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Insulating enclosures and installation material



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In consideration of modifications to Standards and materials,
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Presentation

General

ABB presents a very extensive range of consumer units and switchboards for the simple installation of modular components, made even faster today as a result of the rapid Unifix cabling system. This wide choice makes it possible to satisfy the requirements of a whole group of applications, and the Unibox consumer units, in particular, have a modern design that fits in perfectly with almost any type of environment and decor.



The switchboards in the Livorno series, in particular, satisfy requirements arising in emergency situations where a rapid and efficient control to halt the circuit is necessary. A wide range of empty enclosures and control devices are also available for creating the terminal section of an electric plant. These are designed to be installed with rigid and protective conduits.

Some of the different boxes supplied by ABB satisfy the requirement of an electric circuit to be safe even under the most difficult environmental conditions; to this end, water-proof boxes are available, that guarantee complete protection for branch connection and also for mounting devices. It should be noted that many of the series of enclosures are fitted with a flange in bi-material for facilitated branch connection.



Presentation

General

The switchboards in the Marostica series, designed to accommodate the main IEC 309-1 plug models on the market, complete the range of protected and water proof enclosures for mounting and protecting modular components. Due to their structural and safety characteristics they are particularly suitable for environments such as warehouses, green-houses, commercial installations, fairs, hospitals, community buildings, work-sites,

electric material are in line with the same quality standards as the main components. A wide assortment of junction boxes, metal section bars, cable-ties, fixing accessories and cabling is available, allowing the user to make the most appropriate choice in any application situation to create a circuit that is always perfect.

In the following pages we present the main characteristics of



sports facilities etc.

An electric circuit is "state-of-the-art" when all its details have been designed specifically to guarantee the maximum safety of the people who will use it as well as the operating reliability of the plant itself. For this reason also the minor components and accessories supplied by ABB for the correct installation of the

some of the most important innovations introduced by ABB

- Unibox consumer units
- Flange in bi-material
- Unifix cabling system



Unibox IP 40 Series wall-mounting consumer units

A new idea for installation in residential environments and in the tertiary sector

Many advantages at a more than competitive price

- snap-on components and accessories, quickly mounted without screws;
- modular, snap-on frame that is easy to extract and ideal for bench installation;
- frame that can be positioned at the bottom of the consumer unit and kept at an angle by practical hook wires, making it possible to keep the cables in order and to rationalise the paths easily, using the available space;
- cover fixed with rapid-pitch screws (easy to seal if necessary) so that installation can be carried out quickly even on surfaces that are not perfectly regular;
- entire range designed to be used with the Unifix SL rapid cabling system;
- possibility of mounting terminal boxes at the top or at the bottom, with the snap-on method;
- alignment system to make it easy to position the trunking;
- maximum versatility in trunking (trimmed) and conduits (flange for conduits up to 40 mm in diameter) branch connections;
- designed also for corrugated conduits arriving from the wall;
- possibility of branch connection in batteries of more than one consumer unit;
- consumer units already fitted with fixing accessories (screws and wall plugs);
- possibility of mounting an extra module for every row of circuit breakers.

Unibox consumer units bear the IMQ mark in compliance with CEI 23-48 and CEI 23-49 standards; they also comply with the German Standard DIN 43871 and are:

- made in thermoplastic material, resistant to the glow wire test up to 750°C;
- with dimensional stability from -25°C to +85°C and with a resistance to impact of 10 Joule (equivalent of grade IK 09);
- equipped with a special cover for holes used to fix the unit to the wall, guaranteeing double, total insulation;
- fitted with accessories for keeping cabling in order and for blocking incoming and outgoing cables;
- fitted with spring-operating doors, with a push-pull system, designed for a lock with key;
- equipped with a film protected door.

Modular, snap-on frame that is easy to extract and ideal for bench installation.



Fitted with accessories for keeping cabling in order and for blocking incoming and outgoing cables.



Unibox IP 40 Series wall-mounting consumer units

A new idea for installation in residential environments and in the tertiary sector



Maximum versatility in trunking (trimmed) and conduits (flange for conduits up to 40 mm in diameter) branch connections.



An article with innovative but discrete and simple lines that cannot be mistaken

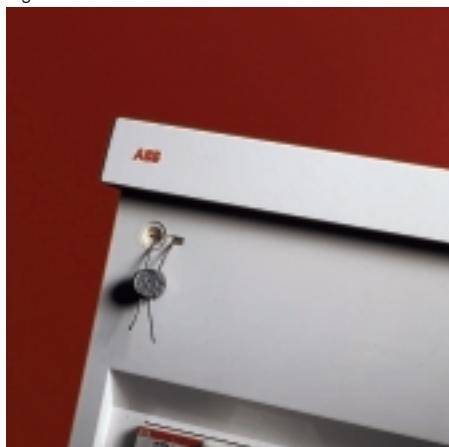
- a product with a distinguished design, available in modern white RAL 9016 or in the more traditional RAL 7035 grey
- perfectly suitable for installation in the home or in the workplace, the products are available without a door or with a single transparent smoked or opaque door in models with one, two or three rows
- a surface that is slightly curved and two slightly converging lines, to enclose the best low voltage solutions.

1

Fitted with spring-operating doors, with a push-pull system, designed for a lock with key.



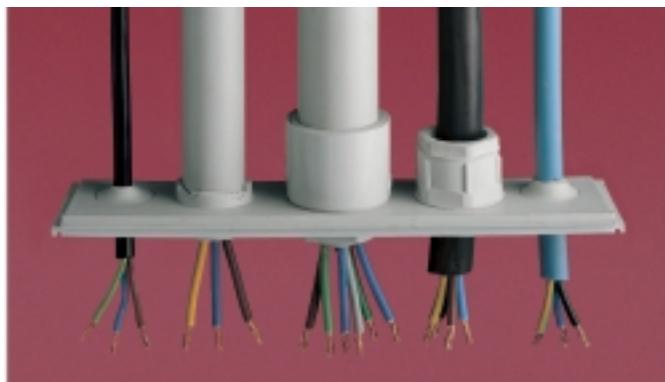
Cover fixed with rapid-pitch screws (easy to seal if necessary) so that installation can be carried out quickly even on surfaces that are not perfectly regular.



Alignment system to make it easy to position the trunking.



Consumer units with flange in bi-material for facilitated branch connections



1

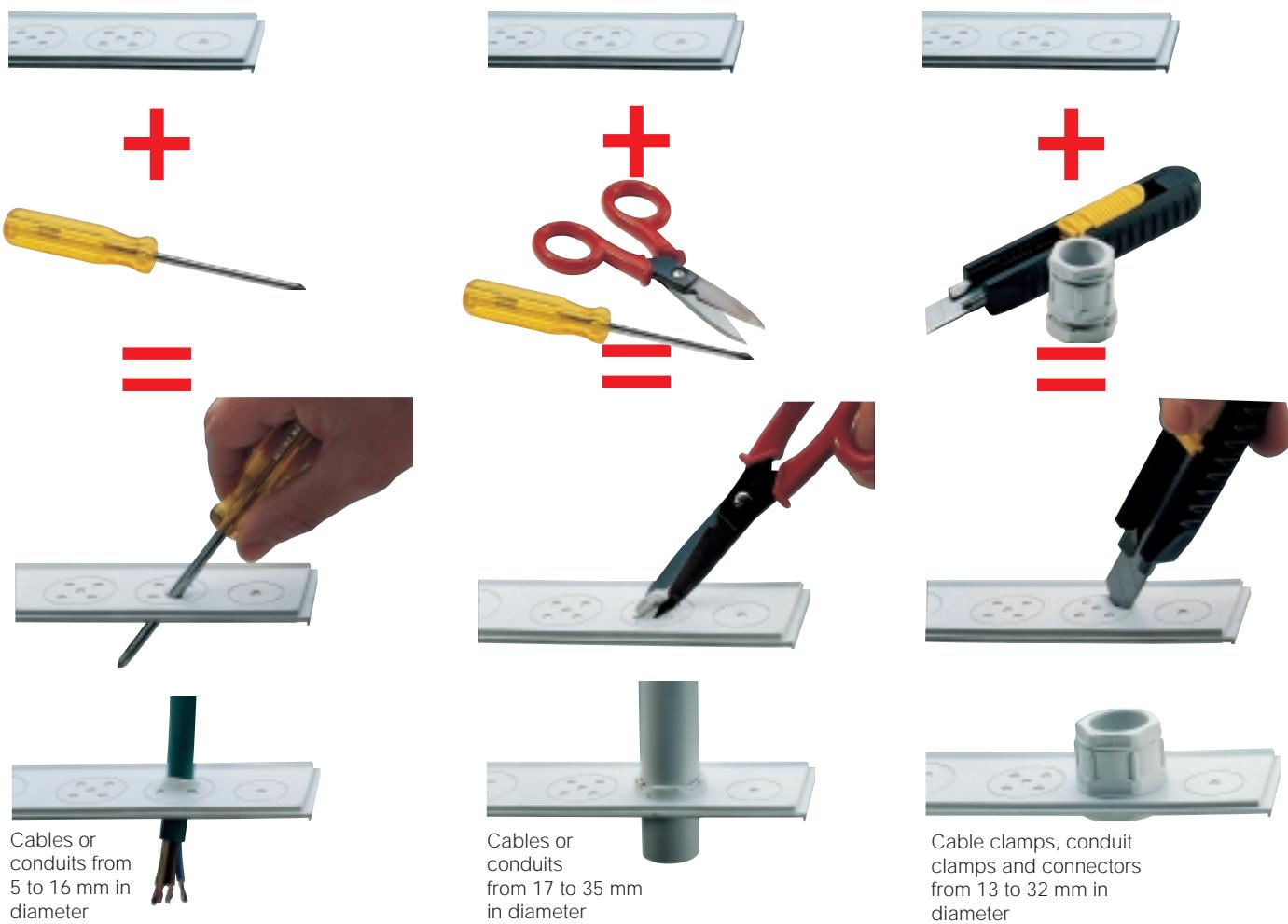
Creating branch connections is no longer a problem

A cutter or a pair of scissors and off you go: the branch connection is already finished. Do you want to use a conduit clamp or a cable clamp? Or do you prefer to insert the pipe on its own or directly with the cable? It doesn't make any difference. Drills or cutters are no longer necessary with ABB consumer units fitted with the new flange in bi-material. The whole operation is carried out in the simplest possible way, very quickly and without extra costs, because, if you like, the conduit clamp or

the cable clamp are no longer required!

The new flange is fitted to the polycarbonate consumer units in the Europa Series: Europa Polycarbonate IP 65, Fly IP 65 and Europa Polycarbonate IP40 Series consumer units. Installation is quicker and more profitable: while the structure of the flange itself is, in fact, made in rigid material, the inlets are in a soft material (rubber). Branch connections with a cable or cable conduit or with a conduit and conduit clamp are made in just a couple of seconds by a small hole or incision. Just follow the simple instructions and cut in the right place. Whatever system you choose, the high degree of protection from dust and liquids remains the same: IP 65 for consumer units with a door and IP 40 for those without. Another advantage is the fact that the flange can be pulled out of the consumer units, and therefore preparation work can be carried out conveniently. Branch connections made with the flange in bi-material are more economically advantageous because they reduce installation times, plus the fact that, because the price of the consumer units is the same as traditional ones, in applications using just the conduit or the cable there is a net saving in the cost of the conduit or cable clamp.

Quick installation, freedom of choice, advantageous prices, these are the new opportunities that the new facilitated branch connection system offer to installers.



Consumer units with flange in bi-material for facilitated branch connections

1

Many opportunities are offered

- **Guarantee of IP 65 degree of protection**

In direct branch connection the elastic properties of the flange rubber guarantee that it adheres completely to the plastic of the conduit or the cable sheath

- **Economic advantage**

By branch connecting directly with the cable or conduit you have a net saving in the cost of the conduit/cable clamp

- **Installation speed**

Make a hole or a cut in the soft part and the flange is ready to connect directly with the conduit/cable

- **Versatility of connection systems**

This system gives you great freedom of choice in deciding whether to connect directly with the conduit/cable or to use the cable/conduit clamp



Because the flanges are so easy to pull out, the job of installing consumer units can be carried out quickly and it also makes it possible to replace them in the future should shock requirements change.

Innovative constructional characteristics

- **Rigid plastic**

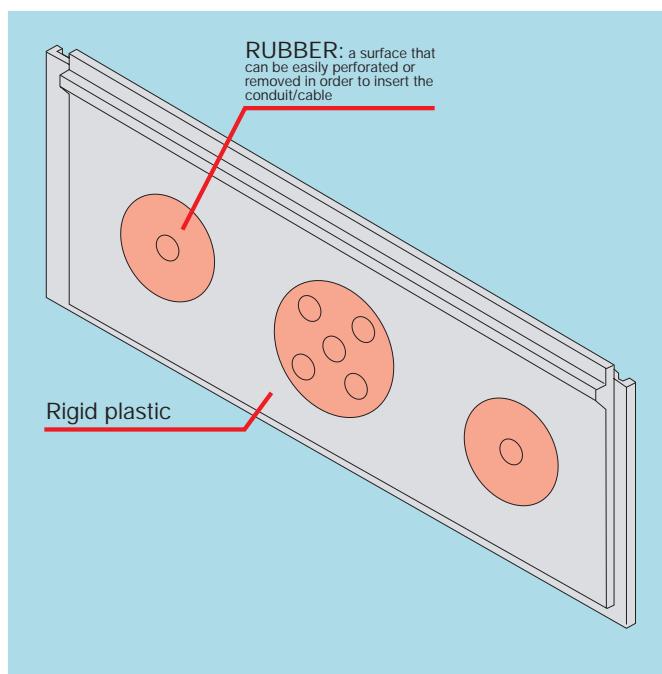
Makes the structure very strong

- **Soft plastic (rubber)**

Makes it easy to insert the conduits or cables, guaranteeing IP 65 degree of protection

- **Rubber-covered surface**

The whole flange is covered with a layer of rubber which, thanks to its practical snap-on mechanism, adheres perfectly to the consumer units, guaranteeing IP 65 degree of protection



In the new flange, installed on ABB polycarbonate consumer units, the soft part is pressed together with the unit (i.e. it is not made separately and then applied).

The rubber is therefore strongly connected to the plastic structure guaranteeing a perfect seal against dust and water, even protecting it from the entry of jets of water coming from any direction (IP 65 in compliance with CEI 70-1 – IEC 529 Standards).

Unifix

The new ABB cabling system for consumer units and switchboards

A new product from ABB that makes the work of installers and panel builders easier, making it possible to build a perfect "switchboard" component inside electric distribution plants. In the L and SL versions the Unifix system makes it simple, fast and safe to cable all modular System pro M devices inside ABB consumer units. Unifix has been specially designed so that it can be inserted in the ABB low voltage distribution system, and therefore fully exploits the perfect integration of ABB products coming from the different divisions, optimising the choice of components and the installation and cabling of electric switchboards. The basic characteristic of this innovative system is the fact that the standardisation of cabling components (which means a low cost for the user, easy availability of the components and maximum safety) results in a system that is completely flexible. In fact, all the most common applications can be accurately sized, using Unifix, without any limitations on the types or the combinations of devices that can be installed.

These are the most significant advantages of the Unifix system



Cabling time

Cabling time is considerably reduced by using Unifix. You do not need to use cables to supply the power to each device because rigid, snap-on connectors, standardised for the various types of devices, are used.



Safety

Unifix is a step forward in the standardisation of low voltage electric switchboards: in fact, the rigid connectors make it possible to extend the results of the type tests (temperature rise and short circuit) to the input cabling of devices produced by ABB.



Economy

(in terms of installation and maintenance)

Thanks to the reduction in operating time, material (wires and cable terminals) and space, you can obtain a more advanced technical solution compared with traditional cabling, with a considerable cost saving.



Use of standard devices

Unifix can be applied to all ABB devices and therefore does not require any changes, additional accessories or special or modified equipment.



Variable step

Unlike the traditional cabling combs, Unifix uses variable step: therefore, circuit breakers with different polarities can be installed on the same row as auxiliary elements. This characteristic means that the system is totally flexible and can be used on all low voltage distribution switchboards, without any limitation to the layout or type of devices installed.

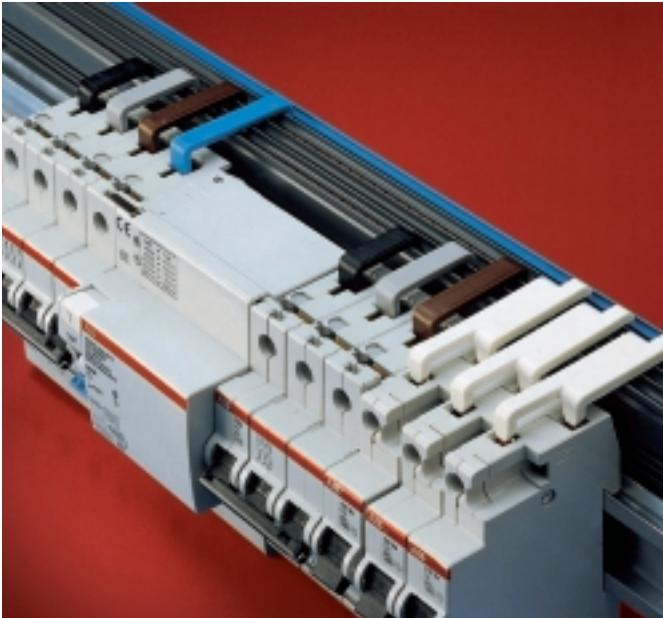
Unifix

The new ABB cabling system for consumer units and switchboards

Unifix L series

This version is dedicated to cabling modular devices in the System pro M series both inside ArTu® ABB switchboards and ABB polycarbonate consumer units.

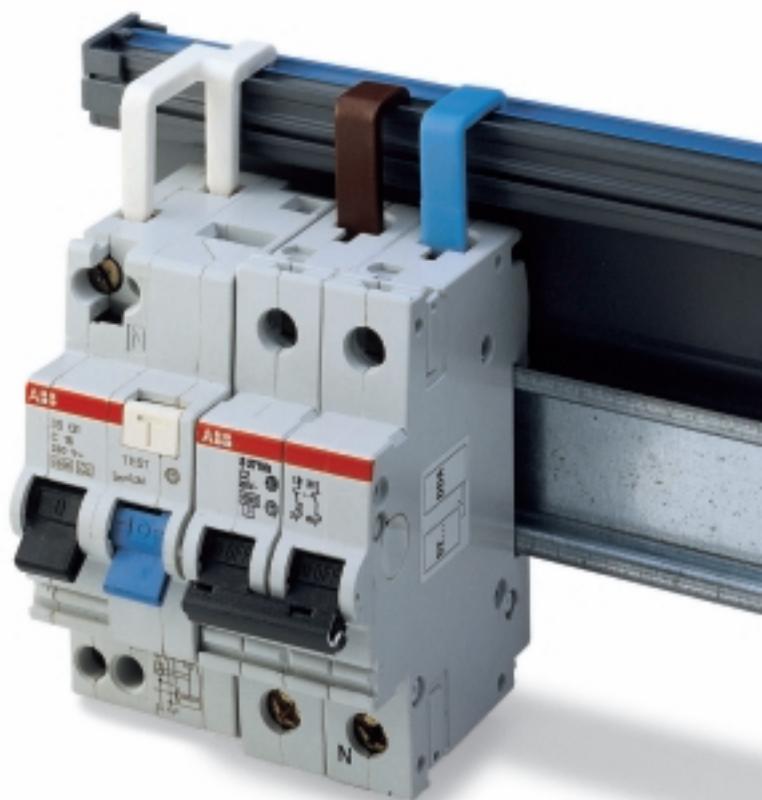
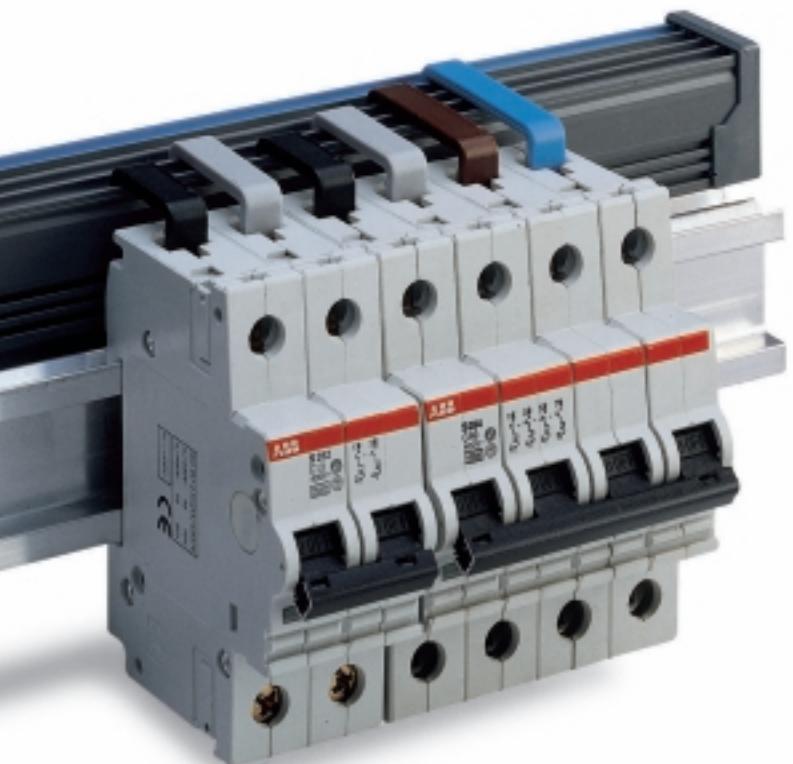
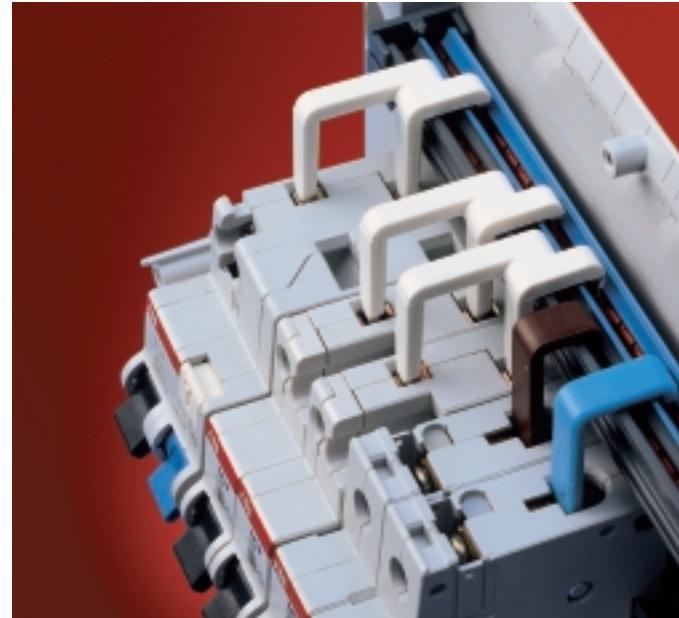
For rated currents up to 100 A and short circuit currents up to 25 kA.



