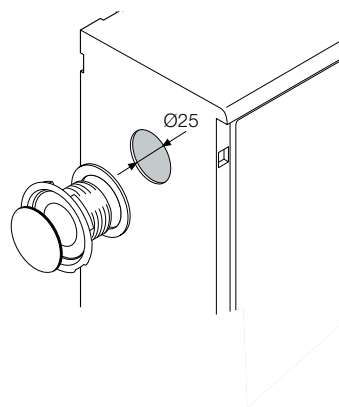


| size | A |
|------|-----|
| 1 | 210 |
| 2 | 318 |
| 3 | 318 |
| 4 | 443 |
| 5 | 443 |
| 6 | 663 |

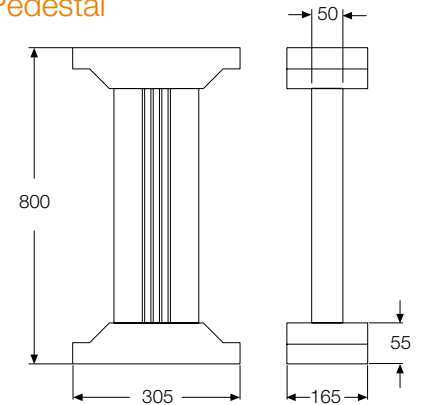
Ventilation kit



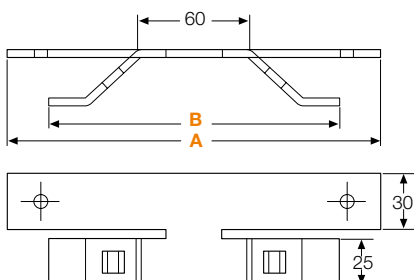
Anti-condensation kit



Pedestal



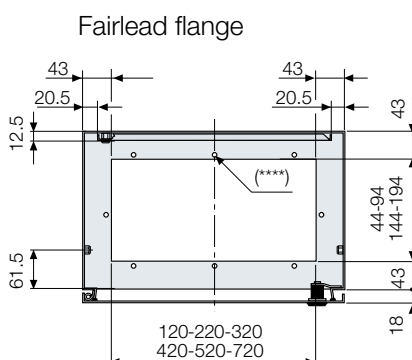
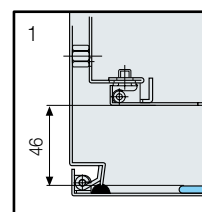
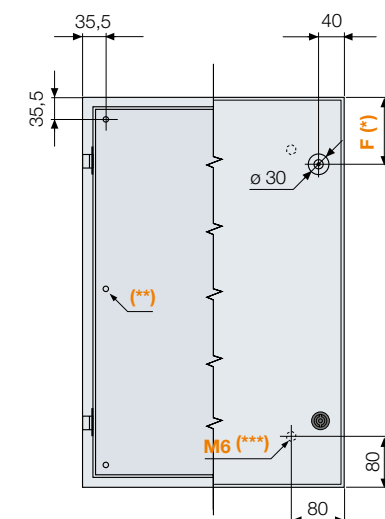
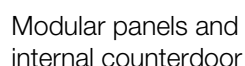
Pole installation kit



| Size | A | B |
|------|-----|-----|
| 1 | 232 | 206 |
| 2-3 | 358 | 332 |
| 4-5 | 483 | 457 |
| 6 | 733 | 707 |

Measurements are in millimetres

Basic version



n°1 central for enclosures from h=303 to 503 mm
n°2 for enclosures from h=603 to 703 mm (F=100mm)
n°2 for enclosures from h=803 to 1203 mm (F=150mm)

(***) Copper plated nut on door
 n° 1 for enclosures from h=303 to 503 mm
 n° 4 for enclosures from h=603 to 803 mm
 n° 6 for enclosures from h=1003 to 1203 mm

(****) Flange fixing holes
 n° 4 for enclosures from l=203mm
 n° 6 for enclosures from l=303 to 403 mm
 n° 8 for enclosures from l=503 to 1203 mm

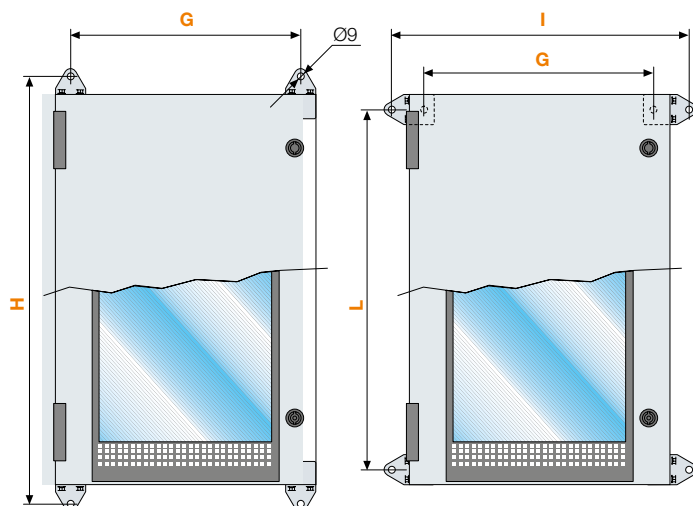
or drilling see page 9/47

| | A | B | C | D | E | F (°) | G | H | I | L |
|----------|-----|-----|-----|-----|-------|-------|-----|-----|-----|-----|
| SRN3215K | 303 | 203 | 147 | 82 | 133,5 | 151,5 | 163 | 337 | 237 | 263 |
| SRN3315K | 303 | 303 | 147 | 82 | 133,5 | 151,5 | 263 | 337 | 337 | 263 |
| SRN3415K | 303 | 403 | 147 | 82 | 133,5 | 151,5 | 363 | 337 | 437 | 263 |
| SRN4315K | 403 | 303 | 147 | 82 | 133,5 | 201,5 | 263 | 437 | 337 | 363 |
| SRN4320K | 403 | 303 | 197 | 132 | 183,5 | 201,5 | 263 | 437 | 337 | 363 |
| SRN4420K | 403 | 403 | 197 | 132 | 183,5 | 201,5 | 363 | 437 | 437 | 363 |
| SRN4620K | 403 | 603 | 197 | 132 | 183,5 | 201,5 | 563 | 437 | 637 | 363 |
| SRN5320K | 503 | 303 | 197 | 132 | 183,5 | 251,5 | 263 | 537 | 337 | 463 |
| SRN5420K | 503 | 403 | 197 | 132 | 183,5 | 251,5 | 363 | 537 | 437 | 463 |
| SRN5425K | 503 | 403 | 247 | 182 | 233,5 | 251,5 | 363 | 537 | 437 | 463 |
| SRN6420K | 603 | 403 | 197 | 132 | 183,5 | 100 | 363 | 637 | 437 | 563 |
| SRN6425K | 603 | 403 | 247 | 182 | 233,5 | 100 | 363 | 637 | 437 | 563 |
| SRN6625K | 603 | 603 | 247 | 182 | 233,5 | 100 | 563 | 637 | 637 | 563 |
| SRN7520K | 703 | 503 | 197 | 132 | 183,5 | 100 | 463 | 737 | 537 | 663 |
| SRN7525K | 703 | 503 | 247 | 182 | 233,5 | 100 | 463 | 737 | 537 | 663 |
| SRN8625K | 803 | 603 | 247 | 182 | 233,5 | 150 | 563 | 837 | 637 | 763 |
| SRN8630K | 803 | 603 | 297 | 232 | 283,5 | 150 | 563 | 837 | 637 | 763 |
| SRN8830K | 803 | 803 | 297 | 232 | 283,5 | 150 | 763 | 837 | 837 | 763 |

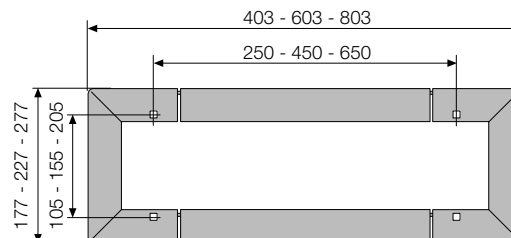
| | A | B | C | D | E | F (*) | G | H | I | L |
|------------|------|-----|-----|-----|-------|-------|-----|------|-----|------|
| SRN10625K | 1003 | 603 | 247 | 182 | 233,5 | 150 | 563 | 1037 | 637 | 963 |
| SRN10630K | 1003 | 603 | 297 | 232 | 283,5 | 150 | 563 | 1037 | 637 | 963 |
| SRN10830K | 1003 | 803 | 297 | 232 | 283,5 | 150 | 763 | 1037 | 837 | 963 |
| SRN12630K | 1203 | 603 | 297 | 232 | 283,5 | 150 | 563 | 1237 | 637 | 1163 |
| SRN12830K | 1203 | 803 | 297 | 232 | 283,5 | 150 | 763 | 1237 | 837 | 1163 |
| SRN5420VK | 503 | 403 | 197 | 132 | 183,5 | 150 | 363 | 537 | 437 | 463 |
| SRN5425VK | 503 | 403 | 247 | 182 | 233,5 | 150 | 363 | 537 | 437 | 463 |
| SRN6420VK | 603 | 403 | 197 | 132 | 183,5 | 150 | 363 | 637 | 437 | 563 |
| SRN6425VK | 603 | 403 | 247 | 182 | 233,5 | 150 | 363 | 637 | 437 | 563 |
| SRN7520VK | 703 | 503 | 197 | 132 | 183,5 | 150 | 463 | 737 | 537 | 663 |
| SRN7525VK | 703 | 503 | 247 | 182 | 233,5 | 150 | 463 | 737 | 537 | 663 |
| SRN8625VK | 803 | 603 | 247 | 182 | 233,5 | 150 | 563 | 837 | 637 | 763 |
| SRN8630VK | 803 | 603 | 297 | 232 | 283,5 | 150 | 563 | 837 | 637 | 763 |
| SRN10625VK | 1003 | 603 | 247 | 182 | 233,5 | 150 | 563 | 1037 | 637 | 963 |
| SRN10630VK | 1003 | 603 | 297 | 232 | 283,5 | 150 | 563 | 1037 | 637 | 963 |
| SRN10830VK | 1003 | 803 | 297 | 232 | 283,5 | 150 | 763 | 1037 | 837 | 963 |
| SRN12630VK | 1203 | 603 | 297 | 232 | 283,5 | 150 | 563 | 1237 | 637 | 1163 |
| SRN12830VK | 1203 | 803 | 297 | 232 | 283,5 | 150 | 763 | 1237 | 837 | 1163 |

8/6 1STC804013D0207 | ABB Technical catalogue

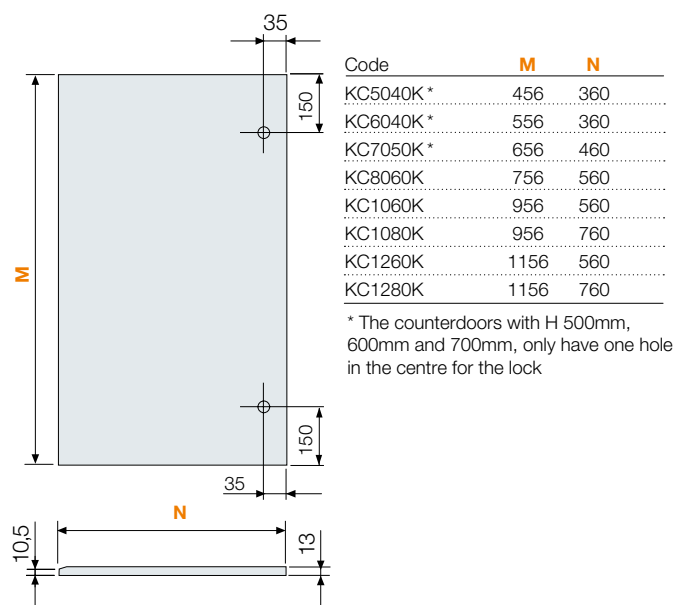
Centre distances for wall fixing



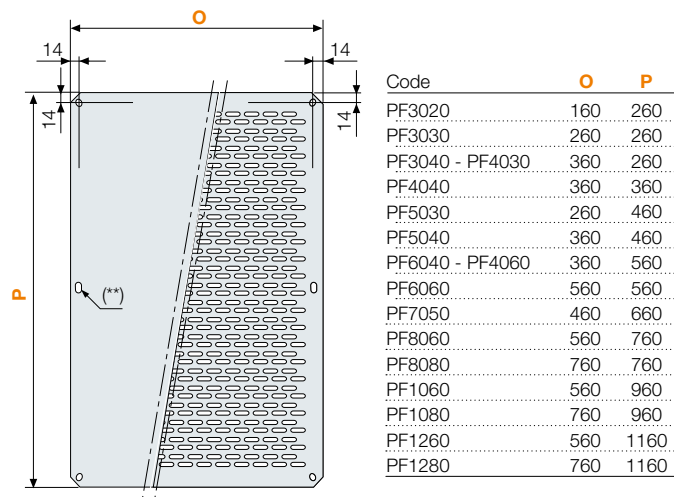
Centre distances for plinth fixing



Internal counterdoors



Internal plates

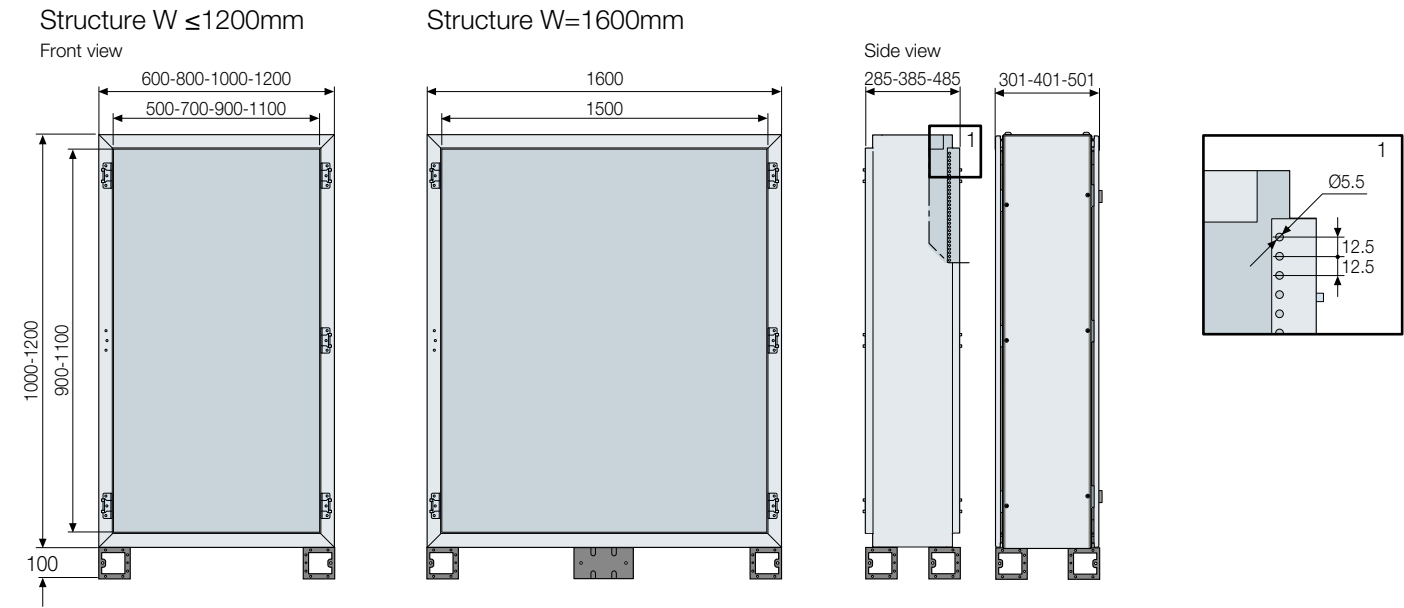


Measurements are in millimetres

Overall dimensions

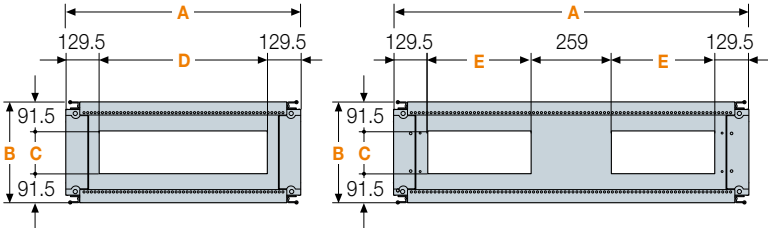
AM2 cabinets

Structure



Basic structure $W \leq 1000\text{mm}$

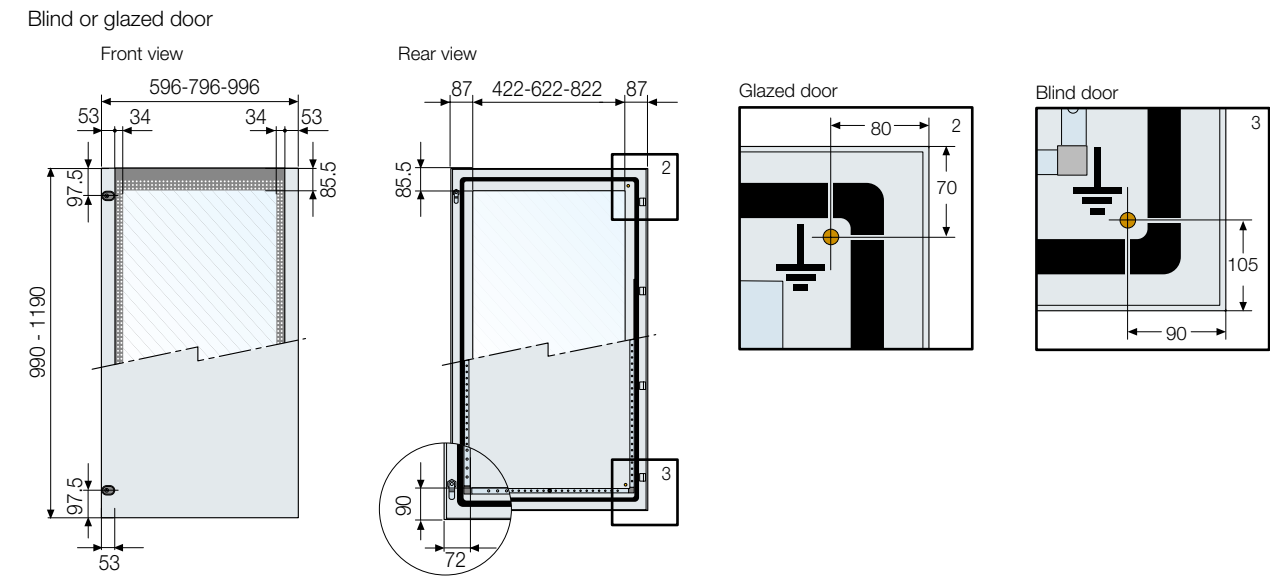
Basic structure $W \geq 1200\text{mm}$



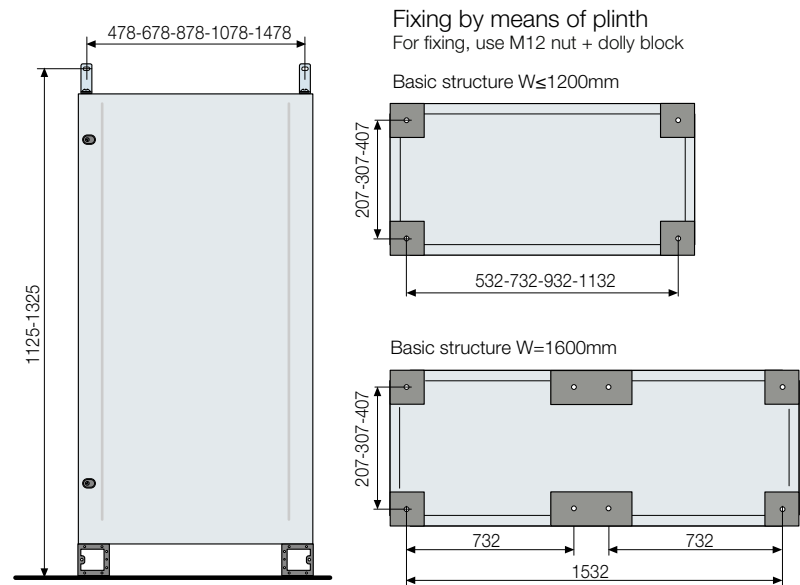
| A | B | C | D | E |
|------|-----|-----|-----|-----|
| 600 | 285 | 102 | 341 | |
| | 385 | 202 | 341 | |
| | 485 | 302 | 341 | |
| 800 | 285 | 102 | 541 | |
| | 385 | 202 | 541 | |
| | 485 | 302 | 541 | |
| 1000 | 285 | 102 | 741 | |
| | 385 | 202 | 741 | |
| | 485 | 302 | 741 | |
| 1200 | 285 | 102 | | 341 |
| | 385 | 202 | | 341 |
| | 485 | 302 | | 341 |
| 1600 | 285 | 102 | | 541 |
| | 385 | 202 | | 541 |
| | 485 | 302 | | 541 |

Measurements are in millimetres

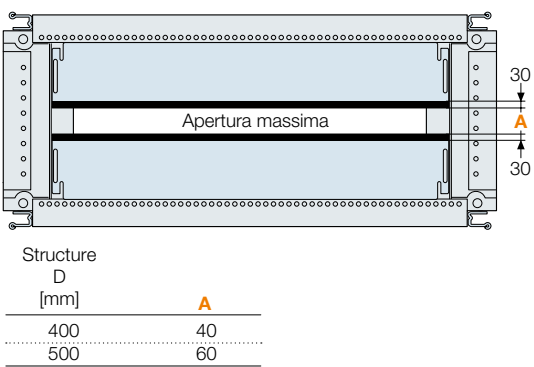
Front/Rear covers



Fixing to wall/floor



Flanges for sliding cable passage

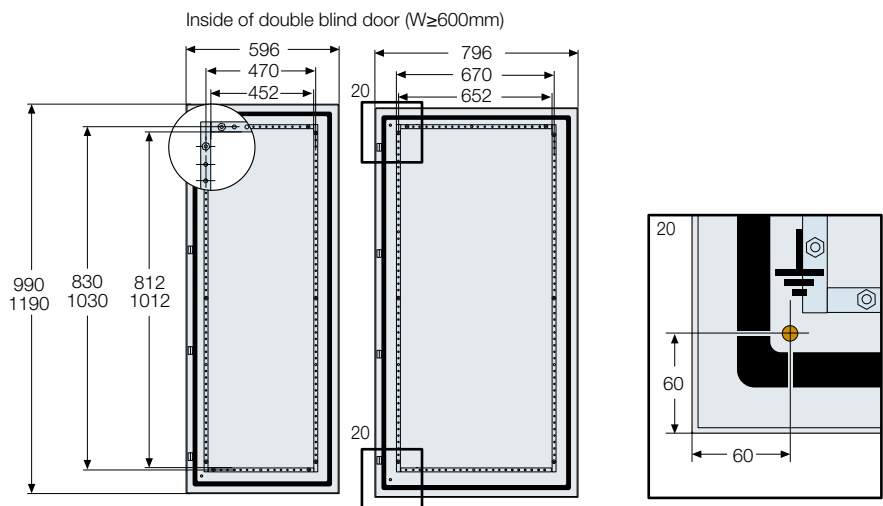
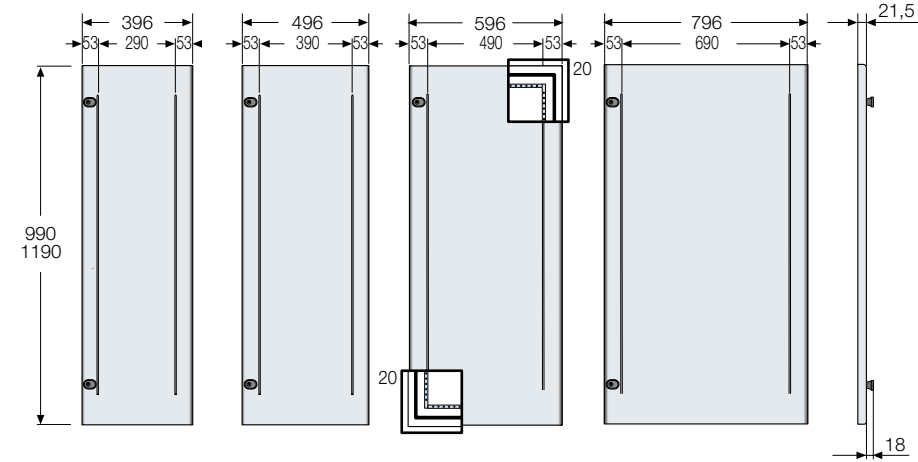


Measurements are in millimetres

Overall dimensions

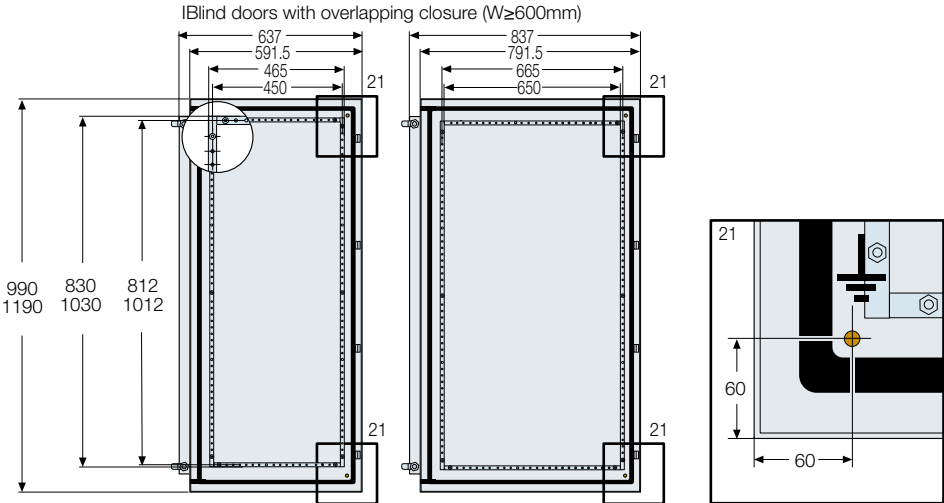
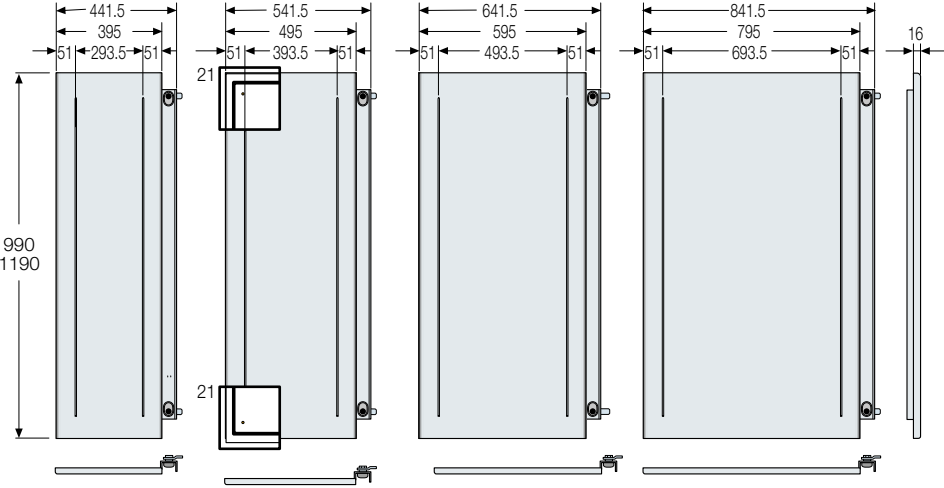
AM2 cabinets

Double front or rear doors



Measurements are in millimetres

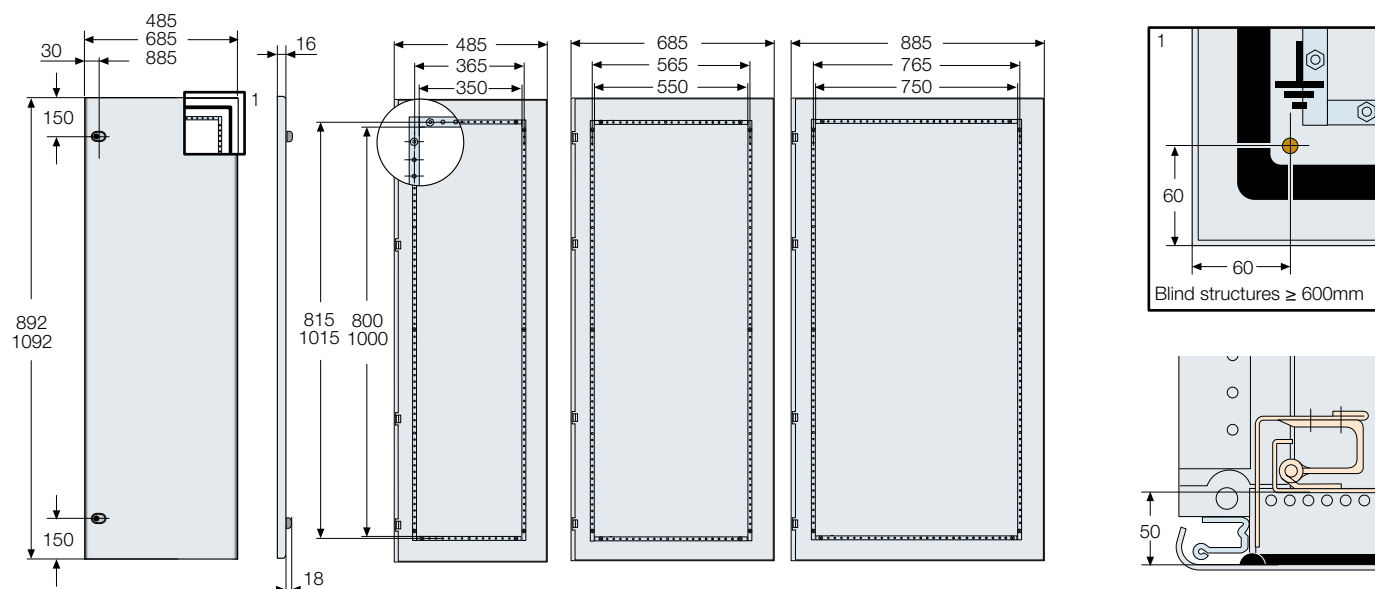
Blind doors with overlapping closure



Measurements are in millimetres

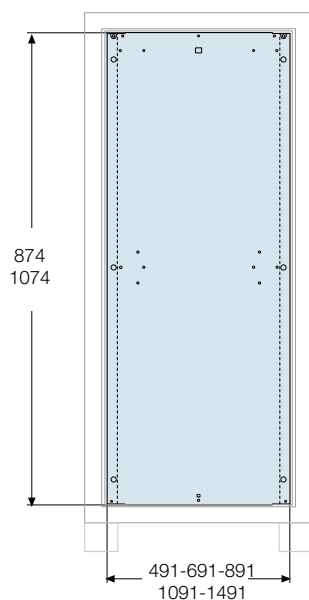
Overall dimensions AM2 cabinets

Internal counterdoor

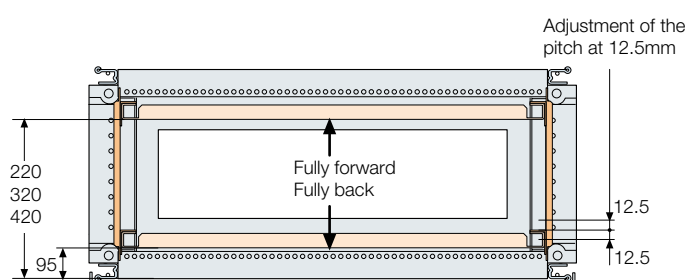
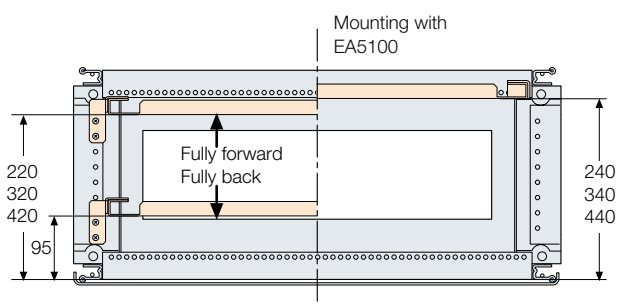
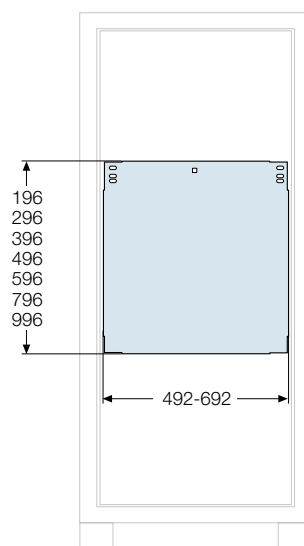


8 Mounting plates

Standard plate

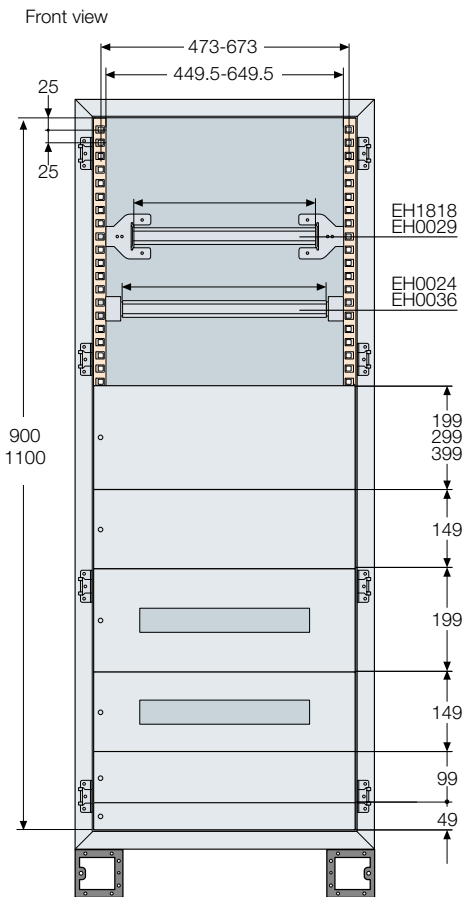


Partial height plate

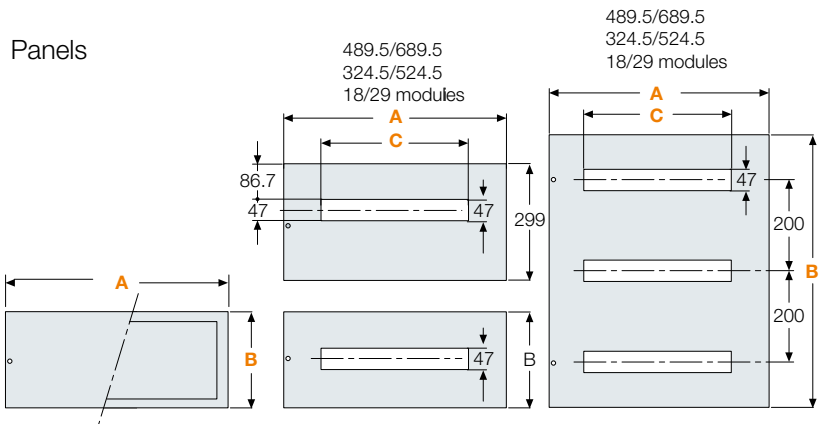


Measurements are in millimetres

Kit modular apparatus



Panels



Flat and recessed blind panels

| Flat | Recessed | A | B |
|---------|----------|-------|-----|
| EH0562K | | 489.5 | 49 |
| EH1062K | | 489.5 | 99 |
| EH1562K | | 489.5 | 149 |
| EH2062K | EH2063K | 489.5 | 199 |
| EH3063K | EH3064K | 489.5 | 299 |
| EH4062K | EH4064K | 489.5 | 299 |
| EH5062K | EH5063K | 489.5 | 499 |
| EH6062K | EH6063K | 489.5 | 599 |
| EH0582K | | 689.5 | 49 |
| EH1082K | | 689.5 | 99 |
| EH1582K | | 689.5 | 149 |
| EH2082K | EH2083K | 689.5 | 199 |
| EH3082K | EH3083K | 689.5 | 299 |
| EH4082K | EH4083K | 689.5 | 299 |
| EH5082K | EH5084K | 689.5 | 499 |
| EH6082K | EH6084K | 689.5 | 599 |

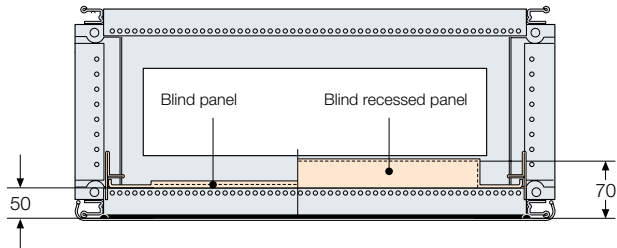
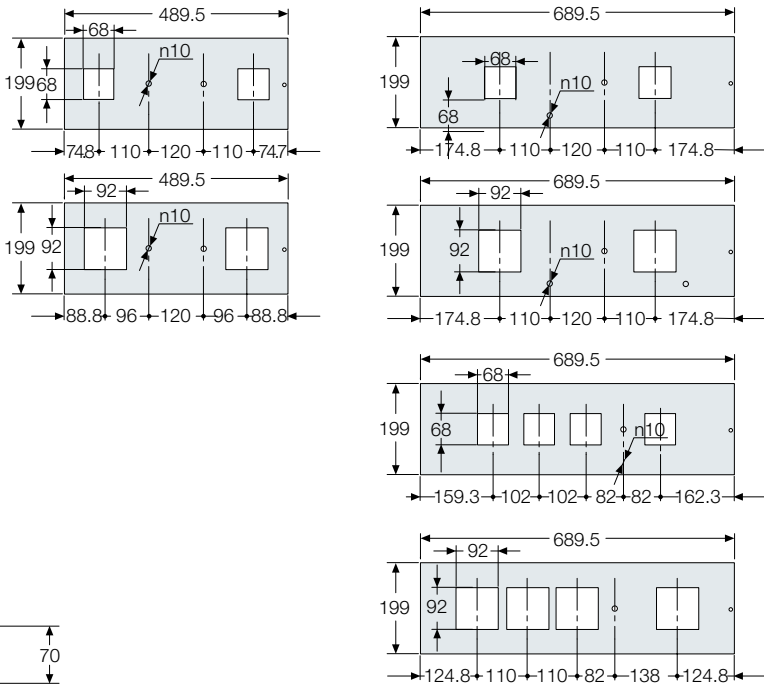
Panels for modular instruments

| 1 DIN row | A | B | C | No. mod. |
|-----------|-------|-----|-------|----------|
| Code | | | | |
| EH1518K | 489.5 | 149 | 324.5 | 18 |
| EH2018K | 489.5 | 199 | 324.5 | 18 |
| EH3018K | 489.5 | 299 | 324.5 | 18 |
| EH1529K | 689.5 | 149 | 524.5 | 29 |
| EH2029K | 689.5 | 199 | 524.5 | 29 |
| EH3029K | 689.5 | 299 | 524.5 | 29 |
| EH1524K | 489.5 | 149 | 432 | 24 |
| EH2024K | 489.5 | 199 | 432 | 24 |
| EH1536K | 689.5 | 149 | 634 | 36 |
| EH2036K | 689.5 | 199 | 634 | 36 |

3 DIN row

| | | | | |
|---------|-------|-----|-------|----|
| EH6018K | 489.5 | 599 | 324.5 | 18 |
| EH6029K | 689.5 | 599 | 524.5 | 29 |
| EH6025K | 489.5 | 599 | 324.5 | 24 |
| EH6036K | 689.5 | 599 | 524.5 | 36 |

Instrument panels

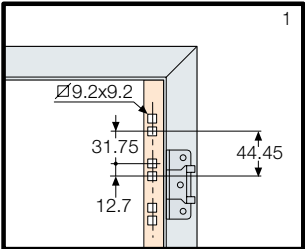
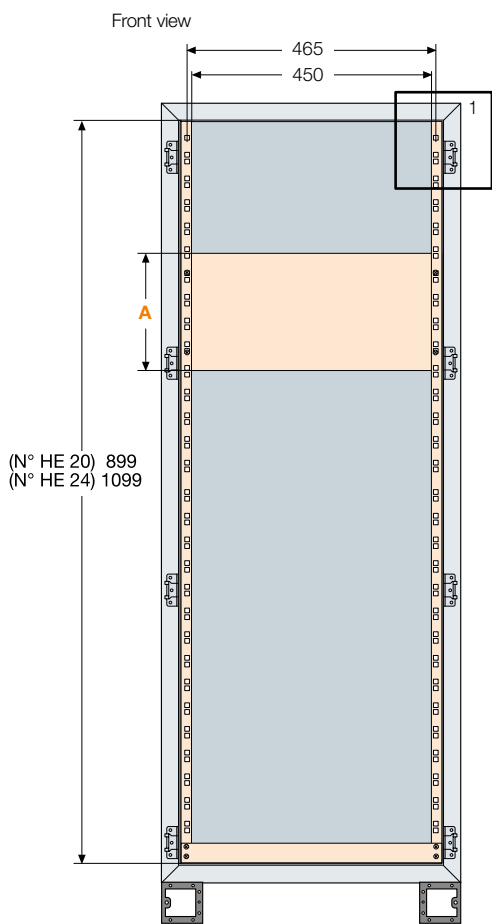


Measurements are in millimetres

Overall dimensions

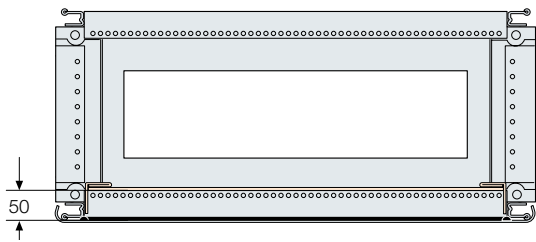
AM2 cabinets

19" Rack frames



Panels for 19" rack frame

| Codice | A | No. E |
|--------|-------|-------|
| EG1991 | 44.45 | 1 |
| EG1902 | 89 | 2 |
| EG1903 | 133 | 3 |
| EG1904 | 177.5 | 4 |
| EG1905 | 222 | 5 |
| EG1906 | 266.5 | 6 |
| EG1907 | 311 | 7 |
| EG1908 | 355.5 | 8 |
| EG1909 | 400 | 9 |
| EG1910 | 444.5 | 10 |
| EG1911 | 488 | 11 |
| EG1912 | 533 | 12 |
| EG1913 | 577.5 | 13 |
| EG1914 | 622 | 14 |
| EG1915 | 666 | 15 |
| EG1916 | 711 | 16 |
| EG1917 | 755.5 | 17 |
| EG1918 | 800 | 18 |
| EG1999 | 844.5 | 19 |
| EG1920 | 889 | 20 |

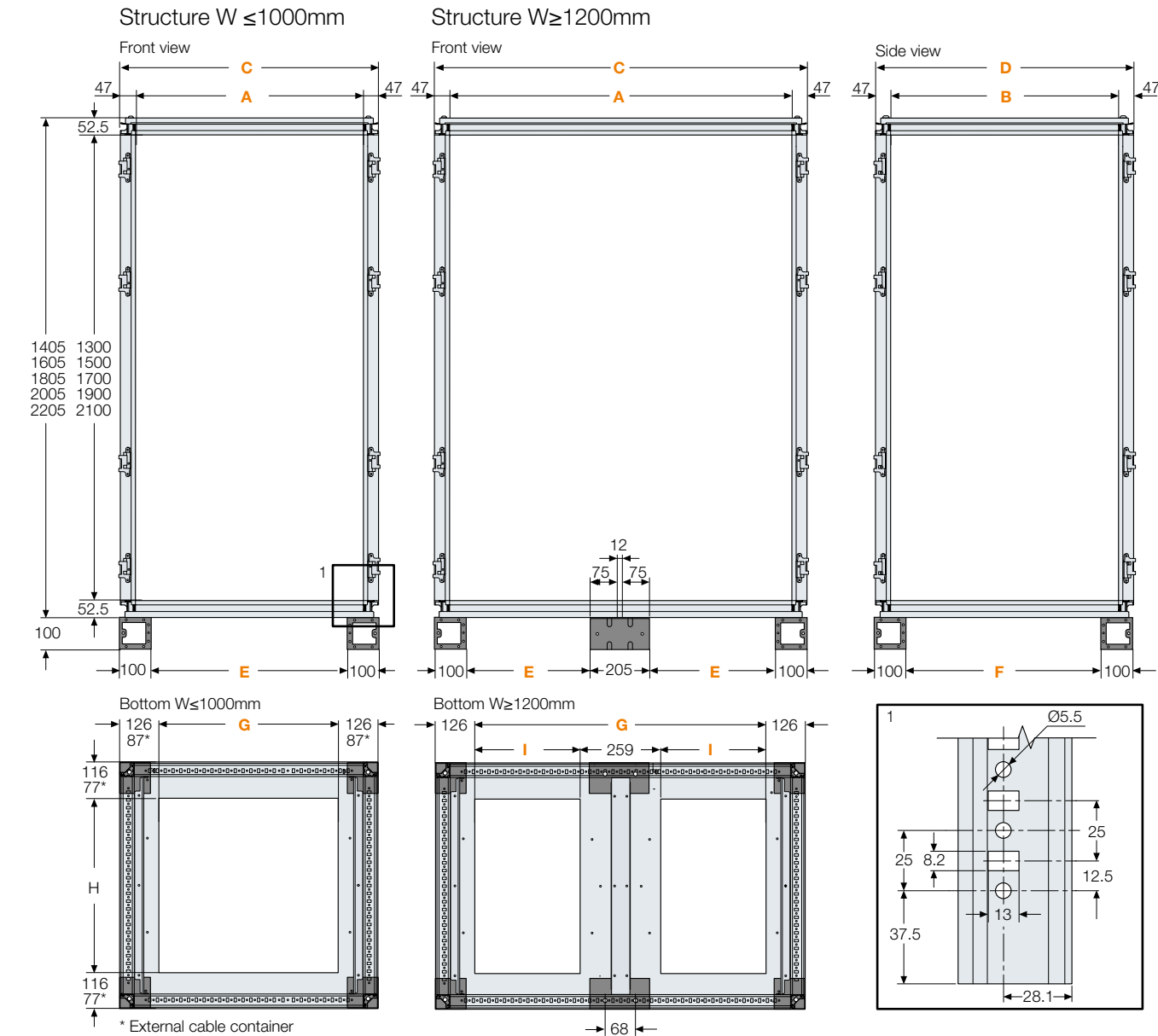


Measurements are in millimetres

Overall dimensions

IS2 Enclosures

Basic structure/External cable container



| A | B | C | D | E | F | G | H | A | B | C | D | E | F | G | H | I |
|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|------|-----|-------|-----|------|-----|-------|
| 200 | 300 | 294 | 394 | 88 | 238 | 120 | 239 | 900 | 300 | 994 | 394 | 788 | 188 | 742 | 162 | |
| | 400 | | 494 | | 338 | | 339 | | 400 | | 494 | | 288 | | | |
| | 500 | | 594 | | 438 | | 439 | | 500 | | 594 | | 388 | | | |
| | 700 | | 794 | | 638 | | 639 | | 700 | | 794 | | 588 | | | |
| | 900 | | 994 | | 838 | | 839 | | 900 | | 994 | | 788 | | | |
| 300 | 300 | 394 | 394 | 188 | 238 | 142 | 162 | 1100 | 300 | 1194 | 394 | 391,5 | 188 | 942 | 162 | 341.5 |
| | 400 | | 494 | | 338 | | 262 | | 400 | | 494 | | 288 | | | |
| | 500 | | 594 | | 438 | | 362 | | 500 | | 594 | | 388 | | | |
| | 700 | | 794 | | 638 | | 562 | | 700 | | 794 | | 588 | | | |
| | 900 | | 994 | | 838 | | 762 | | 900 | | 994 | | 788 | | | |
| 500 | 300 | 594 | 394 | 388 | 238 | 342 | 162 | 1500 | 300 | 1594 | 394 | 591,5 | 188 | 1342 | 162 | 541.5 |
| | 400 | | 494 | | 338 | | 262 | | 400 | | 494 | | 288 | | | |
| | 500 | | 594 | | 438 | | 362 | | 500 | | 594 | | 388 | | | |
| | 700 | | 794 | | 638 | | 562 | | 700 | | 794 | | 588 | | | |
| | 900 | | 994 | | 838 | | 762 | | 900 | | 994 | | 788 | | | |
| 700 | 300 | 794 | 394 | 588 | 238 | 542 | 162 | | 300 | | 394 | | 188 | | | |
| | 400 | | 494 | | 338 | | 262 | | 400 | | 494 | | 288 | | | |
| | 500 | | 594 | | 438 | | 362 | | 500 | | 594 | | 388 | | | |
| | 700 | | 794 | | 638 | | 562 | | 700 | | 794 | | 588 | | | |
| | 900 | | 994 | | 838 | | 762 | | 900 | | 994 | | 788 | | | |

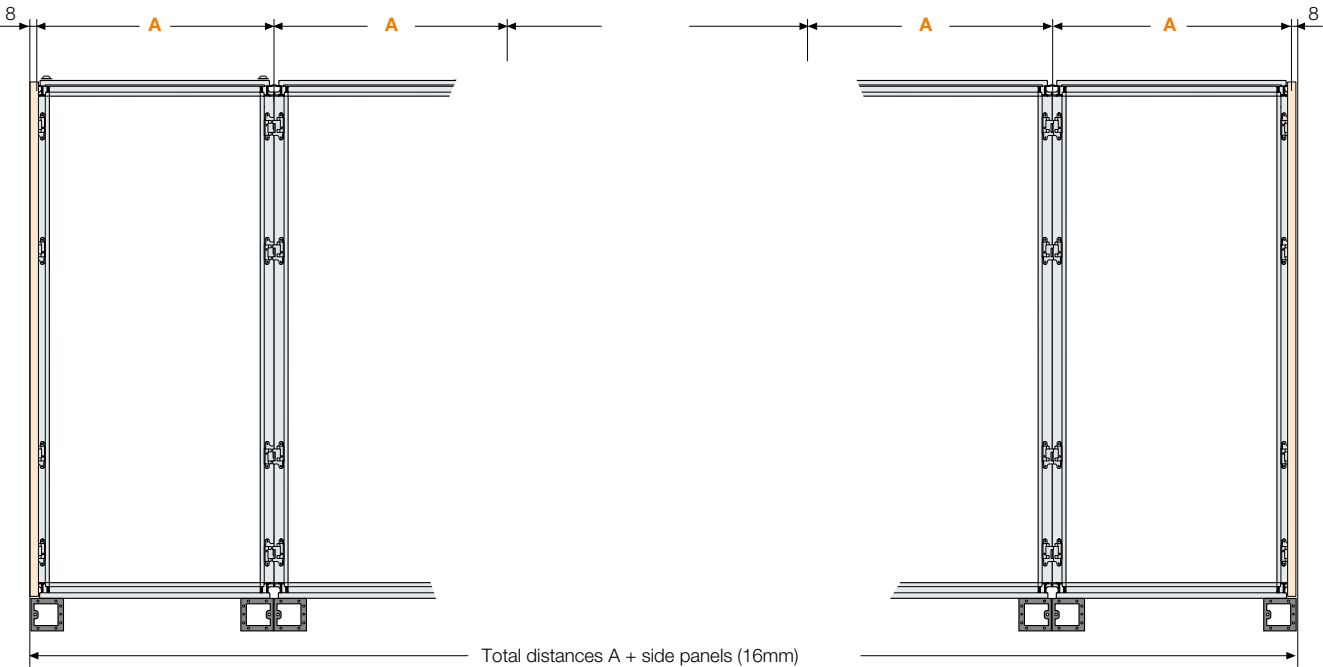
Measurements are in millimetres

Overall dimensions

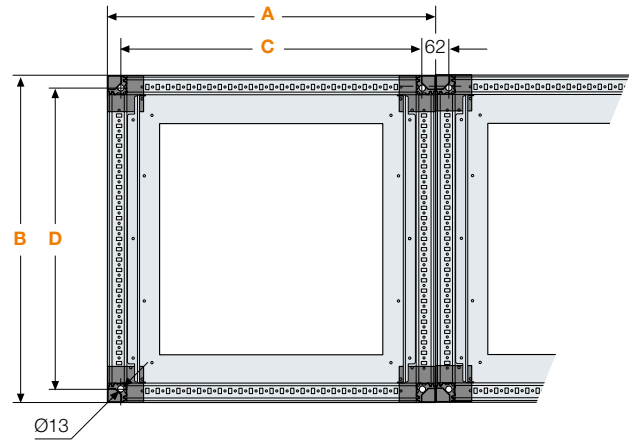
IS2 Enclosures

Placing structures side by side and fixing to the floor

Overall dimensions of several structures side by side



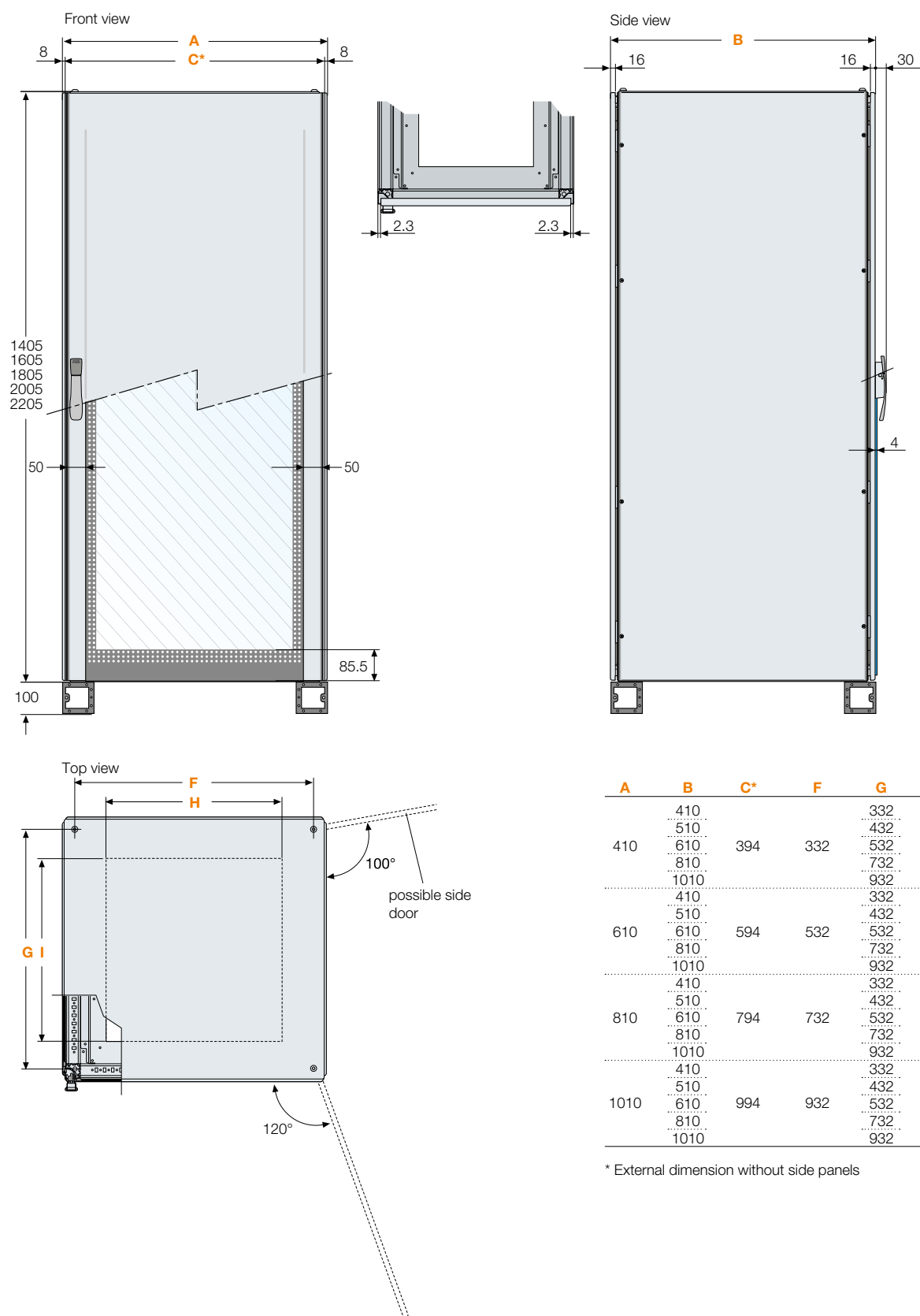
Fixing by means of plinth
For fixing, use M12 nut + dolly block



| A | B | C | D |
|------|-----|------|-----|
| | 394 | | 332 |
| | 494 | | 432 |
| 394 | 594 | 332 | 532 |
| | 794 | | 732 |
| | 994 | | 932 |
| | 394 | | 332 |
| | 494 | | 432 |
| 594 | 594 | 532 | 532 |
| | 794 | | 732 |
| | 994 | | 932 |
| | 394 | | 332 |
| | 494 | | 432 |
| 794 | 594 | 732 | 532 |
| | 794 | | 732 |
| | 994 | | 932 |
| | 394 | | 332 |
| | 494 | | 432 |
| 994 | 594 | 932 | 532 |
| | 794 | | 732 |
| | 994 | | 932 |
| | 394 | | 332 |
| | 494 | | 432 |
| 1194 | 594 | 1132 | 532 |
| | 794 | | 732 |
| | 994 | | 932 |
| 1594 | 494 | 1532 | 432 |
| | 594 | | 532 |
| | 794 | | 732 |

Measurements are in millimetres

Version with blind or glazed door



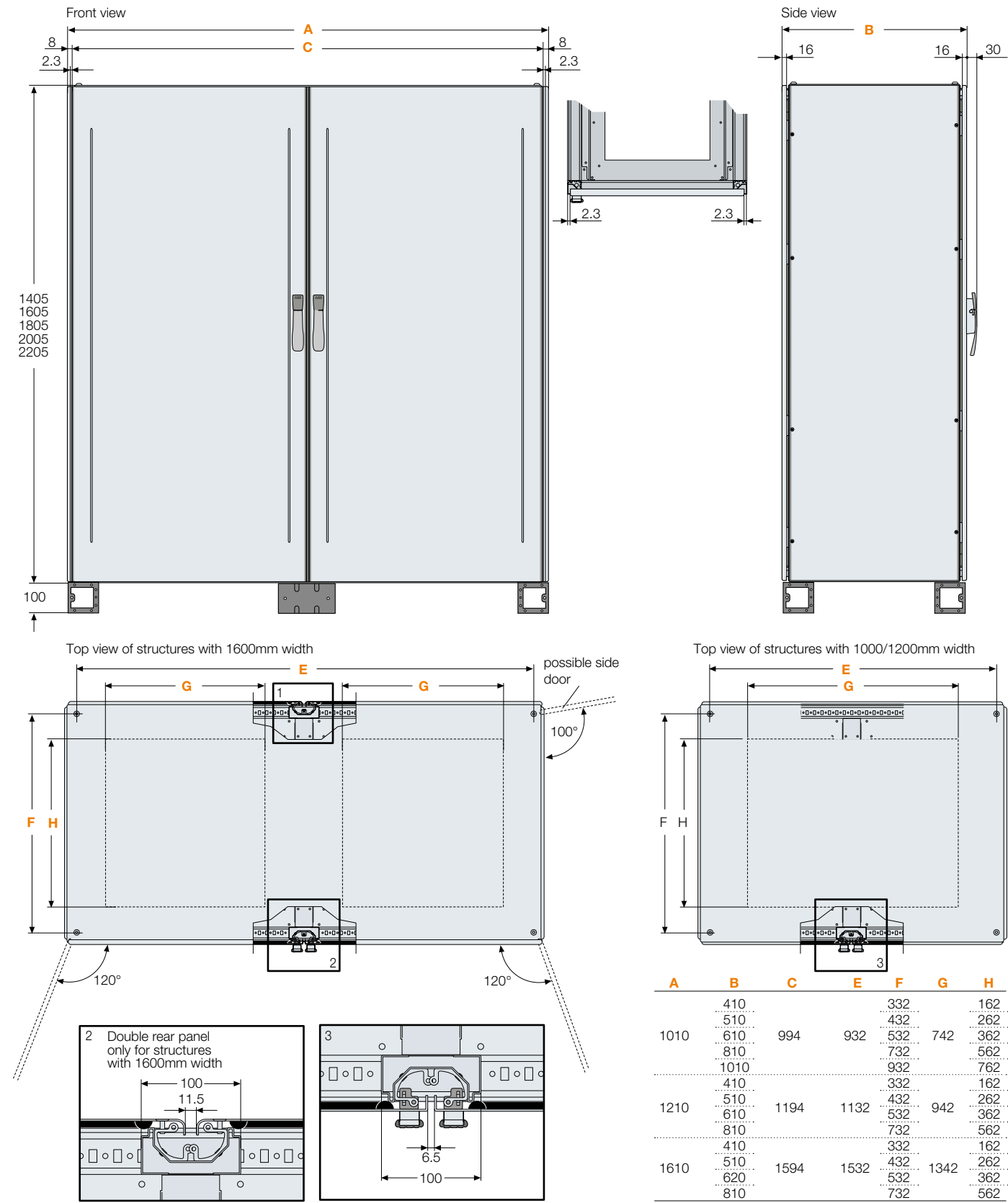
* External dimension without side panels

Measurements are in millimetres

Overall dimensions

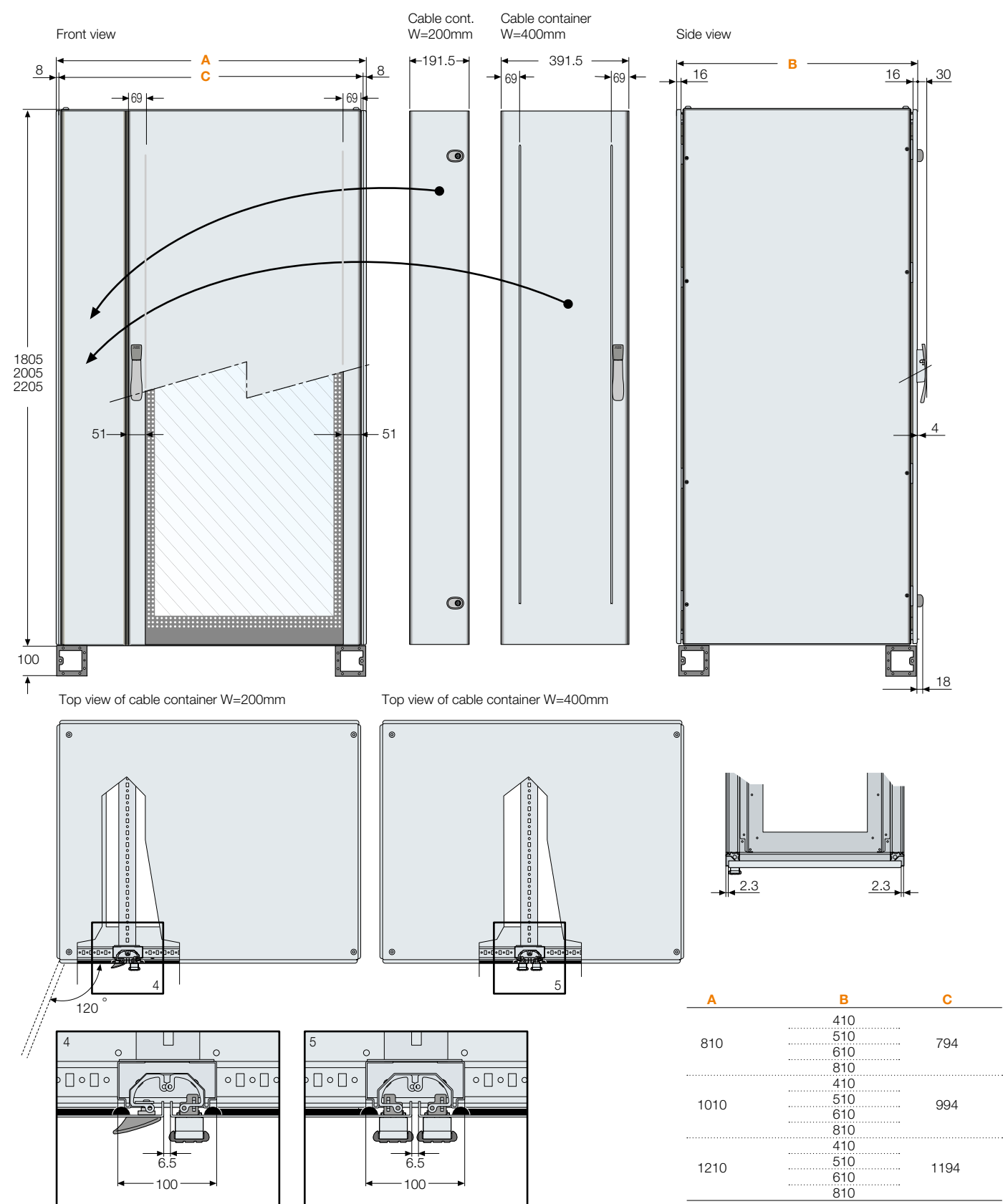
IS2 Enclosures

Version with double blind door



Measurements are in millimetres

Version with cable container



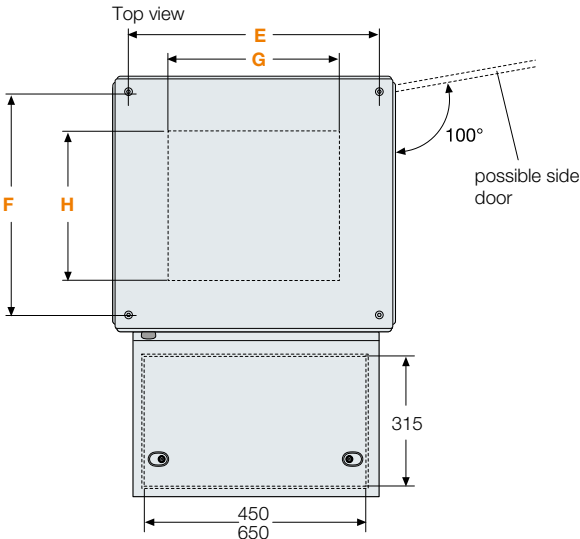
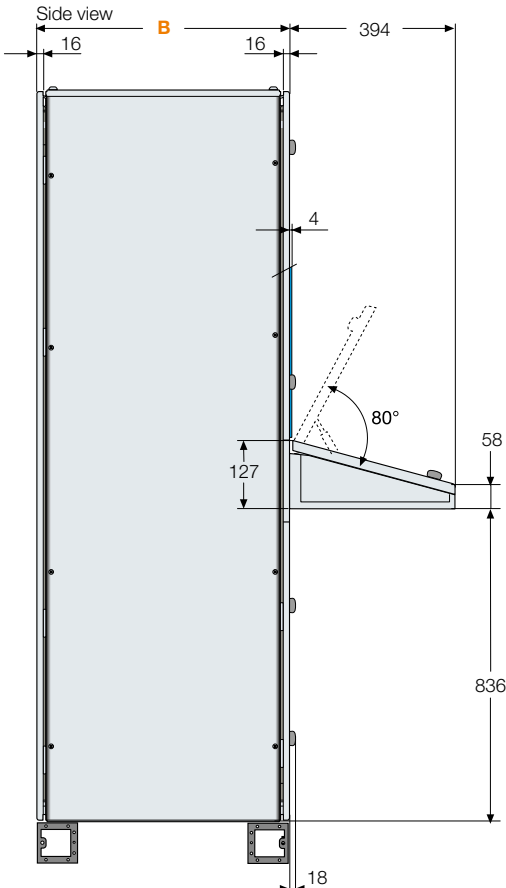
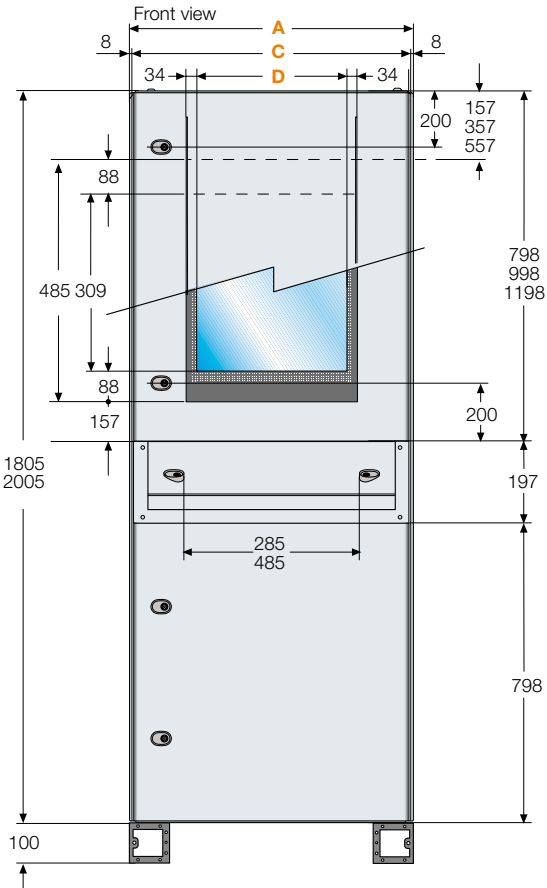
Measurements are in millimetres

Overall dimensions

IS2 Enclosures

Cabinet with console

Note: for glass dimensions, please refer to the table below.