Unifix SL series

A simplified version of the L version for cabling modular, bi-polar devices of the System pro M series inside ABB consumer units in thermoplastic material.

For rated currents up to 40 A and short circuit currents up to 10 kA.



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Consumer units

Summary table

IP 40 flush-mounting consumer units

IP 40 wall-mounting consumer units

Estetica Series
residential application

Europa Series
residential application

Unibox Series
residential/tertiary application

Europa Series
residential/tertiary application



Without door

With transparent, smoky, horizontally hinged door

With opaque, vertically hinged door

With transparent, smoky, vertically hinged door

Without door

With opaque, vertically hinged door

With transparent, smoky, vertically hinged door

Without door

With opaque, vertically hinged door

RAL 9001 white

RAL 9001 white
RAL 7024 grey

RAL 9001 white
RAL 7035 grey

RAL 9001 white
RAL 7035 grey

RAL 9001 white
RAL 7035 grey

RAL 9016 white
RAL 7035 grey

RAL 9016 white
RAL 7035 grey

white RAL 9001
RAL 7035 grey

white RAL 9001
RAL 7035 grey

Modules

2

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3

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4

12 004 12 024-12 037

160x180x82

160x180x90

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6

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8

12 008 12 028-12 038

230x180x82

230x180x90

12 040-12 026

230x180x90

12 057-12 058

230x180x90

12 208-12 228

215x220x105

12 238-12 248

215x220x105

12 258-12 268

215x220x105

12 408-12 428

230x200x95

12 438-12 448

230x200x95

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10

--	--	--	--	--	--	--	--	--	--

12

12 012 12 032-12 042

300x180x82

300x180x90

12 041-12 027

300x180x90

12 061-12 062

300x180x90

12 212-12 232

295x245x115

12 242-12 252

295x245x115

12 262-12 272

295x245x115

12 412-12 432

305x200x95

12 442-12 452

305x200x95

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18

12 013 12 033-12 043

410x180x82

410x180x90

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20

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24

12 014 12 034-12 044

300x395x92

300x395x100

12 045-12 030

300x395x90

12 063-12 064

300x395x90

12 214-12 234

295x390x115

12 244-12 254

295x390x115

12 264-12 274

295x390x115

12 414-12 434

305x350x95

12 444-12 454

305x350x95

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36

12 016 12 036-12 046

300x545x92

300x545x100

12 048-12 031

300x545x90

12 065-12 066

300x545x90

12 216-12 236

295x515x115

12 246-12 256

295x515x115

12 266-12 276

295x515x115

12 416-12 436

305x500x120

12 446-12 456

305x500x120

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54

-

12 052-12 035

410x545x100

12 067-12 068

410x545x100

12 217-12 237

405x515x115

12 247-12 257

405x515x115

12 267-12 277

405x515x115

12 417-12 437

305x570x120

12 447-12 457

305x570x120

Consumer units

Summary table

IP 40 flush-mounting consumer units		IP 55 and IP 65 wall-mounting consumer units					Fronts		
Europa Series residential/ tertiary application	Europa Polyc. Series tertiary/ industrial application	Wall covers residential/ tertiary application	IP 55 Europa Series tertiary/industrial application	Fly IP65 Polyc. Series residential/ tertiary/ industrial application	IP55 Europa Polycarbonate Series residential/tertiary/ industrial application		IP 40 and IP 55 panel fronts tertiary/industrial application		
									
With transparent, smoky, vertically hinged door	Without door	Without door	Spring closing	Key lock	With transparent door	With opaque, vertically hinged door	With transparent, smoky, vertically hinged door	Panel fronts	
RAL 9001 white RAL 7035 grey	RAL 7035 grey	RAL 9001 white RAL 7035 grey	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey 2-4 moduli	(*)opaque door 100x160x100		IP 40 IP 55	
-	12 702 100x160x85	12 402-12 422 50x140x65	-	-	12 742-12 722^(*) 100x160x100	-	-	12 362 81x90x50	
-	-	-	-	-	-	-	-	12 363 99x90x50	
-	12 704 140x220x110	12 404-12 424 95x160x65	12 644 125x180x105	12 684 125x180x105	-	12 724 140x220x140	12 744 140x220x140	12 364 117x90x50	12 658 125x180x34
-	-	12 406-12 426 140x160x65	12 646 160x180x105	12 686 160x180x105	-	-	-	12 659 160x180x34	
12 458-12 468 230x200x95	12 708 205x220x110	-	-	-	12 743 205x220x140	12 728 205x220x140	12 748 205x220x140	-	
-	-	-	12 650 280x130x105	12 690 230x180x105	-	-	-	12 660 230x180x34	
12 462-12 472 305x200x95	12 712 275x220x110	-	-	-	12 745 275x220x140	12 732 275x220x140	12 752 275x220x140	-	
-	-	-	-	-	-	12 733 380x220x140	12 753 380x220x140	-	
-	-	-	12 652 250x230x135	12 692 150x230x135	-	-	-	-	
12 464-12 474 305x350x95	12 714 275x370x110	-	-	-	12 746 275x370x140	12 734 275x370x140	12 754 275x370x140	-	
12 466-12 476 305x500x120	12 716 275x570x110	-	-	-	12 747 275x570x140	12 735 380x370x140	12 755 380x370x140	-	
12 467-12 477 305x570x120	12 718 380x570x120	-	-	-	-	12 738 380x570x140	12 758 380x570x140	-	

Residential application



IMQ mark
in compliance with CEI 23-48 and 23-49 Standards

IP 40 flush-mounting consumer units

Estetica Series

Technical characteristics

- degree of protection IP 40
- insulation class II □
- available in 3 versions: without door colour RAL 9001 white and with transparent, smoky door with horizontal hinge
- colour RAL 9001 white and RAL 7024 grey
- available in the following material:
 - RAL 9001 white thermoplastic, self-extinguishing in compliance with UL 94 V-O Standard and resistant to abnormal heat and fire up to 960°C (glow wire test) in compliance with IEC 695-2-1 Standard
 - RAL 7024 grey thermoplastic, self-extinguishing in compliance with UL 94 V-O Standard and resistant to abnormal heat and fire up to 650°C (glow wire test) in compliance with IEC 695-2-1 Standard
- resistant to chemical agents (water, saline solutions, acids, mineral bases and oils), atmospheric agents and UV rays
- dimensional stability under constant operating conditions from -20° to +85° C
- resistance to impacts 6 joules
- flush-mounting enclosure fitted with push-in inlets for inserting corrugated, protective conduits

- extractable DIN rail frame to facilitate bench cabling
- consumer units manufactured to compensate for any imperfections during installation (thanks to slots at the points where the front parts are hooked on)
- models with eight modules and more designed for the use of the UNIFIX SL fast-cabling system
- personalised finish on request (bur, marble, patterned etc.)
- consumer units manufactured in compliance with CEI 23-48, CEI 23-49 and IEC 670 Standards
- consumer units supplied complete with:
 - aesthetic flanges for covering the housing door holes (2 flanges supplied for each door)
 - 4 module covers per row
 - 1 self-adhesive label per row
 - 1 plate for CEI 23-51 certification
 - instruction sheet

2



IP 40 flush-mounting consumer units

Estetica Series

4 modules

8 modules

12 modules

Without door

RAL 9001 white



Article	Dimensions (mm) WxHxD	No. items Box/pack	Article	Dimensions (mm) WxHxD	No. items Box/pack	Article	Dimensions (mm) WxHxD	No. items Box/pack
12 004	160x180x82	1/24	12 008	230x180x82	1/14	12 012	300x180x82	1/10

With transparent smoky door, horizontally hinged

RAL 9001 white



Article	Dimensions (mm) WxHxD	No. items Box/pack	Article	Dimensions (mm) WxHxD	No. items Box/pack	Article	Dimensions (mm) WxHxD	No. items Box/pack
12 024	160x180x90	1/24	12 028	230x180x90	1/14	12 032	300x180x90	1/10

With transparent smoky door, horizontally hinged

RAL 7024 grey



Article	Dimensions (mm) WxHxD	No. items Box/pack	Article	Dimensions (mm) WxHxD	No. items Box/pack	Article	Dimensions (mm) WxHxD	No. items Box/pack
12 037	160x180x90	1/24	12 038	230x180x90	1/14	12 042	300x180x90	1/10

IP 40 flush-mounting consumer units

Estetica Series

18 modules

24 modules

36 modules

Without door

RAL 9001 white



Article	Dimensions (mm) WxHxD	No. items Box/pack	Article	Dimensions (mm) WxHxD	No. items Box/pack	Article	Dimensions (mm) WxHxD	No. items Box/pack
12 013	410x180x82	1/6	12 014	300x395x92	1/5	12 016	300x545x92	1/3

With transparent smoky door, horizontally hinged

RAL 9001 white



Article	Dimensions (mm) WxHxD	No. items Box/pack	Article	Dimensions (mm) WxHxD	No. items Box/pack	Article	Dimensions (mm) WxHxD	No. items Box/pack
12 033	410x180x90	1/6	12 034	300x395x100	1/5	12 036	300x545x100	1/3

With transparent smoky door, horizontally hinged

RAL 7024 grey



Article	Dimensions (mm) WxHxD	No. items Box/pack	Article	Dimensions (mm) WxHxD	No. items Box/pack	Article	Dimensions (mm) WxHxD	No. items Box/pack
12 043	410x180x90	1/6	12 044	300x395x100	1/5	12 046	300x545x100	1/3

IP 40 flush-mounting consumer units

Accessories for flush-mounting Estetica Series consumer units

Terminal holders



FLCO927

Terminal bars



FLCO926

2

Article	Description	For consumer units type	Box/pack No. items
12 540	for 8 modules	12 008-12 028-12 038	12/144
12 541	for 12 modules per row	12 012-12 032-12 042 12 014-12 034-12 044 12 016-12 036-12 046	12/144
12 542	for 18 modules per row	12 013-12 033-12 043	12/108

The terminal board is completed by combining the necessary terminal bars to the terminal holders, taking care to keep the terminal bars separated from each other.

Recommended configuration

No. modules	Consumer unit	Terminal holders Articles x quantity	Terminal bars Articles x quantity
8	12 008-12 028-12 038	12 540 x 1	12 531 x 1 12 532 x 1
12	12 012-12 032-12 042	12 541 x 1	12 532 x 2
18	12 013-12 033-12 043	12 542 x 1	12 531 x 1 12 534 x 1
24	12 014-12 034-12 044	12 541 x 2	12 531 x 2 12 533 x 2
36	12 016-12 036-12 046	12 541 x 2	12 531 x 2 12 534 x 2

Terminal holders and terminal bars are supplied separately. In this way, by inserting one or two terminal bars into the terminal holder you can create the best terminal for your requirements, with the advantage of obtaining a terminal block that is cheap as well as personalised, due to the fact that you only need to use material that is really necessary.

Some standard configurations are illustrated in the table.

All the possible configurations that can be created for each type of consumer units are given in the technical details.

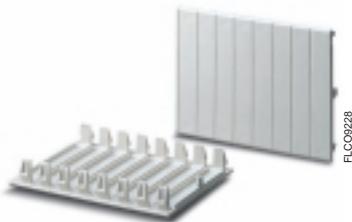
Article	Description	Box/pack No. items
12 531	5x4.5	1/20
12 532	10x4.5 + 3x5.6	1/20
12 533	16x4.5 + 3x5.6	1/20
12 534	15x4.5 + 6x5.6	1/20
12 535	19x4.5 + 6x5.6	1/20

The terminal bars can be installed on any kind of terminal holder; they are snapped onto these with 2 clips per bar, through two holes made at the ends of the bar itself.

IP 40 flush-mounting consumer units

Accessories for flush-mounting Estetica Series consumer units

Module covers



FLCO9228

Aesthetic covers



FLCO9239

Article	Colour	No. modules	Box/pack No. items
12 857	RAL 9001 white	1	50/1500
12 859	RAL 9001 white	4	50/600
12 895	RAL 7024 grey	1	50/1500
12 896	RAL 7024 grey	4	50/600

Article	Colour	Box/pack No. items
12 868	RAL 9001 white (pair)	10/120
12 869	RAL 7024 grey (pair)	10/120

Spare doors



FLCO9229

Screw lead sealing accessory

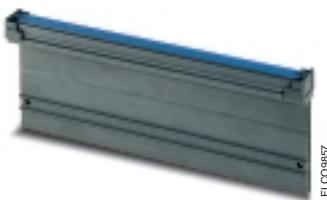


FLCO9230

Transparent smoky	Opaque	For consumer units type	Box/pack No. items
12 051	12 047	12 024 – 12 037	1/80
12 053	12 049	12 028 – 12 038	1/50
12 055	12 050	12 032 – 12 042 12 034 – 12 044 12 036 – 12 046	1/50
12 060	12 056	12 033 – 12 043	1/50

Article	Box/pack No. items
12 860	1/50

Unifix SL cabling system



FLCO9857

Article	Type	Description	Box/pack No. items
ED 3157	XUSLT08	bar 2P 8 modules	6/24
ED 3165	XUSLT12	bar 2P 12 modules	6/24
ED 3173	XUSLT18	bar 2P 18 modules	6/24

Residential application



IMQ mark
in compliance with CEI 23-48 and 23-49 Standards

IP 40 flush-mounting consumer units

Europa Series

Technical characteristics

- degree of protection IP 40
- insulation class II □
- available in 2 versions: with opaque door and with transparent, smoky door with vertical hinge
- available in the following material:
 - RAL 9001 white thermoplastic, self-extinguishing in compliance with UL 94 V-O Standard and resistant to abnormal heat and fire up to 960°C (glow wire test) in compliance with IEC 695-2-1 Standard
 - RAL 7035 grey thermoplastic, self-extinguishing in compliance and resistant to abnormal heat and fire up to 650°C (glow wire test) in compliance with IEC 695-2-1 Standard
- resistant to chemical agents (water, saline solutions, acids, mineral bases and oils), atmospheric agents and UV rays
- dimensional stability under constant operating conditions from -20° to +85° C
- resistance to impacts 6 joules

- door designed to be fitted with a pin lock art. 12 867 (page 2/15)
- flush-mounting consumer unit fitted with push-in inlets for inserting corrugated, protective conduits
- extractable DIN rail frame to facilitate bench cabling
- consumer units manufactured to compensate for any imperfections during the installation (thanks to slots at the points where the front parts are hooked on)
- all models designed for the use of the UNIFIX SL fast-cabling system
- consumer units manufactured in compliance with CEI 23-48, CEI 23-49 and IEC 670 Standards
- consumer units supplied complete with:
 - 4 module covers per row
 - 1 self-adhesive label per row
 - 1 plate for CEI 23-51 certification
 - instruction sheet

2



FLO09885

IP 40 flush-mounting consumer units

Europa Series

8 modules

12 modules

24 modules

With opaque door, vertically hinged

RAL 9001 white / RAL 7035 grey

2



Article	Colour	Dimensions (mm) WxHxD	Box/pack No. items
12 040	white	230x180x90	1/14
12 026	grey	230x180x90	1/14

Article	Colour	Dimensions (mm) WxHxD	Box/pack No. items
12 041	white	300x180x90	1/10
12 027	grey	300x180x90	1/10

Article	Colour	Dimensions (mm) WxHxD	Box/pack No. items
12 045	white	300x395x90	1/5
12 030	grey	300x395x90	1/5

With transparent smoky door, vertically hinged

RAL 9001 white / RAL 7035 grey



Article	Colour	Dimensions (mm) WxHxD	Box/pack No. items
12 057	white	230x180x90	1/14
12 058	grey	230x180x90	1/14

Article	Colour	Dimensions (mm) WxHxD	Box/pack No. items
12 061	white	300x180x90	1/10
12 062	grey	300x180x90	1/10

Article	Colour	Dimensions (mm) WxHxD	Box/pack No. items
12 063	white	300x395x90	1/5
12 064	grey	300x395x90	1/5

IP 40 flush-mounting consumer units

Europa Series

36 modules

54 modules

With opaque door, vertically hinged

RAL 9001 white / RAL 7035 grey



Article	Colour	Dimensions (mm) WxHxD	Box/pack No. items
12 048	white	300x545x90	1/3
12 031	grey	300x545x90	1/3

Article	Colour	Dimensions (mm) WxHxD	Box/pack No. items
12 052	white	410x545x100	1/1
12 035	grey	410x545x100	1/1

With transparent smoky door, vertically hinged

RAL 9001 white / RAL 7035 grey



Article	Colour	Dimensions (mm) WxHxD	Box/pack No. items
12 065	white	300x545x90	1/3
12 066	grey	300x545x90	1/3

Article	Colour	Dimensions (mm) WxHxD	Box/pack No. items
12 067	white	410x545x90	1/1
12 068	grey	410x545x90	1/1

IP 40 flush-mounting consumer units

Accessories for flush-mounting Europa Series consumer units

Terminal holders



FLCO9227

Terminal bars



FLCO9226

2

Article	Description	For consumer units type	Box/pack No. items
12 540	for 8 modules	12 040-12 026-12 057-12058	12/144
12 541	for 12 modules per row	12 041-12 027-12 061-12 062 12 045-12 030-12 063-12 064 12 048-12 031-12 065-12 066	12/144
12 542	for 18 modules per row	12 052-12 035-12 067-12 068	12/108

The terminal board is completed by combining the necessary terminal bars to the terminal holders, taking care to keep the terminal bars separated from each other.

Recommended configuration

No. modules	Consumer unit	Terminal holders Articles x quantity	Terminal bars Articles x quantity
8	12 040-12 026-12 057-12 058	12 540 x 1	12 531 x 1 12 532 x 1
12	12 041-12 027-12 061-12 062	12 541 x 1	12 532 x 2
24	12 045-12 030-12 063-12 064	12 541 x 2	12 531 x 2 12 533 x 2
36	12 048-12 031-12 065-12 066	12 541 x 2	12 531 x 2 12 534 x 2
54	12 052-12 035-12 067-12 068	12 542 x 2	12 532 x 2 12 535 x 2

Terminal holders and terminal bars are supplied separately. In this way, by inserting one or two terminal bars into the terminal holder you can create the best terminal for your requirements, with the advantage of obtaining a terminal block that is cheap as well as personalised, due to the fact that you only need to use material that is really necessary.

Some standard configurations are illustrated in the table.

All the possible configurations that can be created for each type of consumer unit are given in the technical details.

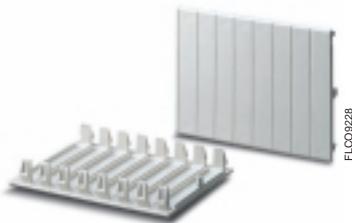
Article	Description No. of holes x Ø holes (mm) + No. holes x Ø holes (mm)	Box/pack No. items
12 531	5x4.5	1/20
12 532	10x4.5 + 3x5.6	1/20
12 533	16x4.5 + 3x5.6	1/20
12 534	15x4.5 + 3x5.6	1/20
12 535	19x4.5 + 3x5.6	1/20

The terminal bars can be installed on any kind of terminal holder; they are snapped onto these with 2 clips per bar, through two holes made at the ends of the bar itself.