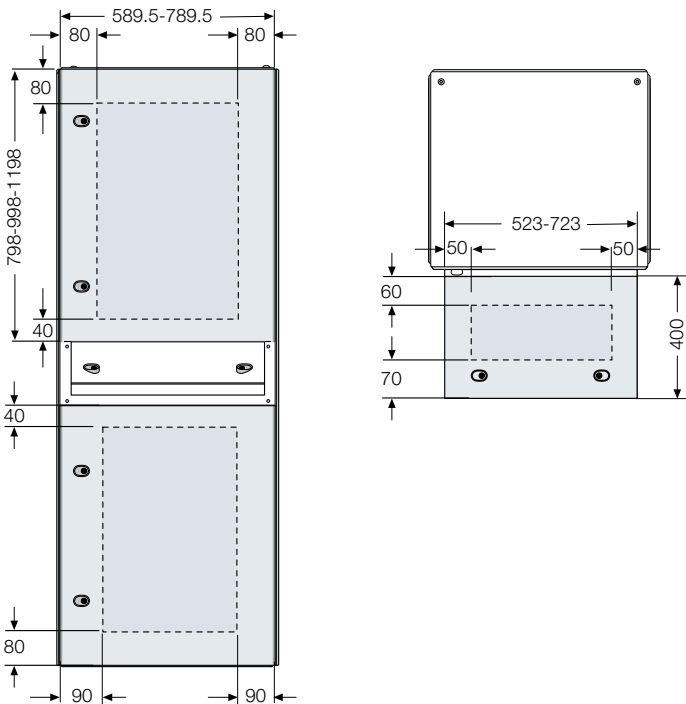


| A | B | C | D | E | F | G | H |
|-------|-----|-------|-----|-----|-----|-----|-----|
| 410 | 510 | 589.5 | 342 | 532 | 332 | 342 | 162 |
| 605.5 | 610 | | | | 432 | | 262 |
| | 810 | | | | 532 | | 362 |
| | | | | | 732 | | 562 |
| 410 | 510 | 789.5 | 542 | 732 | 332 | 542 | 162 |
| 805.5 | 610 | | | | 432 | | 262 |
| | 810 | | | | 532 | | 362 |
| | | | | | 732 | | 562 |

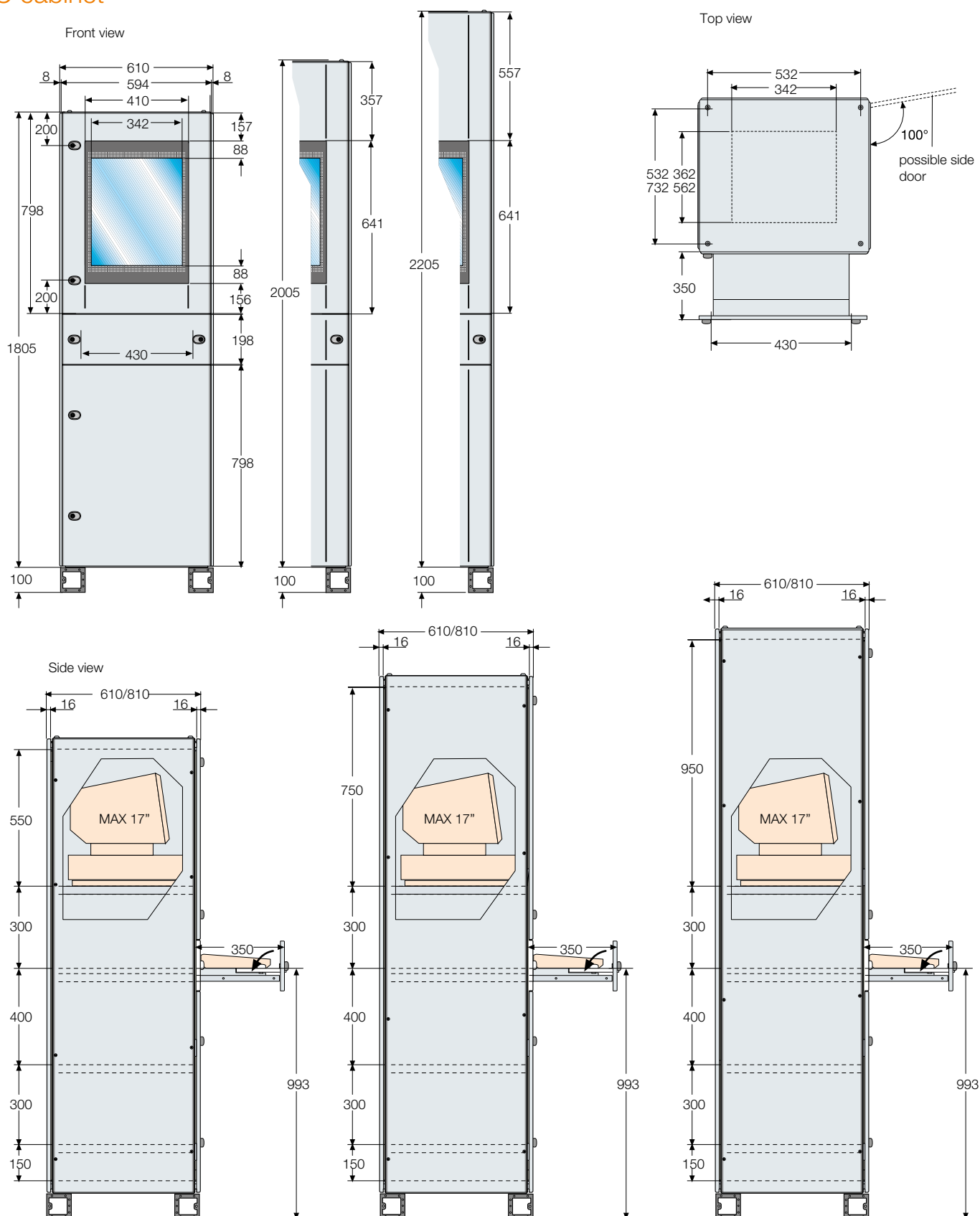
Measurements are in millimetres

Cabinet with console drillings

Maximum useful overall dimensions for the drillings



PC cabinet



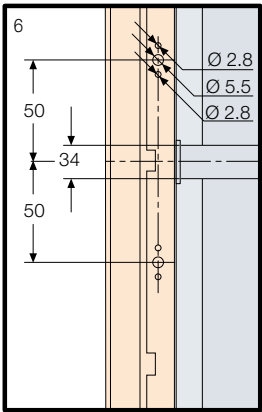
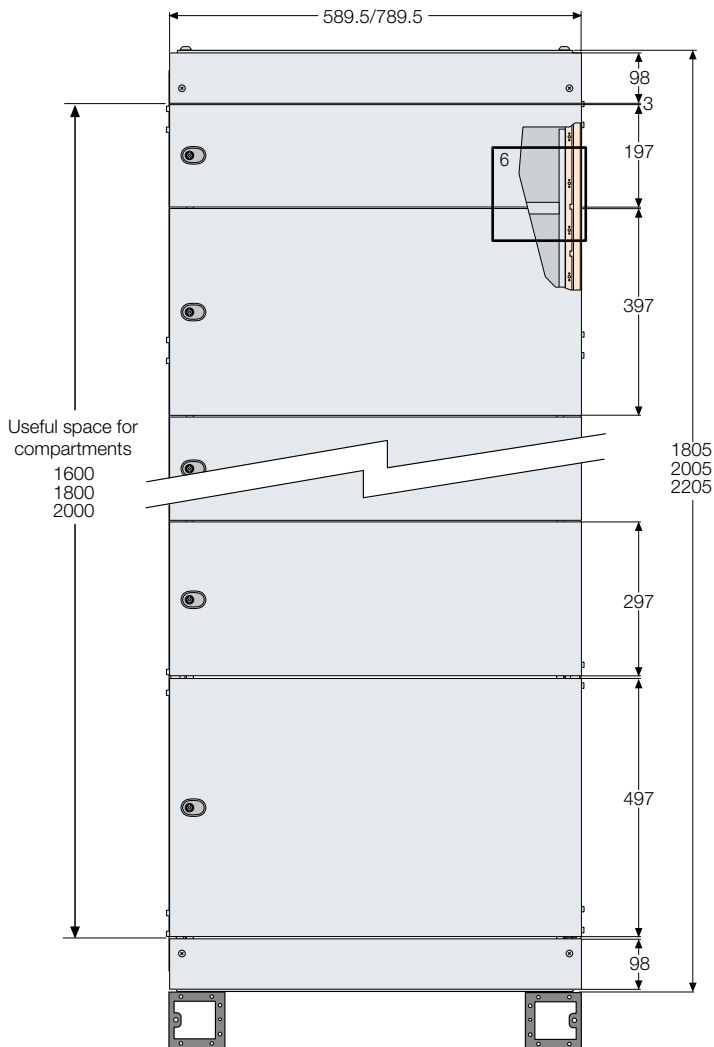
Measurements are in millimetres

Overall dimensions

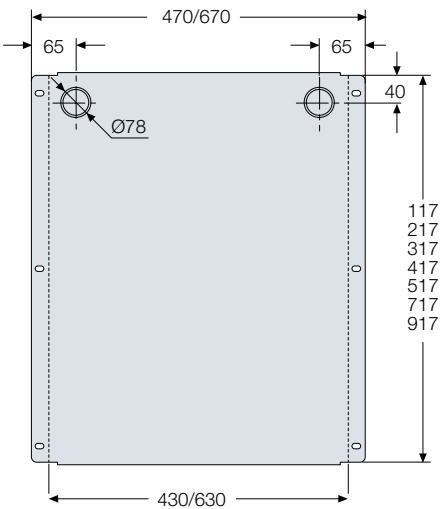
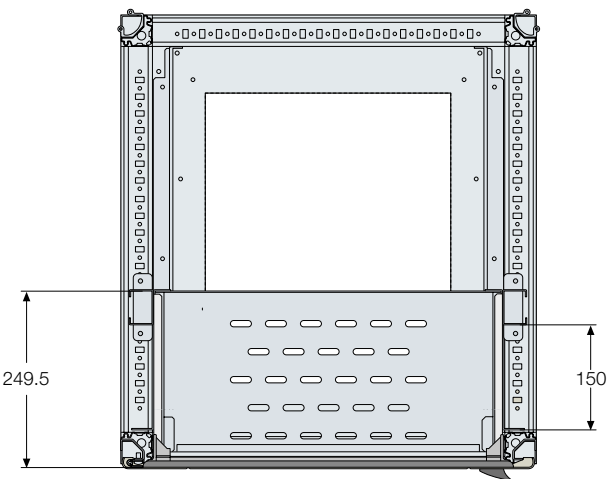
IS2 Enclosures

Compartment Configuration

Front view



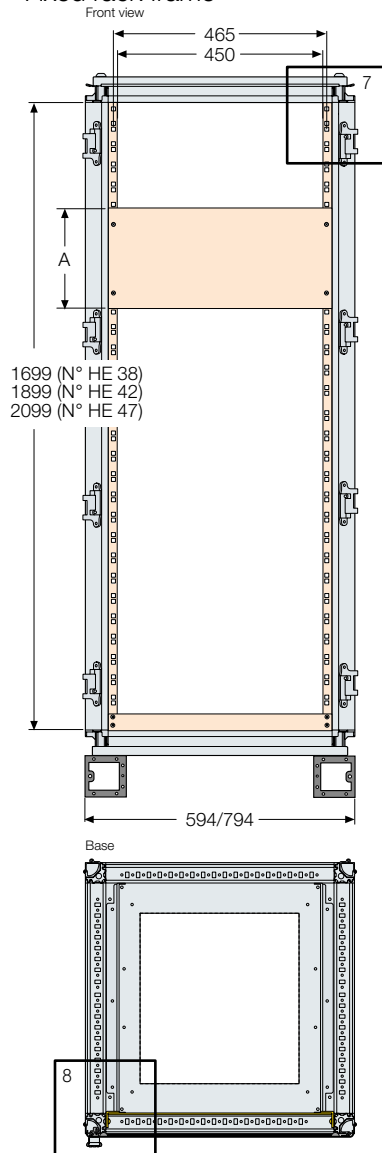
Base



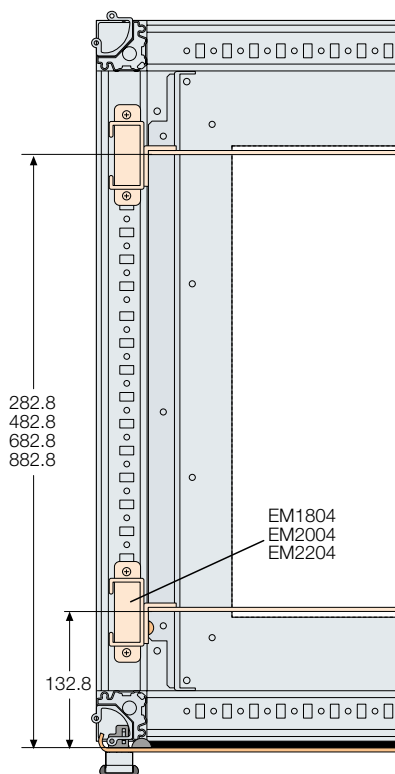
Measurements are in millimetres

19" Rack frames

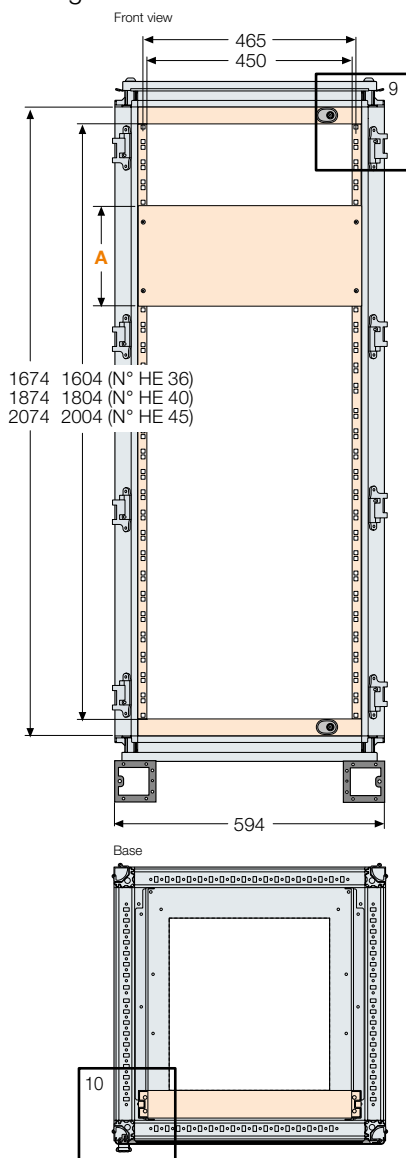
Fixed rack frame



Swing rack frame
fixed rack frame



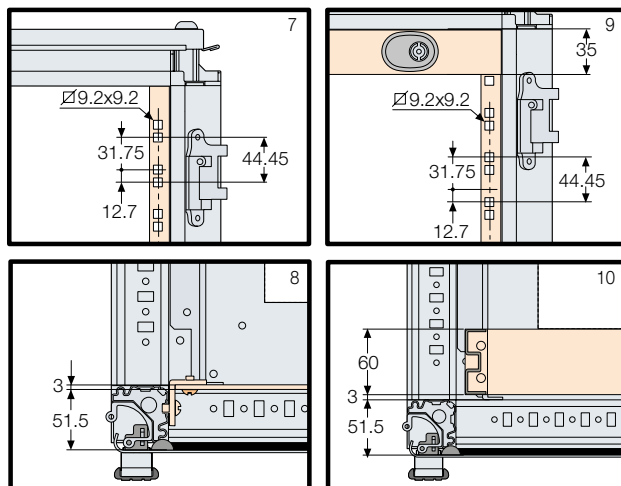
Swing rack frame W=600mm



Panels for 19" rack frames

| Code | A | No. HE |
|--------|-------|--------|
| EG1991 | 44.45 | 1 |
| EG1902 | 89 | 2 |
| EG1903 | 133 | 3 |
| EG1904 | 177.5 | 4 |
| EG1905 | 222 | 5 |
| EG1906 | 266.5 | 6 |
| EG1907 | 311 | 7 |
| EG1908 | 355.5 | 8 |
| EG1909 | 400 | 9 |
| EG1910 | 444.5 | 10 |
| EG1911 | 488 | 11 |
| EG1912 | 533 | 12 |
| EG1913 | 577.5 | 13 |
| EG1914 | 622 | 14 |
| EG1915 | 666 | 15 |
| EG1916 | 711 | 16 |
| EG1917 | 755.5 | 17 |
| EG1918 | 800 | 18 |
| EG1999 | 844.5 | 19 |
| EG1920 | 889 | 20 |

Measurements are in millimetres

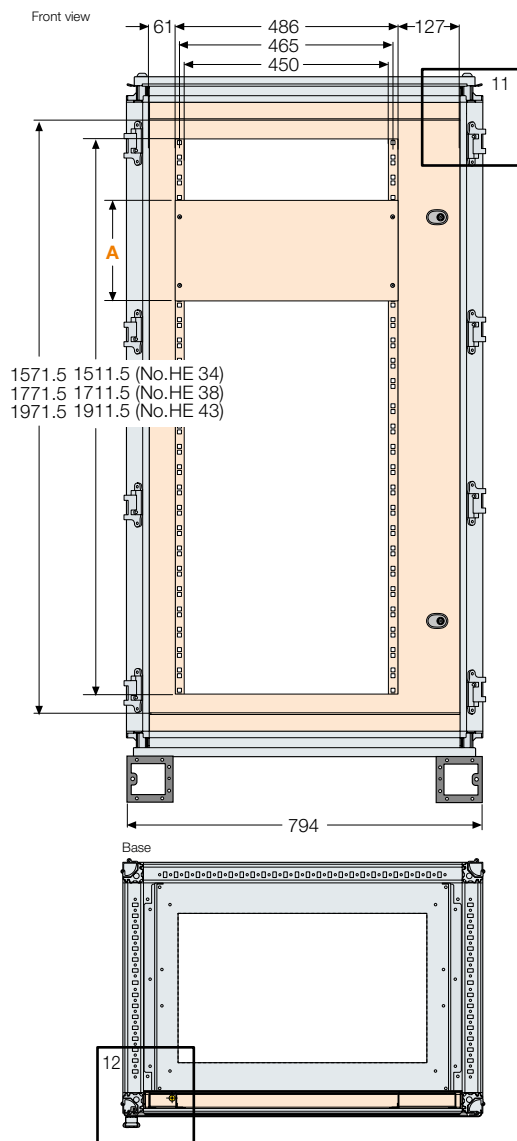


Overall dimensions

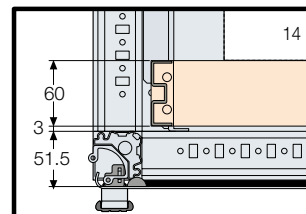
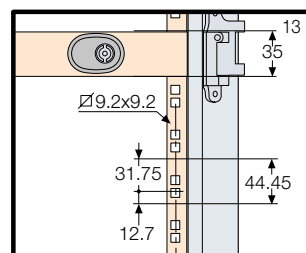
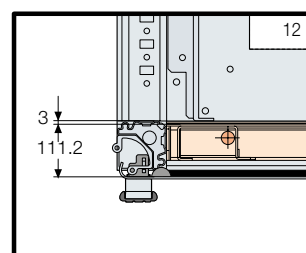
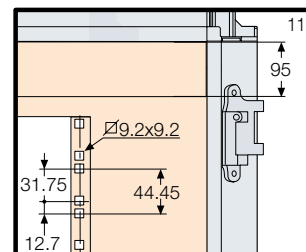
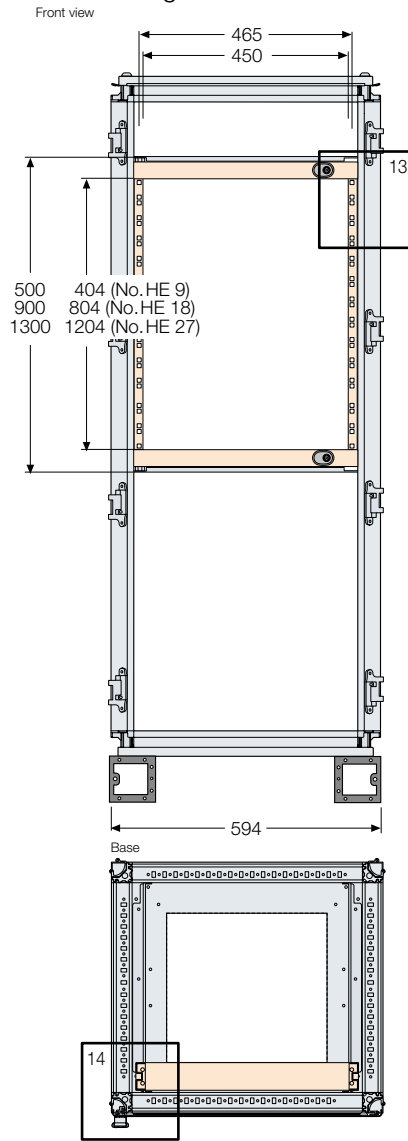
IS2 Enclosures

19" Rack frames

Rack frame in structure W=800mm



Partial swing rack frame



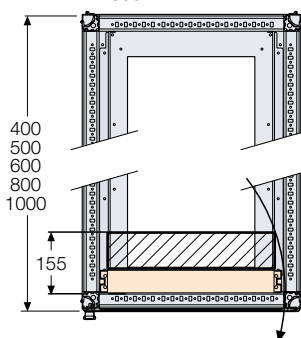
Panels for 19" rack frames

| Code | A | No. HE |
|--------|-------|--------|
| EG1991 | 44.45 | 1 |
| EG1902 | 89 | 2 |
| EG1903 | 133 | 3 |
| EG1904 | 177.5 | 4 |
| EG1905 | 222 | 5 |
| EG1906 | 266.5 | 6 |
| EG1907 | 311 | 7 |
| EG1908 | 355.5 | 8 |
| EG1909 | 400 | 9 |
| EG1910 | 444.5 | 10 |
| EG1911 | 488 | 11 |
| EG1912 | 533 | 12 |
| EG1913 | 577.5 | 13 |
| EG1914 | 622 | 14 |
| EG1915 | 666 | 15 |
| EG1916 | 711 | 16 |
| EG1917 | 755.5 | 17 |
| EG1918 | 800 | 18 |
| EG1999 | 844.5 | 19 |
| EG1920 | 889 | 20 |

Maximum overall apparatus installation dimensions in 19" swing rack frames

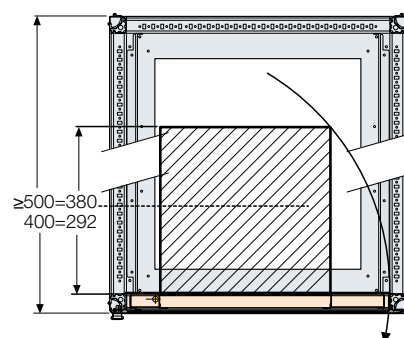
Swing rack frame with 90° opening

Rack frame in structure W=600mm



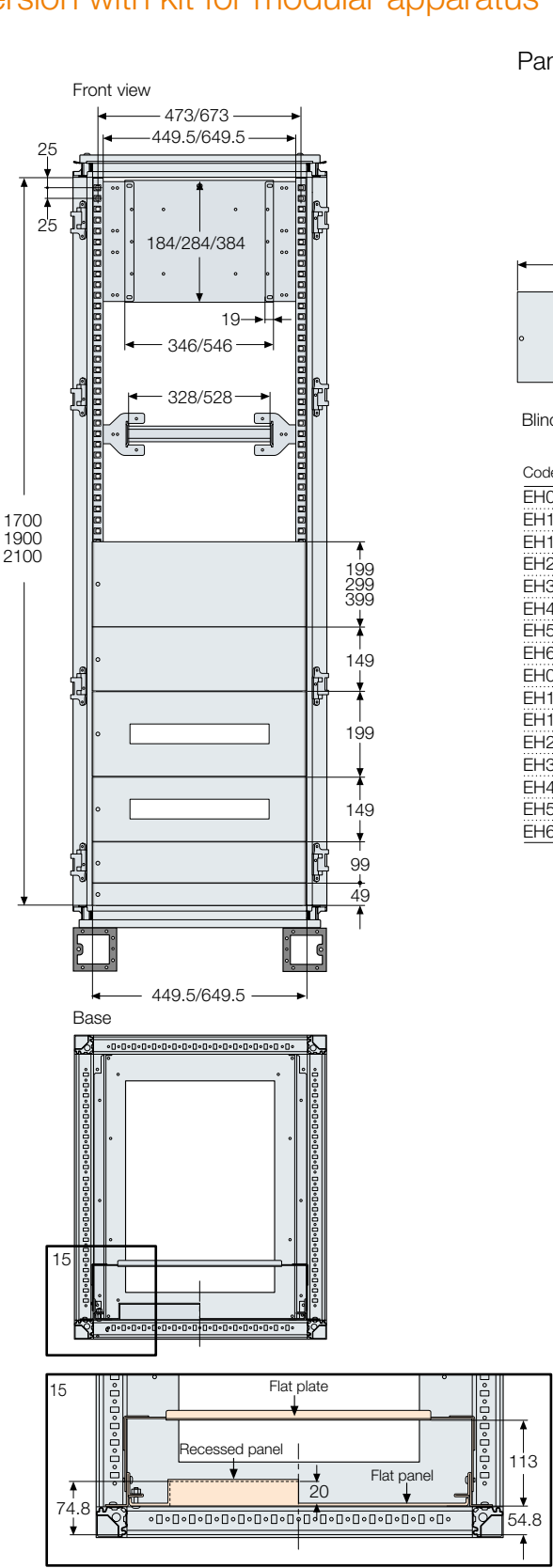
Swing rack frame with 150° opening

TRack frame eccentric in structure W=800mm

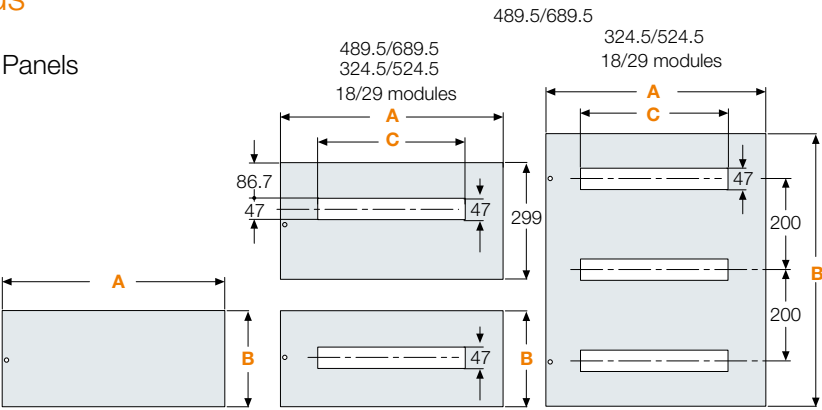


Measurements are in millimetres

Version with kit for modular apparatus



Panels



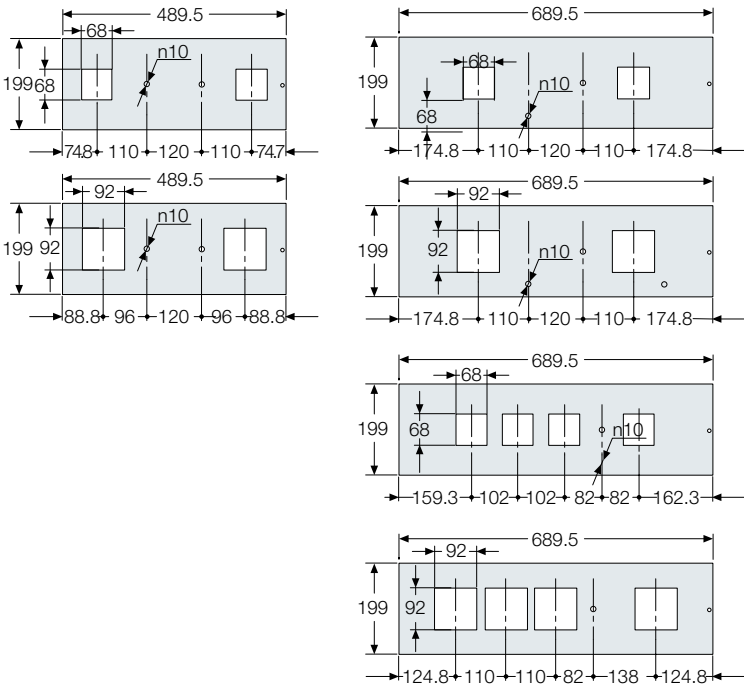
Blind panels

| Code | A | B |
|---------|-------|-----|
| EH0562K | 489.5 | 49 |
| EH1062K | 489.5 | 99 |
| EH1562K | 489.5 | 149 |
| EH2062K | 489.5 | 199 |
| EH3063K | 489.5 | 299 |
| EH4062K | 489.5 | 399 |
| EH5062K | 489.5 | 499 |
| EH6062K | 489.5 | 599 |
| EH0582K | 689.5 | 49 |
| EH1082K | 689.5 | 99 |
| EH1582K | 689.5 | 149 |
| EH2082K | 689.5 | 199 |
| EH3082K | 689.5 | 299 |
| EH4082K | 689.5 | 399 |
| EH5082K | 689.5 | 499 |
| EH6082K | 689.5 | 599 |

Panel for modular instruments

| 1 DIN row | A | B | C | No. mod. |
|------------|-------|-----|-------|----------|
| Code | | | | |
| EH1518K | 489.5 | 149 | 324.5 | 18 |
| EH2018K | 489.5 | 199 | 324.5 | 18 |
| EH3018K | 489.5 | 299 | 324.5 | 18 |
| EH1529K | 689.5 | 149 | 524.5 | 29 |
| EH2029K | 689.5 | 199 | 524.5 | 29 |
| EH3029K | 689.5 | 299 | 524.5 | 29 |
| EH1524K | 489.5 | 149 | 432 | 24 |
| EH2024K | 489.5 | 199 | 432 | 24 |
| EH1536K | 689.5 | 149 | 634 | 36 |
| EH2036K | 689.5 | 199 | 634 | 36 |
| 3 DIN rows | | | | |
| EH6018K | 489.5 | 599 | 324.5 | 18 |
| EH6029K | 689.5 | 599 | 524.5 | 29 |
| EH6025K | 489.5 | 599 | 432 | 24 |
| EH6036K | 689.5 | 599 | 634 | 36 |

Instruments panels

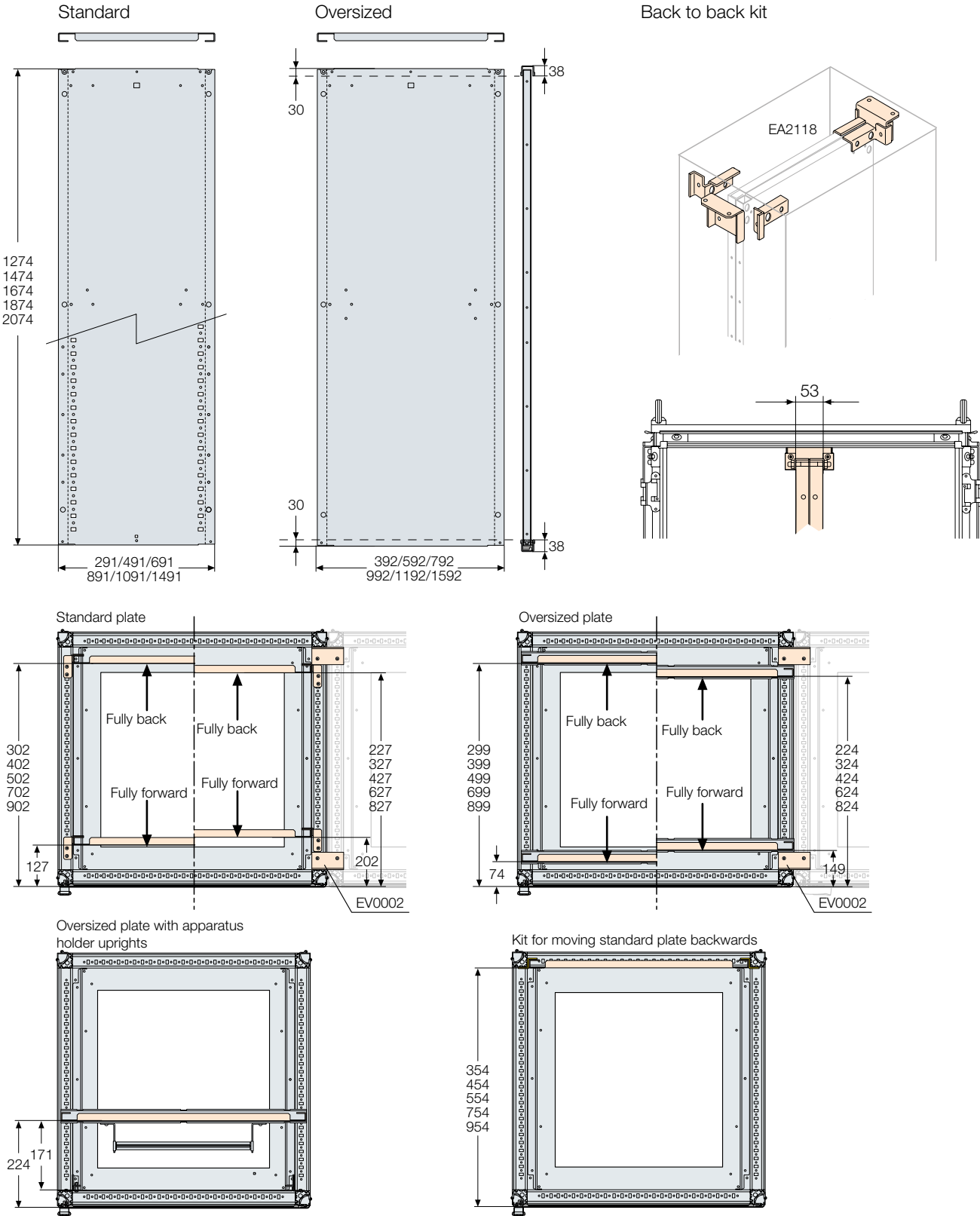


Measurements are in millimetres

Overall dimensions

IS2 Enclosures

Back plates

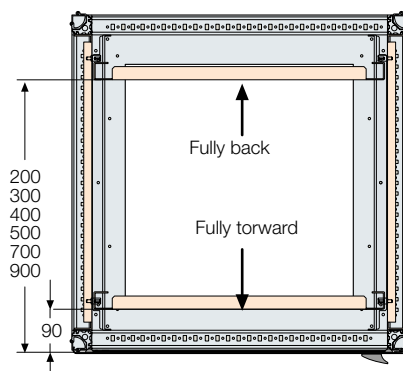
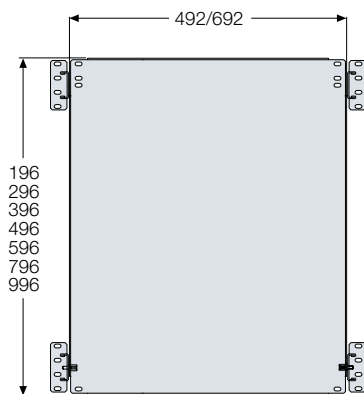


Measurements are in millimetres

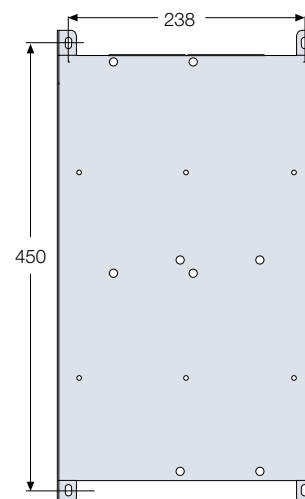
Back plates

Partial back plates

Do not require the depthwise upright

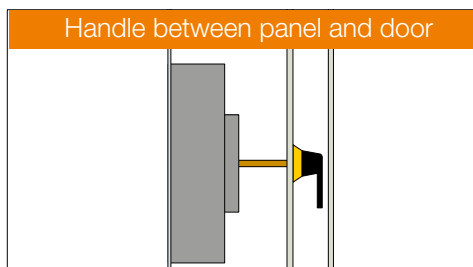


Back plates for condensers

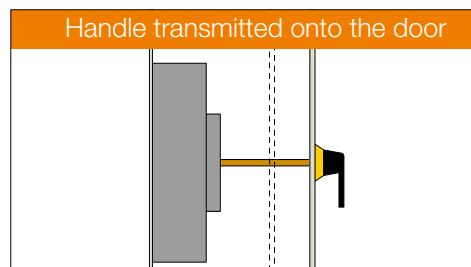


Selection of partial back plate and panels according to the apparatus to be installed

Handle between panel and door



Handle transmitted onto the door



Switch-disconnectors

| | Structures W=600mm | | | Structures W=800mm | | |
|-----------|--------------------|---------|--------|--------------------|---------|--------|
| | Partial back plate | Panel | H (mm) | Partial back plate | Panel | H (mm) |
| OT200/250 | EA2062 | EH2062K | 200 | EA2081 | EH2082K | 200 |
| OT315/400 | EA3061 | EH3063K | 300 | EA3081 | EH3082K | 300 |
| OT630/800 | EA4061 | EH4062K | 400 | EA4081 | EH4082K | 400 |

| | Structures W=600mm | | | Structures W=800mm | | |
|-----------------------|--------------------|---------|--------|-----------------------|---------|--------|
| | Partial back plate | Panel | H (mm) | Partial back plate | Panel | H (mm) |
| EH2065 ⁽²⁾ | EH2062K | EH2062K | 200 | EH2085 ⁽²⁾ | EH2082K | 200 |
| EA3061 | EH3063K | EH3063K | 300 | EA3081 | EH3082K | 300 |
| EA4061 | EH4062K | EH4062K | 400 | EA4081 | EH4082K | 400 |

Circuit-breakers

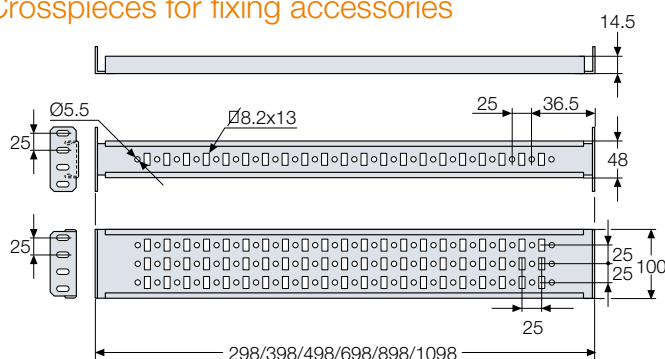
| | | | | | | |
|----------------------|--------|------------------------|-----|-----------------------|---------|-----|
| Tmax T1-T2 -T 3 | EA2062 | EH2063K ⁽¹⁾ | 200 | EA2083 ⁽¹⁾ | EH2083K | 200 |
| Tmax XT1-XT2-XT3-XT4 | EA2062 | EH2062K | 200 | EA2081 | EH2082K | 200 |
| Tmax T4-T5 | EA4061 | EH4062K | 400 | EA4081 | EH4082K | 200 |
| Tmax T 6 | EA5061 | EH5062K | 500 | EA5081 | EH5082K | 500 |

| | | | | | | |
|-----------------------|---------|---------|-----|-----------------------|---------|-----|
| EH2065 ⁽²⁾ | EH2062K | EH2062K | 200 | EH2085 ⁽²⁾ | EH2082K | 200 |
| EA4061 | EH4062K | EH4062K | 400 | EA4081 | EH4082K | 200 |
| EA5061 | EH5062K | EH5062K | 500 | EA5081 | EH5082K | 500 |

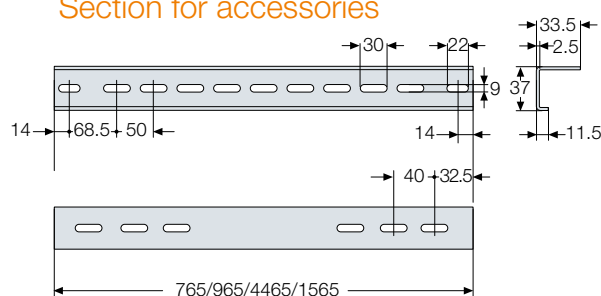
⁽¹⁾ Blind recessed panel

⁽²⁾ Blind apparatus-holder back plate

Crosspieces for fixing accessories



Section for accessories

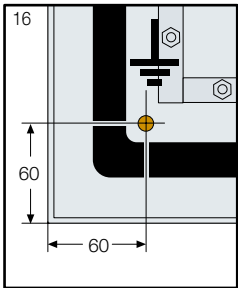
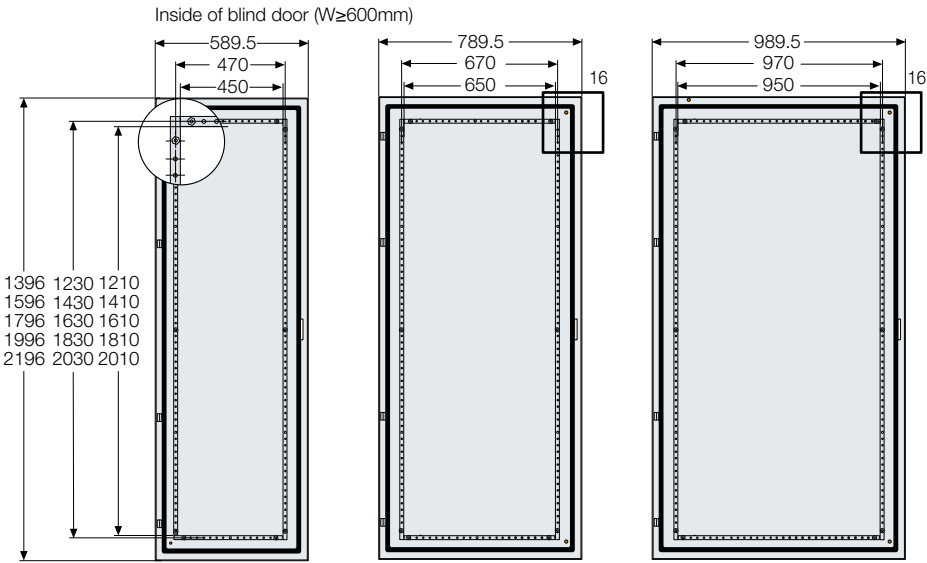
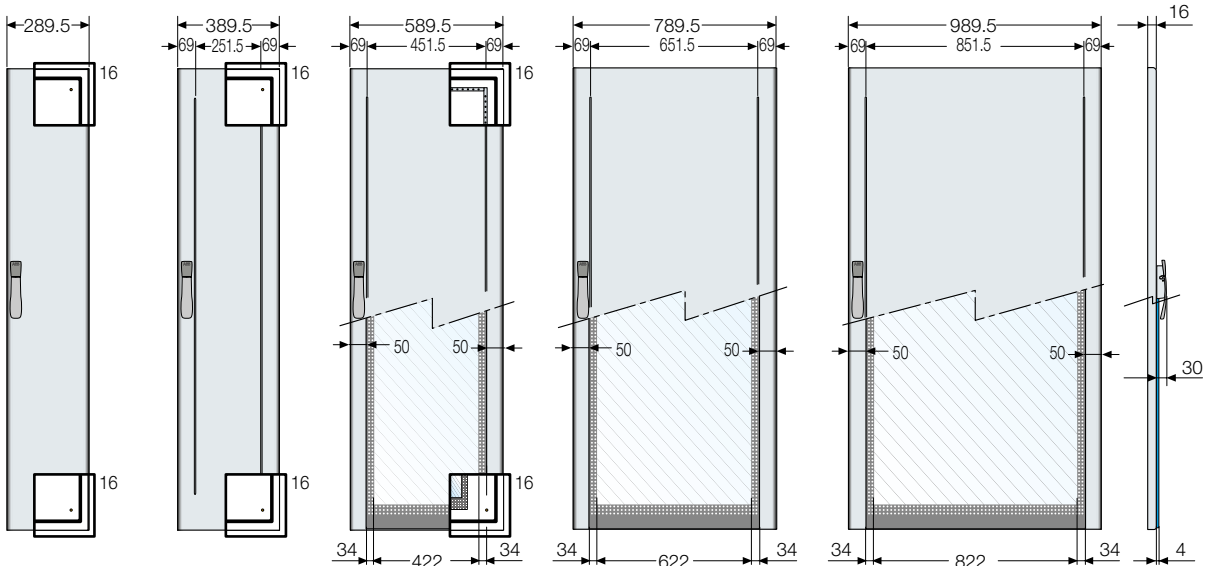


Measurements are in millimetres

Overall dimensions

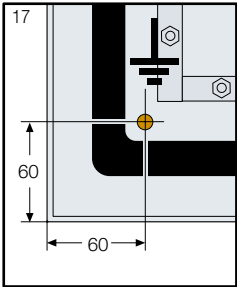
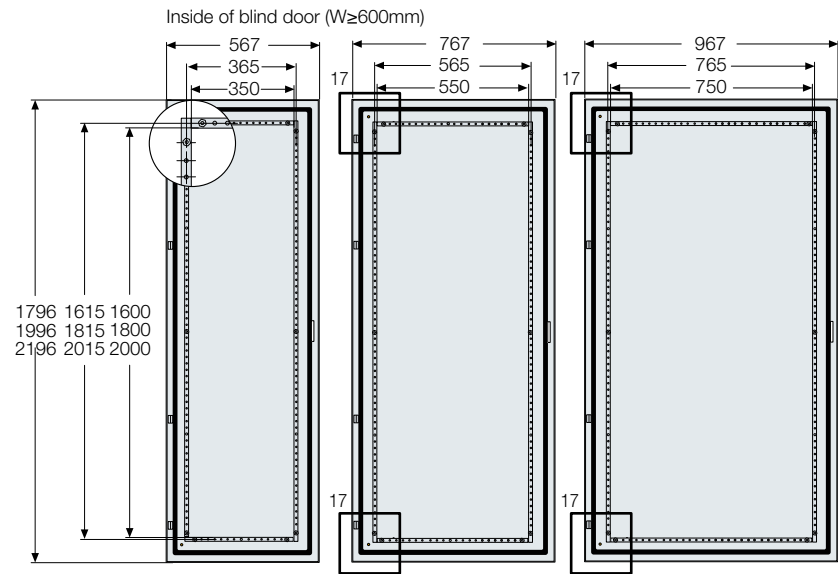
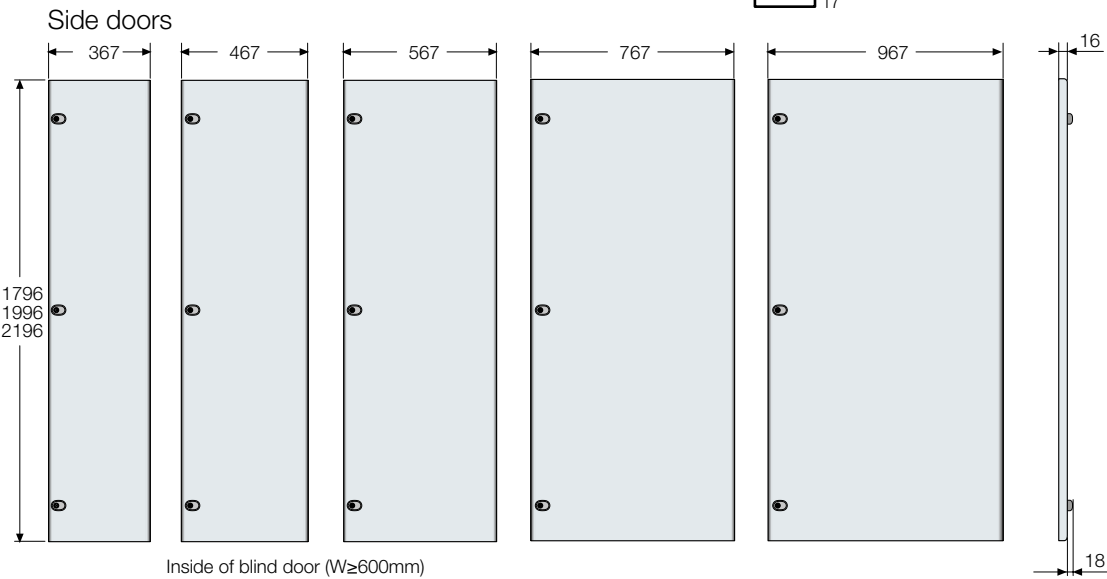
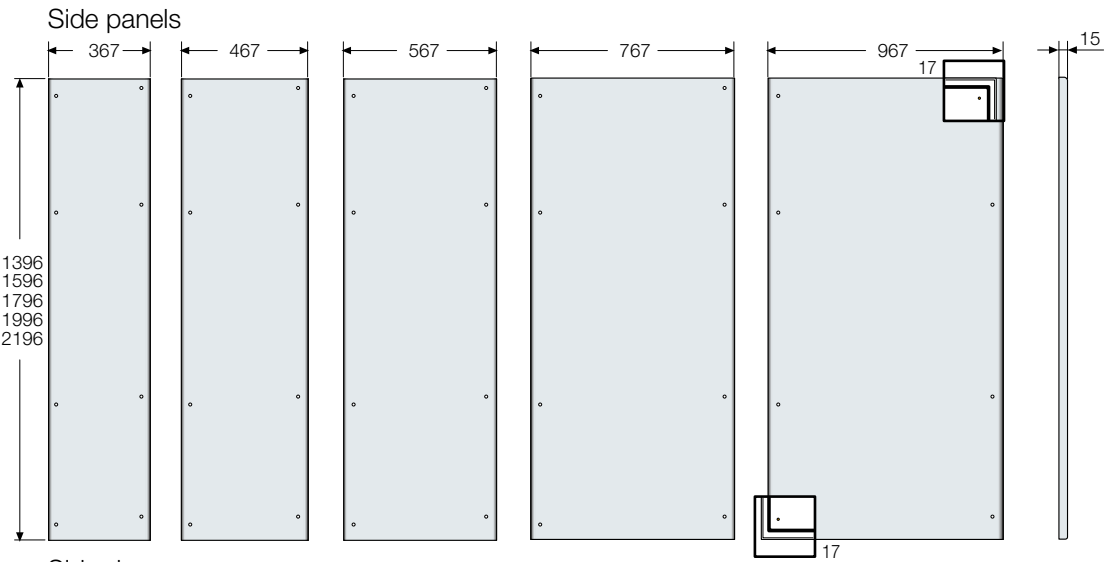
IS2 Enclosures

Front or rear doors



Measurements are in millimetres

Side covers

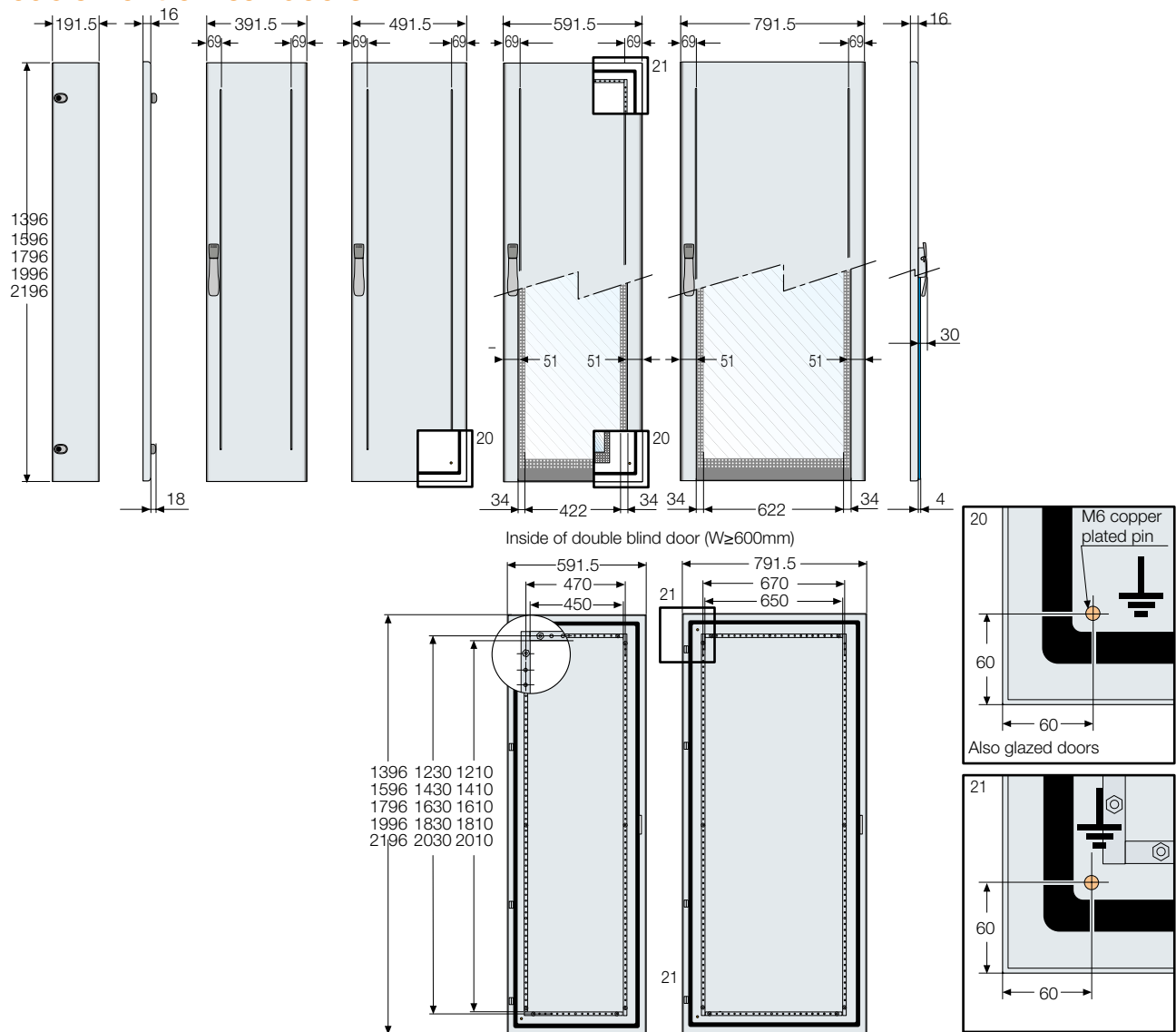


Measurements are in millimetres

Overall dimensions

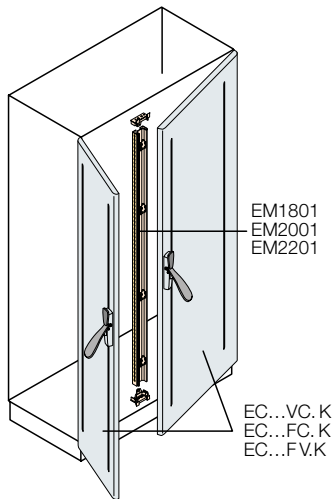
IS2 Enclosures

Double front or rear doors

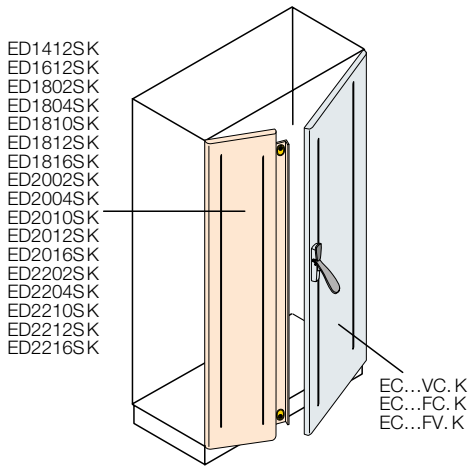


Example of use of double doors

Mounting with intermediate upright and crosspieces in depth

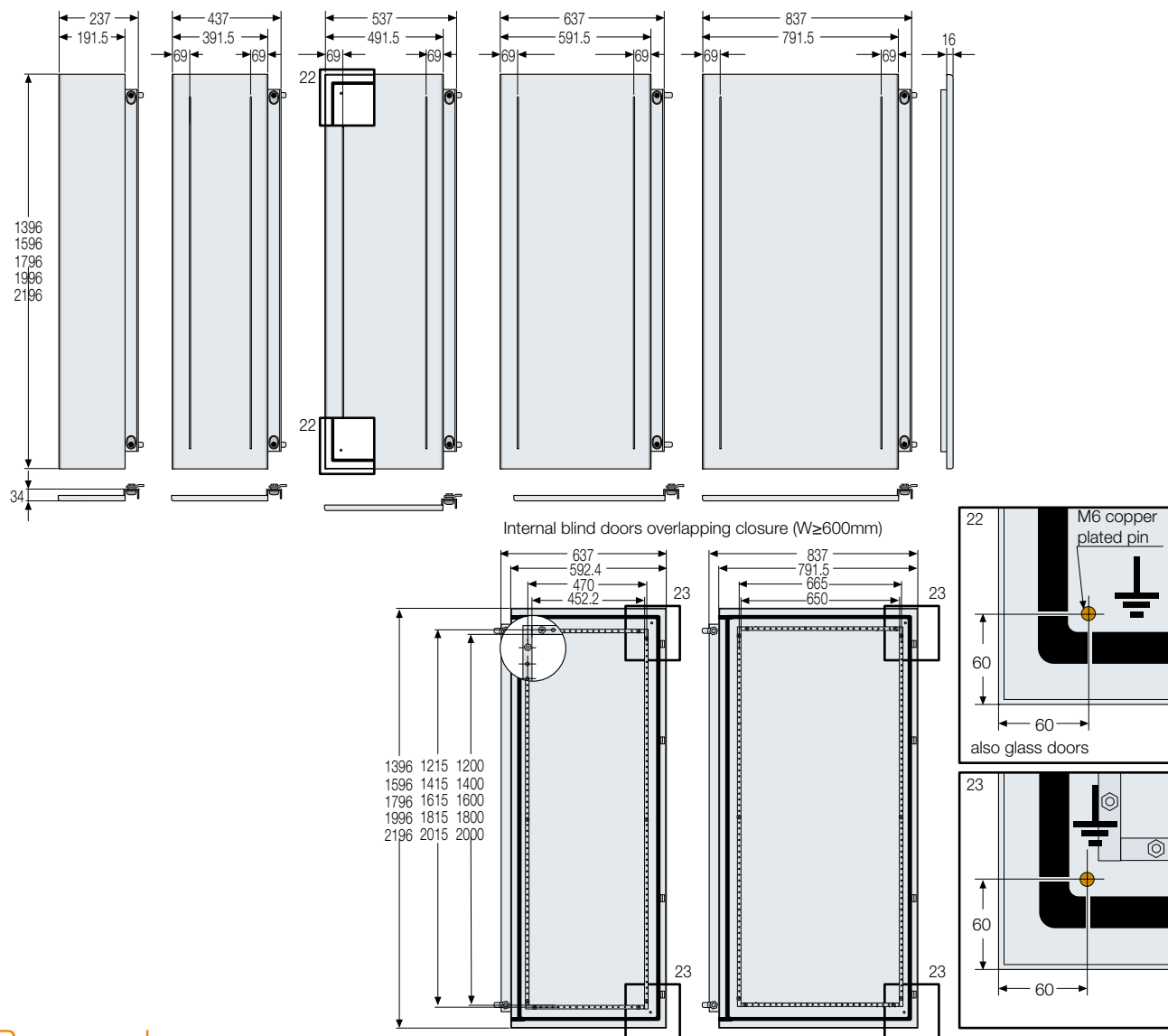


Mounting with blind doors with overlapping cosure (without intermediate upright and crosspieces in depth)