IP 40 flush-mounting consumer units

Accessories for flush-mounting Europa Series consumer units

Module covers



FLCO9228

Article	Colour	No. modules	Box/pack No. items
12 857	RAL 9001 white	1	50/1500
12 859	RAL 9001 white	4	50/600
12 861	RAL 7035 grey	1	50/1500
12 863	RAL 7035 grey	4	50/600

Lock with key



FLCO9221

Article	Description	Box/pack No. items
12 867	Pin type	1/10

Spare doors



FLCO9232

Opaque				Box/pack No. items
RAL 9001 white	RAL 7035 grey	For consumer units type		
12 078	12 070	12 040 - 12 026	1/50	
12 079	12 071	12 041 - 12 027	1/50	
12 080	12 072	12 045 - 12 030	1/25	
12 081	12 073	12 048 - 12 031	1/20	
12 088	12 087	12 052 - 12 035	1/10	

Screw lead sealing accessory



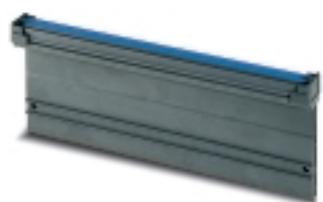
FLCO9230

Article	Box/pack No. items
12 860	1/50

Transparent smoky

	For consumer units type	Box/pack No. items
12 074	12 057 - 12 058	1/50
12 075	12 061 - 12 062	1/50
12 076	12 063 - 12 064	1/25
12 073	12 065 - 12 066	1/20
12 089	12 067 - 12 068	1/10

Unifix SL cabling system



FLCO9857

Article	Type	Description	Box/pack No. items
ED 315 7	XUSLT08	bar 2P 8 modules	6/24
ED 316 5	XUSLT12	bar 2P 12 modules	6/24
ED 317 3	XUSLT18	bar 2P 18 modules	6/24

Residential/tertiary application



FLC09801



IMQ mark
in compliance with CEI 23-48 and 23-49 Standards

IP 40 wall-mounting consumer units

Unibox Series

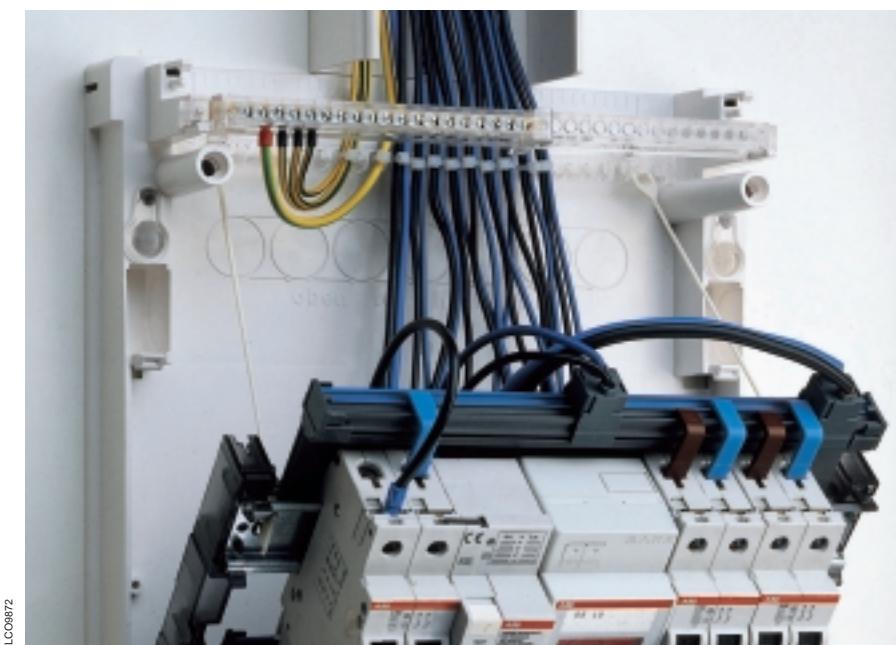
Technical characteristics

- degree of protection IP 40
- insulation class II □
- available in 3 versions: without door, with opaque door and with transparent, smoky door with vertical hinge
- available in RAL 9016 white and RAL 7035 grey
- in thermoplastic, self-extinguishing and resistant to abnormal heat and fire up to 960°C (glow wire test) in compliance with IEC 695-2-1 Standard
- resistant to chemical agents (water, saline solutions, acids, mineral bases and oils), atmospheric agents and UV rays
- dimensional stability under constant operating conditions from -20° to +85° C
- shock resistant 10 joules (IK 09 level)
- door opening with push-pull mechanism
- door designed to be fitted with a coded lock art. 12 530 (page 2/21)
- base of the consumer unit fitted with a special system to cover the holes used to attach it to the wall to guarantee perfect insulation
- extractable DIN rail frame to facilitate bench cabling that can be angled at a fixed position to make it easier to work on the connection cables. It can also be dismantled (and snapped on to reassemble it) to make it easier to cable the individual wires; the frame can be snapped onto the base of the consumer unit without having to use any extra screws
- all the models are provided with one extra module per row that can be used by removing the 1/2 module trimmings at the ends of each row
- screws for fixing the cover in rapid pitch insulating

thermoplastic material that can be lead sealed easily without extra accessories, making it possible to compensate for uneven brickwork up to 4 mm

- a cable holding system guarantees safe and tidy cabling securing the input and output cables to a special accessory that protects the terminals from direct mechanical interference
- models with eight modules and more designed for the use of the UNIFIX SL fast-cabling system
- personalised finish on request (bur, marble, patterned etc.)
- consumer units manufactured in compliance with CEI 23-48, CEI 23-49 and IEC 670 Standards
- consumer units complying with the stringent German Standard DIN 43871 concerning insulating consumer units for modular devices (excluding 8 and 54 modules)
- components and accessories are easy to assemble by snapping on, without the need for screws
- elegant attractive line following the latest trends in design; patented model
- consumer units supplied complete with:
 - 4 module covers per row
 - 1 self-adhesive label per row
 - protective film for door
 - cable-clip accessory
 - 5 transparent cable-ties (100x2.5 mm) for securing cables
 - 4 screws/wall plugs for attaching to the wall
 - rigid flange for branch connections with conduits
 - 1 plate for CEI 23-51 certification
 - instruction sheet

2



FLCO9872



FLCO9818

IP 40 wall-mounting consumer units

Unibox Series

8 modules

12 modules

24 modules

Without door

RAL 9016 white / RAL 7035 grey



Article	Colour	Dimensions (mm) WxHxD	Box/pack No. items
12 208	white	215x220x105	1/9
12 228	grey	215x220x105	1/9

Article	Colour	Dimensions (mm) WxHxD	Box/pack No. items
12 212	white	295x245x115	1/6
12 232	grey	295x245x115	1/6

Article	Colour	Dimensions (mm) WxHxD	Box/pack No. items
12 214	white	295x390x115	1/4
12 234	grey	295x390x115	1/4

With opaque door, vertically hinged

RAL 9016 white / RAL 7035 grey



Article	Colour	Dimensions (mm) WxHxD	Box/pack No. items
12 238	white	215x220x105	1/9
12 248	grey	215x220x105	1/9

Article	Colour	Dimensions (mm) WxHxD	Box/pack No. items
12 242	white	295x245x115	1/6
12 252	grey	295x245x115	1/6

Article	Colour	Dimensions (mm) WxHxD	Box/pack No. items
12 244	white	295x390x115	1/4
12 254	grey	295x390x115	1/4

With transparent smoky door, vertically hinged

RAL 9016 white / RAL 7035 grey



Article	Colour	Dimensions (mm) WxHxD	Box/pack No. items
12 258	white	215x220x105	1/9
12 268	grey	215x220x105	1/9

Article	Colour	Dimensions (mm) WxHxD	Box/pack No. items
12 262	white	295x245x115	1/6
12 272	grey	295x245x115	1/6

Article	Colour	Dimensions (mm) WxHxD	Box/pack No. items
12 264	white	295x390x115	1/4
12 274	grey	295x390x115	1/4

IP 40 wall-mounting consumer units

Unibox Series

36 modules

54 modules

Without door

RAL 9016 white / RAL 7035 grey



FLC09047



FLC09061

Article	Colour	Dimensions (mm) WxHxD	Box/pack No. items
12 216	white	295x515x115	1/1
12 236	grey	295x515x115	1/1

Article	Colour	Dimensions (mm) WxHxD	Box/pack No. items
12 217	white	405x515x115	1/1
12 237	grey	405x515x115	1/1

With opaque door, vertically hinged

RAL 9016 white / RAL 7035 grey



FLC09057



FLC09061

Article	Colour	Dimensions (mm) WxHxD	Box/pack No. items
12 246	white	295x515x115	1/1
12 256	grey	295x515x115	1/1

Article	Colour	Dimensions (mm) WxHxD	Box/pack No. items
12 247	white	405x515x115	1/1
12 257	grey	405x515x115	1/1

With transparent smoky door, vertically hinged

RAL 9016 white / RAL 7035 grey



FLC09055



FLC09056

Article	Colour	Dimensions (mm) WxHxD	Box/pack No. items
12 266	white	295x515x115	1/1
12 276	grey	295x515x115	1/1

Article	Colour	Dimensions (mm) WxHxD	Box/pack No. items
12 267	white	405x515x115	1/1
12 277	grey	405x515x115	1/1

IP 40 wall-mounting consumer units

Accessories for wall-mounting Unibox Series consumer units

Terminal holders



Terminal bars



FLC09226

2

Article	Description	For consumer units type	Box/pack No. items
12 540	for 8 modules	12 208-12 228-12 238 12 248-12 258-12 268	12/144
12 541	for 12 modules per row	12 212-12 232-12 242 12 252-12 262-12 272 12 214-12 234-12 244 12 254-12 264-12 274 12 216-12 236-12 246 12 256-12 266-12 276	12/144
12 542	for 18 modules per row	12 217-12 237-12 247 12 257-12 267-12 277	12/108

The terminal board is completed by combining the necessary terminal bars to the terminal holders, taking care to keep the terminal bars separated from each other.

Recommended configuration

No. modules	Consumer unit	Terminal holders Articles x quantity	Terminal bars Articles x quantity
8	12 208-12 228-12 238 12 248-12 258-12 268	12 540 x 1	12 531 x 1 12 532 x 1
12	12 212-12 232-12 242 12 252-12 262-12 272	12 541 x 1	12 532 x 2
24	12 214-12 234-12 244 12 254-12 264-12 274	12 541 x 2	12 531 x 2 12 533 x 2
36	12 216-12 236-12 246 12 256-12 266-12 276	12 541 x 2	12 531 x 2 12 534 x 2
54	12 217-12 237-12 2467 12 257-12 267-12 277	12 542x 2	12 535 x 2

Terminal holders and terminal bars are supplied separately. In this way, by inserting one or two terminal bars into the terminal holder you can create the best terminal for your requirements, with the advantage of obtaining a terminal block that is cheap as well as personalised, due to the fact that you only need to use material that is really necessary.

Some standard configurations are illustrated in the table.

All the possible configurations that can be created for each type of consumer unit are given in the technical details.

IP 40 wall-mounting consumer units

Accessories for wall-mounting Unibox Series consumer units

Spare doors



FLC09277

Opaque

RAL 9016
white

RAL 7035
grey

For consumer units
type

Box/pack
No. items

12 511	12 516	12 238 – 12 248	1/25
12 512	12 517	12 242 – 12 252	1/15
12 513	12 518	12 244 – 12 254	1/10
12 514	12 519	12 246 – 12 256	1/5
12 515	12 520	12 247 – 12 257	1/5

Transparent smoky

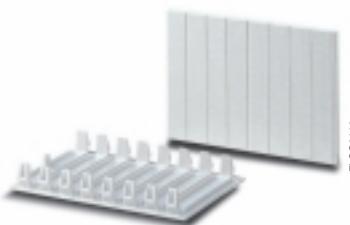
For consumer units
type

Box/pack
No. items

12 521	12 258 – 12 268	1/25
12 522	12 262 – 12 272	1/15
12 523	12 264 – 12 274	1/10
12 524	12 266 – 12 276	1/5
12 525	12 267 – 12 277	1/5

The mechanism for push-pull art. No. 12526 (in packs of 5 items) should be always ordered with each door

Module covers



FLC09118

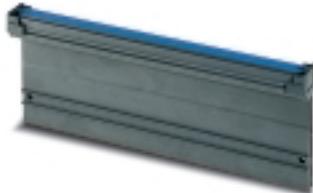
Article Colour

No. modules

Box/pack
No. items

12 555	RAL 9016 white	4	50/600
12 863	RAL 7035 grey	4	50/600

Unifix SL cabling system



FLC09857

2

Article	Description	Box/pack No. items
ED 324 9	XUSLT08+1-bar 2P 8+1 modules	1/16
ED 325 6	XUSLT12+1-bar 2P 12+1 modules	1/12
ED 326 4	XUSLT18+1-bar 2P 18+1 modules	1/8

Lock with key



FLC09274

Article Description

Box/pack
No. items

12 530	coded type	1/10
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Cable-clip accessory



FLC09278

Article

Box/pack
No. items

12 550	1/30
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Coupling element



FLC09121

Article

Box/pack
No. items

12 556	10/100
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Residential/tertiary application



IMQ mark
in compliance with CEI 23-48 and 23-49 Standards

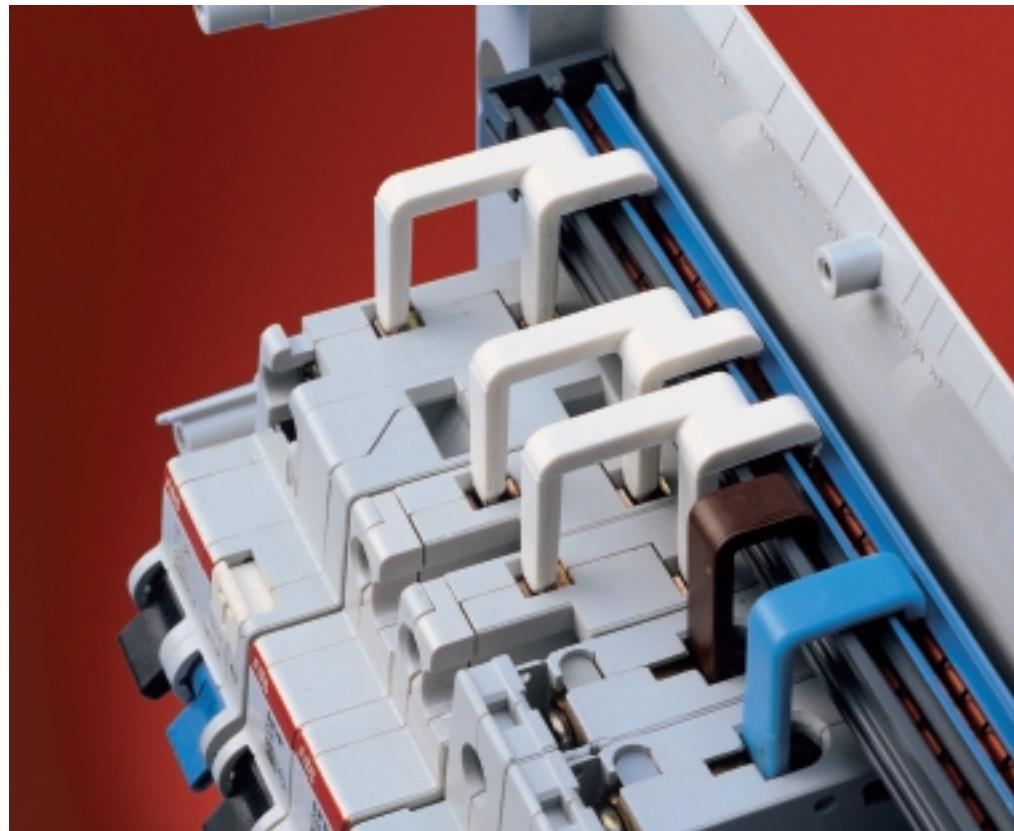
IP 40 wall-mounting consumer units

Europa Series

Technical characteristics

- degree of protection IP 40
- insulation class II
- available in 3 versions: without door, with opaque door and with transparent, smoky door with vertical hinge
- available in the following material:
 - RAL 9001 white thermoplastic, self-extinguishing in compliance with UL 94 V-O Standard and resistant to abnormal heat and fire up to 960°C (glow wire test) in compliance with IEC 695-2-1 Standard
 - RAL 7035 grey thermoplastic, self-extinguishing in compliance and resistant to abnormal heat and fire up to 650°C (glow wire test) in compliance with IEC 695-2-1 Standard
- resistant to chemical agents (water, saline solutions, acids, mineral bases and oils), atmospheric agents and UV rays
- dimensional stability under constant operating conditions from -20° to +85° C
- shock resistant 6 joules
- symmetrical, reversible door to open on either sides, designed to be fitted with a coded lock art. 12 8647 (page 2/27)
- front part designed for input of cable trunking measuring up to 200x60 mm; possibility of branch connection with conduit thanks to a flange included in the supply
- consumer units designed with roomy interiors to make cabling easy and tidy
- devices with a depth of 53 and 68 mm can be installed on switchboxes with 8-12-24 modules and devices with a depth of up to 75 mm on consumer units with 36-54 modules
- all models designed for the use of the UNIFIX SL fast-cabling system
- consumer units manufactured in compliance with CEI 23-48, CEI 23-49 and IEC 670 Standards
- consumer units supplied complete with:
 - 1 rigid flange for branch connection with conduit
 - 4 module covers per row
 - 1 self-adhesive label per row
 - 1 plate for CEI 23-51 certification
 - instruction sheet

2



FLCO2889

IP 40 wall-mounting consumer units

Europa Series

8 modules

12 modules

24 modules

Without door

RAL 9001 white / RAL 7035 grey



Article	Colour	Dimensions (mm) WxHxD	Box/pack No. items
12 408	white	230x200x95	1/12
12 428	grey	230x200x95	1/12

Article	Colour	Dimensions (mm) WxHxD	Box/pack No. items
12 412	white	305x200x95	1/10
12 432	grey	305x200x95	1/10

Article	Colour	Dimensions (mm) WxHxD	Box/pack No. items
12 414	white	305x350x95	1/6
12 434	grey	305x350x95	1/6

With opaque door, vertically hinged

RAL 9001 white / RAL 7035 grey



Article	Colour	Dimensions (mm) WxHxD	Box/pack No. items
12 438	white	230x200x95	1/12
12 448	grey	230x200x95	1/12

Article	Colour	Dimensions (mm) WxHxD	Box/pack No. items
12 442	white	305x200x95	1/10
12 452	grey	305x200x95	1/10

Article	Colour	Dimensions (mm) WxHxD	Box/pack No. items
12 444	white	305x350x95	1/6
12 454	grey	305x350x95	1/6

With transparent smoky door, vertically hinged

RAL 9001 white / RAL 7035 grey



Article	Colour	Dimensions (mm) WxHxD	Box/pack No. items
12 458	white	230x200x95	1/12
12 468	grey	230x200x95	1/12

Article	Colour	Dimensions (mm) WxHxD	Box/pack No. items
12 462	white	305x200x95	1/10
12 472	grey	305x200x95	1/10

Article	Colour	Dimensions (mm) WxHxD	Box/pack No. items
12 464	white	305x350x95	1/6
12 474	grey	305x350x95	1/6

IP 40 wall-mounting consumer units

Europa Series

36 modules

54 modules

Without door

RAL 9001 white / RAL 7035 grey



FLC09035



FLC09036

Article	Colour	Dimensions (mm) WxHxD	Box/pack No. items
12 416	white	305x500x120	1/3
12 436	grey	305x500x120	1/3

Article	Colour	Dimensions (mm) WxHxD	Box/pack No. items
12 417	white	305x570x120	1/2
12 437	grey	305x570x120	1/2

With opaque door, vertically hinged

RAL 9001 white / RAL 7035 grey



FLC09040



FLC09041

Article	Colour	Dimensions (mm) WxHxD	Box/pack No. items
12 446	white	305x500x120	1/3
12 456	grey	305x500x120	1/3

Article	Colour	Dimensions (mm) WxHxD	Box/pack No. items
12 447	white	305x570x120	1/2
12 457	grey	305x570x120	1/2

With transparent smoky door, vertically hinged

RAL 9001 white / RAL 7035 grey



FLC09045



FLC09046

Article	Colour	Dimensions (mm) WxHxD	Box/pack No. items
12 466	white	305x500x120	1/3
12 476	grey	305x500x120	1/3

Article	Colour	Dimensions (mm) WxHxD	Box/pack No. items
12 467	white	305x570x120	1/2
12 477	grey	305x570x120	1/2

IP 40 wall-mounting consumer units

Accessories for wall-mounting Europa Series consumer units

Terminal holders



FLCO8227

Terminal bars



FLCO8226

2

Article	Description	For consumer units type	Box/pack No. items
12 540	for 8 modules	12 408-12 428-12 438 12 448-12 458-12 468	12/144
12 541	for 12 modules per row	12 412-12 432-12 442 12 452-12 462-12 472 12 414-12 434-12 444 12 454-12 464-12 474 12 416-12 436-12 446 12 456-12 466-12 476	12/144
12 543	for 18 modules per row	12 417-12 437-12 447 12 457-12 467-12 477	12/108

The terminal board is completed by combining the necessary terminal bars to the terminal holders, taking care to keep the terminal bars separated from each other.

Article	Description	Box/pack No. items
	No. of holes x Ø holes (mm) + No. holes x Ø holes (mm)	
12 531	5x4.5	1/20
12 532	10x4.5 + 3x5.6	1/20
12 533	16x4.5 + 3x5.6	1/20
12 534	15x4.5 + 6x5.6	1/20
12 535	19x4.5 + 6x5.6	1/20

The terminal bars can be installed on any kind of terminal holder; they are snapped onto these with 2 clips per bar, through two holes made at the ends of the bar itself

Recommended configuration

No. modules	Consumer unit	Terminal-holders Articles x quantity	Terminal bars Articles x quantity
8	12 408-12 428-12 438 12 448-12 458-12 468	12 540 x 1	12 531 x 1 12 532 x 1
12	12 412-12 432-12 442 12 452-12 462-12 472	12 541 x 1	12 532 x 2
24	12 414-12 434-12 444 12 454-12 464-12 474	12 541 x 2	12 531 x 2 12 533 x 2
36	12 416-12 436-12 446 12 456-12 466-12 476	12 541 x 2	12 531 x 2 12 534 x 2
54	12 417-12 437-12 447 12 457-12 467-12 477	12 543 x 2	12 535 x 2

Terminal holders and terminal bars are supplied separately. In this way, by inserting one or two terminal bars into the terminal holder you can create the best terminal for your requirements, with the advantage of obtaining a terminal block that is cheap as well as personalised, due to the fact that you only need to use material that is really necessary.

Some standard configurations are illustrated in the table.

All the possible configurations that can be created for each type of consumer unit are given in the technical details.