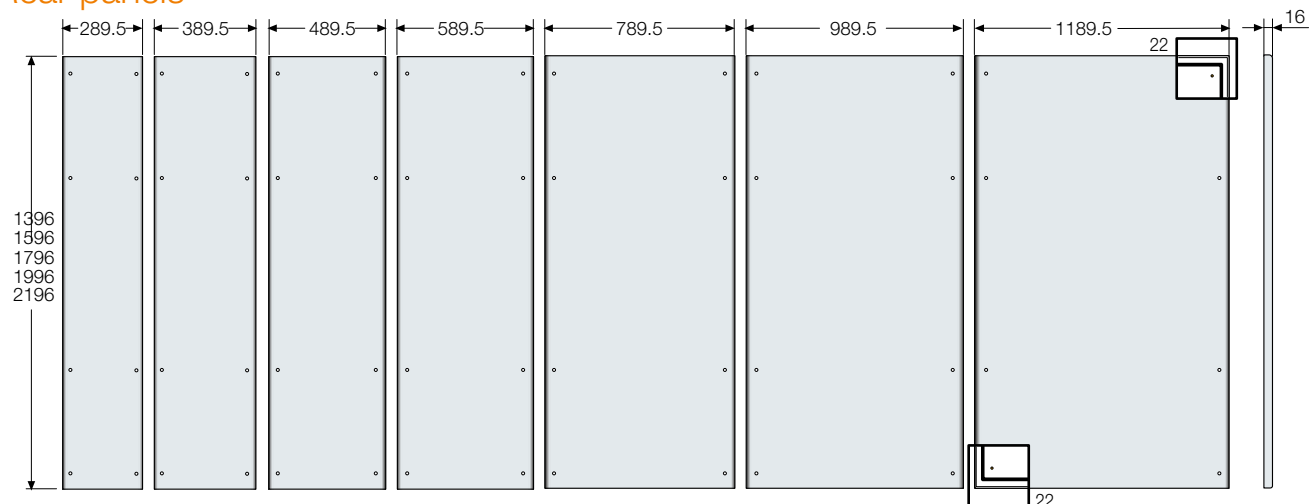


Measurements are in millimetres

Blind doors with overlapping closure



Rear panels

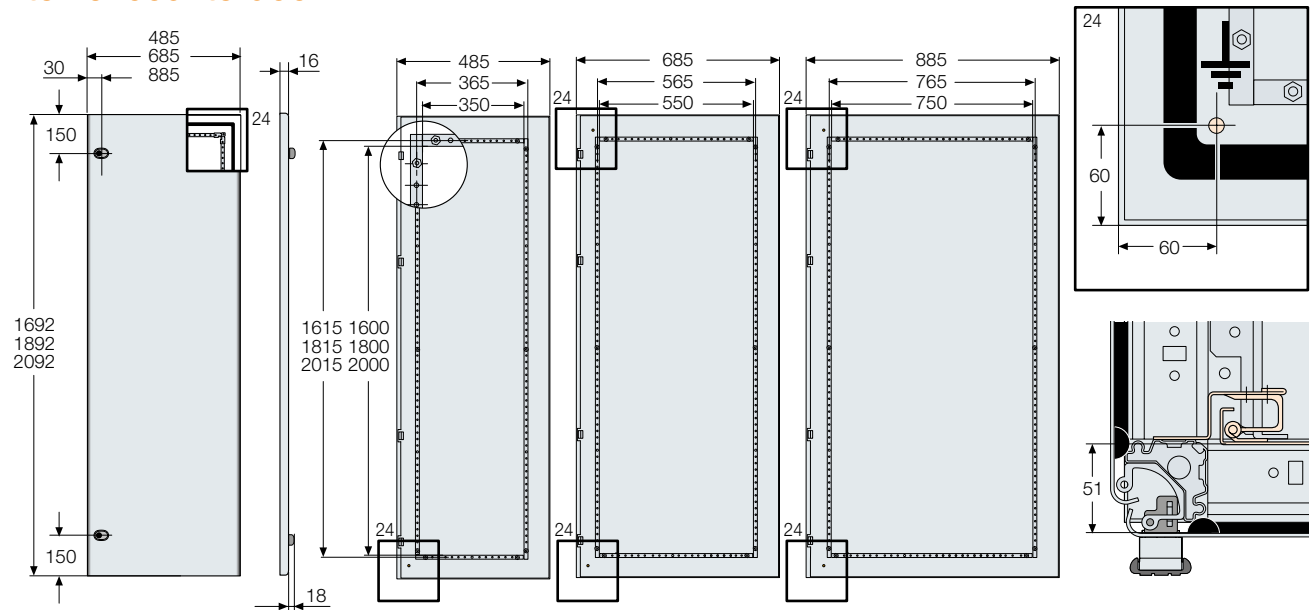


Measurements are in millimetres

Overall dimensions

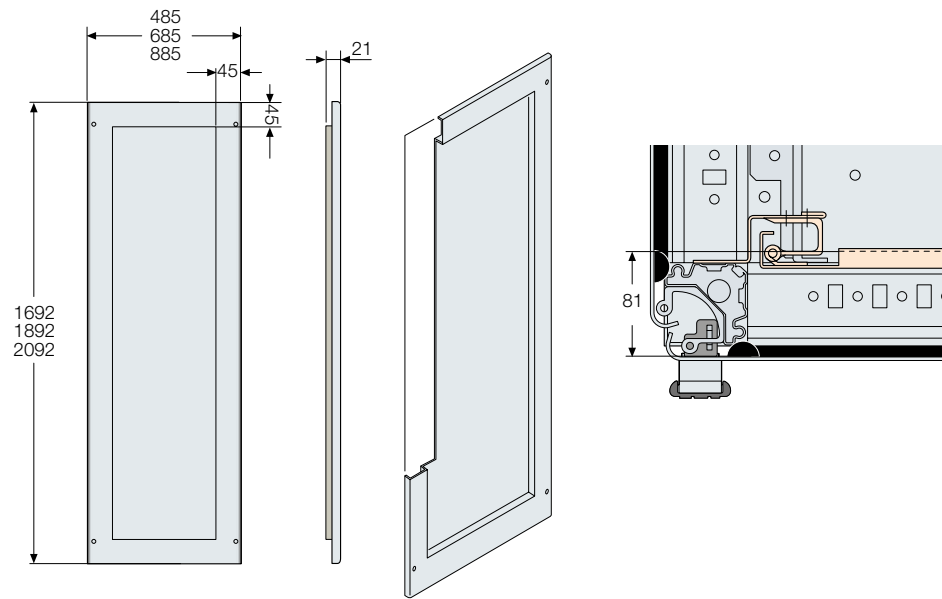
IS2 Enclosures

Internal counterdoor



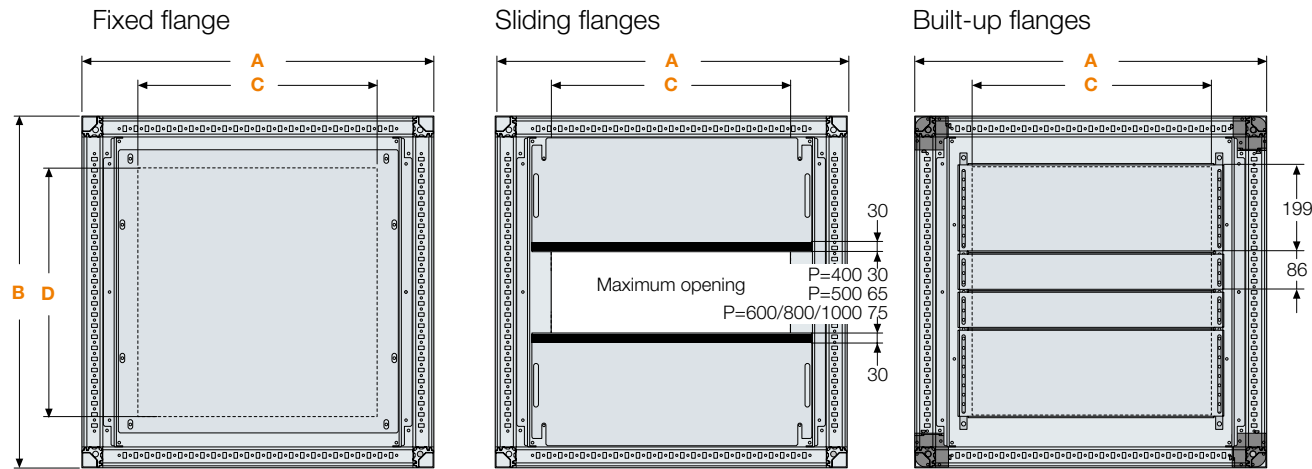
Internal edged counterdoor

8



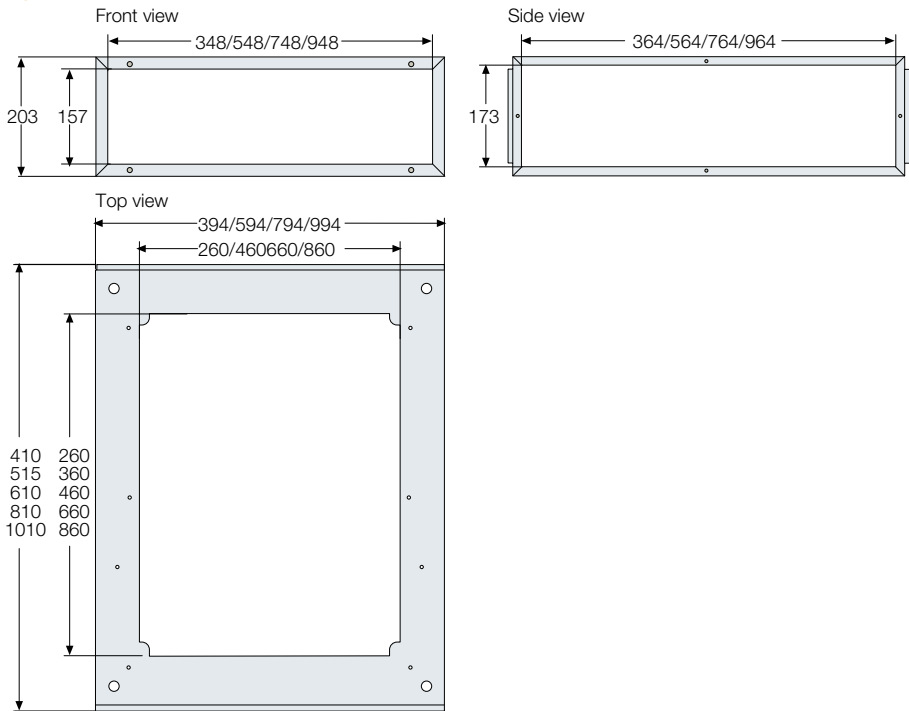
Measurements are in millimetres

Flanges for cable passage



| | | | | Built-up flanges | | | | | | Built-up flanges | |
|-----|-----|-----|-----|------------------------|-----------------------|------|-----|------|-----|------------------------|-----------------------|
| A | B | C | D | No. flanges H=199mm | No. flanges H=86mm | A | B | C | D | No. flanges H=199mm | No. flanges H=86mm |
| 394 | 394 | 142 | 162 | - | 2 | 994 | 394 | 742 | 162 | - | 2 |
| | 494 | | 262 | 1 | 1 | | 494 | | 262 | 1 | 1 |
| | 594 | | 362 | 1 | 2 | | 594 | | 362 | 1 | 2 |
| | 794 | | 562 | 2 | 2 | | 794 | | 562 | 2 | 2 |
| | 994 | | 762 | 3 | 2 | | 994 | | 762 | 3 | 2 |
| 594 | 394 | 342 | 162 | - | 2 | 1194 | 394 | 942 | 162 | - | 2 |
| | 494 | | 262 | 1 | 1 | | 494 | | 262 | 1 | 1 |
| | 594 | | 362 | 1 | 2 | | 594 | | 362 | 1 | 2 |
| | 794 | | 562 | 2 | 2 | | 794 | | 562 | 2 | 2 |
| | 994 | | 762 | 3 | 2 | | 994 | | 762 | 3 | 2 |
| 794 | 394 | 542 | 162 | - | 2 | 1594 | 394 | 1342 | 162 | - | 2 |
| | 494 | | 262 | 1 | 1 | | 494 | | 262 | 1 | 1 |
| | 594 | | 362 | 1 | 2 | | 594 | | 362 | 1 | 2 |
| | 794 | | 562 | 2 | 2 | | 794 | | 562 | 2 | 2 |
| | 994 | | 762 | 3 | 2 | | 994 | | 762 | 3 | 2 |

Top container for cable connection



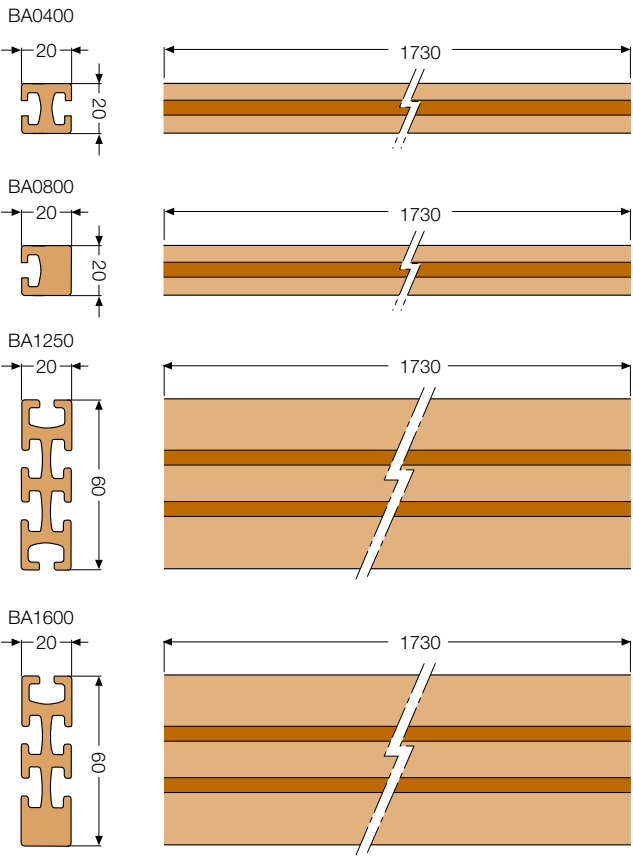
Measurements are in millimetres

Overall dimensions

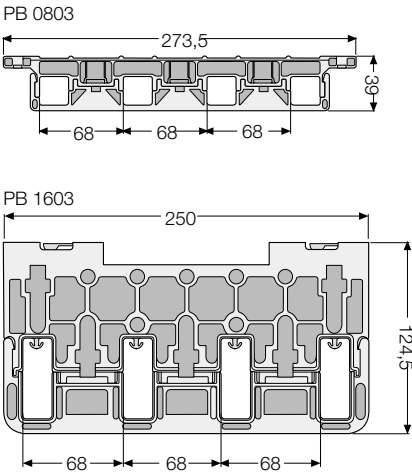
IS2 Enclosures

Busbars with shaped section

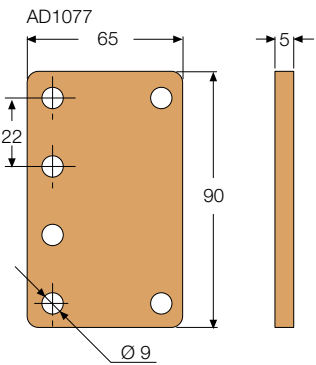
Busbar



Insulator



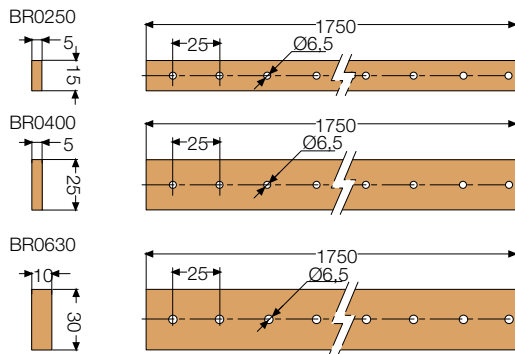
Accessories



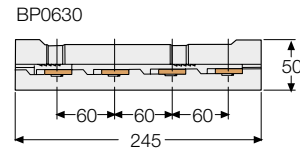
Measurements are in millimetres

Flat busbars

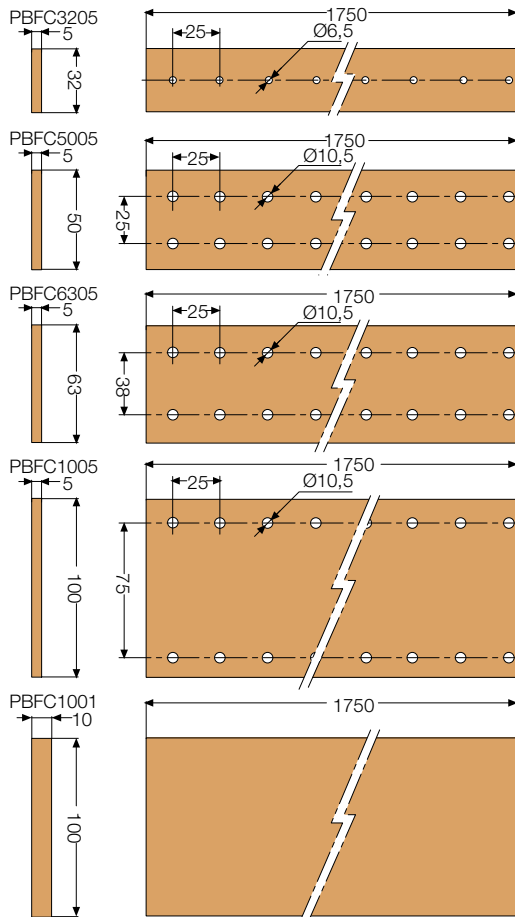
Busbar up to 630A



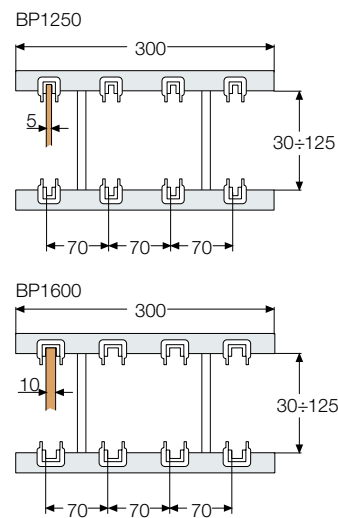
Insulators for busbars up to 630A



Busbar up to 1600A



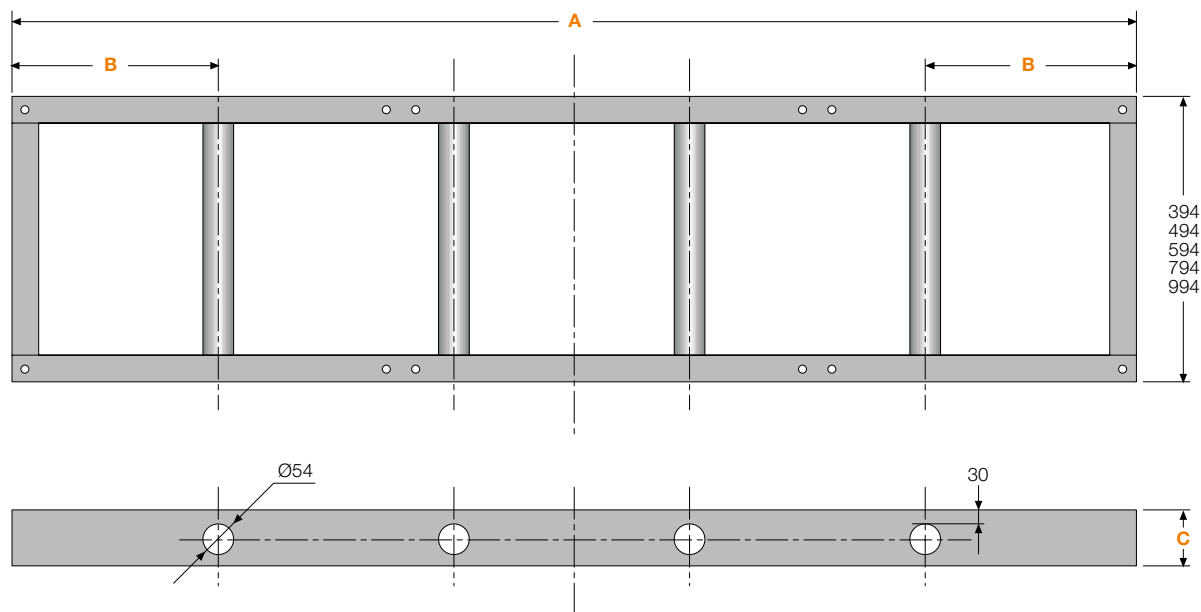
Insulators for busbars up to 1600A



Overall dimensions

IS2 Enclosures

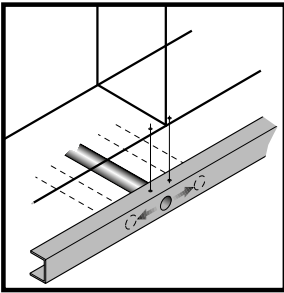
Single plinth



8

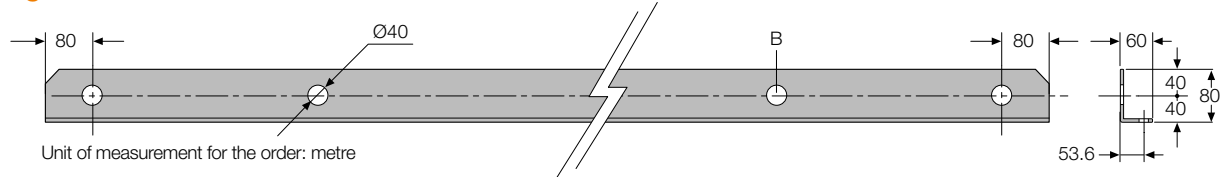
| Reinforcement tube [No.] | A [metres] | B [mm] | C [mm] |
|-----------------------------|----------------------|------------------|------------------|
| 2 | 1.78 ÷ 2.78 | 665 | 100/200 |
| 2 | 2.78,1 ÷ 3.78 | 865 | 100/200 |
| 3 | 3.78,1 ÷ 4.78 | 950 | 100/200 |
| 4 | 4.78,1 ÷ 5.78 | 1195 | 100/200 |

Unit of measurement for the order: metre



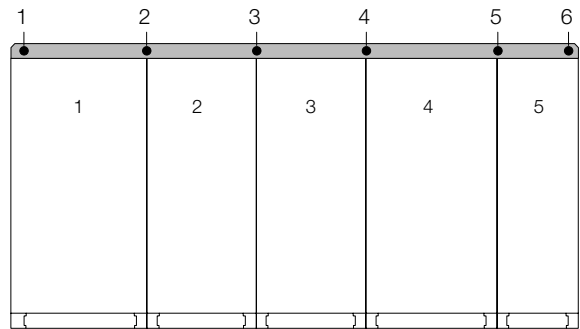
Should the reinforcement tube be in correspondence with switchgear fixing to the plinth, it will be moved at the execution stage.

Lifting beams



The holes for lifting are positioned in correspondence with the side-by-side position of the switchgear.
The amount of B holes in the beam is equal to the number of structures + 1.

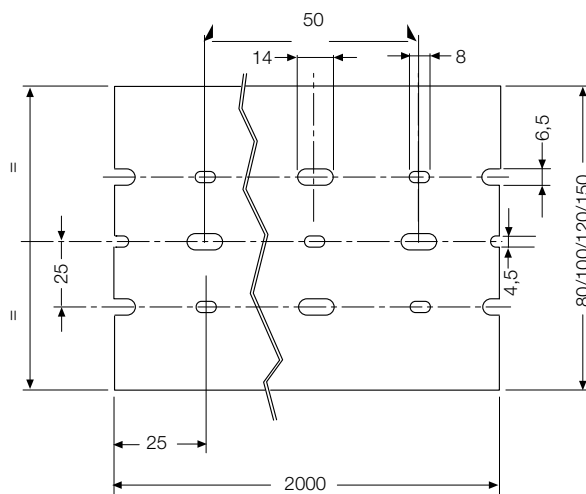
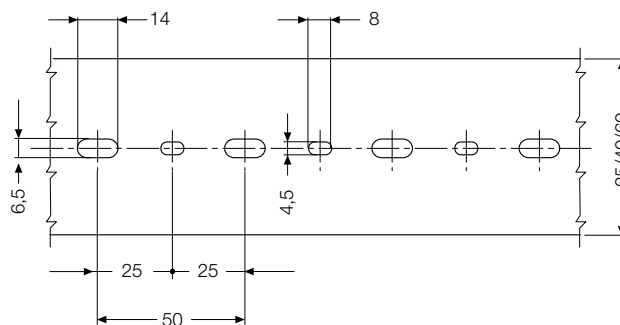
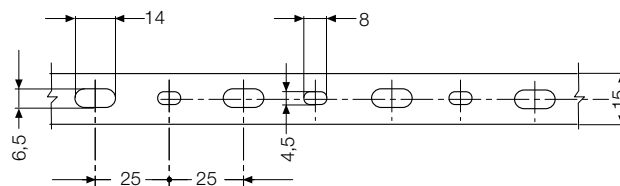
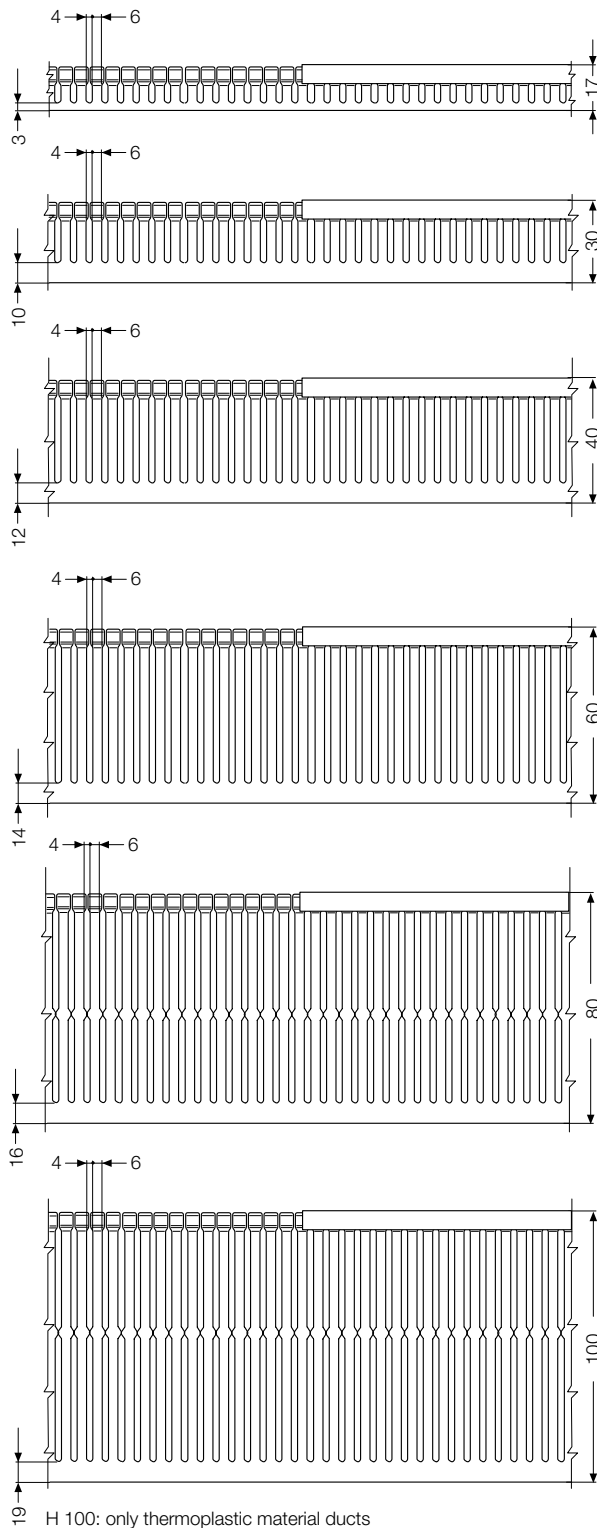
Example: No. 5 structures side by side = No. 6 holes for lifting.



Measurements are in millimetres

Thermoplastic and halogen free wiring ducts with 4/6 mm slots

CEI 23-22 Standard applies to plastic wiring ducts and their accessories to be used in the mechanical protection and support of cables in switchboards, in applications with a maximum rated voltage of 1000 V in alternating current and 1500 V in direct current. Thermoplastic wiring ducts have obtained the IMQ certification.

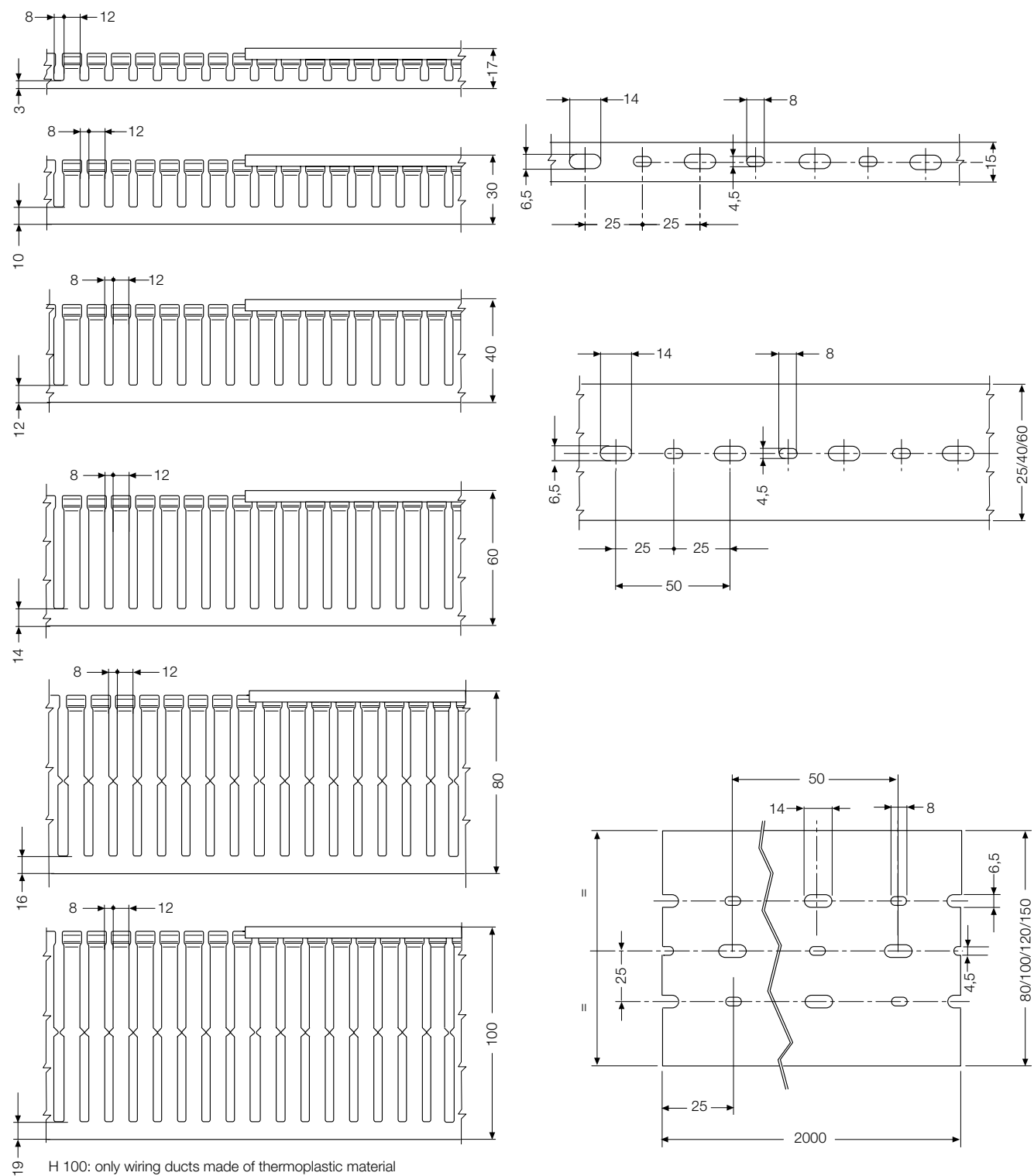


Overall dimensions

Wiring ducts

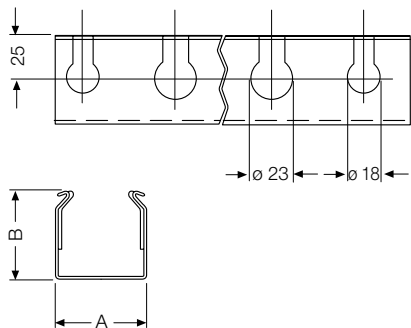
Thermoplastic and halogen free wiring duct with 8/12 mm slot

CEI 23-22 Standard applies to plastic wiring ducts and their accessories to be used in the mechanical protection and support of cables in switchboards, in applications with a maximum rated voltage of 1000 V in alternating current and 1500 V in direct current. Thermoplastic wiring ducts have obtained the IMQ certification.



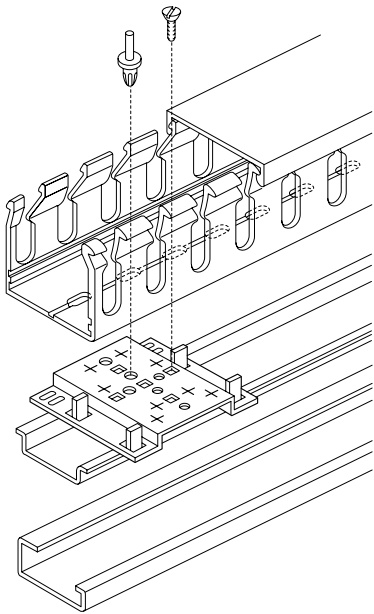
Measurements are in millimetres

Ducts with round holes



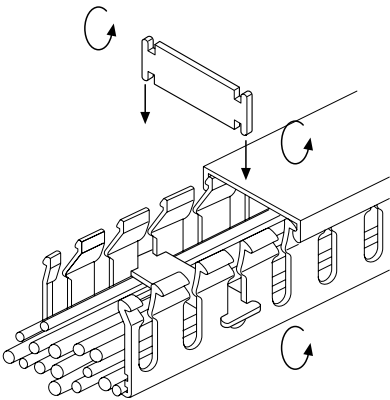
| Code | A | B |
|--------|-----|----|
| 05 330 | 50 | 50 |
| 05 331 | 100 | 60 |

Plastic rivets and wiring duct bases



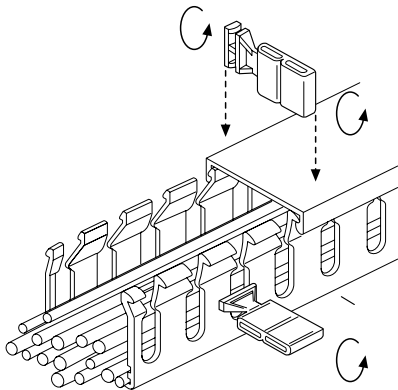
| Code |
|--------------------------|
| 05 214 - 05 216 - 05 210 |

Plastic cable retainers



| Code |
|-----------------------------------|
| 05 224 - 05 226 - 05 228 - 05 230 |

Plastic label tag



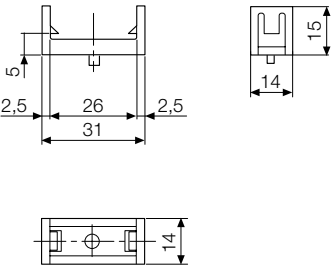
| Code |
|--------|
| 05 240 |

Measurements are in millimetres

Overall dimensions

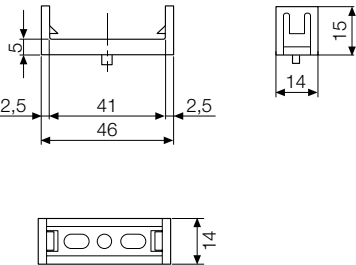
Wiring ducts

Clip for wiring ducts
base 25



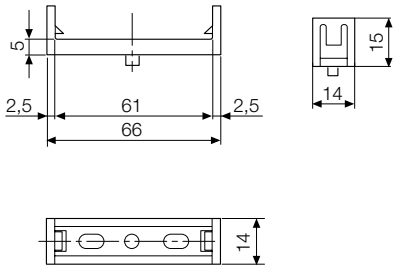
Code
05 250

Clip for wiring ducts
base 40



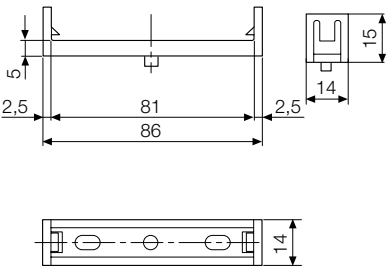
Code
05 252

Clip for wiring ducts
base 60



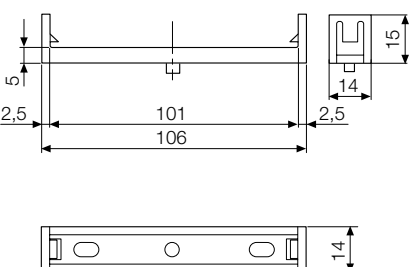
Code
05 254

Clip for wiring ducts
base 80



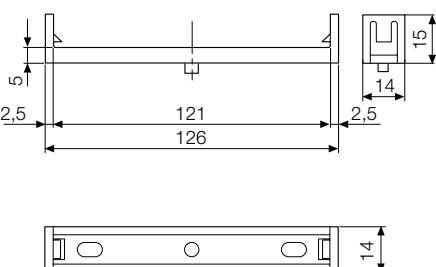
Code
05 256

Clip for wiring ducts
base 100



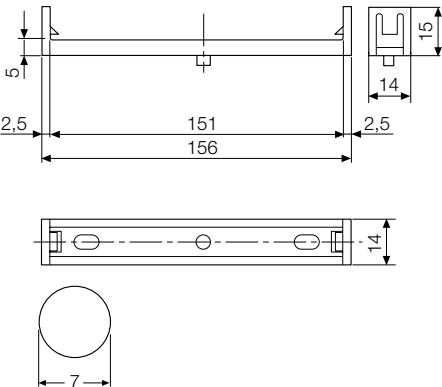
Code
05 258

Clip for wiring ducts
base 120



Code
05 260

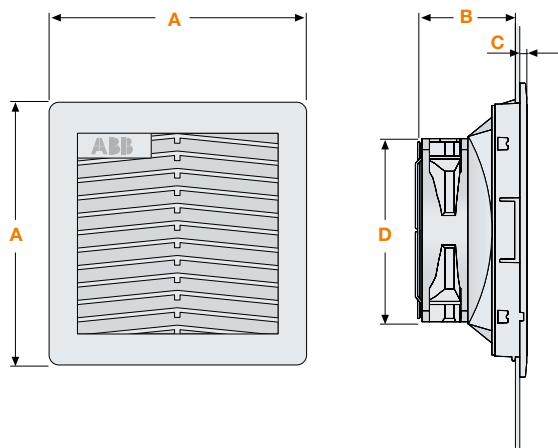
Clip for wiring ducts
base 150



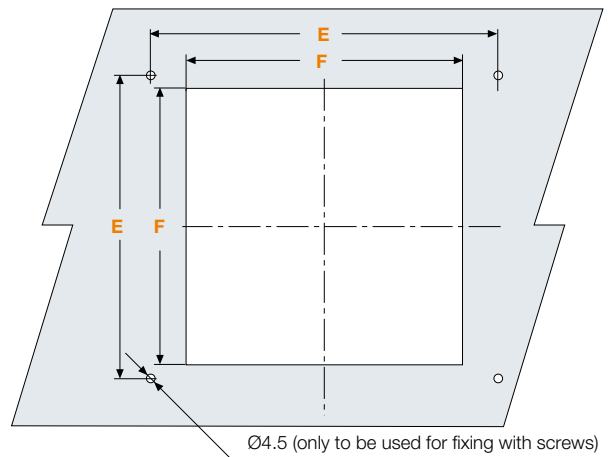
Code
05 262

Measurements are in millimetres

Gratings

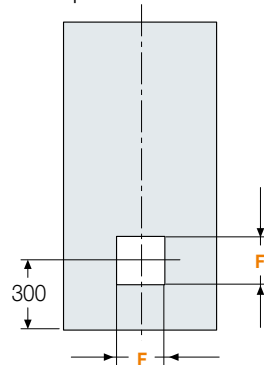


Drilling template



Standard position of drillings

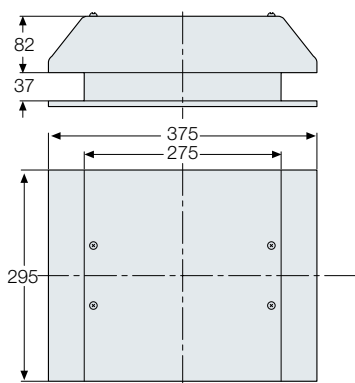
Side panel/Door



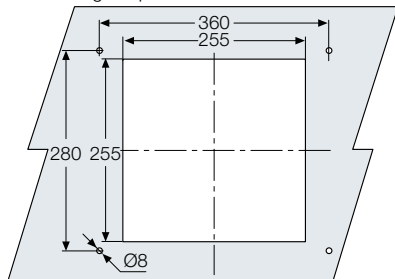
| Code | A | B | C | D | E | F |
|---------|-----|-----|---|-----|-----|-----|
| EN0105K | | | | | | |
| EN1105K | 105 | 60 | 7 | 80 | 95 | 92 |
| EN2105K | | | | | | |
| EN0150K | | | | | | |
| EN1150K | 150 | 64 | 7 | 124 | 131 | 125 |
| EN2150K | | | | | | |
| EN0204K | | | | | | |
| EN1204K | 204 | 90 | 8 | 127 | 185 | 177 |
| EN2204K | | | | | | |
| EN0250K | | | | | | |
| EN1250K | 250 | 113 | 8 | 172 | 230 | 223 |
| EN2250K | | | | | | |
| EN0325K | 325 | 24 | 9 | 255 | 302 | 291 |
| EN2325K | | | | | | |
| EN3325K | 325 | 152 | 9 | 218 | 302 | 291 |

Hood

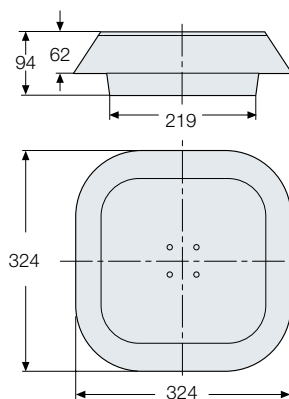
EN0480K-EN0481K-EN0482K



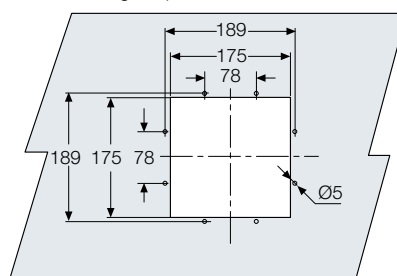
Drilling template



EN0483K-EN0484K-EN0485K



Drilling template



Measurements are in millimetres

Ventilation roof module



Technical drawing of a square plate with the following dimensions and specifications:

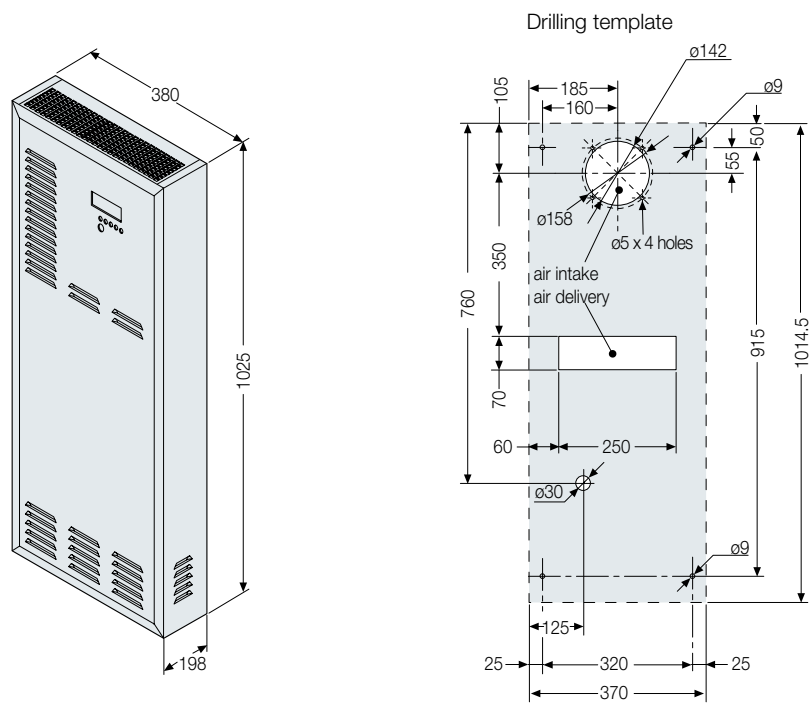
- Overall width: 456
- Overall height: 361
- Inner square dimensions: 200 x 200
- Distance from inner square corners to outer square corners: 34.5
- Distance from inner square corners to outer square corners (vertical): 187
- Distance from inner square corners to outer square corners (horizontal): 187
- 8xØ5.5 holes (8 holes, each with a diameter of 5.5 mm)

| Roof WxDmm | Fix rack frame | Swing rack frame | A | B | C |
|---------------|-------------------|---------------------|-----|-------|-------|
| 600X600 | ■ | - | 38 | 85.5 | 85.5 |
| 600X800 | ■ | - | 38 | 185.5 | 185.5 |
| 600X1000 | ■ | - | 38 | 285.5 | 285.5 |
| 800X600 | ■ | ■ | 138 | 32 | 139 |
| 800X600 | ■ | - | 138 | 85.5 | 85.5 |
| 800X800 | ■ | ■ | 138 | 185.5 | 185.5 |
| 800X1000 | ■ | ■ | 138 | 285.5 | 285.5 |

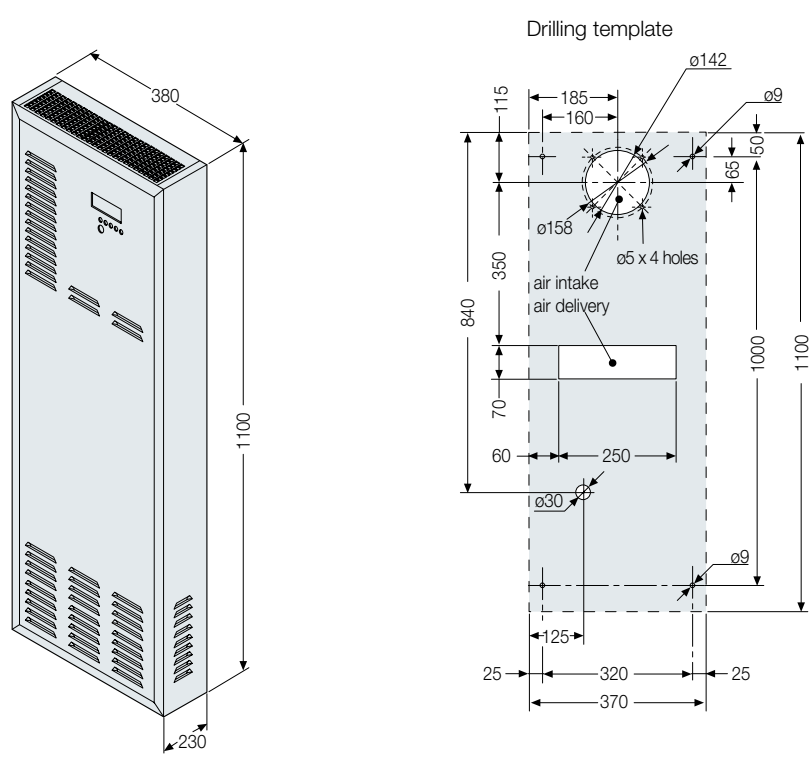
Overall dimensions

Air conditioner

Air conditioners for wall or door mounting VZ1550K - VZ1850K - VZ1400K



Air conditioners for wall or door mounting VZ2000K

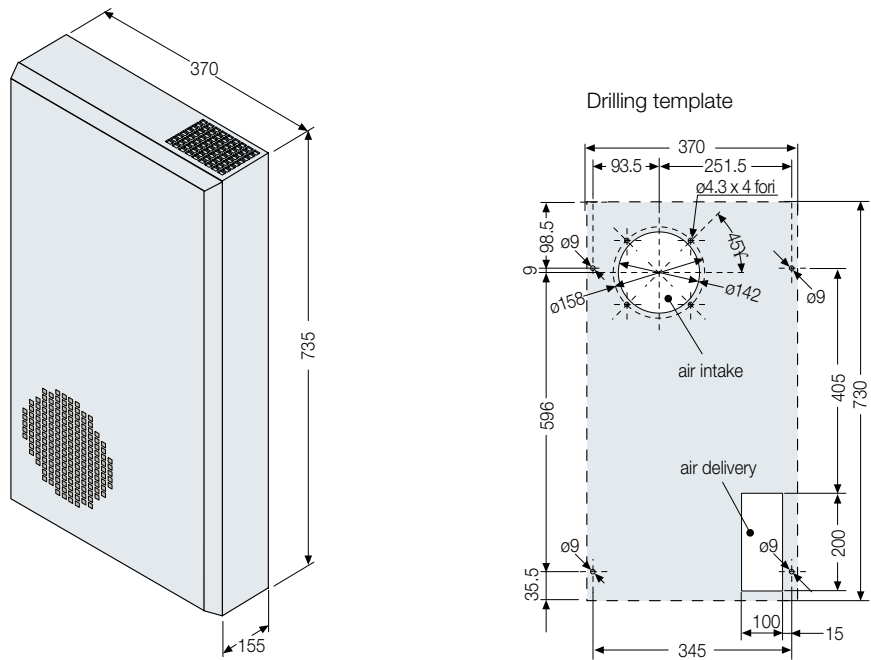


Measurements are in millimetres

Overall dimensions

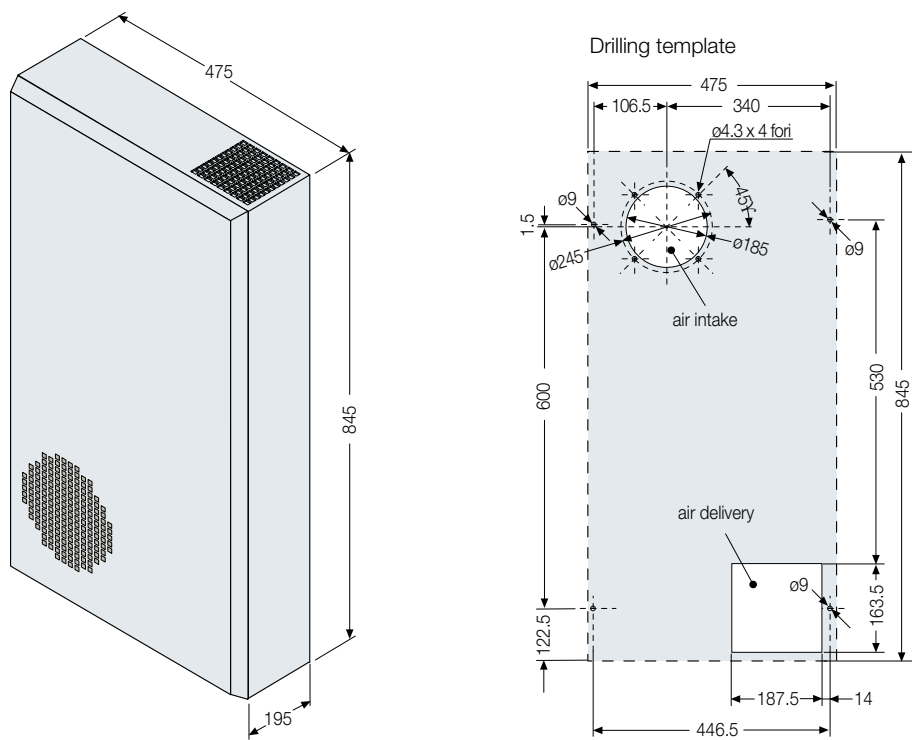
Air conditioner

Heat exchangers for wall or door mounting VS4235K



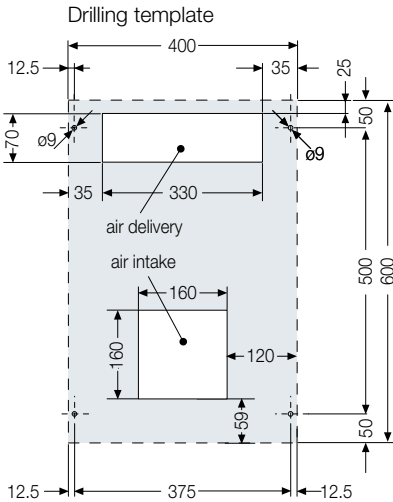
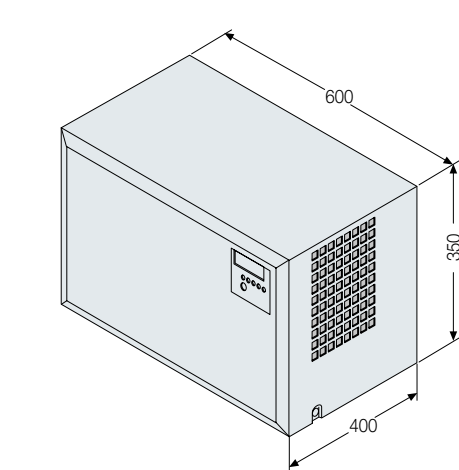
8

Heat exchangers for wall or door mounting VS6285K



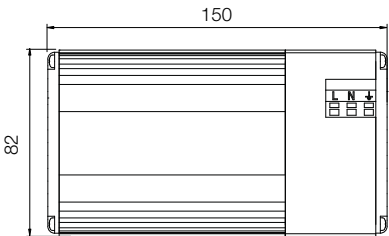
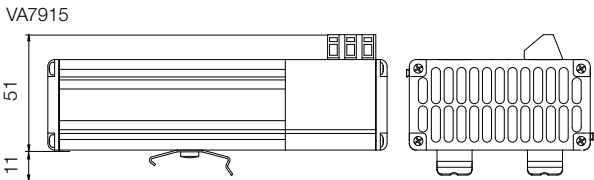
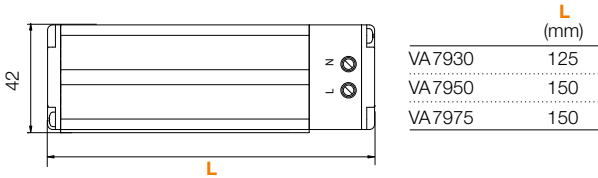
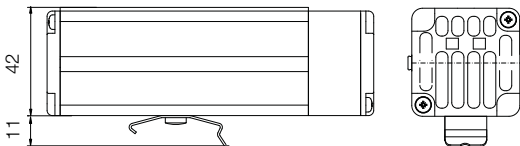
Measurements are in millimetres

Air conditioners for mounting on roof VZ8501K-VZ1401K

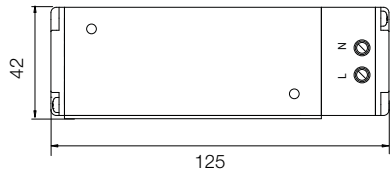
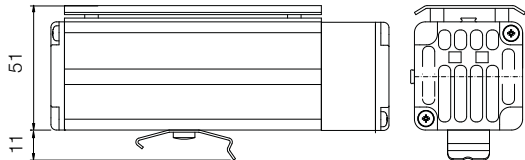


IP20 heaters

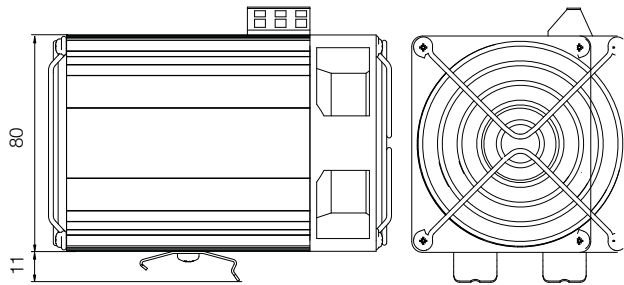
VA7930 / VA7950 / VA7975



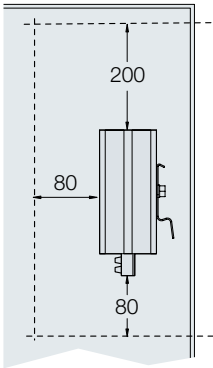
VA7910



VA8300



Minimum mounting distances



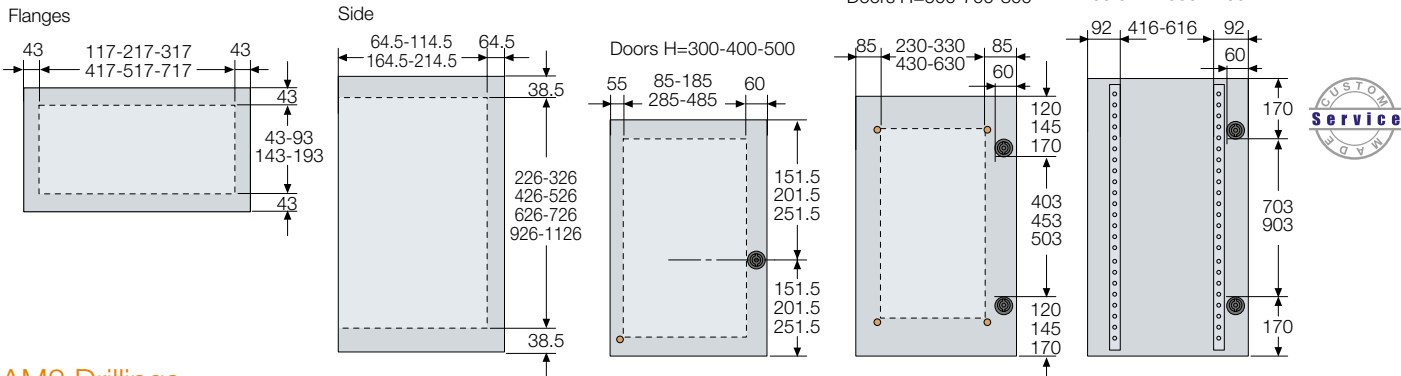
Measurements are in millimetres

Overall dimensions

Drillings

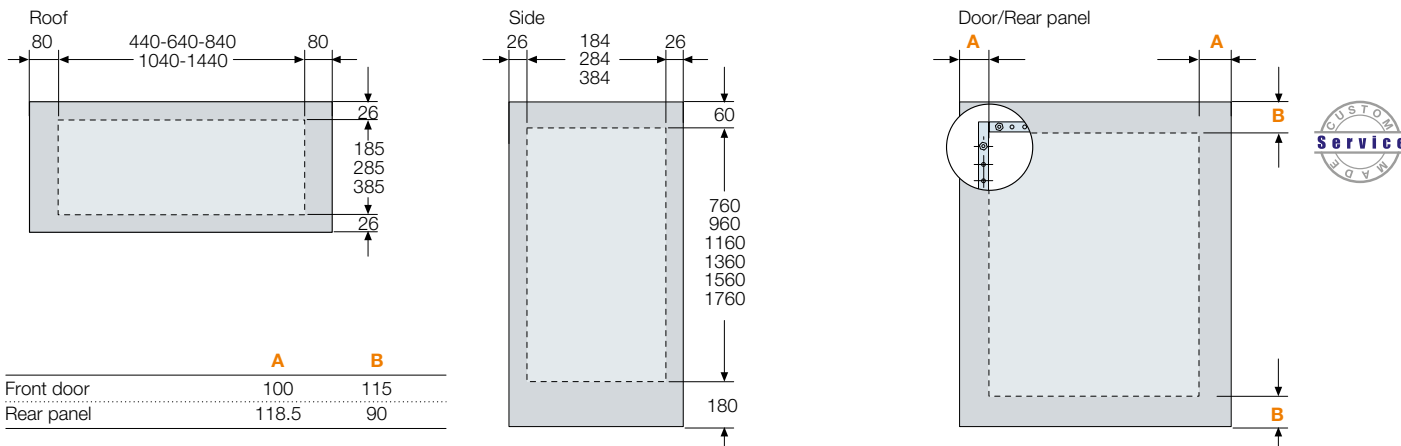
Drillings SR2

Maximum useful overall dimensions for the drillings



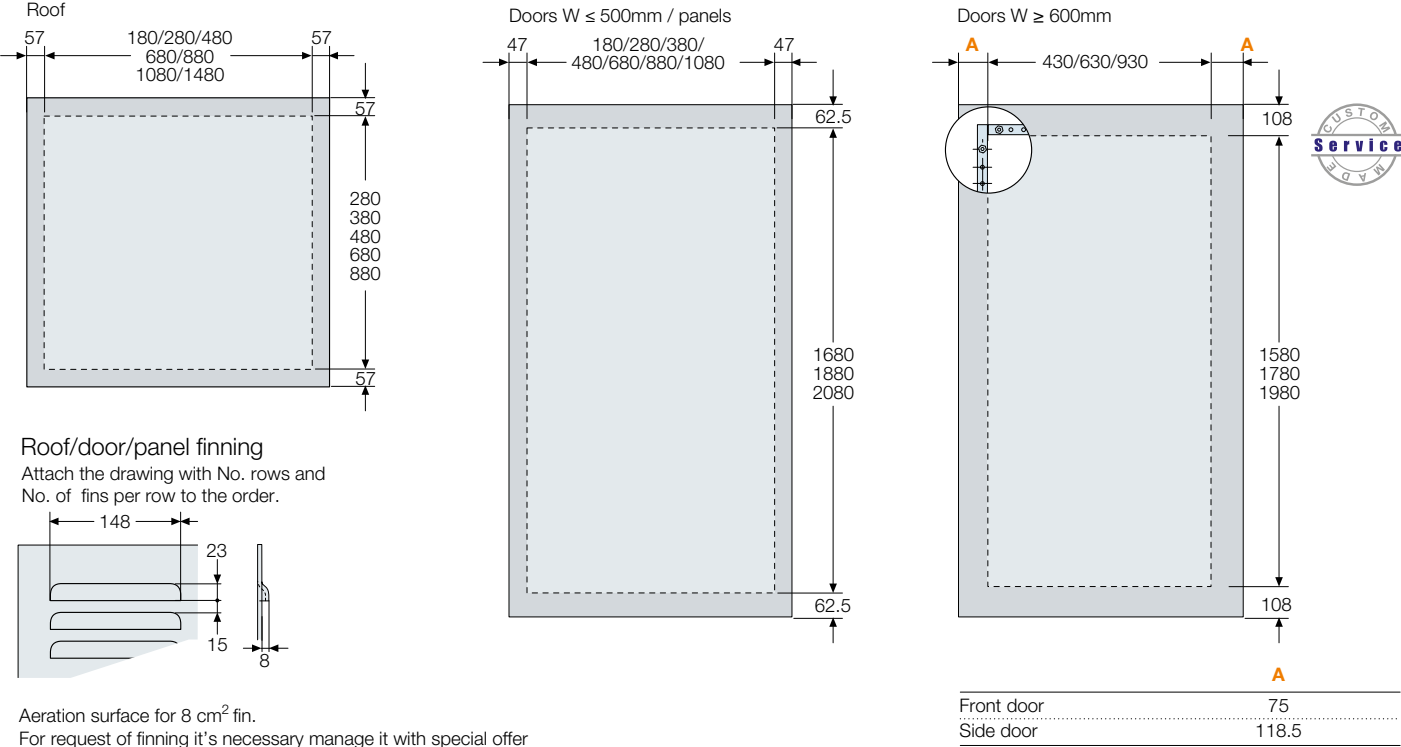
AM2 Drillings

Maximum useful overall dimensions for the drillings

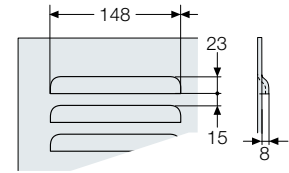


IS2 Enclosure drillings

Maximum useful overall dimensions for the drillings



Roof/door/panel finning
Attach the drawing with No. rows and No. of fins per row to the order.

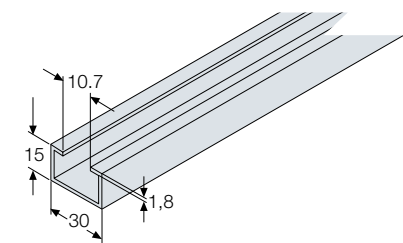


Aeration surface for 8 cm² fin.
For request of finning it's necessary manage it with special offer
Measurements are in millimetres

Overall dimensions

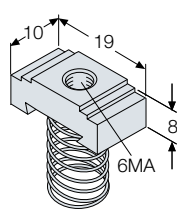
Accessories

Aluminium section EV1050

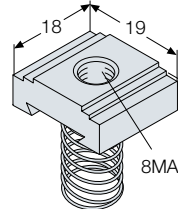


Aluminium nuts for EV1050

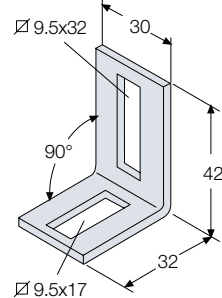
EV1056



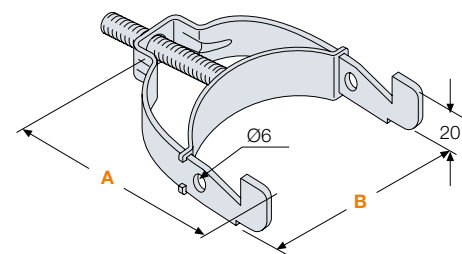
EV1058



Angles for busbars EV1051



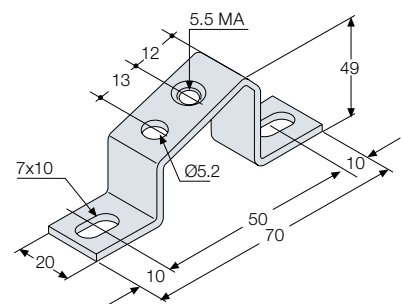
Brackets for cables EV1090 / EV1091



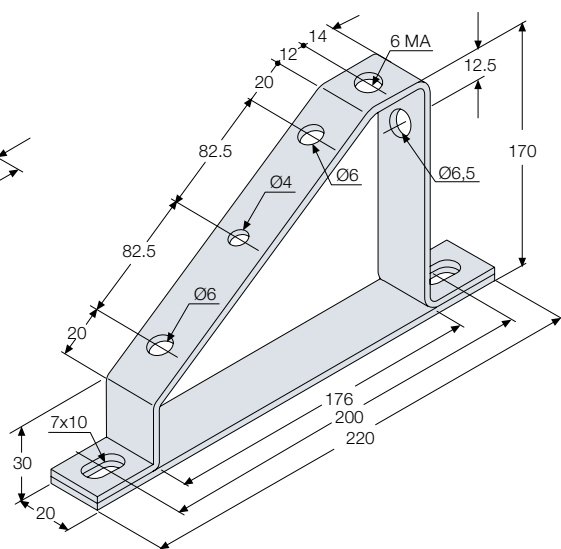
| | A | B |
|--------|-----|----|
| EV1090 | 49 | 20 |
| EV1091 | 65 | 36 |
| EV1092 | 85 | 51 |
| EV1093 | 106 | 80 |