IP 40 wall-mounting consumer units

Accessories for wall-mounting Europa Series consumer units

Spare doors



Opaque

	RAL 9001 white	RAL 7035 grey	For consumer units type	Box/pack No. items
12 078	12 070		12 438 - 12 448	1/50
12 079	12 071		12 442 - 12 452	1/50
12 080	12 072		12 444 - 12 454	1/25
12 081	12 073		12 446 - 12 456	1/10
12 095	12 094		12 447 - 12 457	1/10

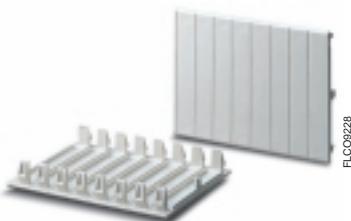
Transparent smoky

		For consumer units type	Box/pack No. items
12 074		12 458 - 12 468	1/50
12 075		12 462 - 12 472	1/50
12 076		12 464 - 12 474	1/25
12 077		12 466 - 12 476	1/20
12 096		12 467 - 12 477	1/10

Lock with key



Module covers



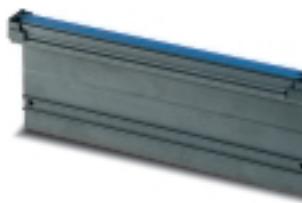
Article	Colour	No. modules	Box/pack No. items
12 857	RAL 9001 white	1	50/1500
12 859	RAL 9001 white	4	50/600
12 861	RAL 7035 grey	1	50/1500
12 863	RAL 7035 grey	4	50/600

Screw lead sealing accessory



Article	Box/pack No. items
12 860	1/50

Unifix SL cabling system



Article	Type	Description	Box/pack No. items
ED 315 7	XUSLT08	bar 2P 8 modules	6/24
ED 316 5	XUSLT12	bar 2P 12 modules	6/24
ED 317 3	XUSLT18	bar 2P 18 modules	6/24

Residential/tertiary application



FLC09807



IMQ mark
in compliance with CEI 23-48 and 23-49 Standards

IP 40 wall-mounting consumer units

Europa Polycarbonate Series

Technical characteristics

- degree of protection IP 40
- insulation class II
- available in self-extinguishing polycarbonate resistant to abnormal heat and fire up to 960°C (glow wire test) in compliance with IEC 695-2-1 Standard
- available in RAL 7035 grey
- material with low halogen content
- dimensional stability under constant operating conditions from -25° to +115° C
- shock resistant 20 joules (IK 10 level)
- high resistance to UV rays
- extractable DIN rail frame to facilitate bench cabling. It can also be dismantled (and snapped on to reassemble it) to make it easier to cable the individual wires.
- possibility of installing devices with depth of 53, 68 and 75 mm

- possibility of installation in environments with major risk in the event of a fire (CEI 64-8 part 7 section 751 Standard) and in AD-FT environments (CEI 64-2 IV edition Standard)
- models with 8 and more modules fitted with flanges for facilitate input of conduits and cables
- models with 8 and more modules designed for the use of the UNIFIX L fast-cabling system
- consumer units manufactured in compliance with CEI 23-48, CEI 23-49 and IEC 670 Standards
- consumer units supplied complete with:
 - 4 module covers per row
 - 1 self-adhesive label per row
 - 1 plate for CEI 23-51 certification
 - 4 screw-cover caps for guarantee
 - instruction sheet

2



IP 40 wall-mounting consumer units

Europa Polycarbonate Series

2-4 modules

4 modules

8 modules

12 modules

Without door

RAL 7035 grey

2



FLC09065



FLC09062



FLC09063



FLC09064

Article	Dimensions (mm) WxHxD	Box/pack No. items
12 702	100x160x85	1/36

Article	Dimensions (mm) WxHxD	Box/pack No. items
12 704	140x220x110	1/19

Article	Dimensions (mm) WxHxD	Box/pack No. items
12 708	205x220x110	1/9

Article	Dimensions (mm) WxHxD	Box/pack No. items
12 712	275x220x110	1/7

IP 40 wall-mounting consumer units

Europa Polycarbonate Series

24 modules

36 modules

54 modules

Without door

RAL 7035 grey



Article	Dimensions (mm) WxHxD	Box/pack No. items
12 714	275x370x110	1/5

Article	Dimensions (mm) WxHxD	Box/pack No. items
12 716	275x570x110	1/3

Article	Dimensions (mm) WxHxD	Box/pack No. items
12 718	380x570x120	1/2

IP 40 wall-mounting consumer units

Accessories for wall-mounting Europa Polycarbonate Series consumer units

Terminal holders



FLC09227 A

Terminal bars



FLC09226

Article	Description	For consumer units type	Box/pack No. items
12 538	for 4 modules	12 704	12/360
12 539	for 8 modules	12 708	12/360
12 540	for 12 modules per row	12 712-12 714-12 716	12/144
12 543	for 18 modules per row	12 718	12/108

The terminal board is completed by combining the necessary terminal bars to the terminal holders, taking care to keep the terminal bars separated from each other.

Article	Description No. of holes x Ø holes (mm) + No. holes x Ø holes (mm)	Box/pack No. items
12 531	5x4.5	1/20
12 532	10x4.5 + 3x5.6	1/20
12 533	16x4.5 + 3x5.6	1/20
12 534	15x4.5 + 6x5.6	1/20
12 535	19x4.5 + 6x5.6	1/20

The terminal bars can be installed on any kind of terminal holder; they are snapped onto these with 2 clips per bar, through two holes made at the ends of the bar itself.

Recommended configuration

No. modules	Consumer unit	Terminal holders Articles x quantity	Terminal bars Articles x quantity
4	12 704	12 538 x 2	12 531 x 2
8	12 708	12 539 x 2	12 531 x 2
12	12 712	12 540 x 1	12 531 x 1 12 532 x 1
24	12 714	12 540 x 2	12 533 x 2
36	12 716	12 540 x 2	12 534 x 2
54	12 718	12 543 x 2	12 535 x 2

Terminal holders and terminal bars are supplied separately. In this way, by inserting one or two terminal bars into the terminal holder you can create the best terminal for your requirements, with the advantage of obtaining a terminal block that is cheap as well as personalised, due to the fact that you only need to use material that is really necessary.

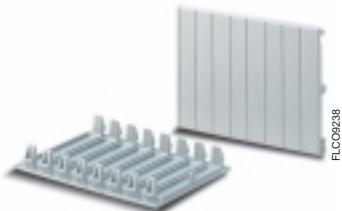
Some standard configurations are illustrated in the table.

All the possible configurations that can be created for each type of consumer unit are given in the technical details.

IP 40 wall-mounting consumer units

Accessories for wall-mounting Europa Polycarbonate Series consumer units

Module covers



Article	Colour	No. modules	Box/pack No. items
12 861	RAL 7035 grey	1	50/1500
12 863	RAL 7035 grey	4	50/600

Wall brackets



Article	Description	Box/pack No. items
12 858	in insulating material	1/20

2

Screw lead sealing accessory



Article	Box/pack No. items
12 860	1/50

Semi-flush-mounting frames



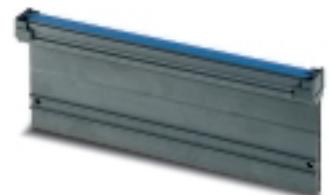
Article	For consumer units type	Box/pack No. items
12 590	12 704	5/20
12 591	12 708	5/20
12 592	12 712	5/20
12 593	12 714	5/20
12 594	12 716	5/5
12 595	12 718	5/5

Spare flanges



Article	For consumer units with	Box/pack No. items
12 600	8 modules	30/120
12 601	12, 24, 36 (12x3 rows) modules	20/80
12 602	54 modules	20/80

Unifix L cabling system



Article	Type	Description	Box/pack No. items
ED 298 5	XULT208	bar 2P 8 modules	6/24
ED 299 3	XULT212	bar 2P 12 modules	6/24
ED 300 9	XULT218	bar 2P 18 modules	6/24
ED 294 4	XULT412	bar 4P 12 modules	6/24
ED 295 1	XULT418	bar 4P 18 modules	6/24

Residential/tertiary application



FLCC09862



IMQ mark
in compliance with CEI 23-48 and 23-49 Standards

IP 40 wall-mounting consumer units

Wall-mounting covers

Technical characteristics

- degree of protection IP 40
- insulation class II
- available in material:
 - thermoplastic RAL 9001 white self-extinguishing in compliance with UL 94 V-0 Standard and resistant to abnormal heat and fire up to 960°C (glow wire test) in compliance with IEC 695-2-1 Standard
 - thermoplastic RAL grey 7035 grey self-extinguishing and resistant to abnormal heat and fire up to 960°C (glow wire test) in compliance with IEC 695-2-1 Standard
- resistant to chemical agents (water, saline solutions, acids, mineral bases and oils), to atmospheric agents and UV rays
- dimensional stability under constant operating conditions from -20° to +85° C
- shock resistant 6 joules
- covers produced in compliance with CEI 23-48, CEI 23-49 and IEC 670 Standards



FLO9920

2

IP 40 wall-mounting consumer units

Wall-mounting covers

2 modules

4 modules

6 modules

Without door

RAL 9001 white / RAL 7035 grey

2



Article	Colour	Dimensions (mm) WxHxD	Box/pack No. items
12 402	white	50x140x65	1/45
12 422	grey	50x140x65	1/45

Article	Colour	Dimensions (mm) WxHxD	Box/pack No. items
12 404	white	95x160x65	1/20
12 424	grey	95x160x65	1/20

Article	Colour	Dimensions (mm) WxHxD	Box/pack No. items
12 406	white	140x160x65	1/12
12 426	grey	140x160x65	1/12

IP 40 wall-mounting consumer units

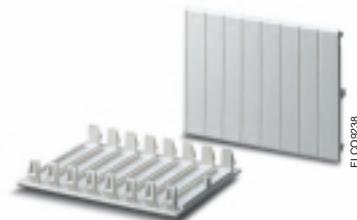
Accessories for wall-mounting covers

Terminal bars



FLCO9290

Module covers



FLCO9298

Article	Description	For covers	Box/pack
	No. of holes x Ø holes (mm) + No. holes x Ø holes (mm)	type	No. items
12 502	2x4.5 + 3x5.6	12 404-12 406 12 424-12 426	1/25

The terminal bar can be fixed to covers using the supplied screws

Article	Colour	No. modules	Box/pack
		No. items	No. items
12 857	RAL 9001 white	1	50/1500
12 859	RAL 9001 white	4	50/600
12 861	RAL 7035 grey	1	50/1500
12 863	RAL 7035 grey	4	50/600

Screw lead sealing accessory



FLCO9230

Article	Box/pack
	No. items
12 860	1/50

Tertiary/industrial application



FLCO8906

IP 55 and IP 65 wall-mounting consumer units

IP 55 Europa Series

Technical characteristics

- degree of protection IP 55
- insulation class II
- available with transparent smoky door horizontally hinged in the version with sealable spring closure and with key lock
- available in RAL 7035 grey
- available in thermoplastic self-extinguishing material resistant to abnormal heat and fire up to 650°C (glow wire test) in compliance with IEC 695-2-1 Standard
- resistant to chemical agents (water, saline solutions, acids, mineral bases and oils), to atmospheric agents and UV rays
- dimensional stability under constant operating conditions from -20° to +85° C
- shock resistant 6 joules
- possibility of installation in environments with major risk in the event of fire (CEI 64-8 part 7 section 751 Standard) and in AD-FT environments (CEI 64-2 Standard, IV edition)
- 10 and 20 module consumer units can be attached to the wall with brackets art. 12 858 (see page 2/42)
- consumer units made and produced in compliance with CEI 23-48, CEI 23-49 and IEC 670 Standards
- consumer units supplied complete with:
 - 4 module covers per row
 - 1 self-adhesive label per row
 - 1 plate for CEI 23-51 certification
 - 3 25 mm cable glands

2



IP 55 and IP 65 wall-mounting consumer units

IP 55 Europa Series

4 modules

6 modules

10 modules

Spring closing

RAL 7035 grey

2



Article	Dimensions (mm) WxHxD	Box/pack No. items
12 644	125x180x105	1/18

Article	Dimensions (mm) WxHxD	Box/pack No. items
12 646	160x180x105	1/12

Article	Dimensions (mm) WxHxD	Box/pack No. items
12 650	230x180x105	1/10

4 modules

6 modules

10 modules

Key lock

RAL 7035 grey



Article	Dimensions (mm) WxHxD	Box/pack No. items
12 684	125x180x105	1/18

Article	Dimensions (mm) WxHxD	Box/pack No. items
12 686	160x180x105	1/12

Article	Dimensions (mm) WxHxD	Box/pack No. items
12 690	230x180x105	1/10

IP 55 and IP 65 wall-mounting consumer units

IP 55 Europa Series

20 modules

10 modules special

Spring closing

RAL 7035 grey



Article	Dimensions (mm) WxHxD	Box/pack No. items	Article	Dimensions (mm) WxHxD	Box/pack No. items
12 652	250x320x135	1/6	12 654	250x320x135	1/6

20 modules

Key lock

RAL 7035 grey



Article	Dimensions (mm) WxHxD	Box/pack No. items
12 692	250x320x135	1/6

IP 55 and IP 65 wall-mounting consumer units

Accessories for wall-mounting IP 55 Europa Series consumer units

Terminal blocks

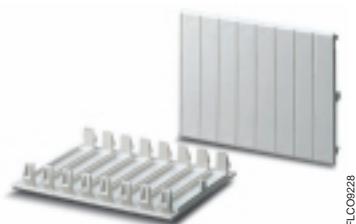


2

Article	Description		For consumer units type	Box/pack No. items
	Neutral terminal blocks No. of holes x Ø holes (mm)	Earth terminal blocks No. of holes x Ø holes (mm)		
12 880	2x4.5 + 3x5.6	2x4.5 + 3x5.6	12 644-12 684	10/60
12 882	6x4.5 + 5x5.6	2x4.5 + 3x5.6	12 646-12 686	10/60
12 884	6x4.5 + 5x5.6	2x4.5 + 3x5.6	12 650-12 690	10/40
12 886	2 (6x4.5 + 5x5.6)	2 (2x4.5 + 3x5.6)	12 652-12 692-12 654	10/40

Module covers

Wall brackets



Article	Colour	No. modules	Box/pack No. items	Article	Description	For consumer units with	Box/pack No. items
12 861	RAL 7035 grey	1	50/1500	12 858	in insulating material	8,10 modules	1/20
12 863	RAL 7035 grey	4	50/600				

IP 55 and IP 65 wall-mounting consumer units

Accessories for wall-mounting IP 55 Europa Series consumer units

Lock with key



FLCO9243

Spare transparent smoky door

Spring closing



FLCO9244

2

Article	Description	Box/pack No. items
12 865	Coded type	1/10

Article	For consumer units type	Box/pack No. items
12 696	12 644 - 12 684	10/40
12 697	12 646 - 12 686	10/40
12 698	12 650 - 12 690 12 652 - 12 692 - 12 654	10/20

Residential/tertiary/industrial application



F1C0895



IMQ mark
in compliance with CEI 23-48 and 23-49 Standards

IP 55 and IP 65 wall-mounting consumer units

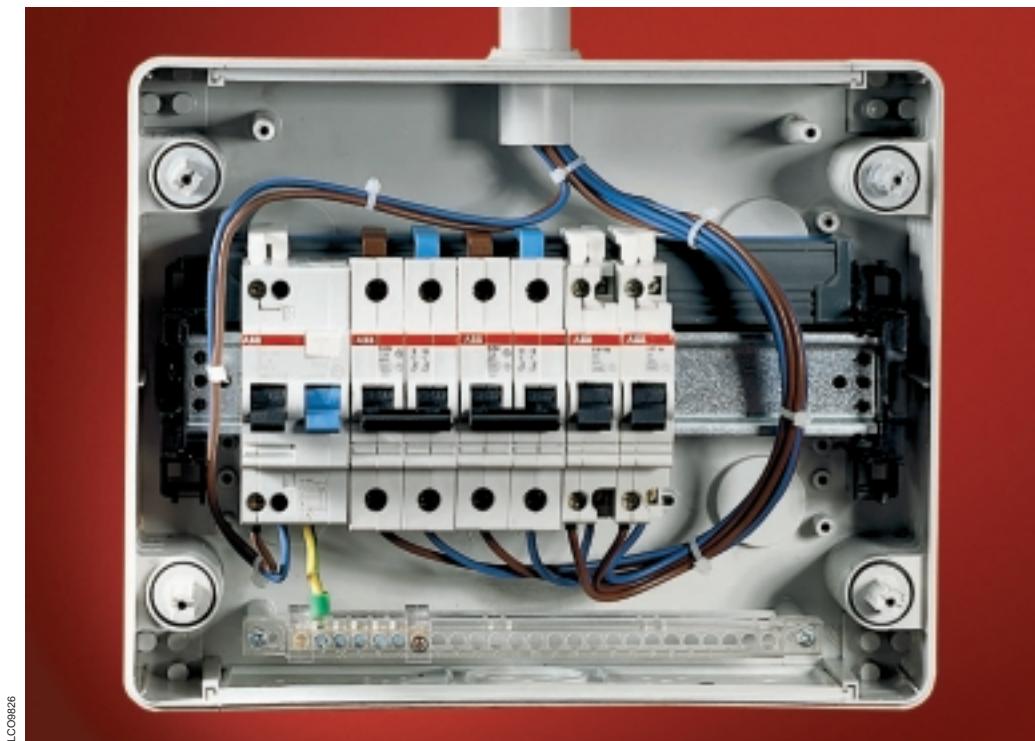
IP 65 Polycarbonate Fly Series

Technical characteristics

- degree of protection IP 65
- insulation class II
- consumer units fitted with horizontally hinged, transparent smoky doors for each row of devices, designed to be fitted with coded lock and key, art. 12 866 (page 2/49)
- available in RAL 7035 grey
- in polycarbonate, self-extinguishing and resistant to abnormal heat and fire up to 960°C (glow wire test) in compliance with IEC 695-2-1 Standard
- material with low halogen content
- dimensional stability under constant operating conditions from -25° to +115° C
- shock resistant 20 joules (IK 10 level)
- high resistance to UV rays
- extractable DIN rail frame to facilitate bench cabling. It can also be dismantled (and snapped on to reassemble it) to make it easier to cable the individual wires

- possibility of installing devices with depths of 53, 68 and 75 mm
- possibility of installation in environments with major risk in the event of fire (CEI 64-8 part 7 section 751 Standard) and in AD-FT environments (CEI 64-2 Standard, IV edition)
- models with 8 and over modules equipped with flanges for facilitated input of conduits and cables
- models with 8 and over modules designed to be used with rapid UNIFIX L cabling system
- consumer units made and produced in compliance with CEI 23-48, CEI 23-49 and IEC 670 Standards
- consumer units supplied complete with:
 - 4 module covers per row
 - 1 self-adhesive label per row
 - 4 screw cover caps for guarantee
 - 1 plate for CEI 23-51 certification
 - instruction sheet

2



FLCC09826

IP 55 and IP 65 wall-mounting consumer units

IP 65 Polycarbonate Fly Series

2/4 modules

8 modules

12 modules

With horizontally hinged transparent door

RAL 7035 grey

2



FLCO9772

Article	Dimensions (mm) WxHxD	Box/pack No. items
12 742	100x160x100	1/33
12 722^(*)	100x160x100	1/33



FLCO973

Article	Dimensions (mm) WxHxD	Box/pack No. items
12 743	205x220x140	1/8



FLCO974

Article	Dimensions (mm) WxHxD	Box/pack No. items
12 745	275x220x140	1/6

^(*)Opaque door

IP 55 and IP 65 wall-mounting consumer units

IP 65 Polycarbonate Fly Series

24 modules

36 modules

With horizontally hinged transparent door

RAL 7035 grey



Article	Dimensions (mm) WxHxD	Box/pack No. items
12 746	275x370x140	1/4

Article	Dimensions (mm) WxHxD	Box/pack No. items
12 747	275x570x140	1/2

IP 55 and IP 65 wall-mounting consumer units

Accessories for IP 65 Polycarbonate Fly Series consumer units

Terminal holders



FLCO9227

Terminal bars



FLCO9226

2

Article	Description	For consumer units type	Box/pack No. items
12 539	for 8 modules	12 743	12/360
12 540	for 12 modules per row	12 745-12 746-12 747	12/144

The terminal board is completed by combining the necessary terminal bars to the terminal holders, taking care to keep the terminal bars separated from each other.

Recommended configuration

No. modules	Consumer unit	Terminal holders Articles x quantity	Terminal bars Articles x quantity
8	12 743	12 539 x 2	12 531 x 2
12	12 745	12 540 x 1	12 531 x 1
			12 532 x 1
24	12 746	12 540 x 2	12 533 x 2
36	12 747	12 540 x 2	12 534 x 2

Terminal holders and terminal bars are supplied separately. In this way, by inserting one or two terminal bars into the terminal holder you can create the best terminal for your requirements, with the advantage of obtaining a terminal block that is cheap as well as personalised, due to the fact that you only need to use material that is really necessary.

Some standard configurations are illustrated in the table.

All the possible configurations that can be created for each type of consumer unit are given in the technical details.

Article	Description No. of holes x Ø holes (mm) + No. holes x Ø holes (mm)	Box/pack No. items
12 531	5x4.5	1/20
12 532	10x4.5 + 3x5.6	1/20
12 533	16x4.5 + 3x5.6	1/20
12 534	15x4.5 + 6x5.6	1/20
12 535	19x4.5 + 6x5.6	1/20

The terminal bars can be installed on any kind of terminal holder; they are snapped onto these with 2 clips per bar, through two holes made at the ends of the bar itself.

Unifix L cabling system



FLCO9857

Article	Type	Description	Box/pack No. items
ED 298 5	XULT208	bar 2P 8 modules	6/24
ED 299 3	XULT212	bar 2P 12 modules	6/24
ED 294 4	XULT412	bar 4P 12 modules	6/24

Spare doors



FLCO9241

Article	Description	For consumer units type	Box/pack No. items
12 567	Opaque RAL 7035 grey for 2 mod.	12 722	10/60
12 577	Transparent for 2 mod.	12 742	10/60
12 565	Transparent for 8 mod.	12 743	10/20
12 566	Transparent for 12, 24, 36 (12x3 rows) mod.	12 745-12 746 12 747	8/16

IP 55 and IP 65 wall-mounting consumer units

Accessories for IP 65 Polycarbonate Fly Series consumer units

Module covers



Article	Colour	No. modules	Box/pack No. items
12 861	RAL 7035 grey	1	50/1500
12 863	RAL 7035 grey	4	50/600

Plastic wall brackets



Article	Description	Box/pack No. items
12 858	in insulating material	1/20

2

Screw lead sealing accessory



Article	Box/pack No. items
12 860	1/50

Semi-flush-mounting frames



Article	For consumer units type	Box/pack No. items
12 591	12 743	5/20
12 592	12 745	5/20
12 593	12 746	5/20
12 594	12 747	5/5

Spare flanges



Article	For consumer units with	Box/pack N. pezzi
12 600	8 modules	30/120
12 601	12, 24, 36 (12x3 rows) modules	20/80

Lock with key



Article	Description	Box/pack No. items
12 866	coded type	1/10

Residential/tertiary/industrial application



F1CQ9804



IMQ mark
in compliance with CEI 23-48 and 23-49 Standards

IP 55 and IP 65 wall-mounting consumer units

IP 65 Polycarbonate Europa Series

Technical characteristics

- degree of protection IP 65
- insulation class II
- available in two versions: with opaque door and with transparent smoky door vertically hinged
- available in RAL 7035 grey
- in polycarbonate, self-extinguishing and resistant to abnormal heat and fire up to 960°C (glow wire test) in compliance with IEC 695-2-1 Standard
- material with low halogen content
- dimensional stability under constant operating conditions from -25° to +115°C
- shock resistant 20 joules (IK 10 level)
- high resistance to UV rays
- door designed to be fitted with coded lock and key, art. 12 866 (page 2/55)
- extractable DIN rail frame to facilitate bench cabling. It can also be dismantled (and snapped on to reassemble it) to make it easier to cable the individual wires
- possibility of installing devices with depths of 53, 68 and 75 mm

- perfectly symmetrical consumer units with the possibility of attaching the door hinge onto the front (by means of the special articulated screws supplied) on the right or left with 140° opening
- possibility of installation in environments with major risk in the event of fire (CEI 64-8 part 7 section 751 Standard) and in AD-FT environments (CEI 64-2 Standard, IV edition)
- models with 8 or more modules designed to be used with the UNIFIX L cabling system
- models with 8 or more modules equipped with flanges to facilitate input of conduits and cables
- consumer units made and produced in compliance with CEI 23-48, CEI 23-49 and IEC 670 Standards
- consumer units supplied complete with:
 - No. 4 module covers per row
 - No. 1 self-adhesive label per row
 - No. 4 screw-cover caps to guarantee
 - accessories for attaching the hinges to the front
 - No. 1 plate for CEI 23-51 certification
 - instruction sheet



FLC08932

2

IP 55 and IP 65 wall-mounting consumer units

IP 65 Polycarbonate Europa Series

4 modules

8 modules

12 modules

18 modules

With opaque, vertically hinged door

RAL 7035 grey

2



FLCO9089



FLCO9090



FLCO9091



FLCO9092

Article	Dimensions (mm) WxHxD	Box/pack No. items
12 724	140x220x140	1/14

Article	Dimensions (mm) WxHxD	Box/pack No. items
12 728	205x220x140	1/9

Article	Dimensions (mm) WxHxD	Box/pack No. items
12 732	275x220x140	1/6

Article	Dimensions (mm) WxHxD	Box/pack No. items
12 733	380x220x140	1/5

With transparent, smoky, vertically hinged door

RAL 7035 grey



FLCO9097



FLCO9098



FLCO9099



FLCO9100

Article	Dimensions (mm) WxHxD	Box/pack No. items
12 744	140x220x140	1/14

Article	Dimensions (mm) WxHxD	Box/pack No. items
12 748	205x220x140	1/9

Article	Dimensions (mm) WxHxD	Box/pack No. items
12 752	275x220x140	1/6

Article	Dimensions (mm) WxHxD	Box/pack No. items
12 753	380x220x140	1/5

IP 55 and IP 65 wall-mounting consumer units

IP 65 Polycarbonate Europa Series

24 modules

36 modules

36 modules

54 modules

With opaque, vertically hinged door

RAL 7035 grey



Article	Dimensions (mm) WxHxD	Box/pack No. items									
12 734	275x370x140	1/4	12 735	380x370x140	1/2	12 736	275x570x140	1/2	12 738	380x570x140	1/2

With transparent, smoky, vertically hinged door

RAL 7035 grey



Article	Dimensions (mm) WxHxD	Box/pack No. items									
12 754	275x370x140	1/4	12 755	380x370x140	1/2	12 756	275x570x140	1/2	12 758	380x570x140	1/2

IP 55 and IP 65 wall-mounting consumer units

Accessories for IP 65 Polycarbonate Europa Series

Terminal holders



Terminal bars



FLCO9227

FLCO9226

2

Article	Description	For consumer units type	Box/pack No. items
12 538	for 4 modules	12 724-12 744	12/360
12 539	for 8 modules	12 728-12 748	12/360
12 540	for 12 modules per row	12 732-12 752 12 734-12 754 12 736-12 756	12/144
12 543	for 18 modules per row	12 733-12 753 12 735-12 755 12 738-12 758	12/108

The terminal board is completed by combining the necessary terminal bars to the terminal holders, taking care to keep the terminal bars separate from each other.