Terminal box supports

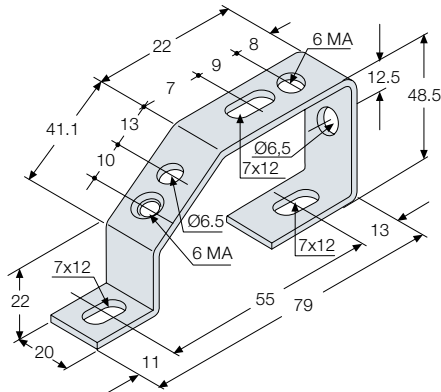
EV1110-EV2110-EV1113



EV1111



EV1112-EV2112

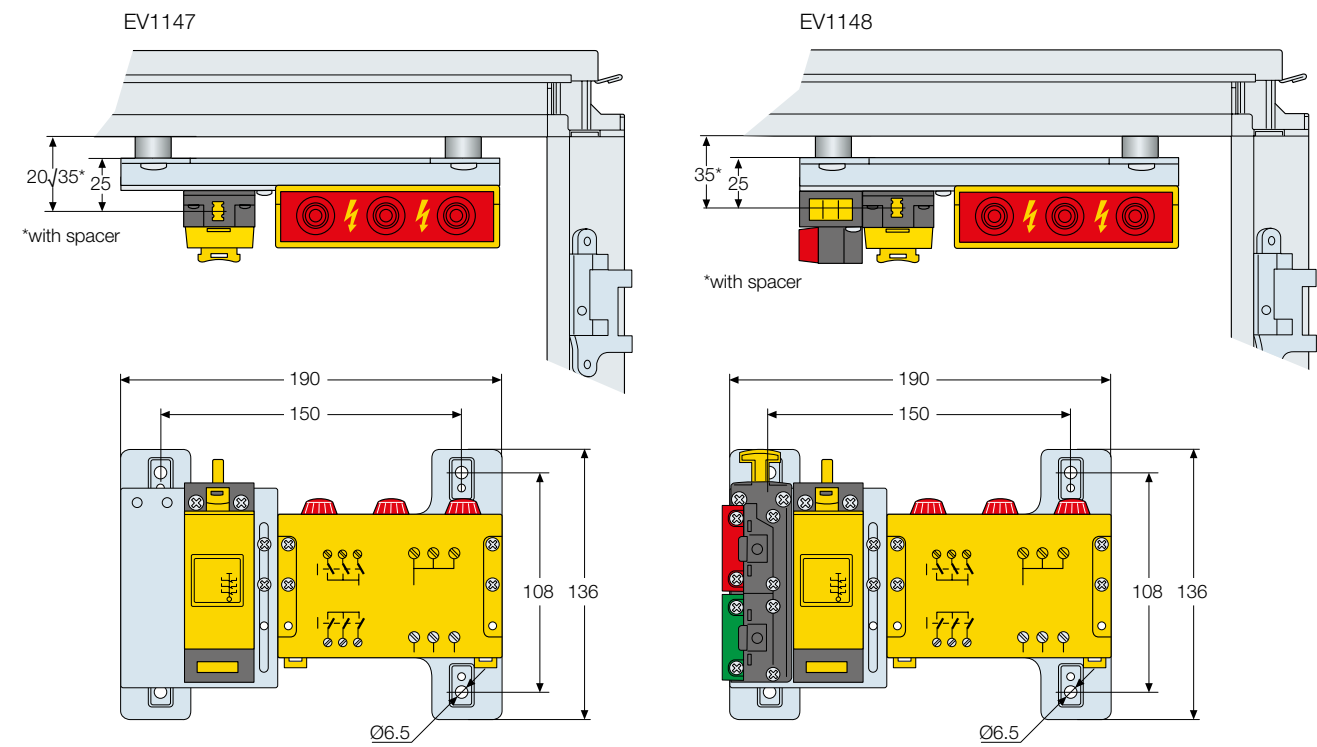


Measurements are in millimetres

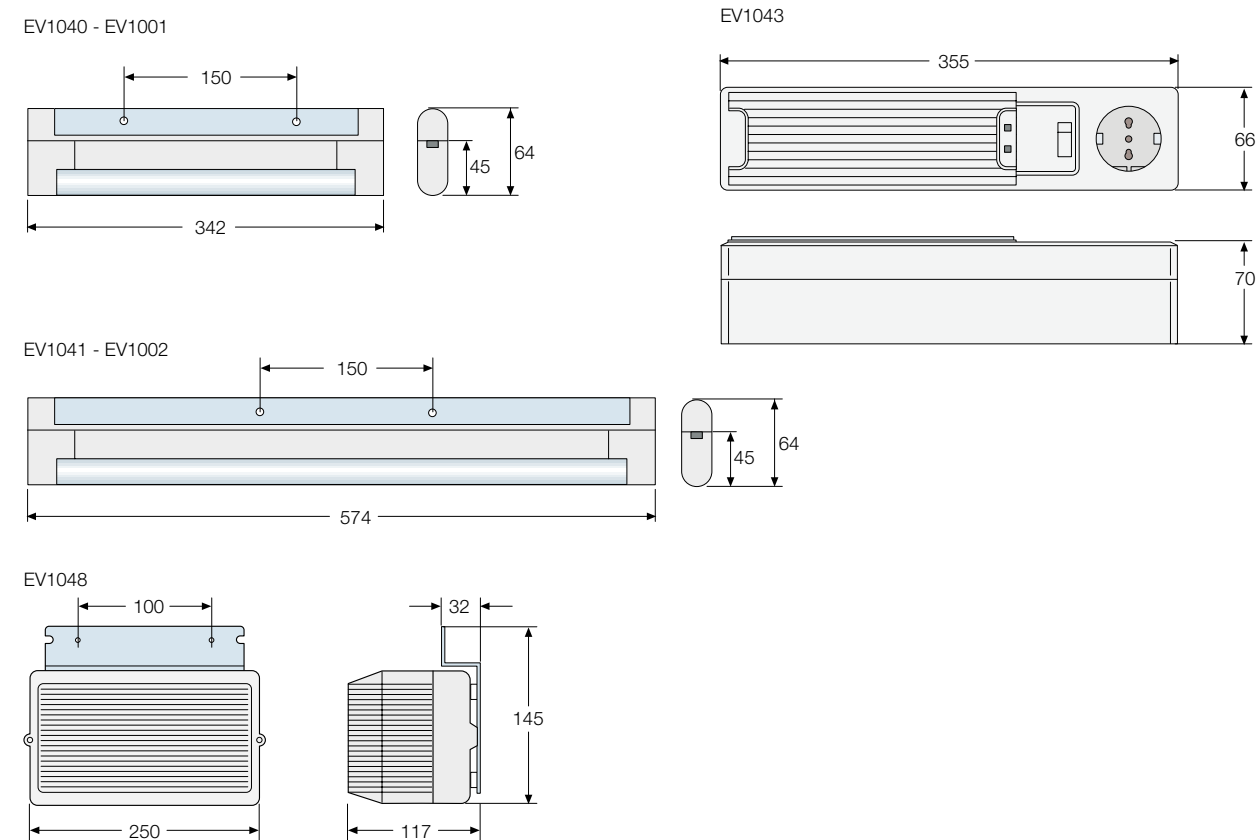
Overall dimensions

Accessories

Voltage indicator

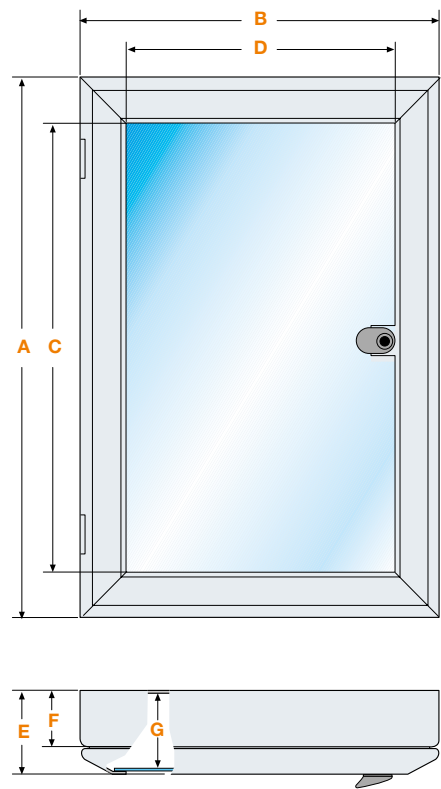


Fluorescent lights



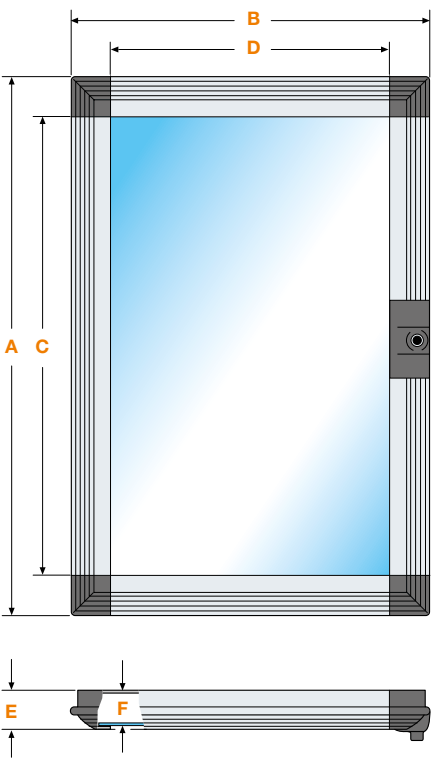
Measurements are in millimetres

IP20 protective window with frame



| | A | B | C | D | E | F | G |
|--------|-----|-----|-----|-----|----|----|----|
| EV1081 | 400 | 400 | 330 | 330 | 79 | 61 | 70 |
| EV1082 | 600 | 200 | 530 | 130 | 48 | 30 | 40 |
| EV1083 | 600 | 200 | 530 | 130 | 79 | 61 | 70 |
| EV1085 | 600 | 400 | 530 | 330 | 79 | 61 | 70 |
| EV1087 | 600 | 600 | 530 | 530 | 79 | 61 | 70 |

IP54 protective window without frame



| | A | B | C | D | E | F |
|--------|-----|-----|-----|-----|----|----|
| EV8880 | 400 | 400 | 303 | 303 | 26 | 15 |
| EV8881 | 600 | 600 | 503 | 503 | 26 | 15 |
| EV8882 | 600 | 400 | 503 | 303 | 26 | 15 |

Measurements are in millimetres

Index of codes

| | |
|--------------------------|------|
| Gemini switchboards | 9/2 |
| SR2 - SR2 EMC Enclosures | 9/4 |
| AM2 Cabinets | 9/6 |
| IS2 - IS2 EMC Enclosures | 9/9 |
| Wiring ducts | 9/20 |

Index of codes

Gemini switchboards

| Code | Structure | Weight Kg | Page |
|------------|-----------|-----------|------|
| 05 270 | Gemini | 0,30 | 2/18 |
| 05 272 | Gemini | 0,20 | 2/18 |
| 05 274 | Gemini | 0,20 | 2/18 |
| 05 276 | Gemini | 0,36 | 2/18 |
| 05 278 | Gemini | 0,36 | 2/18 |
| 05 280 | Gemini | 0,42 | 2/18 |
| 05 282 | Gemini | 0,40 | 2/18 |
| 12 849 | Gemini | 0,31 | 2/24 |
| 12 851 | Gemini | 0,19 | 2/24 |
| 12 863 | Gemini | 0,01 | 2/24 |
| 1SL0201A00 | Gemini | 4,76 | 2/13 |
| 1SL0202A00 | Gemini | 7,94 | 2/13 |
| 1SL0203A00 | Gemini | 10,65 | 2/13 |
| 1SL0204A00 | Gemini | 12,50 | 2/13 |
| 1SL0205A00 | Gemini | 17,97 | 2/13 |
| 1SL0206A00 | Gemini | 24,90 | 2/13 |
| 1SL0211A00 | Gemini | 4,76 | 2/13 |
| 1SL0212A00 | Gemini | 7,94 | 2/13 |
| 1SL0213A00 | Gemini | 10,65 | 2/13 |
| 1SL0214A00 | Gemini | 12,50 | 2/13 |
| 1SL0215A00 | Gemini | 17,97 | 2/13 |
| 1SL0216A00 | Gemini | 24,90 | 2/13 |
| 1SL0221A00 | Gemini | 3,50 | 2/13 |
| 1SL0222A00 | Gemini | 5,90 | 2/13 |
| 1SL0223A00 | Gemini | 8,20 | 2/13 |
| 1SL0224A00 | Gemini | 9,20 | 2/13 |
| 1SL0225A00 | Gemini | 13,80 | 2/13 |
| 1SL0226A00 | Gemini | 18,41 | 2/13 |
| 1SL0231A00 | Gemini | 1,12 | 2/14 |
| 1SL0232A00 | Gemini | 1,86 | 2/14 |
| 1SL0233A00 | Gemini | 2,45 | 2/14 |
| 1SL0234A00 | Gemini | 3,30 | 2/14 |
| 1SL0235A00 | Gemini | 3,97 | 2/14 |
| 1SL0236A00 | Gemini | 5,99 | 2/14 |
| 1SL0241A00 | Gemini | 1,12 | 2/14 |
| 1SL0242A00 | Gemini | 1,86 | 2/14 |
| 1SL0243A00 | Gemini | 2,45 | 2/14 |
| 1SL0244A00 | Gemini | 3,30 | 2/14 |
| 1SL0245A00 | Gemini | 3,97 | 2/14 |
| 1SL0246A00 | Gemini | 5,99 | 2/14 |
| 1SL0251A00 | Gemini | 0,46 | 2/14 |
| 1SL0252A00 | Gemini | 0,73 | 2/14 |
| 1SL0253A00 | Gemini | 1,11 | 2/14 |
| 1SL0254A00 | Gemini | 1,35 | 2/14 |
| 1SL0255A00 | Gemini | 1,80 | 2/14 |
| 1SL0256A00 | Gemini | 4,10 | 2/14 |
| 1SL0259A00 | Gemini | 1,13 | 2/19 |
| 1SL0260A00 | Gemini | 2,65 | 2/19 |

| Code | Structure | Weight Kg | Page |
|------------|-----------|-----------|------|
| 1SL0261A00 | Gemini | 3,60 | 2/19 |
| 1SL0262A00 | Gemini | 4,85 | 2/19 |
| 1SL0263A00 | Gemini | 5,98 | 2/19 |
| 1SL0264A00 | Gemini | 10,75 | 2/19 |
| 1SL0267A00 | Gemini | 0,58 | 2/19 |
| 1SL0268A00 | Gemini | 1,35 | 2/19 |
| 1SL0269A00 | Gemini | 1,70 | 2/19 |
| 1SL0270A00 | Gemini | 2,36 | 2/19 |
| 1SL0271A00 | Gemini | 2,90 | 2/19 |
| 1SL0272A00 | Gemini | 5,35 | 2/19 |
| 1SL0275A00 | Gemini | 0,61 | 2/19 |
| 1SL0276A00 | Gemini | 1,46 | 2/19 |
| 1SL0277A00 | Gemini | 0,62 | 2/19 |
| 1SL0278A00 | Gemini | 2,55 | 2/19 |
| 1SL0279A00 | Gemini | 3,10 | 2/19 |
| 1SL0280A00 | Gemini | 5,00 | 2/19 |
| 1SL0283A00 | Gemini | 0,39 | 2/15 |
| 1SL0284A00 | Gemini | 0,75 | 2/15 |
| 1SL0285A00 | Gemini | 0,99 | 2/15 |
| 1SL0286A00 | Gemini | 1,31 | 2/15 |
| 1SL0287A00 | Gemini | 2,66 | 2/15 |
| 1SL0290A00 | Gemini | 0,18 | 2/15 |
| 1SL0291A00 | Gemini | 0,23 | 2/15 |
| 1SL0292A00 | Gemini | 0,30 | 2/15 |
| 1SL0293A00 | Gemini | 0,45 | 2/15 |
| 1SL0296A00 | Gemini | 0,48 | 2/17 |
| 1SL0297A00 | Gemini | 0,70 | 2/17 |
| 1SL0298A00 | Gemini | 0,98 | 2/17 |
| 1SL0299A00 | Gemini | 1,50 | 2/17 |
| 1SL0302A00 | Gemini | 1,50 | 2/17 |
| 1SL0303A00 | Gemini | 2,05 | 2/17 |
| 1SL0304A00 | Gemini | 3,10 | 2/17 |
| 1SL0307A00 | Gemini | 0,34 | 2/15 |
| 1SL0308A00 | Gemini | 0,48 | 2/15 |
| 1SL0309A00 | Gemini | 0,56 | 2/15 |
| 1SL0310A00 | Gemini | 0,95 | 2/15 |
| 1SL0313A00 | Gemini | 0,60 | 2/15 |
| 1SL0314A00 | Gemini | 0,81 | 2/15 |
| 1SL0315A00 | Gemini | 1,15 | 2/15 |
| 1SL0318A00 | Gemini | 0,10 | 2/17 |
| 1SL0319A00 | Gemini | 0,14 | 2/17 |
| 1SL0320A00 | Gemini | 0,18 | 2/17 |
| 1SL0321A00 | Gemini | 0,23 | 2/17 |
| 1SL0324A00 | Gemini | 0,19 | 2/17 |
| 1SL0325A00 | Gemini | 0,27 | 2/17 |
| 1SL0326A00 | Gemini | 0,14 | 2/17 |
| 1SL0327A00 | Gemini | 0,45 | 2/17 |
| 1SL0330A00 | Gemini | 0,32 | 2/17 |

| Code | Structure | Weight Kg | Page |
|------------|-----------|-----------|------|
| 1SL0331A00 | Gemini | 0,41 | 2/17 |
| 1SL0332A00 | Gemini | 0,61 | 2/17 |
| 1SL0333A00 | Gemini | 0,84 | 2/17 |
| 1SL0336A00 | Gemini | 0,95 | 2/16 |
| 1SL0337A00 | Gemini | 1,25 | 2/16 |
| 1SL0338A00 | Gemini | 1,90 | 2/16 |
| 1SL0339A00 | Gemini | 0,01 | 2/21 |
| 1SL0340A00 | Gemini | 0,05 | 2/21 |
| 1SL0341A00 | Gemini | 0,01 | 2/21 |
| 1SL0342A00 | Gemini | 0,20 | 2/21 |
| 1SL0343A00 | Gemini | 0,60 | 2/21 |
| 1SL0344A00 | Gemini | 0,80 | 2/21 |
| 1SL0345A00 | Gemini | 1,62 | 2/21 |
| 1SL0346A00 | Gemini | 2,20 | 2/21 |
| 1SL0350A00 | Gemini | 0,17 | 2/26 |
| 1SL0351A00 | Gemini | 0,03 | 2/24 |
| 1SL0352A00 | Gemini | 5,85 | 2/21 |
| 1SL0353A00 | Gemini | 0,19 | 2/18 |
| 1SL0354A00 | Gemini | 0,20 | 2/18 |
| 1SL0355A00 | Gemini | 0,25 | 2/18 |
| 1SL0356A00 | Gemini | 0,34 | 2/18 |
| 1SL0360A00 | Gemini | 0,15 | 2/18 |
| 1SL0361A00 | Gemini | 0,21 | 2/18 |
| 1SL0362A00 | Gemini | 0,28 | 2/18 |
| 1SL0363A00 | Gemini | 0,38 | 2/18 |
| 1SL0370A00 | Gemini | 1,88 | 2/16 |
| 1SL0371A00 | Gemini | 2,70 | 2/16 |
| 1SL0372A00 | Gemini | 3,85 | 2/16 |
| 1SL0373A00 | Gemini | 0,95 | 2/16 |
| 1SL0374A00 | Gemini | 1,25 | 2/16 |
| 1SL0375A00 | Gemini | 1,90 | 2/16 |
| 1SL0376A00 | Gemini | 1,88 | 2/16 |
| 1SL0377A00 | Gemini | 2,70 | 2/16 |
| 1SL0378A00 | Gemini | 3,85 | 2/16 |
| 1SL0380A00 | Gemini | 0,04 | 2/24 |
| 1SL0381A00 | Gemini | 0,10 | 2/24 |
| 1SL0382A00 | Gemini | 0,03 | 2/24 |
| 1SL0383A00 | Gemini | 0,10 | 2/19 |
| 1SL0384A00 | Gemini | 0,01 | 2/24 |
| 1SL0397A00 | Gemini | 0,04 | 2/24 |
| 1SL0413A00 | Gemini | 0,83 | 2/22 |
| 1SL0414A00 | Gemini | 0,88 | 2/22 |
| 1SL0415A00 | Gemini | 1,24 | 2/22 |
| 1SL0416A00 | Gemini | 1,85 | 2/22 |
| 1SL0423A00 | Gemini | 0,80 | 2/22 |
| 1SL0424A00 | Gemini | 0,83 | 2/22 |
| 1SL0425A00 | Gemini | 1,15 | 2/22 |
| 1SL0426A00 | Gemini | 1,83 | 2/22 |

Index of codes

Casse SR2 - SR2 EMC

| Code | Structure | Weight Kg | Page |
|---------|-----------|-----------|------|
| AA1004 | SR2 | 0,04 | 3/19 |
| AA1203 | SR2 | 0,01 | 3/19 |
| AA1204 | SR2 | 0,33 | 3/19 |
| AA1206 | SR2 | 0,20 | 3/11 |
| AA5190 | SR2 | 0,01 | 3/16 |
| AA5200 | SR2 | 0,01 | 3/16 |
| AA8001 | SR2 | 0,10 | 3/16 |
| AA8002 | SR2 | 0,01 | 3/16 |
| AA8003 | SR2 | 0,01 | 3/16 |
| AA8010 | SR2 | 2,94 | 3/15 |
| AA8011 | SR2 | 0,01 | 3/15 |
| AA8025 | SR2 | 0,17 | 3/10 |
| AA8050 | SR2 | 0,01 | 3/10 |
| AD1033 | SR2 | 0,22 | 3/18 |
| AD1036 | SR2 | 0,07 | 3/18 |
| AD1086 | SR2 | 3,44 | 3/16 |
| AD1088 | SR2 | 1,38 | 3/16 |
| AD1089 | SR2 | 2,04 | 3/16 |
| AD1101 | SR2 | 0,04 | 3/17 |
| AD1102 | SR2 | 0,02 | 3/17 |
| AD1103 | SR2 | 0,02 | 3/17 |
| AD1104 | SR2 | 0,02 | 3/17 |
| AD1600 | SR2 | 0,24 | 3/17 |
| AD1800 | SR2 | 0,35 | 3/17 |
| AD3301 | SR2 | 0,15 | 3/14 |
| AD3302 | SR2 | 0,15 | 3/14 |
| AD3303 | SR2 | 0,15 | 3/14 |
| AD3304 | SR2 | 0,15 | 3/14 |
| AG1013 | SR2 | 0,07 | 3/16 |
| EH1889 | SR2 | 0,21 | 3/17 |
| EH1890 | SR2 | 0,12 | 3/17 |
| EH2118 | SR2 | 0,06 | 3/17 |
| EH2129 | SR2 | 0,08 | 3/17 |
| EN0101K | SR2 | 0,07 | 3/13 |
| EN0102K | SR2 | 0,07 | 3/13 |
| EV0015 | SR2 | 0,20 | 3/15 |
| EV1008 | SR2 | 0,04 | 3/16 |
| EV1008 | SR2 | 0,04 | 3/16 |
| EV1036 | SR2 | 0,03 | 3/16 |
| EV1037 | SR2 | 0,03 | 3/16 |
| EV1039 | SR2 | 0,03 | 3/16 |
| EV1075K | SR2 | 0,20 | 3/16 |
| EV1100 | SR2 | 1,13 | 3/18 |
| EV1101 | SR2 | 1,25 | 3/18 |
| EV1131 | SR2 | 5,77 | 3/18 |
| EV1135 | SR2 | 0,23 | 3/17 |
| EV1136 | SR2 | 0,16 | 3/17 |
| EV1137 | SR2 | 0,23 | 3/17 |

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| EV1150 | SR2 | 0,09 | 3/18 |
| EV1151 | SR2 | 0,09 | 3/18 |
| EV1152 | SR2 | 0,09 | 3/18 |
| EV1153 | SR2 | 0,09 | 3/18 |
| EV1154 | SR2 | 0,09 | 3/18 |
| EV1155 | SR2 | 0,01 | 3/18 |
| EV1156 | SR2 | 0,06 | 3/18 |
| FLN3215K | SR2 | 0,59 | 3/19 |
| FLN3315K | SR2 | 0,88 | 3/19 |
| FLN3415K | SR2 | 1,18 | 3/19 |
| FLN4320K | SR2 | 1,27 | 3/19 |
| FLN4420K | SR2 | 1,76 | 3/19 |
| FLN4425K | SR2 | 2,35 | 3/19 |
| FLN4620K | SR2 | 2,74 | 3/19 |
| FLN6625K | SR2 | 3,63 | 3/19 |
| FLN7520K | SR2 | 2,35 | 3/19 |
| FLN7525K | SR2 | 2,94 | 3/19 |
| FLN8630K | SR2 | 4,51 | 3/19 |
| FLN8830K | SR2 | 6,27 | 3/19 |
| FORSR | SR2 | 0,00 | 3/19 |
| FORSR1 | SR2 | 0,00 | 3/19 |
| FORSR2 | SR2 | 0,00 | 3/19 |
| GD4006 | SR2 | 0,78 | 3/14 |
| GD6006 | SR2 | 0,88 | 3/14 |
| GD8006 | SR2 | 0,98 | 3/14 |
| GZ4020 | SR2 | 0,05 | 3/11 |
| GZ4025 | SR2 | 0,05 | 3/11 |
| GZ6020 | SR2 | 0,07 | 3/11 |
| GZ6025 | SR2 | 0,05 | 3/11 |
| GZ6030 | SR2 | 0,05 | 3/11 |
| GZ8030 | SR2 | 0,05 | 3/11 |
| KC1060K | SR2 | 10,05 | 3/9 |
| KC1080K | SR2 | 13,55 | 3/9 |
| KC1260K | SR2 | 12,05 | 3/9 |
| KC1280K | SR2 | 16,35 | 3/9 |
| KC5040K | SR2 | 3,25 | 3/9 |
| KC6040K | SR2 | 3,75 | 3/9 |
| KC7050K | SR2 | 5,55 | 3/9 |
| KC8060K | SR2 | 8,05 | 3/9 |
| KD1060K | SR2 | 2,35 | 3/13 |
| KD1080K | SR2 | 2,89 | 3/13 |
| KD1260K | SR2 | 3,14 | 3/13 |
| KD1280K | SR2 | 3,63 | 3/13 |
| KD5040K | SR2 | 1,66 | 3/13 |
| KD6040K | SR2 | 1,76 | 3/13 |
| KD8060K | SR2 | 1,96 | 3/13 |
| PC1406K | SR2 | 2,74 | 3/14 |
| PC1606K | SR2 | 1,26 | 3/14 |

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|----------|-----------|-----------|------|
| PC1806K | SR2 | 1,47 | 3/14 |
| PC2606K | SR2 | 2,45 | 3/14 |
| PC2806K | SR2 | 2,94 | 3/14 |
| PF1060 | SR2 | 8,82 | 3/9 |
| PF1080 | SR2 | 11,76 | 3/9 |
| PF1260 | SR2 | 10,78 | 3/9 |
| PF1280 | SR2 | 14,21 | 3/9 |
| PF3020 | SR2 | 0,69 | 3/9 |
| PF3030 | SR2 | 1,05 | 3/9 |
| PF3040 | SR2 | 1,45 | 3/9 |
| PF4030 | SR2 | 1,45 | 3/9 |
| PF4040 | SR2 | 2,01 | 3/9 |
| PF4060 | SR2 | 3,27 | 3/9 |
| PF5030 | SR2 | 1,86 | 3/9 |
| PF5040 | SR2 | 2,57 | 3/9 |
| PF6040 | SR2 | 3,27 | 3/9 |
| PF6060 | SR2 | 5,00 | 3/9 |
| PF7050 | SR2 | 4,85 | 3/9 |
| PF8060 | SR2 | 6,83 | 3/9 |
| PF8080 | SR2 | 9,21 | 3/9 |
| PM1414K | SR2 | 2,35 | 3/14 |
| PM1625K | SR2 | 2,94 | 3/14 |
| PM1836K | SR2 | 3,63 | 3/14 |
| PRN1066K | SR2 | 8,33 | 3/19 |
| PRN1086K | SR2 | 11,27 | 3/19 |
| PRN1266K | SR2 | 9,80 | 3/19 |
| PRN1286K | SR2 | 12,74 | 3/19 |
| PRN3006K | SR2 | 1,47 | 3/19 |
| PRN3026K | SR2 | 0,98 | 3/19 |
| PRN3046K | SR2 | 1,67 | 3/19 |
| PRN4036K | SR2 | 2,06 | 3/19 |
| PRN4046K | SR2 | 2,56 | 3/19 |
| PRN4066K | SR2 | 3,43 | 3/19 |
| PRN5036K | SR2 | 2,45 | 3/19 |
| PRN5046K | SR2 | 2,94 | 3/19 |
| PRN6046K | SR2 | 3,43 | 3/19 |
| PRN6066K | SR2 | 4,90 | 3/19 |
| PRN7056K | SR2 | 4,90 | 3/19 |
| PRN8066K | SR2 | 6,08 | 3/19 |
| PRN8086K | SR2 | 8,33 | 3/19 |
| PS2476K | SR2 | 0,98 | 3/14 |
| PS2676K | SR2 | 1,27 | 3/14 |
| PS2876K | SR2 | 1,76 | 3/14 |
| PTN1066K | SR2 | 9,80 | 3/19 |
| PTN1086K | SR2 | 14,70 | 3/19 |
| PTN1266K | SR2 | 15,68 | 3/19 |
| PTN1286K | SR2 | 18,62 | 3/19 |
| PTN5046K | SR2 | 6,86 | 3/19 |

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| EF6032MT | AM2 | 0,85 | 4/13 |
| EF6032N | AM2 | 0,83 | 4/13 |
| EF6040 | AM2 | 1,61 | 4/13 |
| EF6040MT | AM2 | 1,61 | 4/13 |
| EF6043 | AM2 | 1,76 | 4/13 |
| EF8032MT | AM2 | 1,21 | 4/13 |
| EF8032N | AM2 | 1,25 | 4/13 |
| EF8040 | AM2 | 2,36 | 4/13 |
| EF8040MT | AM2 | 2,41 | 4/13 |
| EF8042 | AM2 | 2,57 | 4/13 |
| AA6100 | AM2 | 0,01 | 4/34 |
| AA6100 | AM2 | 0,01 | 4/37 |
| AA6840 | AM2 | 0,01 | 4/30 |
| AA6850 | AM2 | 0,01 | 4/30 |
| AA6880 | AM2 | 0,01 | 4/30 |
| AA6890 | AM2 | 0,01 | 4/30 |
| AD1009 | AM2 | 0,09 | 4/18 |
| AD1033 | AM2 | 0,22 | 4/30 |
| AD1037 | AM2 | 0,35 | 4/18 |
| AD1058 | AM2 | 0,01 | 4/37 |
| AD1086 | AM2 | 3,51 | 4/22 |
| AD1088 | AM2 | 1,41 | 4/22 |
| AD1089 | AM2 | 2,08 | 4/22 |
| AD1101 | AM2 | 0,05 | 4/22 |
| AD1102 | AM2 | 0,02 | 4/22 |
| AD1103 | AM2 | 0,02 | 4/22 |
| AD1104 | AM2 | 0,02 | 4/22 |
| AD1600 | AM2 | 0,24 | 4/22 |
| AD1800 | AM2 | 0,36 | 4/22 |
| AD3301 | AM2 | 0,15 | 4/19 |
| AD3302 | AM2 | 0,15 | 4/19 |
| AD3303 | AM2 | 0,15 | 4/19 |
| AD3304 | AM2 | 0,15 | 4/19 |
| AP6000 | AM2 | 0,01 | 4/18 |
| EA1010MT | AM2 | 18,92 | 4/16 |
| EA1012MT | AM2 | 22,50 | 4/16 |
| EA1016MT | AM2 | 29,65 | 4/16 |
| EA1060MT | AM2 | 11,76 | 4/16 |
| EA1061 | AM2 | 11,60 | 4/17 |
| EA1080MT | AM2 | 15,34 | 4/16 |
| EA1081 | AM2 | 20,79 | 4/17 |
| EA1210MT | AM2 | 22,79 | 4/16 |
| EA1213MT | AM2 | 27,15 | 4/16 |
| EA1260MT | AM2 | 14,06 | 4/16 |
| EA1280MT | AM2 | 18,43 | 4/16 |
| EA2062 | AM2 | 2,97 | 4/17 |
| EA2081 | AM2 | 3,96 | 4/17 |
| EA3061 | AM2 | 4,46 | 4/17 |
| EA3081 | AM2 | 5,94 | 4/17 |
| EA4061 | AM2 | 5,94 | 4/17 |
| EA4081 | AM2 | 7,92 | 4/17 |
| EA5010 | AM2 | 16,10 | 4/17 |
| EA5060 | AM2 | 9,66 | 4/17 |
| EA5061 | AM2 | 7,43 | 4/17 |
| EA5081 | AM2 | 9,92 | 4/17 |
| EA5082 | AM2 | 12,88 | 4/17 |
| EA5100 | AM2 | 1,06 | 4/16 |
| EA5210 | AM2 | 19,33 | 4/17 |
| EA5260 | AM2 | 11,59 | 4/17 |

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|----------|-----------|-----------|------|
| EA5280 | AM2 | 15,46 | 4/17 |
| EA6061 | AM2 | 8,91 | 4/17 |
| EA6081 | AM2 | 11,88 | 4/17 |
| EA8061 | AM2 | 11,88 | 4/17 |
| EA8081 | AM2 | 15,84 | 4/17 |
| EB0600 | AM2 | 1,41 | 4/15 |
| EB0660 | AM2 | 2,04 | 4/15 |
| EB0800 | AM2 | 1,91 | 4/15 |
| EB0880 | AM2 | 2,74 | 4/15 |
| EB1000 | AM2 | 2,55 | 4/15 |
| EB1010 | AM2 | 4,25 | 4/15 |
| EB1020 | AM2 | 2,58 | 4/15 |
| EB1041 | AM2 | 0,54 | 4/28 |
| EB1042 | AM2 | 0,86 | 4/28 |
| EB1043 | AM2 | 1,21 | 4/28 |
| EB1200 | AM2 | 3,86 | 4/15 |
| EF1032N | AM2 | 1,67 | 4/13 |
| EF1032NM | AM2 | 1,67 | 4/13 |
| EF1040 | AM2 | 3,10 | 4/13 |
| EF1040MT | AM2 | 3,17 | 4/13 |
| EF1042 | AM2 | 3,38 | 4/13 |
| EF6032N | AM2 | 0,83 | 4/13 |
| EF6032NM | AM2 | 0,83 | 4/13 |
| EF6040 | AM2 | 1,61 | 4/13 |
| EF6040MT | AM2 | 1,61 | 4/13 |
| EF6043 | AM2 | 1,76 | 4/13 |
| EF8032N | AM2 | 1,25 | 4/13 |
| EF8032NM | AM2 | 1,25 | 4/13 |
| EF8040 | AM2 | 2,36 | 4/13 |
| EF8040MT | AM2 | 2,41 | 4/13 |
| EF8042 | AM2 | 2,57 | 4/13 |
| EG1902 | AM2 | 0,42 | 4/24 |
| EG1903 | AM2 | 0,62 | 4/24 |
| EG1904 | AM2 | 0,83 | 4/24 |
| EG1905 | AM2 | 1,04 | 4/24 |
| EG1906 | AM2 | 1,25 | 4/24 |
| EG1907 | AM2 | 1,46 | 4/24 |
| EG1908 | AM2 | 1,67 | 4/24 |
| EG1909 | AM2 | 1,87 | 4/24 |
| EG1910 | AM2 | 2,08 | 4/24 |
| EG1911 | AM2 | 2,29 | 4/24 |
| EG1912 | AM2 | 2,50 | 4/24 |
| EG1913 | AM2 | 2,71 | 4/24 |
| EG1914 | AM2 | 2,91 | 4/24 |
| EG1915 | AM2 | 3,12 | 4/24 |
| EG1916 | AM2 | 3,33 | 4/24 |
| EG1917 | AM2 | 3,54 | 4/24 |
| EG1918 | AM2 | 3,75 | 4/24 |
| EG1920 | AM2 | 4,16 | 4/24 |
| EG1991 | AM2 | 0,21 | 4/24 |
| EG1999 | AM2 | 3,96 | 4/24 |
| EH0018 | AM2 | 0,85 | 4/18 |
| EH0024 | AM2 | 0,77 | 4/18 |
| EH0029 | AM2 | 1,23 | 4/18 |
| EH0036 | AM2 | 0,97 | 4/18 |
| EH0562K | AM2 | 0,37 | 4/20 |
| EH0582K | AM2 | 0,54 | 4/20 |
| EH1062K | AM2 | 0,63 | 4/20 |
| EH1082K | AM2 | 0,87 | 4/20 |

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|---------|-----------|-----------|------|
| EH1518K | AM2 | 0,89 | 4/19 |
| EH1524K | AM2 | 0,89 | 4/19 |
| EH1529K | AM2 | 1,23 | 4/19 |
| EH1536K | AM2 | 1,23 | 4/19 |
| EH1562K | AM2 | 0,89 | 4/20 |
| EH1582K | AM2 | 1,23 | 4/20 |
| EH1889 | AM2 | 0,21 | 4/22 |
| EH1890 | AM2 | 0,13 | 4/22 |
| EH2018K | AM2 | 1,14 | 4/19 |
| EH2024K | AM2 | 1,14 | 4/19 |
| EH2029K | AM2 | 1,59 | 4/19 |
| EH2036K | AM2 | 1,59 | 4/19 |
| EH2062K | AM2 | 1,14 | 4/20 |
| EH2063K | AM2 | 1,66 | 4/21 |
| EH2065 | AM2 | 2,00 | 4/19 |
| EH2082K | AM2 | 1,59 | 4/20 |
| EH2083K | AM2 | 2,21 | 4/21 |
| EH2085 | AM2 | 4,50 | 4/19 |
| EH2118 | AM2 | 0,07 | 4/22 |
| EH2129 | AM2 | 0,08 | 4/22 |
| EH2272K | AM2 | 1,17 | 4/21 |
| EH2297K | AM2 | 1,17 | 4/21 |
| EH2472K | AM2 | 1,17 | 4/21 |
| EH3018K | AM2 | 1,66 | 4/19 |
| EH3029K | AM2 | 2,22 | 4/19 |
| EH3063K | AM2 | 1,66 | 4/20 |
| EH3064K | AM2 | 2,49 | 4/21 |
| EH3065 | AM2 | 5,06 | 4/19 |
| EH3082K | AM2 | 2,31 | 4/20 |
| EH3083K | AM2 | 3,32 | 4/21 |
| EH3085 | AM2 | 6,74 | 4/19 |
| EH3272K | AM2 | 1,63 | 4/21 |
| EH3296K | AM2 | 1,63 | 4/21 |
| EH3472K | AM2 | 1,63 | 4/21 |
| EH3496K | AM2 | 1,63 | 4/21 |
| EH4062K | AM2 | 2,18 | 4/20 |
| EH4064K | AM2 | 3,32 | 4/21 |
| EH4065 | AM2 | 6,74 | 4/19 |
| EH4082K | AM2 | 3,04 | 4/20 |
| EH4083K | AM2 | 4,42 | 4/21 |
| EH4085 | AM2 | 8,99 | 4/19 |
| EH5062K | AM2 | 2,70 | 4/20 |
| EH5063K | AM2 | 4,15 | 4/21 |
| EH5082K | AM2 | 3,76 | 4/20 |
| EH5084K | AM2 | 5,53 | 4/21 |
| EH6018K | AM2 | 3,22 | 4/19 |
| EH6025K | AM2 | 3,22 | 4/19 |
| EH6029K | AM2 | 4,48 | 4/19 |
| EH6036K | AM2 | 4,48 | 4/19 |
| EH6062K | AM2 | 3,22 | 4/20 |
| EH6063K | AM2 | 4,97 | 4/21 |
| EH6082K | AM2 | 4,48 | 4/20 |
| EH6084K | AM2 | 6,63 | 4/21 |
| EN0105K | AM2 | 0,09 | 4/33 |
| EN0150K | AM2 | 0,18 | 4/33 |
| EN0204K | AM2 | 0,30 | 4/33 |
| EN0250K | AM2 | 0,52 | 4/33 |
| EN0325K | AM2 | 1,00 | 4/33 |
| EN1105K | AM2 | 0,43 | 4/34 |

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| EN1150K | AM2 | 0,88 | 4/34 |
| EN1204K | AM2 | 1,02 | 4/34 |
| EN1250K | AM2 | 1,65 | 4/34 |
| EN2105K | AM2 | 0,43 | 4/34 |
| EN2150K | AM2 | 0,88 | 4/34 |
| EN2204K | AM2 | 1,02 | 4/34 |
| EN2250K | AM2 | 1,65 | 4/34 |
| EN2325K | AM2 | 3,70 | 4/34 |
| EN3325K | AM2 | 3,70 | 4/34 |
| EV1001 | AM2 | 0,70 | 4/26 |
| EV1002 | AM2 | 1,10 | 4/26 |
| EV1004 | AM2 | 0,29 | 4/25 |
| EV1005 | AM2 | 0,53 | 4/25 |
| EV1006 | AM2 | 0,63 | 4/25 |
| EV1008 | AM2 | 0,04 | 4/34 |
| EV1008 | AM2 | 0,04 | 4/37 |
| EV1036 | AM2 | 0,04 | 4/34 |
| EV1037 | AM2 | 0,04 | 4/34 |
| EV1039 | AM2 | 0,04 | 4/34 |
| EV1039 | AM2 | 0,04 | 4/37 |
| EV1040 | AM2 | 0,37 | 4/26 |
| EV1041 | AM2 | 1,10 | 4/26 |
| EV1042 | AM2 | 0,24 | 4/26 |
| EV1043 | AM2 | 0,75 | 4/26 |
| EV1044 | AM2 | 0,11 | 4/26 |
| EV1045 | AM2 | 0,24 | 4/26 |
| EV1047 | AM2 | 0,48 | 4/26 |
| EV1048 | AM2 | 0,53 | 4/26 |
| EV1049 | AM2 | 0,06 | 4/26 |
| EV1050 | AM2 | 6,88 | 4/29 |
| EV1051 | AM2 | 1,00 | 4/29 |
| EV1056 | AM2 | 0,33 | 4/29 |
| EV1058 | AM2 | 0,58 | 4/29 |
| EV1071K | AM2 | 1,57 | 4/28 |
| EV1072K | AM2 | 2,10 | 4/28 |
| EV1073K | AM2 | 2,62 | 4/28 |
| EV1075K | AM2 | 0,20 | 4/28 |
| EV1090 | AM2 | 0,46 | 4/29 |
| EV1091 | AM2 | 0,88 | 4/29 |
| EV1092 | AM2 | 0,55 | 4/29 |
| EV1093 | AM2 | 0,55 | 4/29 |
| EV1100 | AM2 | 1,15 | 4/30 |
| EV1101 | AM2 | 1,28 | 4/30 |
| EV1110 | AM2 | 2,74 | 4/30 |
| EV1111 | AM2 | 0,68 | 4/30 |
| EV1112 | AM2 | 2,74 | 4/30 |
| EV1113 | AM2 | 0,13 | 4/30 |
| EV1115 | AM2 | 0,65 | 4/30 |
| EV1116 | AM2 | 0,75 | 4/30 |
| EV1117 | AM2 | 0,67 | 4/30 |
| EV1118 | AM2 | 0,96 | 4/30 |
| EV1119 | AM2 | 3,60 | 4/30 |
| EV1120 | AM2 | 4,50 | 4/30 |
| EV1121 | AM2 | 8,85 | 4/30 |
| EV1122 | AM2 | 2,44 | 4/30 |
| EV1123 | AM2 | 2,49 | 4/30 |
| EV1124 | AM2 | 2,77 | 4/30 |
| EV1125 | AM2 | 2,77 | 4/30 |
| EV1130 | AM2 | 1,04 | 4/31 |

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| EV1131 | AM2 | 5,89 | 4/31 |
| EV1135 | AM2 | 0,24 | 4/22 |
| EV1135 | AM2 | 0,24 | 4/31 |
| EV1136 | AM2 | 0,16 | 4/22 |
| EV1136 | AM2 | 0,16 | 4/31 |
| EV1137 | AM2 | 0,24 | 4/22 |
| EV1137 | AM2 | 0,24 | 4/31 |
| EV1143 | AM2 | 0,08 | 4/27 |
| EV1144 | AM2 | 0,08 | 4/27 |
| EV1145 | AM2 | 0,08 | 4/27 |
| EV1146 | AM2 | 0,02 | 4/27 |
| EV1147 | AM2 | 0,36 | 4/27 |
| EV1148 | AM2 | 0,36 | 4/27 |
| EV1150 | AM2 | 0,10 | 4/31 |
| EV1151 | AM2 | 0,10 | 4/31 |
| EV1152 | AM2 | 0,10 | 4/31 |
| EV1153 | AM2 | 0,10 | 4/31 |
| EV1154 | AM2 | 0,10 | 4/31 |
| EV1155 | AM2 | 0,01 | 4/31 |
| EV1156 | AM2 | 0,07 | 4/31 |
| EV2110 | AM2 | 0,56 | 4/30 |
| EV2112 | AM2 | 0,56 | 4/30 |
| FOR01 | AM2 | 0,00 | 4/35 |
| FOR02 | AM2 | 0,00 | 4/35 |
| MD1000 | AM2 | 3,15 | 4/18 |
| MD1200 | AM2 | 3,70 | 4/18 |
| TA5510 | AM2 | 0,26 | 4/25 |
| TA7100 | AM2 | 0,19 | 4/25 |
| TA9600 | AM2 | 0,49 | 4/25 |
| TA9601 | AM2 | 0,97 | 4/25 |
| TC1006K | AM2 | 8,39 | 4/36 |
| TC1006KMT | AM2 | 8,39 | 4/15 |
| TC1008DK | AM2 | 6,15 | 4/36 |
| TC1008DKMT | AM2 | 6,15 | 4/15 |
| TC1008K | AM2 | 11,05 | 4/36 |
| TC1008KMT | AM2 | 11,05 | 4/15 |
| TC1008SK | AM2 | 6,91 | 4/36 |
| TC1010DK | AM2 | 7,66 | 4/36 |
| TC1010DKMT | AM2 | 7,66 | 4/15 |
| TC1010K | AM2 | 14,15 | 4/36 |
| TC1010KMT | AM2 | 14,15 | 4/15 |
| TC1010SK | AM2 | 8,65 | 4/36 |
| TC1012DK | AM2 | 8,39 | 4/36 |
| TC1012DKMT | AM2 | 8,39 | 4/15 |
| TC1012SK | AM2 | 9,09 | 4/36 |
| TC1016DK | AM2 | 11,05 | 4/36 |
| TC1016DKMT | AM2 | 11,05 | 4/15 |
| TC1016SK | AM2 | 11,74 | 4/36 |
| TC1206K | AM2 | 10,02 | 4/36 |
| TC1206KMT | AM2 | 10,02 | 4/15 |
| TC1208DK | AM2 | 7,53 | 4/36 |
| TC1208DKMT | AM2 | 7,53 | 4/15 |
| TC1208K | AM2 | 13,20 | 4/36 |
| TC1208KMT | AM2 | 13,20 | 4/15 |
| TC1208SK | AM2 | 8,25 | 4/36 |
| TC1210DK | AM2 | 9,39 | 4/36 |
| TC1210DKMT | AM2 | 9,39 | 4/15 |
| TC1210K | AM2 | 16,91 | 4/36 |
| TC1210KMT | AM2 | 16,91 | 4/15 |

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| TC1210SK | AM2 | 10,33 | 4/36 |
| TC1212DK | AM2 | 10,02 | 4/36 |
| TC1212DKMT | AM2 | 10,02 | 4/15 |
| TC1212SK | AM2 | 11,19 | 4/36 |
| TE1010K | AM2 | 13,90 | 4/37 |
| TE1012K | AM2 | 16,58 | 4/37 |
| TE1016K | AM2 | 21,94 | 4/37 |
| TE1031 | AM2 | 3,62 | 4/25 |
| TE1041 | AM2 | 5,02 | 4/25 |
| TE1060K | AM2 | 8,55 | 4/37 |
| TE1080K | AM2 | 11,22 | 4/37 |
| TE1210K | AM2 | 16,59 | 4/37 |
| TE1212K | AM2 | 19,79 | 4/37 |
| TE1260K | AM2 | 10,20 | 4/37 |
| TE1280K | AM2 | 13,39 | 4/37 |
| TE6031 | AM2 | 2,01 | 4/25 |
| TE6041 | AM2 | 2,79 | 4/25 |
| TE8031 | AM2 | 2,82 | 4/25 |
| TE8041 | AM2 | 3,90 | 4/25 |
| TE8051 | AM2 | 4,99 | 4/25 |
| TF1010K | AM2 | 14,08 | 4/14 |
| TF1010KMT | AM2 | 14,08 | 4/14 |
| TF1060K | AM2 | 9,29 | 4/14 |
| TF1060KMT | AM2 | 9,29 | 4/14 |
| TF1080K | AM2 | 11,68 | 4/14 |
| TF1080KMT | AM2 | 11,68 | 4/14 |
| TF1210K | AM2 | 17,09 | 4/14 |
| TF1210KMT | AM2 | 17,09 | 4/14 |
| TF1260K | AM2 | 11,26 | 4/14 |
| TF1260KMT | AM2 | 11,26 | 4/14 |
| TF1280K | AM2 | 14,18 | 4/14 |
| TF1280KMT | AM2 | 14,18 | 4/14 |
| TK1000 | AM2 | 2,38 | 4/24 |
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| TM2083K | AM2 | 49,00 | 4/10 |
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| TM2204VK | AM2 | 65,86 | 4/11 |
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| TM2264K | AM2 | 51,00 | 4/10 |
| TM2264VK | AM2 | 48,30 | 4/11 |
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| TP8030K | AM2 | 6,40 | 4/28 |
| TP8040K | AM2 | 7,59 | 4/28 |
| TS1003 | AM2 | 0,45 | 4/14 |
| TS1004 | AM2 | 0,64 | 4/14 |
| TS2003 | AM2 | 0,92 | 4/14 |
| TS2004 | AM2 | 1,22 | 4/14 |
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| TS4001 | AM2 | 2,50 | 4/29 |
| TS4002 | AM2 | 2,00 | 4/29 |
| TS4003 | AM2 | 2,00 | 4/29 |
| TS4004 | AM2 | 5,38 | 4/29 |
| TS4011 | AM2 | 2,00 | 4/29 |
| TS4012 | AM2 | 2,00 | 4/29 |
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| VA7910 | AM2 | 0,40 | 4/32 |
| VA7915 | AM2 | 0,55 | 4/32 |
| VA7930 | AM2 | 0,30 | 4/32 |
| VA7950 | AM2 | 0,35 | 4/32 |
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| ZN6000 | AM2 | 2,08 | 4/11 |
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| 07244 | IS2 | 41,76 | 5/94 |
| 07245 | IS2 | 61,00 | 5/94 |
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| 07247 | IS2 | 81,84 | 5/94 |
| 07855 | IS2 | 14,00 | 5/95 |
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| EF6050 | IS2 | 2,35 | 5/55 |
| EF6051 | IS2 | 1,93 | 5/55 |
| EF6052 | IS2 | 2,49 | 5/56 |
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| EF6082 | IS2 | 4,69 | 5/56 |
| EF8010 | IS2 | 8,30 | 5/55 |
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| EF8060 | IS2 | 4,50 | 5/55 |
| EF8061 | IS2 | 3,71 | 5/55 |
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| BF4002 | IS2 | 3,00 | 5/91 |
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| BF6302 | IS2 | 12,50 | 5/91 |
| BF8002 | IS2 | 19,10 | 5/91 |
| BP0630 | IS2 | 0,40 | 5/91 |
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| BP1250 | IS2 | 2,80 | 5/91 |
| BP1600 | IS2 | 2,60 | 5/91 |
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| 1STQ005329B0000 | IS2 | 16,25 | 5/49 |
| 1STQ005330B0000 | IS2 | 14,25 | 5/49 |
| 1STQ005331B0000 | IS2 | 17,25 | 5/49 |
| ET1810K | IS2 | 27,03 | 5/49 |
| ET1860K | IS2 | 16,33 | 5/49 |
| ET1880K | IS2 | 21,68 | 5/49 |
| ET2010K | IS2 | 29,99 | 5/49 |
| ET2060EMCKM | IS2 | 26,60 | 5/140 |
| ET2060K | IS2 | 18,13 | 5/49 |
| ET2080EMCKM | IS2 | 28,31 | 5/140 |
| ET2080K | IS2 | 24,06 | 5/49 |
| ET2211K | IS2 | 32,96 | 5/49 |
| ET2260K | IS2 | 19,92 | 5/49 |
| ET2280K | IS2 | 26,44 | 5/49 |
| ET2280K | IS2 | 26,44 | 5/133 |
| EV0001 | IS2 | 1,89 | 5/115 |
| EV0002 | IS2 | 1,78 | 5/74 |
| EV0003 | IS2 | 0,24 | 5/74 |
| EV0003 | IS2 | 0,24 | 5/127 |
| EV0003 | IS2 | 0,24 | 5/128 |
| EV0004 | IS2 | 0,45 | 5/85 |
| EV0005 | IS2 | 0,23 | 5/108 |
| EV0006 | IS2 | 1,22 | 5/74 |
| EV0006EMC | IS2 | 0,74 | 5/141 |
| EV0007 | IS2 | 2,25 | 5/85 |
| EV0008 | IS2 | 0,16 | 5/74 |
| EV0020 | IS2 | 0,62 | 5/88 |
| EV0021 | IS2 | 0,72 | 5/88 |
| EV0022 | IS2 | 0,90 | 5/88 |
| EV0024 | IS2 | 0,50 | 5/89 |
| EV0026 | IS2 | 0,35 | 5/89 |
| EV0035 | IS2 | 0,75 | 5/89 |
| EV0036 | IS2 | 0,20 | 5/89 |
| EV0037 | IS2 | 0,35 | 5/89 |
| EV0041 | IS2 | 6,85 | 5/88 |
| EV0042 | IS2 | 0,25 | 5/89 |
| EV0050 | IS2 | 0,35 | 5/57 |
| EV0058 | IS2 | 5,20 | 5/105 |
| EV0061 | IS2 | 1,20 | 5/105 |
| EV0063 | IS2 | 1,10 | 5/109 |
| EV0064 | IS2 | 1,50 | 5/109 |
| EV0068 | IS2 | 0,92 | 5/93 |
| EV0069 | IS2 | 0,92 | 5/93 |
| EV0070 | IS2 | 0,68 | 5/96 |
| EV0071 | IS2 | 0,83 | 5/96 |
| EV0081 | IS2 | 0,35 | 5/89 |
| EV0101 | IS2 | 0,03 | 5/106 |
| EV0102 | IS2 | 0,30 | 5/85 |
| EV0102 | IS2 | 0,30 | 5/115 |
| EV0103 | IS2 | 0,50 | 5/85 |
| EV0103 | IS2 | 0,50 | 5/115 |
| EV0104 | IS2 | 0,50 | 5/85 |
| EV0104 | IS2 | 0,50 | 5/115 |
| EV0108 | IS2 | 0,55 | 5/93 |
| EV0109 | IS2 | 0,75 | 5/93 |

| Code | Structure | Weight Kg | Page |
|---------|-----------|-----------|-------|
| EV0110 | IS2 | 0,40 | 5/93 |
| EV0111 | IS2 | 0,35 | 5/93 |
| EV0112 | IS2 | 0,95 | 5/93 |
| EV0114 | IS2 | 0,95 | 5/58 |
| EV0116 | IS2 | 0,95 | 5/58 |
| EV0117 | IS2 | 0,75 | 5/58 |
| EV0118 | IS2 | 16,12 | 5/47 |
| EV0119 | IS2 | 0,20 | 5/58 |
| EV0120 | IS2 | 17,87 | 5/47 |
| EV0121 | IS2 | 0,20 | 5/58 |
| EV0122 | IS2 | 19,35 | 5/47 |
| EV0123 | IS2 | 0,20 | 5/58 |
| EV0124 | IS2 | 0,20 | 5/58 |
| EV0125 | IS2 | 0,13 | 5/58 |
| EV0126 | IS2 | 0,13 | 5/58 |
| EV0127 | IS2 | 0,13 | 5/58 |
| EV0128 | IS2 | 0,25 | 5/89 |
| EV0132 | IS2 | 1,33 | 5/57 |
| EV0133 | IS2 | 1,50 | 5/57 |
| EV0134 | IS2 | 1,66 | 5/57 |
| EV0135 | IS2 | 1,58 | 5/57 |
| EV0136 | IS2 | 1,75 | 5/57 |
| EV0137 | IS2 | 1,91 | 5/57 |
| EV0400 | IS2 | 2,75 | 5/88 |
| EV0600 | IS2 | 3,90 | 5/88 |
| EV0800 | IS2 | 5,10 | 5/88 |
| EV1000 | IS2 | 0,48 | 5/107 |
| EV1001 | IS2 | 0,70 | 5/98 |
| EV1002 | IS2 | 1,10 | 5/98 |
| EV1004 | IS2 | 0,29 | 5/111 |
| EV1005 | IS2 | 0,53 | 5/111 |
| EV1006 | IS2 | 0,63 | 5/111 |
| EV1007 | IS2 | 2,75 | 5/111 |
| EV1008 | IS2 | 0,04 | 5/106 |
| EV1008 | IS2 | 0,04 | 5/113 |
| EV1030 | IS2 | 0,30 | 5/106 |
| EV1030 | IS2 | 0,30 | 5/113 |
| EV1036 | IS2 | 0,04 | 5/106 |
| EV1037 | IS2 | 0,04 | 5/106 |
| EV1039 | IS2 | 0,04 | 5/106 |
| EV1039 | IS2 | 0,04 | 5/113 |
| EV1040 | IS2 | 0,37 | 5/98 |
| EV1041 | IS2 | 1,10 | 5/98 |
| EV1042 | IS2 | 0,24 | 5/98 |
| EV1043 | IS2 | 0,75 | 5/98 |
| EV1044 | IS2 | 0,11 | 5/98 |
| EV1045 | IS2 | 0,24 | 5/98 |
| EV1047 | IS2 | 0,48 | 5/98 |
| EV1048 | IS2 | 0,53 | 5/98 |
| EV1049 | IS2 | 0,06 | 5/98 |
| EV1050 | IS2 | 6,88 | 5/110 |
| EV1051 | IS2 | 1,00 | 5/110 |
| EV1056 | IS2 | 0,33 | 5/110 |
| EV1057 | IS2 | 1,25 | 5/115 |
| EV1058 | IS2 | 0,58 | 5/110 |
| EV1060K | IS2 | 1,62 | 5/108 |
| EV1061K | IS2 | 2,39 | 5/108 |
| EV1071K | IS2 | 1,57 | 5/108 |
| EV1072K | IS2 | 2,10 | 5/108 |

| Code | Structure | Weight Kg | Page |
|---------|-----------|-----------|-------|
| EV1073K | IS2 | 2,62 | 5/108 |
| EV1075K | IS2 | 0,20 | 5/108 |
| EV1081 | IS2 | 2,34 | 5/107 |
| EV1082 | IS2 | 1,96 | 5/107 |
| EV1083 | IS2 | 2,26 | 5/107 |
| EV1085 | IS2 | 4,51 | 5/107 |
| EV1087 | IS2 | 8,68 | 5/107 |
| EV1090 | IS2 | 0,46 | 5/96 |
| EV1091 | IS2 | 0,88 | 5/96 |
| EV1092 | IS2 | 0,55 | 5/96 |
| EV1093 | IS2 | 0,55 | 5/96 |
| EV1100 | IS2 | 1,15 | 5/92 |
| EV1100 | IS2 | 1,15 | 5/115 |
| EV1101 | IS2 | 1,28 | 5/92 |
| EV1101 | IS2 | 1,28 | 5/115 |
| EV1102 | IS2 | 3,10 | 5/115 |
| EV1103 | IS2 | 1,20 | 5/115 |
| EV1110 | IS2 | 2,74 | 5/96 |
| EV1111 | IS2 | 0,68 | 5/96 |
| EV1112 | IS2 | 2,74 | 5/96 |
| EV1113 | IS2 | 0,13 | 5/96 |
| EV1115 | IS2 | 0,65 | 5/92 |
| EV1116 | IS2 | 0,75 | 5/92 |
| EV1117 | IS2 | 0,67 | 5/92 |
| EV1118 | IS2 | 0,96 | 5/92 |
| EV1119 | IS2 | 3,60 | 5/92 |
| EV1120 | IS2 | 4,50 | 5/92 |
| EV1121 | IS2 | 8,85 | 5/92 |
| EV1122 | IS2 | 2,44 | 5/92 |
| EV1123 | IS2 | 2,49 | 5/92 |
| EV1124 | IS2 | 2,77 | 5/92 |
| EV1125 | IS2 | 2,77 | 5/92 |
| EV1130 | IS2 | 1,04 | 5/92 |
| EV1131 | IS2 | 5,89 | 5/92 |
| EV1135 | IS2 | 0,24 | 5/82 |
| EV1136 | IS2 | 0,16 | 5/82 |
| EV1137 | IS2 | 0,24 | 5/82 |
| EV1140 | IS2 | 0,19 | 5/99 |
| EV1143 | IS2 | 0,08 | 5/99 |
| EV1144 | IS2 | 0,08 | 5/99 |
| EV1144 | IS2 | 0,08 | 5/99 |
| EV1145 | IS2 | 0,08 | 5/99 |
| EV1145 | IS2 | 0,08 | 5/99 |
| EV1146 | IS2 | 0,02 | 5/99 |
| EV1147 | IS2 | 0,36 | 5/99 |
| EV1148 | IS2 | 0,36 | 5/99 |
| EV1150 | IS2 | 0,10 | 5/112 |
| EV1151 | IS2 | 0,10 | 5/112 |
| EV1152 | IS2 | 0,10 | 5/112 |
| EV1153 | IS2 | 0,10 | 5/112 |
| EV1154 | IS2 | 0,10 | 5/112 |
| EV1155 | IS2 | 0,01 | 5/112 |
| EV1156 | IS2 | 0,07 | 5/112 |
| EV1157 | IS2 | 0,24 | 5/112 |
| EV1160 | IS2 | 0,85 | 5/108 |
| EV1385 | IS2 | 2,65 | 5/89 |
| EV1802 | IS2 | 1,74 | 5/113 |
| EV2002 | IS2 | 1,93 | 5/113 |
| EV2110 | IS2 | 0,56 | 5/96 |

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|--------|-----------|-----------|------|
| 05 019 | Canaline | 0,11 | 7/6 |
| 05 033 | Canaline | 0,29 | 7/6 |
| 05 035 | Canaline | 0,33 | 7/6 |
| 05 037 | Canaline | 0,45 | 7/6 |
| 05 043 | Canaline | 0,33 | 7/6 |
| 05 045 | Canaline | 0,40 | 7/6 |
| 05 047 | Canaline | 0,47 | 7/6 |
| 05 049 | Canaline | 0,64 | 7/6 |
| 05 051 | Canaline | 0,88 | 7/6 |
| 05 053 | Canaline | 0,97 | 7/6 |
| 05 063 | Canaline | 0,42 | 7/6 |
| 05 065 | Canaline | 0,49 | 7/6 |
| 05 067 | Canaline | 0,63 | 7/6 |
| 05 069 | Canaline | 0,83 | 7/6 |
| 05 071 | Canaline | 0,94 | 7/6 |
| 05 073 | Canaline | 1,21 | 7/6 |
| 05 083 | Canaline | 0,51 | 7/6 |
| 05 085 | Canaline | 0,57 | 7/6 |
| 05 087 | Canaline | 0,69 | 7/6 |
| 05 089 | Canaline | 0,84 | 7/6 |
| 05 091 | Canaline | 1,04 | 7/6 |
| 05 093 | Canaline | 1,25 | 7/6 |
| 05 094 | Canaline | 0,61 | 7/6 |
| 05 095 | Canaline | 0,66 | 7/6 |
| 05 096 | Canaline | 0,90 | 7/6 |
| 05 097 | Canaline | 1,04 | 7/6 |
| 05 098 | Canaline | 1,10 | 7/6 |
| 05 099 | Canaline | 1,81 | 7/6 |
| 05 119 | Canaline | 0,11 | 7/6 |
| 05 133 | Canaline | 0,29 | 7/6 |
| 05 135 | Canaline | 0,33 | 7/6 |
| 05 137 | Canaline | 0,45 | 7/6 |
| 05 143 | Canaline | 0,33 | 7/6 |
| 05 145 | Canaline | 0,40 | 7/6 |
| 05 147 | Canaline | 0,47 | 7/6 |
| 05 149 | Canaline | 0,64 | 7/6 |
| 05 151 | Canaline | 0,88 | 7/6 |
| 05 153 | Canaline | 0,97 | 7/6 |
| 05 163 | Canaline | 0,42 | 7/6 |
| 05 165 | Canaline | 0,49 | 7/6 |
| 05 167 | Canaline | 0,63 | 7/6 |
| 05 169 | Canaline | 0,83 | 7/6 |
| 05 171 | Canaline | 0,94 | 7/6 |
| 05 173 | Canaline | 1,21 | 7/6 |
| 05 183 | Canaline | 0,51 | 7/6 |
| 05 185 | Canaline | 0,57 | 7/6 |
| 05 187 | Canaline | 0,69 | 7/6 |
| 05 189 | Canaline | 0,84 | 7/6 |
| 05 191 | Canaline | 1,04 | 7/6 |
| 05 193 | Canaline | 1,25 | 7/6 |
| 05 194 | Canaline | 0,61 | 7/6 |
| 05 195 | Canaline | 0,66 | 7/6 |
| 05 196 | Canaline | 0,90 | 7/6 |
| 05 197 | Canaline | 1,04 | 7/6 |
| 05 198 | Canaline | 1,10 | 7/6 |
| 05 199 | Canaline | 1,81 | 7/6 |
| 05 214 | Canaline | 0,01 | 7/9 |

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| 05 216 | Canaline | 0,01 | 7/9 |
| 05 224 | Canaline | 0,01 | 7/9 |
| 05 226 | Canaline | 0,01 | 7/9 |
| 05 228 | Canaline | 0,01 | 7/9 |
| 05 230 | Canaline | 0,01 | 7/9 |
| 05 240 | Canaline | 0,00 | 7/9 |
| 05 250 | Canaline | 0,02 | 7/8 |
| 05 252 | Canaline | 0,01 | 7/8 |
| 05 254 | Canaline | 0,01 | 7/8 |
| 05 256 | Canaline | 0,02 | 7/8 |
| 05 258 | Canaline | 0,02 | 7/8 |
| 05 260 | Canaline | 0,02 | 7/8 |
| 05 262 | Canaline | 0,02 | 7/8 |
| 05 265 | Canaline | 0,45 | 7/9 |
| 05 266 | Canaline | 0,45 | 7/9 |
| 05 268 | Canaline | 0,45 | 7/9 |
| 05 270 | Canaline | 0,30 | 7/8 |
| 05 272 | Canaline | 0,20 | 7/8 |
| 05 274 | Canaline | 0,20 | 7/8 |
| 05 276 | Canaline | 0,36 | 7/8 |
| 05 278 | Canaline | 0,36 | 7/8 |
| 05 280 | Canaline | 0,42 | 7/8 |
| 05 282 | Canaline | 0,40 | 7/8 |
| 05 300 | Canaline | 0,03 | 7/6 |
| 05 302 | Canaline | 0,11 | 7/6 |
| 05 304 | Canaline | 0,13 | 7/6 |
| 05 306 | Canaline | 0,24 | 7/6 |
| 05 308 | Canaline | 0,33 | 7/6 |
| 05 310 | Canaline | 0,35 | 7/6 |
| 05 312 | Canaline | 0,42 | 7/6 |
| 05 314 | Canaline | 0,58 | 7/6 |
| 05 400 | Canaline | 0,01 | 7/7 |
| 05 402 | Canaline | 0,01 | 7/7 |
| 05 405 | Canaline | 0,02 | 7/7 |
| 05 410 | Canaline | 0,03 | 7/7 |
| 05 415 | Canaline | 0,04 | 7/7 |
| 05 420 | Canaline | 0,07 | 7/7 |
| 05 425 | Canaline | 0,10 | 7/7 |
| 1SL5316A00 | Canaline | 0,03 | 7/5 |
| 1SL5317A00 | Canaline | 0,09 | 7/5 |
| 1SL5318A00 | Canaline | 0,13 | 7/5 |
| 1SL5319A00 | Canaline | 0,24 | 7/5 |
| 1SL5320A00 | Canaline | 0,33 | 7/5 |
| 1SL5321A00 | Canaline | 0,28 | 7/5 |
| 1SL5322A00 | Canaline | 0,42 | 7/5 |
| 1SL9019A00 | Canaline | 0,08 | 7/5 |
| 1SL9033A00 | Canaline | 0,24 | 7/5 |
| 1SL9035A00 | Canaline | 0,29 | 7/5 |
| 1SL9037A00 | Canaline | 0,37 | 7/5 |
| 1SL9043A00 | Canaline | 0,25 | 7/5 |
| 1SL9045A00 | Canaline | 0,33 | 7/5 |
| 1SL9047A00 | Canaline | 0,43 | 7/5 |
| 1SL9049A00 | Canaline | 0,49 | 7/5 |
| 1SL9051A00 | Canaline | 0,63 | 7/5 |
| 1SL9053A00 | Canaline | 0,74 | 7/5 |
| 1SL9063A00 | Canaline | 0,33 | 7/5 |
| 1SL9065A00 | Canaline | 0,39 | 7/5 |

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