Recommended configuration

No. modules	Consumer unit	Terminal holders Articles x quantity	Terminal bars Articles x quantity
4	12 724-12 744	12 538 x 2	12 531 x 2
8	12 728-12 748	12 539 x 2	12 531 x 2
12	12 732-12 752	12 540 x 1	12 531 x 1 12 532 x 1
18	12 733-12 753	12 543 x 1	12 531 x 1 12 535 x 1
24	12 734-12 754	12 540 x 2	12 533 x 2
36 (18x2 rows)	12 735-12 755	12 543 x 2	12 534 x 2
36 (12x3 rows)	12 736-12 756	12 540 x 2	12 534 x 2
54	12 738-12 758	12 543 x 2	12 535 x 2

Terminal holders and terminal bars are supplied separately. In this way, by inserting one or two terminal bars into the terminal-holder you can create the best terminal for your requirements, with the advantage of obtaining a terminal block that is cheap as well as personalised, due to the fact that you only need to use material that is really necessary.

Some standard configurations are illustrated in the table.

All the possible configurations that can be created for each type of consumer unit are given in the technical details.

Unifix L cabling system

Article	Type	Description	Box/pack No. items
ED 298 5	XULT208	bar 2P 8 modules	6/24
ED 299 3	XULT212	bar 2P 12 modules	6/24
ED 300 9	XULT218	bar 2P 18 modules	6/24
ED 294 4	XULT412	bar 4P 12 modules	6/24
ED 295 1	XULT418	bar 4P 18 modules	6/24

Spare doors

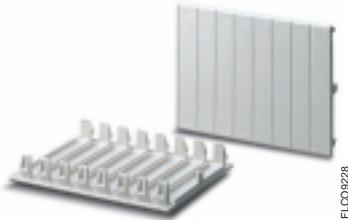


Opaque RAL 7035 grey	Transparent smoky	For consumer units type	Box/pack No. items
12 568	12 578	12 724-12 744	1/8
12 569	12 579	12 728-12 748	1/10
12 570	12 580	12 732-12 752	1/8
12 571	12 581	12 734-12 754	1/5
12 572	12 582	12 736-12 756	1/10
12 573	12 583	12 738-12 758	1/8
12 584	12 586	12 733-12 753	1/20
12 585	12 587	12 735-12 755	1/8

IP 55 and IP 65 wall-mounting consumer units

Accessories for IP 65 Polycarbonate Europa Series

Module covers



FLCO9228

Plastic wall brackets



FLCO9235

Article	Colour	No. modules	Box/pack No. items
12 861	RAL 7035 grey	1	50/1500
12 863	RAL 7035 grey	4	50/600

Article	Description	Box/pack No. items
12 858	in insulating material	1/20

2

Screw lead sealing accessory



FLCO9230

Semi-flush-mounting frames



FLCO9236

Article	Box/pack No. items
12 860	1/50

Article	For consumer units type	Box/pack No. items
12 590	12 724-12 744	5/20
12 591	12 728-12 748	5/20
12 592	12 732-12 752	5/20
12 593	12 734-12 754	5/20
12 594	12 736-12 756	5/5
12 595	12 738-12 758	5/5
12 596	12 733-12 753	5/5
12 597	12 735-12 755	5/5

Spare flanges



FLCO9237

Lock with key



FLCO9240

Article	For consumer units type	Box/pack No. items
12 600	8 Modules	30/120
12 601	12, 24, 36 (12x3 file) Modules	20/80
12 602	18, 36 (18x2 file) Modules	20/80

Article	Description	Box/pack No. items
12 866	coded type	1/10

Tertiary/industrial application



Panel fronts

IP 40 and IP 55 panel fronts

IP 40 fronts for panel

Technical characteristics

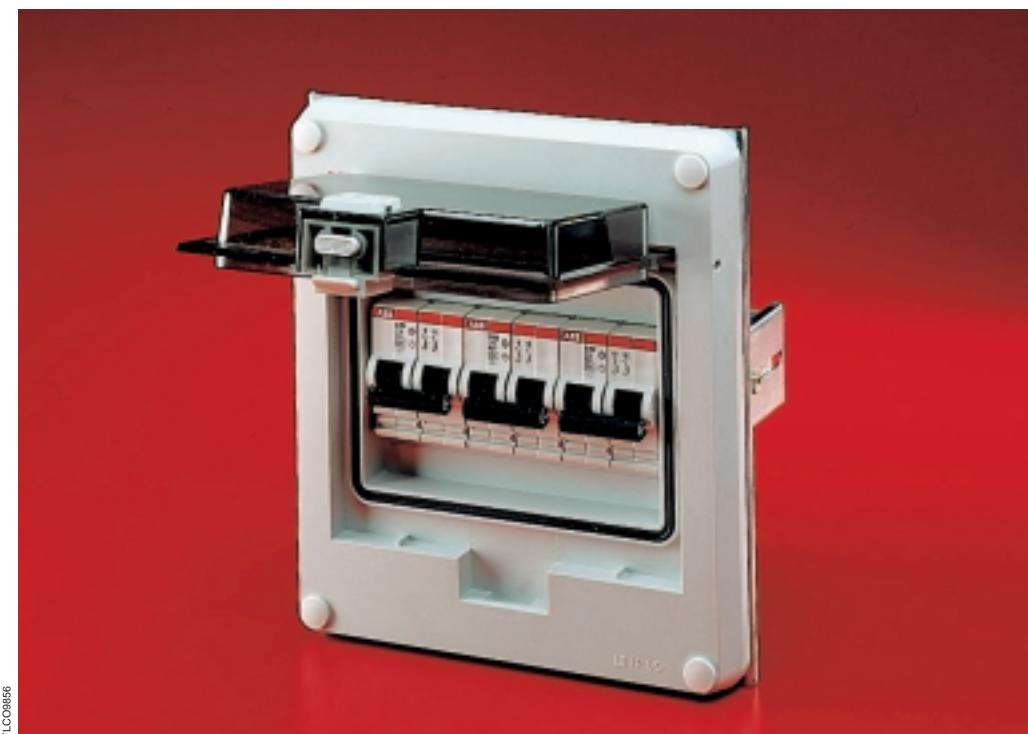
- degree of protection IP 40
- insulation class II
- in polycarbonate, self-extinguishing and resistant to abnormal heat and fire up to 960°C (glow wire test) in compliance with IEC 695-2-1 Standard
- available in RAL 7035 grey
- resistant to chemical agents (water, saline solutions, acids, mineral bases and oils), to atmospheric agents and UV rays
- dimensional stability under constant operating conditions from -20° to +85° C

IP 55 fronts for panel

Technical characteristics

- degree of protection IP 55
- insulation class II
- available with transparent smoky door horizontally hinged in the version with lock and lead-sealable spring
- door designed to take a lock with coded key art. 12 865 (page 2/59)
- available in RAL 7035 grey
- in polycarbonate, self-extinguishing and resistant to abnormal heat and fire up to 650°C (glow wire test) in compliance with IEC 695-2-1 Standard
- dimensional stability under constant operating conditions from -20° to +85° C
- shock resistant 6 joules
- resistant to chemical agents (water, saline solutions, acids, mineral bases and oils), to atmospheric agents and UV rays
- fronts supplied with:
 - 4 module covers per row
 - instruction sheet

2



FLC0986

Panel fronts

IP 40 and IP 55 panel fronts

2 modules

3 modules

4 modules

IP 40 panel fronts

7035 RAL grey



Article	Dimensions (mm) WxHxD	Box/pack No. items	Article	Dimensions (mm) WxHxD	Box/pack No. items	Article	Dimensions (mm) WxHxD	Box/pack No. items
12 362	81x90x50	1/40	12 363	99x90x50	1/40	12 364	117x90x50	1/24

4 modules

6 modules

10 modules

IP 55 panel fronts

Spring closing
7035 RAL grey

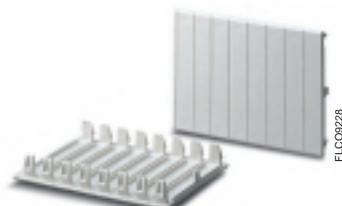


Article	Dimensions (mm) WxHxD	Box/pack No. items	Article	Dimensions (mm) WxHxD	Box/pack No. items	Article	Dimensions (mm) WxHxD	Box/pack No. items
12 658	125x180x34	1/10	12 659	160x180x34	1/10	12 660	230x180x34	1/10

Panel fronts

Accessories for IP 55 panel fronts

Module covers



Lock with key



Article	Colour	No. modules	Box/pack No. items
12 861	RAL 7035 grey	1	50/1500
12 863	RAL 7035 grey	4	50/600

Article	Description	Box/pack No. items
12 865	coded type	1/10

Spare transparent smoky doors

Spring closing



Article	For fronts type	Box/pack No. items
12 696	12 658	10/40
12 697	12 659	10/40
12 698	12 660	10/20



Index

Livorno Series flush and wall-mounting consumer units	
Flush-mounting consumer units	3/3
Wall-mounting consumer units	3/3

Tertiary/industrial application



Emergency consumer units

Livorno Series flush and wall-mounting consumer units

Livorno series flush-mounting consumer units

Technical characteristics

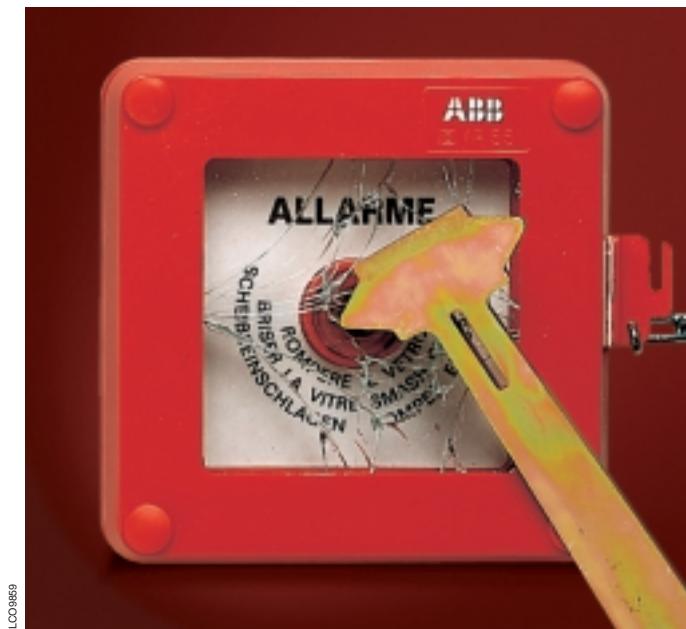
- degree of protection IP 40 and IP 55 depending on the version
- insulation class II
- available in the colours RAL 3000 red and RAL 7035 grey
- in thermoplastic material, self-extinguishing and resistant to abnormal heat and fire up to 650°C (glow wire test) in compliance with IEC 695-2-1 Standard
- dimensional stability under constant operating conditions from -25° to +85° C
- resistance to chemical (water, saline solutions, acids, mineral bases and oils) and environmental agents
- high resistance to UV rays
- consumer units fitted with lock and coded key
- door front with breakable glass 0.75 J (IK 05 level)
- possibility of installation in environments with major risk in the event of fire (CEI 64-8 part 7 section 751 Standard) and in AD-FT environments (CEI 64-2 Standard, IV edition)
- consumer units made and produced in compliance with CEI 23-48, CEI 23-49 and IEC 670 Standards
- consumer units supplied complete with:
 - 4 module covers per row
 - 4 screw-cover caps to guarantee
 - 1 certification plate

Livorno series flush-mounting consumer units

Technical characteristics

- degree of protection IP 40, IP 55 and IP 65 depending on the version
- insulation class II
- available in colours RAL 3000 red and RAL 7035 grey
- in thermoplastic material, self-extinguishing and resistant to abnormal heat and fire up to 650°C (glow wire test) in compliance with IEC 695-2-1 Standard
- dimensional stability under constant operating conditions from -25° to +85° C
- resistance to chemical (water, saline solutions, acids, mineral bases and oils) and environmental agents
- high resistance to UV rays
- consumer units fitted with lock and coded key
- door front with breakable glass 0.75 J (IK 05 level)
- possibility of installation in environments with major risk in the event of fire (CEI 64-8 part 7 section 751 Standard) and in AD-FT environments (CEI 64-2 Standard, IV edition)
- articles 13 170 and 13 174 can be fitted with the following accessories:
 - terminal holder art. 12 539*
 - semi-flush-mounting frame art. 12 591
 - spare flange art. 12 600
- consumer units made and produced in compliance with CEI 23-48, CEI 23-49 and IEC 670 Standards
- consumer units supplied complete with:
 - 4 module covers per row
 - 4 screw-cover caps to guarantee
 - 1 certification plate

* see page 2/54 for installable terminal bars



Emergency consumer units

Livorno Series flush and wall-mounting consumer units

100x100x50 mm

200x245x82 mm

200x245x82 mm

Flush-mounting version

IP 55
RAL 3000 red
Possibility of installing on flush-mounting enclosure with inter-axis of 83.5 mm.
With luminous button (E10-12/24V incandescence and 220V fluorescence), with 1 NO contact + 1 NC contact (2A, 250 V) complete with glass-breaking hammer



IP 40
RAL 3000 red



IP 40
RAL 7035 grey



3

Article	No. items Box/pack
13 183	1/13

Article	Description	No. items Box/pack
13 144	with DIN x 6 mod. guide	1/7
13 154	with panel	1/7

Article	Description	No. items Box/pack
13 143	with DIN x 6 mod. guide	1/7
13 153	with panel	1/7

Glass-breaking hammer

Article	No. items Box/pack
13 186	1/10

100x100x50 mm

205x220x140 mm

205x220x140 mm

165x180x110 mm

Wall-mounting version

IP 55
RAL 3000 red
With luminous button (E10-12/24V incandescence and 220V fluorescence), with 1 NO contact + 1 NC contact (2A, 250 V) complete with glass-breaking hammer



IP 65
RAL 3000 red
Fitted with flanges for facilitated branch connections



IP 65
RAL 7035 grey
Fitted with flanges for facilitated branch connections



IP 55
RAL 3000 red



Article	No. items Box/pack
13 180	1/14

Article	Description	No. items Box/pack
13 171	with DIN x 6 mod. guide	1/6
13 175	with panel	1/6

Article	Description	No. items Box/pack
13 170	with DIN x 6 mod. guide	1/6
13 174	with panel	1/6

Article	Description	No. items Box/pack
13 161	with DIN x 6 mod. guide	1/12
13 165	with panel	1/12

Emergency consumer units

Livorno Series flush and wall-mounting consumer units

3

165x180x110 mm

170x210x110 mm

170x210x110 mm

Wall-mounting version

IP 55

RAL 7035 grey

IP 40

RAL 3000 red

IP 40

RAL 7035 grey



		Box/pack
13 160	with DIN x 6 mod. guide	1/12
13 164	with panel	1/12

Article	Description	N.pezzi Box/pack
13 141	with DIN x 6 mod. guide	1/6
13 151	with panel	1/6

Index

Switchboards for industrial applications

Europa Series switchboards for industrial applications	4/3
Switchboards for industrial applications with blank front	4/9

Marostica Series switchboards

Marostica Series modular switchboards	4/13
Marostica Series cabled switchboards	4/19

Tertiary/industrial application



FLC09810



IMQ mark
in compliance with CEI 23-48 Standards

Switchboards

Europa Series switchboards for industrial applications

Technical characteristics

- degree of protection IP 65
- insulation class II
- available in the versions with vertically hinged opaque and transparent smoky doors
- available in RAL 7035 grey
- in polycarbonate material, self-extinguishing and resistant to abnormal heat and fire up to 960°C (glow wire test) in compliance with IEC 695-2-1 Standard
- material with low halogen content
- dimensional stability under constant operating conditions from -25° to +115° C
- shock resistant 20 joules (IK 10 level)
- high resistance to UV rays
- perfectly symmetrical switchboards with the possibility of attaching the door hinge onto the front (by means of the special articulated screws supplied) on the right or left with 140° opening

- doors designed to take lock with coded key, art. 12 866 (page 4/6)
- designed for the insertion of an extractable frame with pre-drilled panelling for mounting 100, 125 and 160 A circuit breakers
- possibility of installation in environments with major risk in the event of fire (CEI 64-8 part 7 section 751 Standard) and in AD-FT environments (CEI 64-2 Standard, IV edition)
- all models (except for art. 12 764 and 12 784) are equipped with flanges to facilitate insertion of conduits and cables
- switchboards made and produced in compliance with CEI 23-48, CEI 23-49 and IEC 670 Standards
- switchboards supplied complete with:
 - 4 screw-cover caps to guarantee
 - accessories for hinging the front part
 - 1 certification plate
 - instruction sheet



Switchboards

Europa Series switchboards for industrial applications

140x220x140 mm

205x220x140 mm

275x220x140 mm

Opaque vertically hinged door

RAL 7035 grey



FLC09146



FLC09145



FLC09143

4

Article	Dimensions (mm) WxHxD	Box/pack No. items	Article	Dimensions (mm) WxHxD	Box/pack No. items	Article	Dimensions (mm) WxHxD	Box/pack No. items
12 764	140x220x140	1/14	12 768	205x220x140	1/9	12 772	275x220x140	1/6

Transparent, smoky vertically hinged door

RAL 7035 grey



FLC09138



FLC09136



FLC09137

4

Article	Dimensions (mm) WxHxD	Box/pack No. items	Article	Dimensions (mm) WxHxD	Box/pack No. items	Article	Dimensions (mm) WxHxD	Box/pack No. items
12 784	140x220x140	1/14	12 788	205x220x140	1/9	12 792	275x220x140	1/6

Switchboards

Europa Series switchboards for industrial applications

275x370x140 mm

275x570x140 mm

380x570x140 mm

Opaque vertically hinged door

RAL 7035 grey



FLC09144



FLC09141



FLC09142

Article	Dimensions (mm) WxHxD	Box/pack No. items	Article	Dimensions (mm) WxHxD	Box/pack No. items	Article	Dimensions (mm) WxHxD	Box/pack No. items
12 774	275x370x140	1/4	12 776	275x570x140	1/2	12 778	380x570x140	1/2

Transparent, smoky vertically hinged door

RAL 7035 grey



FLC09139



FLC09140



FLC09135

Article	Dimensions (mm) WxHxD	Box/pack No. items	Article	Dimensions (mm) WxHxD	Box/pack No. items	Article	Dimensions (mm) WxHxD	Box/pack No. items
12 794	275x370x140	1/4	12 796	275x570x140	1/2	12 798	380x570x140	1/2

Switchboards

Accessories for Europa Series switchboards for industrial applications

Kit for modular circuit breakers

Circuit breakers 100, 125 160 A on DIN guide



FLCO9246

DIN section bars

Complete with screws



FLCO9250

Universal cutter

For drill



FLCO9254

Article	For switchboards type	No. modules	Box/pack No. items
12 820	12 774 - 12 794	12 for 1 rows	1/8
12 821	12 776 - 12 796	24 for 2 rows	1/5
12 822	12 778 - 12 798	36 for 2 rows	1/5

Article	For switchboards type	Box/pack No. items
12 852	12 764 - 12 784	50/600
12 854	12 768 - 12 788	30/360
12 855	12 772 - 12 792 12 774 - 12 794 12 776 - 12 796	50/200
12 856	12 778 - 12 798	50/200

Article	Box/pack No. items
12 894	1/30

to use for side branch connections

4

Base plates

In aluminium-plated metal



FLCO9249

Base plates

In insulating material



FLCO9248

Fixed counter-doors



FLCO9247

Lock with key



FLCO9240

Article	For switchboards type	Box/pack No. items
12 842	12 764 - 12 784	1/10
12 844	12 768 - 12 788	1/10
12 845	12 772 - 12 792	1/10
12 846	12 774 - 12 794	1/5
12 847	12 776 - 12 796	1/5
12 848	12 778 - 12 798	1/5

Article	For switchboards type	Box/pack No. items
12 832	12 764 - 12 784	1/10
12 834	12 768 - 12 788	1/10
12 835	12 772 - 12 792	1/10
12 836	12 774 - 12 794	1/5
12 837	12 776 - 12 796	1/5
12 838	12 778 - 12 798	1/5

Article	For switchboards type	Box/pack No. items
12 825	12 774 - 12 794	1/10
12 826	12 776 - 12 796	1/10
12 827	12 778 - 12 798	1/10

Article	For switchboards type	Box/pack No. items
12 866	coded type	1/10

Module covers



FLCO9228

Wall brackets



FLCO9235

Article	Colour	No. modules	Box/pack No. items	Article	Description	Box/pack No. items
12 861	RAL 7035 grey	1	50/1500	12 858	in insulating material	1/20
12 863	RAL 7035 grey	4	50/600			

Switchboards

Accessories for Europa Series switchboards for industrial applications

Terminal holders



FLC09294

Article	For switchboards type	Box/pack No. items
12 538	12 764 - 12 784	12/360
12 539	12 768 - 12 788	12/360
12 540	12 772 - 12 792 12 774 - 12 794 12 776 - 12 796	12/144
12 543	12 778 - 12 798	12/108

The terminal board is completed by combining the necessary terminal bars to the terminal holders, taking care to keep the terminal bars separate from each other.

Recommended configuration

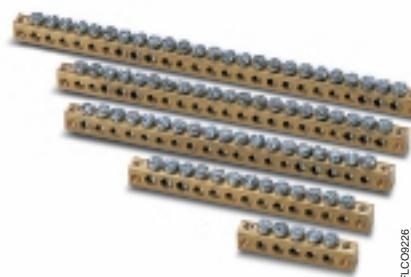
N. modules	Consumer unit	Terminal holders Articles x quantity	Terminal bars Articles x quantity
12 764 - 12 784		12 538 x 2	12 531 x 2
12 768 - 12 788		12 539 x 2	12 531 x 2
12 772 - 12 792		12 540 x 1	12 531 x 1 12 532 x 1
12 774 - 12 794		12 540 x 2	12 533 x 2
12 776 - 12 796		12 540 x 2	12 534 x 2
12 778 - 12 798		12 543 x 2	12 535 x 2

Terminal holders and terminal bars are supplied separately. In this way, by inserting one or two terminal bars into the terminal holder you can create the best terminal for your requirements, with the advantage of obtaining a terminal block that is cheap as well as personalised, due to the fact that you only need to use material that is really necessary.

Some standard configurations are illustrated in the table.

All the possible configurations that can be created for each type of consumer unit are given in the technical details.

Terminal bars



FLC09226

Article	Description No. of holes x Ø holes (mm) + No. of holes x Ø holes (mm)	Box/pack No. items
12 531	5x4.5	1/20
12 532	10x4.5 + 3x5.6	1/20
12 533	16x4.5 + 3x5.6	1/20
12 534	15x4.5 + 6x5.6	1/20
12 535	19x4.5 + 6x5.6	1/20

The terminal bars can be installed on any kind of terminal holder; they are snapped onto these with 2 clips per bar, through two holes made at the ends of the bar itself.

4

Spare doors



FLC09245

Opaque RAL 7035 grey	Transparent smoky	For switchboards type	Box/pack No. items
12 568	12 578	12 764 - 12 784	1/8
12 569	12 579	12 768 - 12 788	1/10
12 570	12 580	12 772 - 12 792	1/8
12 571	12 581	12 774 - 12 794	1/5
12 572	12 582	12 776 - 12 796	1/10
12 573	12 583	12 778 - 12 798	1/8

Plastic spacers



Spare flanges



FLC09237

Semi-flush-mounting



FLC09236

Article	Dimensions (mm)	Box/pack No. items
12 851 20 H 30 modules		10/60

Article	For switchboards type	Box/pack No. items
12 600	12 768 - 12 788	30/120
12 601	12 772 - 12 792 12 774 - 12 794 12 776 - 12 796	20/80
12 602	12 778 - 12 798	20/80

Article	For switchboards type	Box/pack No. items
12 590	12 764 - 12 784	5/20
12 591	12 768 - 12 788	5/20
12 592	12 772 - 12 792	5/20
12 593	12 774 - 12 794	5/20
12 594	12 776 - 12 796	5/5
12 595	12 778 - 12 798	5/5

Tertiary/industrial application



MQ mark
in compliance with CEI 23-48 Standard

Switchboards

Switchboards for industrial applications with blank front

Technical characteristics

- degree of protection IP 65
- insulation class II
- available in RAL 7035 grey
- available in the versions with transparent smoky doors
- in polycarbonate material, self-extinguishing and resistant to abnormal heat and fire up to 960°C (glow wire test) in compliance with IEC 695-2-1 Standard
- material with low halogen content
- dimensional stability under constant operating conditions from -25° to +115° C
- shock resistant 20 joules (IK 10 level)
- perfectly symmetrical switchboards with possibility of hinging the door onto the front (by means of the special articulated screws supplied) on the right or left with 140° opening

- doors designed to take lock with coded key, art. 12 866 (page 4/11)
- possibility of installation in environments with major risk in the event of fire (CEI 64-8 part 7 section 751 Standard) and in AD-FT environments (CEI 64-2 Standard, IV edition)
- all models (except for art. 13 200) are equipped with flanges for the facilitated insertion of conduits and cables
- switchboards made and produced in compliance with CEI 23-48, CEI 23-49 and IEC 670 Standards
- switchboards supplied complete with:
 - 4 screw-cover caps to guarantee
 - 1 self-adhesive label per row
 - accessories for hinging the front part
 - 1 certification plate
 - 1 semi-flush-mounting frame
 - instruction sheet



FLCC9855

4

Switchboards

Switchboards for industrial applications with blank front

4 modules

12 modules

12 modules

Transparent, smoky door

RAL 7035 grey



FLCO9147



FLCO9156



FLCO9165

4

Article	Dimensions (mm) WxHxD	Box/pack No. items
13 200	136x540x140	1/8

Article	Dimensions (mm) WxHxD	Box/pack No. items
13 204	275x370x140	1/4

Article	Dimensions (mm) WxHxD	Box/pack No. items
13 205	275x455x140	1/3

12 modules

18 modules

Transparent, smoky door

RAL 7035 grey



FLCO9295



FLCO9296

Article	Dimensions (mm) WxHxD	Box/pack No. items
13 206	275x570x140	1/3

Article	Dimensions (mm) WxHxD	Box/pack No. items
13 208	380x570x140	1/2

Switchboards

Accessories for switchboards for industrial applications with blank front

Terminal holders



FLCO8227

Article	Description	For switchboards type	Box/pack No. items
12 540	for 12 modules	13 204 - 13 205 - 13 206	12/144
12 543	for 18 modules	13 208	12/108

The terminal board is completed by combining the necessary terminal bars to the terminal holders, taking care to keep the terminal bars separate from each other.

Recommended configuration

No. modules	Consumer unit	Terminal holders Articles x quantity	Terminal bars Articles x quantity
12	13 204 - 13 205 13 206	12 540 x 1	12 531 x 1 12 532 x 1
18	13 208	12 543 x 1	12 531 x 1 12 535 x 1

Terminal holders and terminal bars are supplied separately. In this way, by inserting one or two terminal bars into the terminal holder you can create the best terminal for your requirements, with the advantage of obtaining a terminal block that is cheap as well as personalised, due to the fact that you only need to use material that is really necessary.

Some standard configurations are illustrated in the table.

All the possible configurations that can be created for each type of consumer unit are given in the technical details.

Terminal bars



FLCO8226

Article	Description	Box/pack No. items
12 531	5x4,5	1/20
12 532	10x4,5 + 3x5,6	1/20
12 533	16x4,5 + 3x5,6	1/20
12 534	15x4,5 + 6x5,6	1/20
12 535	19x4,5 + 6x5,6	1/20

The terminal bars can be installed on any kind of terminal holder; they are snapped onto these with 2 clips per bar, through two holes made at the ends of the bar itself.

4

Wall brackets



FLCO8235

Article	Description	Box/pack No. items
12 858	in insulating material	1/20

Universal cutter for drill



FLCO8254

Article	Box/pack No. items
12 894	1/30

To be used for side branch connections

Module covers



FLCO8228

Article	Description	For switchboards type	Box/pack No. items
12 861	RAL 7035 grey	1	50/1500
12 863	RAL 7035 grey	4	50/600

Lock with key



FLCO9240

Article	Description	Box/pack No. items
12 866	tipo cifrato	1/10

Spare flanges



FLCO8293

Article	Description	For switchboards type	Box/pack No. items
12 601	13 204/13 205/13 206	20/80	
12 602	13 208	20/80	

Tertiary/industrial application



FLCC9898



IMQ mark
in compliance with CEI 23-48 Standard

Switchboards

Marostica Series modular switchboards

Technical characteristics

- degree of protection IP 65
- insulation class II
- available in the versions that can be fitted with sockets with sloped consumer unit and with vertical flush-mounting socket with locking switch
- available in RAL 7035 grey
- in polycarbonate material, self-extinguishing and resistant to abnormal heat and fire up to 960°C (glow wire test) in compliance with IEC 695-2-1 Standard
- material with low halogen content
- dimensional stability under constant operating conditions from -25° to +115° C
- shock resistant 20 joules (IK 10 level)
- high resistance to UV rays
- depth of socket compartment: 85 mm
- perfectly symmetrical switchboards with possibility of hinging the door onto the front (by means of the special articulated screws supplied) on the right or left with 140° opening
- doors designed to take lock with coded key, art. 12 866
(page 4/11)

- possibility of installation in environments with major risk in the event of fire (CEI 64-8 part 7 section 751 Standard) and in AD-FT environments (CEI 64-2 Standard, IV edition)
- designed to be mounted with the main sockets on the market complying with IEC 309-1 Standards through the use of universal plates
- all models (except for art. 13 210) are equipped with flanges for the facilitated insertion of conduits and cables
- switchboards made and produced in compliance with CEI 23-48, and IEC 670 Standards
- switchboards supplied complete with:
 - 4 screw-cover caps to guarantee
 - 1 self-adhesive label per row
 - accessories for attaching the hinge to the front part
 - 1 certification plate
 - 1 semi-flush-mounting frame
 - instruction sheet
- articles 13 224, 13 226 and 13 228 are specifically for sockets with locking switch, fixed directly without plates

4



FLP8811

Switchboards

Accessories for Marostica Series modular switchboards

4 modules

Can be equipped
with 3 plates

RAL 7035 grey

12 modules

Can be equipped
with 4 plates

RAL 7035 grey

12 modules

Can be equipped
with 6 plates

RAL 7035 grey

18 modules

Can be equipped
with 9 plates

RAL 7035 grey



FLC09157



FLC09154



FLC09148



FLC09153

Article	Dimensions (mm) WxHxD	Box/pack No. items
13 210	136x540x140	1/8

Article	Dimensions (mm) WxHxD	Box/pack No. items
13 215	275x455x140	1/3

Article	Dimensions (mm) WxHxD	Box/pack No. items
13 216	275x570x140	1/3

Article	Dimensions (mm) WxHxD	Box/pack No. items
13 218	380x570x140	1/2

Dedicated switchboards for vertical flush-mounting sockets with block circuit breaker

12 modules

Can be equipped
with 3 sockets

RAL 7035 grey

12 modules

Can be equipped
with 4 sockets

RAL 7035 grey

18 modules

Can be equipped
with 6 sockets

RAL 7035 grey



FLC09149



FLC09152



FLC09160

Article	Dimensions (mm) WxHxD	Box/pack No. items
13 224	275x370x140	1/4

Article	Dimensions (mm) WxHxD	Box/pack No. items
13 226	275x570x140	1/3

Article	Dimensions (mm) WxHxD	Box/pack No. items
13 228	380x570x140	1/2

Fixed directly without plates

Switchboards

Accessories for Marostica Series modular switchboards

Plates for switchboards

Plates for switchboards art. 13 210 – 13 215 – 13 216 – 13 218
suitable to take angled consumer unit sockets



Plates for switchboards

Plates for switchboards art. 13 210 – 13 215 – 13 216 – 13 218
suitable to take vertical, flush-mounting sockets with block circuit breakers



Article	Type of plate	Description	Box/pack No. items
13 251	S	Blank	10/60
13 261	D	Blank	10/40
13 253	S	For 1 socket	10/60
13 263	D	For 2 sockets	10/40
13 255	S	For 1 socket	10/60
13 265	D	For 2 sockets	10/40
13 257	S	For 1 socket	10/60
13 267	D	For 2 sockets	10/40
13 245*	S	216R.../216RU... For 1 socket	10/60
13 246*	S	316R.../316RU.../416R.../416RU... For 1 socket	10/40
13 247*	S	232RU.../332RU.../432RU... For 1 socket	10/60

S = Single – suitable to take one IEC 309-1 16 A or 32 A socket

D = Double – suitable to take 2 IEC 309-1 16A or 32 A sockets

* ABB CEWE socket (snap-on fixing).

For further information consult ABB CEWE catalogue (A114 Eng Feb 99)

Article	Type of plate	Make	Description	Box/pack No. items
13 273	D	ABB	Compact interlocked 16 A 113 x 226 mm	10/40
13 283	D	GEWISS	Compact interlocked 16 A – 32 A Without fuse-holder base Series 66 IB 103 x 220 mm	10/40
13 285	D	GEWISS	Compact interlocked 16 A – 32 A Without fuse-holder base Series 66 IB 155 x 115 mm	10/40
13 275	D	ILME	Compact interlocked 16 A – 32 A Series 113 x 226 mm	10/40
13 279	D	ILME	Compact interlocked 16 A – 32 A Series SQ 145 x 115 mm	10/40
13 281	D	SCAME	Compact interlocked 16 A – 32 A Series BK 115 x 45 mm	10/40
13 287	D	OVA	Horizontal interlocked 16 A 155 x 115 mm	10/40

D = Double – suitable for taking 1 IEC 309-1, flush-mounting socket with block circuit breaker

Table for selecting correct combination of angled consumer unit sockets

Rated cur. (In)	IP level	No. Poles	Type of plate							
			Type of plate	For sockets ABB	For sockets Gewiss	For sockets Scame	For sockets Ilme	For sockets Palazzoli	For sockets Legrand	For sockets ABB CEWE
16 A	IP44	2P+T	S	13 253	13 253	13 253	13 253	13 253	13 253	13 245
		3P+T	D	13 263	13 263	13 263	13 263	13 263	13 263	
		3P+N+T	S	13 253	13 253	13 253	13 253	13 253	13 253	13 246
	IP67	2P+T	D	13 265	13 263	13 263	13 265	13 265	13 265	
		3P+T	S	13 255	13 253	13 253	13 253	13 253	13 253	
		3P+N+T	D	13 265	13 263	13 263	13 263	13 263	13 263	
32 A	IP44	2P+T	S	13 255	13 255	13 257	13 255		13 247	
		3P+T	D	13 265	13 265	13 267	13 265		13 247	
		3P+N+T	S	13 255	13 255	13 257	13 255		13 247	
		3P+N+T	D	13 265	13 265	13 267	13 265		13 247	
	IP67	2P+T	S	13 257	13 255	13 257	13 255	13 255		
		3P+T	D	13 267	13 265	13 267	13 265	13 265		
		3P+N+T	S	13 257	13 255	13 257	13 255	13 255		
		3P+N+T	D	13 267	13 265	13 267	13 265	13 265		

S = Single - suitable to take one IEC 309-1 16 A or 32 A socket
D = Double - suitable to take 2 IEC 309-1 16A or 32 A sockets

Switchboards

Accessories for Marostica Series modular switchboards

Plates for switchboards

Plates for switchboards art. 13 210 – 13 215 – 13 216 – 13 218
suitable to take residential devices



Article	Type of plate	Description	Box/pack No. items
13 259	S	For 1 single or double sealed command	10/60
13 269	D	For 2 single or double sealed commands	10/40
13 271	D	For modular device supports with inter-axis of 83.5 mm	10/40

S = Single – suitable to take a single or double sealed command (see page 5/16 and 5/17)

D = Double – suitable to take two single or double sealed commands (see page 5/16 and 5/17) and supports for modular devices with inter-axis of 83.5 mm.

Plates for switchboards

Plates for switchboards art. 13 224 – 13 226 – 13 228



Article	Description	Box/pack No. items
13 240	Blank	10/60

Terminal holders



Article	Description	For switchboards type	Box/pack No. items
12 540	for 12 modules	13 215 - 13 224 13 216 - 13 226	12/144
12 543	for 18 modules	13 218 - 13 228	12/108

The terminal board is completed by combining the necessary terminal bars to the terminal holders, taking care to keep the terminal bars separate from each other.

Recommended configuration

No. modules	Consumer unit	Terminal holders Articles x quantity	Terminal bars Articles x quantity
12	13 215 - 13 224 13 216 - 13 226	12 540 x 1	12 531 x 1 12 532 x 1
18	13 218 - 13 228	12 543 x 1	12 531 x 1 12 535 x 1

Terminal holders and terminal bars are supplied separately. In this way, by inserting one or two terminal bars into the terminal holder you can create the best terminal for your requirements, with the advantage of obtaining a terminal block that is cheap as well as personalised, due to the fact that you only need to use material that is really necessary.

Some standard configurations are illustrated in the table.

All the possible configurations that can be created for each type of consumer unit are given in the technical details.

Terminal bars



Article	Description No. of holes x Ø holes (mm) + No. holes x Ø holes (mm)	Box/pack No. items
12 531	5x4.5	1/20
12 532	10x4.5 + 3x5.6	1/20
12 533	16x4.5 + 3x5.6	1/20
12 534	15x4.5 + 6x5.6	1/20
12 535	19x4.5 + 6x5.6	1/20

The terminal bars can be installed on any kind of terminal holder; they are snapped onto these with 2 clips per bar, through two holes made at the ends of the bar itself.

Switchboards

Accessories for Marostica Series modular switchboards

Spare flanges



Lock with key



Article	For switchboards type	Box/pack No. items
12 601	13 244 -13 216 - 13 226	20/80
12 602	13 218 - 13 228	20/80

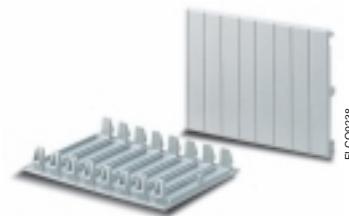
Article	Description	Box/pack No. items
12 866	coded type	1/10

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Wall brackets



Module covers



Article	Description	Box/pack No. items
12 858	in insulating material	1/20

Article	Colour	No. modules	Box/pack No. items
12 861	RAL 7035 grey	1	50/1500
12 863	RAL 7035 grey	4	50/600

Tertiary/industrial application



Switchboards

Marostica Series cabled switchboards

Technical characteristics

- degree of protection IP 44 and IP 55, depending on the version
- insulation class II
- available in RAL 7035 grey
- in polycarbonate material, self-extinguishing and resistant to abnormal heat and fire up to 960°C (glow wire test) in compliance with IEC 695-2-1 Standard
- material with low halogen content
- dimensional stability under constant operating conditions from -25° to +115° C
- shock resistant 20 joules (IK 10 level)
- high resistance to UV rays
- possibility of hinging the door onto the front (by means of the special articulated screws supplied) on the right or left with

140° opening

- possibility of installation in environments with major risk in the event of fire (CEI 64-8 part 7 section 751 Standard) and in AD-FT environments (CEI 64-2 Standard, IV edition)
- made with IMQ mark sockets and circuit breakers
- other types of configurations available on request
- all models (except for art. 13 291 and 13 292) are equipped with flanges for the facilitated insertion of conduits and cables
- switchboards supplied complete with:
 - 4 screw-cover caps to guarantee
 - 1 self-adhesive label per row
 - accessories for hinging the front part
 - 1 cable clamp + 1 nut for cable clamp
 - 1 lock with coded key
 - 1 certification plate
 - instruction sheet



F1PFR9810

Technical details.....page 9/1

Switchboards

Marostica Series cabled switchboards

IP 44

IP 44 - IP 55



IP44 switchboards

Article	6 KA MCBs		Box/pack No. items	
	Socket O.ty	Type		
13 291	1	16 A Bi-socket	1	2p 32 A
	1	16 A Schuko	1/1	
	1	2p+E 16 A 220 V		
13 292	1	16 A Bi-socket	1	4p 32 A
	1	16 A Schuko	1/1	
	1	3p+E 16 A 380 V		

Article	6 KA MCBs		Box/pack No. items	
	Socket O.ty	Type		
13 322	1	Interlocked	1	1p+N 16 A
	1	2p+E 16 A 220 V	1/1	
	1	3p+E 16 A 380 V		
13 323	1	Interlocked	1	1p+N 16 A
	1	2p+E 16 A 220 V	1/1	
	1	3p 32 A		
13 324	1	Interlocked	2	1p+N 16 A
	1	3p+E 16 A 380 V	1/1	
13 324	2	Interlocked	2	1p+N 16 A
	2	2p+E 220 V		

IP55 switchboards

Article	6 KA MCBs		Box/pack No. items	
	Socket O.ty	Type		
13 325	1	Interlocked	1	1p+N 16 A
	1	2p+E 16 A 220 V	1/1	
	1	3p+E 16 A 380 V		
13 326	1	Interlocked	1	1p+N 16 A
	1	2p+E 16 A 220 V	1/1	
	1	3p 32 A		
13 327	1	Interlocked	2	1p+N 16 A
	1	3p+E 16 A 380 V	1/1	
13 327	2	Interlocked	2	1p+N 16 A
	2	2p+E 220 V		

Note: Other configurations are available on request

Switchboards

Marostica Series cabled switchboards

IP 44

IP 44 - IP 55



Article Box/pack	Socket		6 KA MCBs		No. items
	Q.ty	Type	Q.ty	Type	
13 328	1	16 A Schuko	1	1p+N 16 A	
	1	16 A Schuko	1	3p 16 A	
	1	2p+E 16 A 220 V	1	4p 16 A	1/1
	1	3p+E 16 A 220 V			
	1	3p+N+E 16 A 380 A			

IP44 switchboards

Article	Socket		6 KA MCBs		Box/pack No. items
	Q.ty	Type	Q.ty	Type	
13 329	1	2p+E 16 A 220 V	1	1p+N 16 A	
	2	3p+E 16 A 380 V	1	3p 16 A	
	1	3p+N+E 16 A 380 A	1	4p 16 A	
	1	2p+E 16 A 380 V	1	1p+N 16 A	
	1	3p+E 16 A 380 V	1	3p 16 A	
	1	3p+N+E 16 A 380 A	1	4p 16 A	1/1
13 330	1	3p+E 32 A 380 V	1	3p 32 A	

4

IP55 switchboards

Article	Socket		6 KA MCBs		Box/pack No. items
	Q.ty	Type	Q.ty	Type	
13 335	1	2p+E 16 A 220 V	1	1p+N 16 A	
	1	3p+E 16 A 380 V	1	3p 16 A	
	1	3p+N+E 16 A 380 A	1	4p 16 A	
	1	3p+E 32 A 380 V	1	3p 32 A	1/1

IP 55

IP 55



Article	Socket		6 KA MCBs		Box/pack No. items
	Q.ty	Type	Q.ty	Type	
13 350	1	Schuko 16 A	1	1p+N 16 A	
	2	2p+E 16 A 220 V	2	3p 16 A	
	3	3p+E 16 A 380 V	1	4p 16 A	
	1	3p+N+E 16 A 380 A	1	3p 32 A	
	2	3p+E 32 A 380 V			

Article	Socket		6 KA MCBs		Box/pack No. items
	Q.ty	Type	Q.ty	Type	
13 356	1	Interlocked	1	1p+N 16 A	
		2p+E 16 A 220 V	1	3p 16 A	
	1	Interlocked			
		3p+E 16 A 380 V			
	1	Interlocked			
		3p+N+E 16 A 380 V			
13 357	1	Interlocked	1	3p 16 A	
		3p+E 16 A 380 V	1	4p 16 A	
	1	Interlocked			
		3p+N+E 16 A 380 V			
	1	Interlocked			
		3p+E 32 A 380 V			



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Tertiary/industrial application



IMQ mark
in compliance with CEI 23-48 Standards

Type approval
Italian Naval Register ELE/8998/2

Boxes, equipment and various components

IP 44 and IP 55 junction boxes in thermoplastic material

Technical characteristics

- degree of protection:
 - IP 44 for press-on lid boxes
 - IP 55 for screw-on lid boxes
- insulation class II 
- available in RAL 7035 grey
- boxes with press-on lids in thermoplastic material, self-extinguishing in compliance with UL 94 HB Standard and resistant to abnormal heat and fire up to 650° C (glow wire test) in compliance with IEC 695-2-1 Standard
- boxes with opaque screw-on lids in thermoplastic material, self-extinguishing in compliance with UL 94 V-0 Standard and resistant to abnormal heat and fire up to 960° C (glow wire test) in compliance with IEC 695-2-1 Standard
- boxes with screw-on lids in transparent polycarbonate material, self-extinguishing in compliance with UL 94 V-2 Standard and resistant to abnormal heat and fire up to 960° C (glow wire test) in compliance with IEC 695-2-1 Standard
- dimensional stability under operating conditions from -25° to +75° C

- shock resistant 6 joules
- high resistance to heat and chemical and atmospheric agents
- wide range with press on lids, lids with stainless steel screws and lids with rapid-pitch, safety screws in thermoplastic insulating material
- boxes IP 55 degree of protection are composed of a patented lid produced in a single pressing phase together with its seal
- all the boxes with cable-way inlets are suitable to be installed with mini-trunkings by using special connectors (articles in catalogue 604212)
- when fitted with special housings, the base of the box can be equipped with terminals and various accessories
- boxes measuring 160x135, 220x170 and 310x240 mm can be mounted on the wall with brackets art. 12 858
- junction boxes made in compliance with CEI 23-48 and IEC 670 Standards



Boxes, equipment and various components

IP 44 and IP 55 junction boxes in thermoplastic material

IP 44 boxes

With cable glands and press-on lid



FLCO999

IP 44 boxes

With cable glands and press-on lid



FLCO9200

IP 55 boxes

With cable glands and low screw-on lid



FLCO998

Article	Internal dimensions (mm)	Box/pack No. items
00 800	Ø 60 - H 35	6/240
00 802	Ø 80 - H 40	6/144

Also available, on request, in self-extinguishing version in compliance with UL 94 VO Standard and resistant to abnormal heat and to fire up to 960°C in compliance with IEC 695-2-1

Article	Internal dimensions (mm)	Box/pack No. items
00 808	65x65x32	3/168
00 810	80x80x40	5/100

Also available, on request, in self-extinguishing version in compliance with UL 94 VO Standard and resistant to abnormal heat and to fire up to 960°C in compliance with IEC 695-2-1

Article	Internal dimensions (mm)	Screws	Box/pack No. items
00 816	100x100x50	in steel	1/54
00 820	105x70x50	in steel	1/70
00 821	100x100x80	in steel	1/40

IP 55 boxes

With smooth walls and low screw-on lid



FLCO9204

Article	Internal dimensions (mm)	Screws	Box/pack No. items
00 846	100x100x50	in steel	1/60
00 850	105x70x50	in steel	1/100
00 851	100x100x80	in steel	1/40

Boxes, equipment and various components

IP 44 and IP 55 junction boxes in thermoplastic material

IP 55 boxes

With cable glands and low screw-on lid



FLC09102

IP 55 boxes

With cable glands walls and high screw-on lid



FLC09202

IP 55 boxes

With smooth walls and transparent low screw-on lid



FLC09203

Article	Internal dimensions (mm)	Screws	Box/pack No. items
00 822	153x110x66	in steel	1/32
00 824 ^(*)	160x135x77	in steel	1/18
00 826 ^(*)	220x170x80	in therm. material	1/12
00 828 ^(*)	310x240x110	in therm. material	1/6

^(*) can be wall-mounted using wall brackets
art. 12 858

Article	Internal dimensions (mm)	Screws	Box/pack No. items
00 830	160x135x150	in steel	1/16
00 832	220x170x150	in therm. material	1/8
00 834	310x240x160	in therm. material	1/4

can be wall-mounted using wall brackets
art. 12 858

Article	Internal dimensions (mm)	Screws	Box/pack No. items
00 872	153x110x66	in steel	1/34
00 874 ^(*)	160x135x77	in steel	1/24
00 876 ^(*)	220x170x80	in therm. material	1/12
00 878 ^(*)	310x240x110	in therm. material	1/6

^(*) can be wall-mounted using wall brackets
art. 12 858

IP 55 boxes

With smooth walls and low screw-on lid



FLC09205

IP 55 boxes

With smooth walls and high screw-on lid



FLC09206

IP 55 boxes

With smooth walls and transparent high screw-on lid



FLC09207

Article	Internal dimensions (mm)	Screws	Box/pack No. items
00 852	153x110x66	in steel	1/34
00 854 ^(*)	160x135x77	in steel	1/24
00 856 ^(*)	220x170x80	in therm. material	1/12
00 858 ^(*)	310x240x110	in therm. material	1/6

^(*) can be wall-mounted using wall brackets
art. 12 858

Article	Internal dimensions (mm)	Screws	Box/pack No. items
00 860	160x135x150	in steel	1/16
00 862	220x170x150	in therm. material	1/8
00 864	310x240x160	in therm. material	1/4

can be wall-mounted using wall brackets
art. 12 858

Article	Internal dimensions (mm)	Screws	Box/pack No. items
00 880	160x135x150	in steel	1/16
00 882	220x170x150	in therm. material	1/8
00 884	310x240x160	in therm. material	1/4

can be wall-mounted using wall brackets
art. 12 858

Boxes, equipment and various components

Accessories for IP 44 and IP 55 junction boxes
in thermoplastic material

Metal base plates



FLCO9265

Cable clamps



FLCO9266

Article	For boxes type	Box/pack No. items
00 900	00 824 - 00 830 - 00 874 00 854 - 00 860 - 00 880	1/10
00 902	00 826 - 00 832 - 00 876 00 856 - 00 862 - 00 882	1/5
00 904	00 828 - 00 834 - 00 878 00 858 - 00 864 - 00 884	1/5

Article	For conduit Ø (mm)	Box/pack No. items
00 908	20	100/1000
00 910	25	100/1000
00 912	32	50/300

Cable clamps and nuts for cable clamps



FLCO9291



FLCO9287

Article	Pitch	Cable clamp Box/pack No. items	For cables diameter	Nuts x cable clamps Box/pack No. items
cable clamp	nut x cable clamp	Pg		
00 931	00 941	9	100/500	5 8 100/3000
00 932	00 942	11	100/500	7 10 100/3000
00 933	00 943	13,5	50/500	9 13 50/1500
00 934	00 944	16	50/250	13 16 50/1500
00 935	00 945	21	50/250	17 20 50/1500
00 936	00 946	29	25/150	21 26 50/500
00 937	00 947	36	25/75	30 34 25/300
00 938	00 948	42	15/60	40 43 25/300

Boxes, equipment and various components

Accessories for IP 44 and IP 55 junction boxes
in thermoplastic material

Conduit box connectors

Conduit clamps



Article	For conduit Ø (mm)	Box/pack No. items
00 420	16	50/1500
00 421	20	50/300
00 422	25	25/150
00 423	32	25/100
00 424	40	10/50
00 425	50	5/50

Article	For conduit Ø (mm)	Box/pack No. items
00 430	16	50/1500
00 431	20	50/300
00 432	25	25/150
00 433	32	25/100
00 434	40	10/50
00 435	50	5/50

Unions

5



Article	Ø (mm)	Box/pack No. items
13 874	23	50/1500
13 875	28.5	50/300
13 876	37	25/150

Tertiary/industrial application



FLCO9812



IMQ mark
in compliance with CEI 23-48 Standard

Boxes, equipment and various components

IP 65 junction boxes in polycarbonate

Technical characteristics

- degree of protection IP 65
- insulation class II
- available in RAL 7035 grey
- in polycarbonate material, self-extinguishing and resistant to abnormal heat and fire up to 960° C (glow wire test) in compliance with IEC 695-2-1 Standard
- material with low halogen content
- dimensional stability under constant operating conditions from -25° to +115° C
- shock resistant 20 joules (IK 10 level)
- high resistance to UV rays
- perfectly symmetrical junction boxes with possibility of attaching the lid hinges, (using the special articulated screws supplied) on the right or left with 140° opening

- possibility of installation in environments with major risk in the event of fire (CEI 64-8 part 7 section 751 Standard) and in AD-FT environments (CEI 64-2 Standard, IV edition)
- boxes art. 12 808, 12 812, 12 814, 12 816 and 12 818 equipped with flanges for facilitated input of conduits and cables
- junction boxes produced in compliance with CEI 23-48 and IEC 670 Standards
- boxes supplied complete with:
 - 4 screw-cover caps to guarantee
 - accessories for attaching the hinges on the front
 - 1 certification plate
 - instruction sheet



FLCO9842

5

Boxes, equipment and various components

IP 65 junction boxes in polycarbonate

140x220x140 (mm)

205x220x140 (mm)

275x220x140 (mm)



FLC09208



FLC09209



FLC09210

Article	Dimensions (mm) WxHxD	Box/pack No. items
12 804	140x220x140	1/14

Article	Dimensions (mm) WxHxD	Box/pack No. items
12 808	205x220x140	1/9

Article	Dimensions (mm) WxHxD	Box/pack No. items
12 812	275x220x140	1/6

5

275x370x140 (mm)

275x570x140 (mm)

380x570x140 (mm)



FLC09211



FLC09212



FLC09213

Article	Dimensions (mm) WxHxD	Box/pack No. items
12 814	275x370x140	1/4

Article	Dimensions (mm) WxHxD	Box/pack No. items
12 816	275x570x140	1/2

Article	Dimensions (mm) WxHxD	Box/pack No. items
12 818	380x570x140	1/2

Boxes, equipment and various components

Accessories for IP 65 junction boxes in polycarbonate

Base plates

In aluminium-plated metal



FLO0249

Base plates

In insulating material



FLO0248

Article	For boxes type	Box/pack No. items	Article	For boxes type	Box/pack No. items
12 842	12 804	1/10	12 832	12 804	1/10
12 844	12 808	1/10	12 834	12 808	1/10
12 845	12 812	1/10	12 835	12 812	1/10
12 846	12 814	1/5	12 836	12 814	1/5
12 847	12 816	1/5	12 837	12 816	1/5
12 848	12 818	1/5	12 838	12 818	1/5

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DIN metal section bars

Complete with screws



FLO0270

Wall brackets



FLO0235

Article	For boxes type	Box/pack No. items	Article	Description	Box/pack No. items
12 852	12 804	50/600	12 858	in insulating material	1/20
12 854	12 808	30/360			
12 855	12 812 – 12 814 – 12 816	50/200			
12 856	12 818	50/200			

Boxes, equipment and various components

Accessories for IP 65 junction boxes in polycarbonate

Terminal holders



Terminal bars



Article	For boxes type	Box/pack No. items
12 538	12 804	12/360
12 539	12 808	12/360
12 540	12 812 – 12 814 – 12 816	12/144
12 543	12 818	12/108

The terminal board is completed by combining the necessary terminal bars to the terminal holders, taking care to keep the terminal bars separated from each other.

Article	Description Nº of holes x Ø holes (mm) + Nº holes x Ø holes (mm)	Box/pack No. items
12 531	5x4.5	1/20
12 532	10x4.5 + 3x5.6	1/20
12 533	16x4.5 + 3x5.6	1/20
12 534	15x4.5 + 6x5.6	1/20
12 535	19x4.5 + 6x5.6	1/20

The terminal bars can be installed on any kind of terminal holder; they are snapped onto these with 2 clips per bar, through two holes made at the ends of the bar itself.

Recommended configuration

Boxes	Terminal holders Articles x quantity	Terminal bars Articles x quantity
12 804	12 538 x 2	12 531 x 2
12 808	12 539 x 2	12 531 x 2
12 812	12 540 x 1	12 531 x 1
		12 532 x 1
12 814	12 540 x 2	12 533 x 2
12 816	12 540 x 2	12 534 x 2
12 818	12 543 x 2	12 535 x 2

Terminal holders and terminal bars are supplied separately. In this way, by inserting one or two terminal bars into the terminal holder you can create the best terminal for your requirements, with the advantage of obtaining a terminal block that is cheap as well as personalised, due to the fact that you only need to use material that is really necessary.

Some standard configurations are illustrated in the table.

All the possible configurations that can be created for each type of switchboard are given in the technical details.

Boxes, equipment and various components

Accessories for IP 65 junction boxes in polycarbonate

Spare flanges



Semi-flush-mounting frames



Article	For boxes type	Box/pack No. items
12 600	12 808	30/120
12 601	12 812 - 12 814 - 12 816	20/80
12 602	12 818	20/80

Article	For boxes type	Box/pack No. items
12 590	12 804	5/20
12 591	12 808	5/20
12 592	12 812	5/20
12 593	12 814	5/20
12 594	12 816	5/5
12 595	12 818	5/5

Universal cutter

For drill

5



Article	Box/pack No. items
12 894	1/30

to be used for side branch connections

Residential/tertiary/industrial application



IMQ mark
in compliance with CEI 23-48 Standards

Boxes, equipment and various components

IP 40 and IP 55 equipment and empty enclosures

IP 40 equipment and empty enclosures

Technical characteristics

- IP 40 equipment and empty enclosures composed of base and cover, joined with safety screws with bivalent slotted head in stainless steel
- equipment and empty enclosures with cableway on the top
- equipment and enclosures designed to be installed with conduits and, using special accessories, with mini-trunkings (described in the Catalogue 604212)
- empty enclosures suitable for:
 - wiring accessories in the 8000 Vimar and Magic Bticino series
 - wiring accessories in the Idea Vimar and Living Bticino series
- IP 40 degree of protection
- insulation class II
- enclosures available in RAL 7035 grey
- in thermoplastic material, self-extinguishing and resistant to abnormal heat and fire up to 650°C (glow wire test) in compliance with IEC 695-2-1 Standard
- dimensional stability under operating conditions from -20° to +85°C
- high resistance to UV rays
- high resistance to shocks, heat and chemical and atmospheric agents
- empty enclosures made in compliance with CEI 23-48 and IEC 670 Standards
- enclosures equipped with control equipment made in compliance with CEI 23-9 Standard
- enclosures equipped with bypass sockets made in compliance with CEI 23-16 Standard
- enclosures equipped with Schuko sockets made in compliance with CEI 23-5 Standard



FIC09847

IP 55 equipment and empty enclosures

Technical characteristics

- IP 55 equipment and empty enclosures composed of base and cover, joined with safety screws with bivalent slotted head in stainless steel
- equipment and empty enclosures fitted with seal between the base and the cover; lid with transparent elastic membrane so than controls can be used even when the lid is closed
- equipment and empty enclosures with cableway on the top
- equipment and enclosures designed to be installed with conduits and, using special accessories, with mini-trunkings (described in the Catalogue 604212)
- empty enclosures suitable for:
 - wiring accessories in the 8000 Vimar and Magic Bticino series
 - wiring accessories in the Idea Vimar and Living Bticino series
- IP 55 degree of protection
- insulation class II
- enclosures available in RAL 7035 grey
- in thermoplastic material, self-extinguishing and resistant to abnormal heat and fire up to 650°C (glow wire test) in compliance with IEC 695-2-1 Standard
- dimensional stability under operating conditions from -20° to +85°C
- high resistance to UV rays
- high resistance to shocks, heat and chemical and atmospheric agents
- empty enclosures made in compliance with CEI 23-48 and IEC 670 Standards 5/15
- enclosures equipped with control equipment made in compliance with CEI 23-9 Standard
- enclosures equipped with bypass sockets made in compliance with CEI 23-16 Standard
- enclosures equipped with Schuko sockets made in compliance with CEI 23-5 Standard

Boxes, equipment and various components

IP 40 equipment and empty enclosures

IP 40 equipment

Equipped with Vimar 8000 series wiring accessories



Article	Description	Box/pack No. items
00 500	10 A circuit breaker	10/40
00 501	10 A switch	10/40
00 502	10 A inverter	10/40
00 503	16 A bi-polar circuit breaker	10/40
00 504	10 A NO push button	10/40
00 505	10 A double switch	10/40

Article	Description	Box/pack No. items
00 510	bypass socket 2x16 A + earth	10/40
00 511	double bypass socket 2x16 A + earth	10/40
00 512	bipolar circuit breaker + bypass socket 2x16 A + earth	10/40
00 513	Schuko socket 10/16 A + side earth	10/40

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IP 40 empty enclosures

For Vimar 8000 series and Magic Bticino (*) wiring accessories



Article	Description	Box/pack No. items
00 541	1 compartment	10/40
00 542	2 compartments	10/40
00 543	3 compartments	10/30
00 544	4 compartments	10/20
00 546	6 compartments	10/20

IP 40 empty enclosures

For Vimar 8000 series and Living Bticino (*) wiring accessories



Article	Description	Box/pack No. items
00 641	1 compartment	10/40
00 642	2 compartments	10/40
00 643	3 compartments	10/30
00 644	4 compartments	10/20
00 646	6 compartments	10/20

(*) can be equipped with Magic Bticino wiring accessories using the adapter supplied

(*) can be equipped with Living Bticino wiring accessories using the adapter supplied

Boxes, equipment and various components

IP 55 equipment and empty enclosures

IP 55 equipment

Equipped with Vimar 8000 series wiring accessories



Article	Description	Box/pack No. items
00 520	10 A circuit breaker	10/40
00 521	10 A switch	10/40
00 522	10 A inverter	10/40
00 523	16 A bi-polar circuit breaker	10/40
00 524	10 A NO push button	10/40
00 525	10 A double switch	10/40

Article	Description	Box/pack No. items
00 530	bypass socket 2x16 A + earth	10/40
00 531	double bypass socket 2x16 A + earth	10/40
00 532	bipolar circuit breaker + bypass socket 2x16 A + earth	10/40
00 533	Schuko socket 10/16 A + side earth	10/40

IP 55 empty enclosures

For Vimar 8000 series and Magic Bticino (*) wiring accessories



Article	Description	Box/pack No. items
00 551	1 compartment	10/40
00 552	2 compartments	10/40
00 553	3 compartments	10/30
00 554	4 compartments	10/20
00 556	6 compartments	10/20

Article	Description	Box/pack No. items
00 651	1 compartment	10/40
00 652	2 compartments	10/40
00 654	4 compartments	10/20
00 656	6 compartments	10/20

(*) can be equipped with Magic Bticino wiring accessories using the adapter supplied

(*) can be equipped with Living Bticino wiring accessories using the adapter supplied

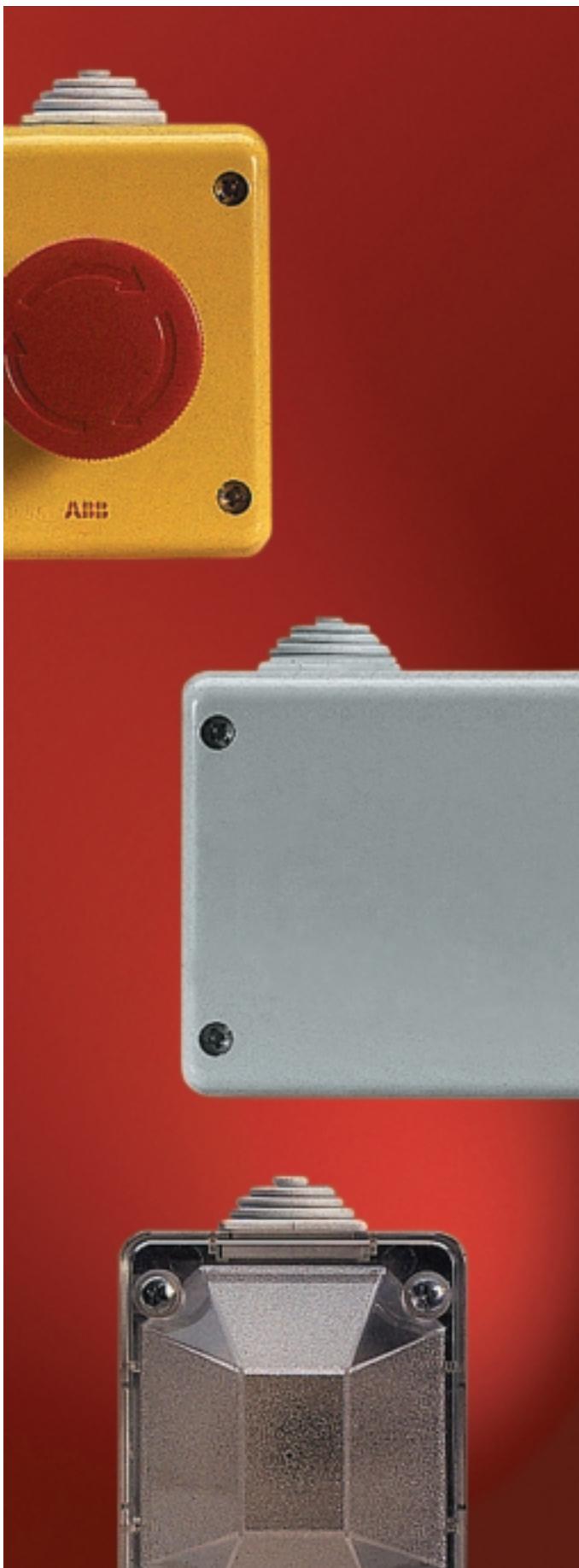
Boxes, equipment and various components

Various equipment and components

Technical characteristics

ABB ensures a complete and varied supply of useful components to complete the installation of circuits. Some of the available components are:

- wall sockets
- mushroom push buttons
- warning lights
- flush-mounting enclosures and boxes



Overall dimensions page 10/36

IP 44 wall sockets in compliance with IEC 309-1 Standard



Article	Description	Box/pack No.. items
00 562	2p+T 16 A 220 V	12/36
00 564	2p+T 16 A 220 V	12/36

Boxes, equipment and various components

Various equipment and components

IP 40 warning lights



FLC09189



FLC09193

Article

Description

Box/pack
No. items

00 570	transparent diffuser	10/30
00 572	red diffuser	10/30
00 573	green diffuser	10/30

IP 55 mushroom push buttons



FLC09188



FLC09192

Article

Description

Box/pack
No. items

00 770	red mushroom push button on grey flange	8/32
00 771	red mushroom push button on yellow flange with rotating reset	8/32

Contacts : 1NO+1NC
 Rated current (In) : 10 A
 Rated voltage(Vn) : 380 V
 Dimensions : 80x65x88 mm

IP 55 junction boxes



FLC09190



FLC09194



FLC09196

Article

Dimensions (mm)
WxHxDBox/pack
No. items

00 580	63 x 78 x 55	⊗	10/40
00 581	128 x 78 x 55	⊗	10/20

IMQ mark in compliance with CEI 23-48 Standard

Flush-mounting boxes

For IP40 and IP55 equipment and empty enclosures



FLC09197

Connector elements



Article

Description

Box/pack
No. items

00 583	2 compartments	10/60
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Article

Colour

Description

Box/pack
No. items

00 585	grey	cableway x conduits ø 16-20 mm	100/600
00 587	grey	adapter x conduit clamp ø 16-20 mm	100/600
00 591	grey	union joint	100/600
00 592	-	earth terminal	100/6000
00 595	grey	threaded connector M16x1.5	100/600
00 596	grey	threaded connector M20x1.5	100/600



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Wiring accessories and junction boxes in thermoplastic material	6/3
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Residential/tertiary application



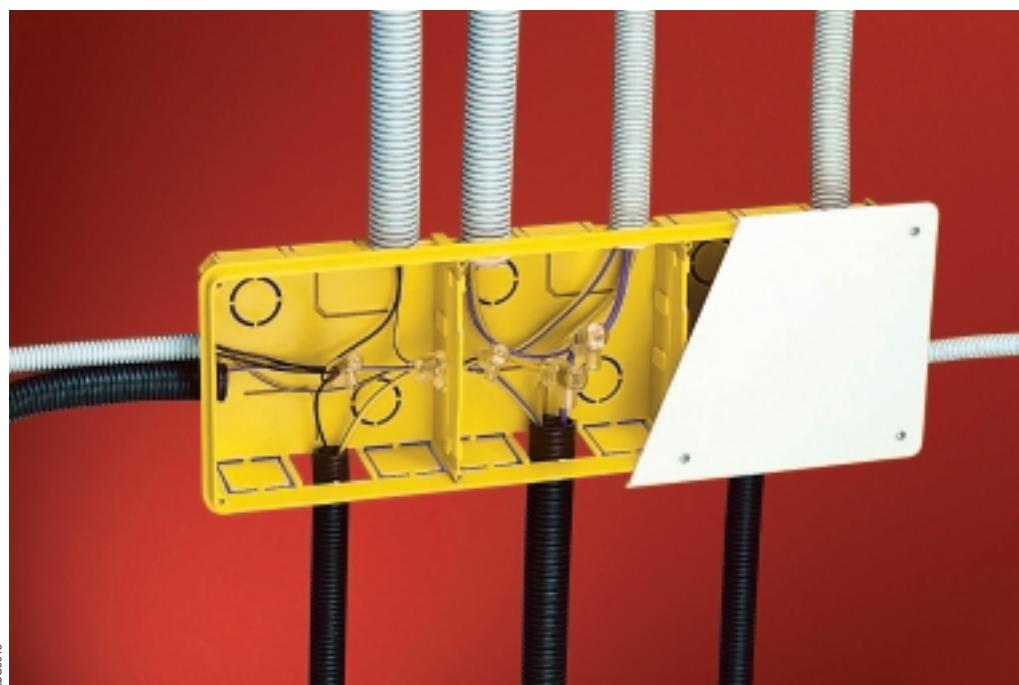
IMQ mark
in compliance with CEI 23-48 Standards

Wiring accessories and junction boxes

Wiring accessories and junction boxes in thermoplastic material

Technical characteristics

- in thermoplastic material, self-extinguishing and resistant to abnormal heat and fire up to 650° C (glow wire test) in compliance with IEC 695-2-1 Standard
- large push-in windows
- lid in RAL 9010 with self-threaded screws included in the supply
- wiring accessories and junction boxes made in compliance with CEI 23-48 and IEC 670 Standards



F1C09815

6

Wiring accessories and junction boxes

Wiring accessories and junction boxes in thermoplastic material

Truncated-conical box for wiring accessories



FLCO9214

Round box for wiring accessories



FLCO9215

Rectangular box for wiring accessories



FLCO9216

Article	Description	Box/pack No. items
00 050	truncated-conical box Ø 65 mm	- /350

Article	Description	Box/pack No. items
00 051	Round box Ø 85 mm	- /230

Article	Description	Box/pack No. items
00 052	rectangular box 3 wiring accessories inter. 83.5 mm	- /500
00 053	rectangular box 4 wiring accessories inter. 108 mm	- /150

Box for telephone jack



FLCO9217

Junction boxes



FLCO9220



FLCO9221



FLCO9222



FLCO9223



FLCO9224



FLCO9225

Article	Description	Box/pack No. items
00 054 (*)	box for telephone jacks	- /189

(*) complete with lid

Article	Dimensions (mm) WxHxD	Box/pack No. items
00 070	92x92x45	- /105
00 071	120x100x50	- /72
00 072	120x100x70	- /48
00 073	152x100x70	- /42
00 074	160x130x70	- /32

Article	Dimensions (mm) WxHxD	Box/pack No. items
00 075	196x152x70	- /19
00 076	294x152x70	- /15
00 077	392x152x70	- /11
00 078	480x160x70	- /10

the separator art. 00 090 can be inserted
for all articles 00 090

Wiring accessories and junction boxes

Wiring accessories and junction boxes in thermoplastic material

Spare lids for wiring accessories boxes



FLCO9218



FLCO9219

Article	Description	Box/pack No. items
00 055	lid with clips for Ø 65 mm	25/250
00 056	lid with clips for Ø 85 mm	20/160

Article	Description	Box/pack No. items
00 059	rectangular lid for box inter. 83.5 mm	20/300

Spare lids for junction boxes



FLCO9272

Separator for junction boxes



FLCO9271

Article	For boxes type	Box/pack No. items
00 091	00 070	20/200
00 092	00 071 – 00 072	20/140
00 093	00 073	10/100
00 094	00 074	10/80
00 095	00 075	10/40
00 096	00 076	10/40
00 097	00 077	10/40
00 098	00 078	10/40

Article	Box/Pack No. items
00 090	100/400

all articles complete with self-tapping screws



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Sockets and plugs in compliance with IEC 309-1 Standard

Summary table

Rated current	Poles	Rated voltage	Position of earth contact (reference hours)	Movable plugs IP 44	Movable angled plugs IP 44	Movable sockets IP 44	Angled switchboard sockets IP 44
				FLPR9001	FLPR9002	FLPR9003	FLPR9004
16 A	2p+E	110 V	4 h	13 559	-	13 539	13 499
	3p+E		4 h	13 562	-	13 542	13 502
	2p+E	220 V	6 h	13 561	13 901	13 541	13 501
	3p+E		9 h	13 563	13 903	13 543	13 503
	3p+E	380 V	6 h	13 564	13 904	13 544	13 504
	3p+N+E		6 h	13 567	-	13 547	13 507
	3p+E	500 V	7 h	13 571	-	13 551	13 511
	3p+N+E		7 h	13 572	-	13 552	13 512
32 A	2p+E	110 V	4 h	13 573	-	13 553	13 513
	3p+E		4 h	13 574	-	13 554	13 514
	2p+E	220 V	6 h	13 565	-	13 545	13 505
	3p+E		9 h	13 568	-	13 548	13 508
	3p+E	380 V	6 h	13 569	-	13 549	13 509
	3p+N+E		6 h	13 570	-	13 550	13 510
	3p+E	500 V	7 h	13 575	-	13 555	13 515
	3p+N+E		7 h	13 576	-	13 556	13 516
63 A	2p+E	110 V	4 h	-	-	-	-
	2p+E	220 V	6 h	-	-	-	-
	3p+E		6 h	-	-	-	-
	3p+N+E	380 V	6 h	-	-	-	-
	3p+E	500 V	7 h	-	-	-	-
	3p+N+E		7 h	-	-	-	-
16 A	2p	24 V	w/ref	13 400	-	13 410	13 420
	3p		w/ref	13 401	-	13 411	13 421
	2p	48 V	12 h	13 402	-	13 412	13 422
	3p		12 h	13 403	-	13 413	13 423
32 A	2p	24 V	w/ref	13 404	-	13 414	13 424
	3p		w/ref	13 405	-	13 415	13 425
	2p	48 V	12 h	13 406	-	13 416	13 426
	3p		12 h	13 407	-	13 417	13 427

Sockets and plugs in compliance with IEC 309-1 Standard

Summary table

Angled wall sockets IP 44	Horizontal wall sockets IP 44	Movable plugs IP 67	Movable sockets IP 67	Angled switch- board sockets IP 67	Angled wall sockets IP 67
					
FLPR9005	FLPR9006	FLPR9007	FLPR9008	FLPR9009	FLPR9010
13 451	-	13 577	13 599	13 517	13 477
13 452	-	13 578	13 600	13 518	13 478
13 461	00 562	13 581	13 601	13 521	13 481
13 463	-	13 583	13 603	13 523	13 483
13 464	00 564	13 584	13 604	13 524	13 484
13 467	-	13 587	13 607	13 527	13 487
13 453	-	13 579	13 619	13 519	13 479
13 454	-	13 580	13 620	13 520	13 480
13 455	-	13 582	13 602	13 522	13 482
13 456	-	13 586	13 606	13 526	13 486
13 465	-	13 585	13 605	13 525	13 485
13 468	-	13 588	13 608	13 528	13 488
13 469	-	13 589	13 609	13 529	13 489
13 470	-	13 590	13 610	13 530	13 490
13 457	-	13 591	13 611	13 531	13 491
13 458	-	13 592	13 612	13 532	13 492
-	-	-	-	-	-
-	-	13 594	13 614	13 534	13 494
-	-	13 595	13 615	13 535	13 495
-	-	13 596	13 616	13 536	13 496
-	-	13 597	13 617	13 537	13 497
-	-	13 598	13 618	13 538	13 498
13 430	-	-	-	-	-
13 431	-	-	-	-	-
13 432	-	-	-	-	-
13 433	-	-	-	-	-
13 434	-	-	-	-	-
13 435	-	-	-	-	-
13 436	-	-	-	-	-
13 437	-	-	-	-	-

Tertiary/industrial application



FUPR8801



IMQ mark
in compliance with CEI 23-12 Standards

Sockets and plugs in compliance with IEC 309-1 Standard

IP 44 sockets and plugs

Technical characteristics

- degree of protection IP 44
- distinguishing colour according to usage
- made in self-extinguishing techno-polymer, resistant to abnormal heat and fire up to 850°C (glow wire test) in compliance with IEC 695-2-1 Standard
- dimensional stability under constant operating conditions from -20° to +85°C
- shock resistant 6 joules (IK08 level)
- resistant to chemical agents (water, saline solutions, acids, mineral bases and oils), atmospheric agents

- possibility of installation in environments with major risk of fire (Standard CEI 64-8 part 7, section 751) and in AD-FT environments (Standard CEI 64-2, IV edition)
- versions not included in the list can be supplied on request
- sockets and plugs made in compliance with Standards CEI 23-12 and CEI EN 60309-1 and 2
- movable sockets and plugs complete with cableway



F1PR9812

Sockets and plugs in compliance with IEC 309-1 Standard

IP 44 sockets and plugs

Movable plugs



Movable sockets



	Article	Poles	Rated voltage	Pos. earth contact (ref. hours)	Box/pack No. items
16 A	13 559	2p+E	110 V	4 h	10/30
	13 562	3p+E	110 V	4 h	10/30
	13 561	2p+E	220 V	6 h	10/30
	13 563	3p+E	220 V	9 h	10/30
	13 564	3p+E	380 V	6 h	10/30
	13 567	3p+N+E	380 V	6 h	10/30
	13 571	3p+E	500 V	7 h	10/20
	13 572	3p+N+E	500 V	7 h	10/20
	13 573	2p+E	110 V	4 h	10/30
32 A	13 574	3p+E	110 V	4 h	10/30
	13 565	2p+E	220 V	6 h	10/30
	13 568	3p+E	220 V	9 h	10/30
	13 569	3p+E	380 V	6 h	10/30
	13 570	3p+N+E	380 V	6 h	10/20
	13 575	3p+E	500 V	7 h	10/20
	13 576	3p+N+E	500 V	7 h	10/20

	Article	Poles	Rated voltage	Pos. earth contact (ref. hours)	Box/pack No. items
16 A	13 539	2p+E	110 V	4 h	10/30
	13 542	3p+E	110 V	4 h	10/30
	13 541	2p+E	220 V	6 h	10/30
	13 543	3p+E	220 V	9 h	10/30
	13 544	3p+E	380 V	6 h	10/30
	13 547	3p+N+E	380 V	6 h	10/30
	13 551	3p+E	500 V	7 h	10/20
	13 552	3p+N+E	500 V	7 h	10/20
	13 553	2p+E	110 V	4 h	10/20
32 A	13 554	3p+E	110 V	4 h	10/20
	13 545	2p+E	220 V	6 h	10/20
	13 548	3p+E	220 V	9 h	10/20
	13 549	3p+E	380 V	6 h	10/20
	13 550	3p+N+E	380 V	6 h	5/10
	13 555	3p+E	500 V	7 h	10/20
	13 556	3p+N+E	500 V	7 h	5/10

Horizontal wall sockets

220 V – 16 A



Horizontal wall sockets

380 V – 16 A



Article	Poles	Rated voltage	Box/pack No. items
00 562	2p+E	220 V	12/36

Article	Poles	Rated voltage	Box/pack No. items
00 564	3p+E	380 V	12/36

Sockets and plugs in compliance with IEC 309-1 Standard IP 44 sockets and plugs

Angled switchboard sockets



FLPR9004

Angled wall sockets



FLPR9010

	Article	Poles	Rated voltage	Pos. earth contact (ref. hours)	Box/pack No. items
16 A	13 499	2p+E	110 V	4 h	10/30
	13 502	3p+E	110 V	4 h	10/30
	13 501	2p+E	220 V	6 h	10/30
	13 503	3p+E	220 V	9 h	10/30
	13 504	3p+E	380 V	6 h	10/30
	13 507	3p+N+E	380 V	6 h	10/20
	13 511	3p+E	500 V	7 h	10/30
	13 512	3p+N+E	500 V	7 h	10/20
	32 A	13 513	2p+E	110 V	4 h
	13 514	3p+E	110 V	4 h	5/15
	13 505	2p+E	220 V	6 h	5/15
	13 508	3p+E	220 V	9 h	5/15
	13 509	3p+E	380 V	6 h	5/15
	13 510	3p+N+E	380 V	6 h	5/15
	13 515	3p+E	500 V	7 h	5/15
	13 516	3p+N+E	500 V	7 h	5/15

	Article	Poles	Rated voltage	Pos. earth contact (ref. hours)	Box/pack No. items
16 A	13 451	2p+E	110 V	4 h	10/20
	13 452	3p+E	110 V	4 h	10/20
	13 461	2p+E	220 V	6 h	10/20
	13 463	3p+E	220 V	9 h	10/20
	13 464	3p+E	380 V	6 h	10/20
	13 467	3p+N+E	380 V	6 h	5/10
	13 453	3p+E	500 V	7 h	10/20
	13 454	3p+N+E	500 V	7 h	5/10
	32 A	13 455	2p+E	110 V	4 h
	13 456	3p+E	110 V	4 h	5/10
	13 465	2p+E	220 V	6 h	5/10
	13 468	3p+E	220 V	9 h	5/10
	13 469	3p+E	380 V	6 h	5/10
	13 470	3p+N+E	380 V	6 h	5/10
	13 457	3p+E	500 V	4 h	5/10
	13 458	3p+N+E	500 V	4 h	5/10

Movable angled plugs

16 A

FLPR9002

Residential-industrial adapters



FLPR9012

Article	Poles	Rated voltage	Pos. earth contact (ref. hours)	Box/pack No. items
13 901	2p+E	220 V	6 h	15/45
13 903	3p+E	220 V	9 h	10/30
13 904	3p+E	380 V	6 h	10/30

Article	IEC 309 plug side	Description	Residential plug side	Box/pack No. items
13 908	16A 2p+E 220V 6h	1 bypass socket 10/16 A 2p+E	10/30	
13 909	16A 2p+E 220V 6h	2 bypass sockets 10/16 A 2p+E	10/30	
13 910	16A 2p+E 220V 6h	1 schuko type socket 10/16 A 2p+E	10/30	

Tertiary/industrial application



F1PR8802



IMQ mark
in compliance with CEI 23-12 Standards

Sockets and plugs in compliance with IEC 309-1 Standard

IP 67 sockets and plugs

Technical characteristics

- degree of protection IP 67
- distinctive colour according to usage
- made in self-extinguishing techno-polymer, resistant to abnormal heat and fire up to 850°C (glow wire test) in compliance with IEC 695-2-1 Standard
- dimensional stability under constant operating conditions from -20° to +85°C
- shock resistant 6 joules (IK08 level)

- resistant to chemical agents (water, saline solutions, acids, mineral bases and oils) and atmospheric agents
- possibility of installation in environments with major risk of fire (Standard CEI 64-8 part 7, section 751) and in AD-FT environments (Standard CEI 64-2, IV edition)
- versions not included in the list can be supplied on request
- sockets and plugs made in compliance with Standards CEI 23-12 and CEI EN 60309-1 and 2
- movable sockets and plugs complete with cableway



F1PR8613

7

Sockets and plugs in compliance with IEC 309-1 Standard

IP 67 sockets and plugs

Movable plugs



Movable sockets



	Article	Poles	Rated voltage	Pos. earth contact (ref. hours)	Box/pack No. items
16 A	13 577	2p+E	110 V	4 h	10/30
	13 578	3p+E	110 V	4 h	10/30
	13 581	2p+E	220 V	6 h	10/30
	13 583	3p+E	220 V	9 h	10/30
	13 584	3p+E	380 V	6 h	10/30
	13 587	3p+N+E	380 V	6 h	5/10
	13 579	3p+E	500 V	7 h	5/10
	13 580	3p+N+E	500 V	7 h	5/10
	13 582	2p+E	110 V	4 h	5/10

	Article	Poles	Rated voltage	Pos. earth contact (ref. hours)	Box/pack No. items
16 A	13 599	2p+E	110 V	4 h	10/30
	13 600	3p+E	110 V	4 h	10/30
	13 601	2p+E	220 V	6 h	10/30
	13 603	3p+E	220 V	9 h	10/20
	13 604	3p+E	380 V	6 h	10/20
	13 607	3p+N+E	380 V	6 h	5/10
	13 619	3p+E	500 V	7 h	10/20
	13 620	3p+N+E	500 V	7 h	5/10
	13 602	2p+E	110 V	4 h	5/10

Movable plugs



Movable sockets



	Article	Poles	Rated voltage	Pos. earth contact (ref. hours)	Box/pack No. items
63 A	13 594	2p+E	220 V	6 h	1-/8
	13 595	3p+E	380 V	6 h	1-/8
	13 596	3p+N+E	380 V	6 h	1-/8
	13 597	3p+E	500 V	7 h	1-/8
	13 598	3p+N+E	500 V	7 h	1-/8

	Article	Poles	Rated voltage	Pos. earth contact (ref. hours)	Box/pack No. items
63 A	13 614	2p+E	220 V	6 h	1/8
	13 615	3p+E	380 V	6 h	1/8
	13 616	3p+N+E	380 V	6 h	1/8
	13 617	3p+E	500 V	7 h	1/8
	13 618	3p+N+E	500 V	7 h	1/8

Sockets and plugs in compliance with IEC 309-1 Standard IP 67 sockets and plugs

Angled switchboard sockets



	Article	Poles	Rated voltage	Pos. earth contact (ref. hours)	Box/pack No. items
16 A	13 517	2p+E	110 V	4 h	10/30
	13 518	3p+E	110 V	4 h	10/30
	13 521	2p+E	220 V	6 h	10/30
	13 523	3p+E	220 V	9 h	10/30
	13 524	3p+E	380 V	6 h	10/30
	13 527	3p+N+E	380 V	6 h	10/29
	13 519	3p+E	500 V	7 h	10/20
	13 520	3p+N+E	500 V	7 h	10/20
32 A	13 522	2p+E	110 V	4 h	5/10
	13 526	3p+E	110 V	4 h	5/10
	13 525	2p+E	220 V	6 h	5/10
	13 528	3p+E	220 V	9 h	5/10
	13 529	3p+E	380 V	6 h	5/10
	13 530	3p+N+E	380 V	6 h	5/10
	13 531	3p+E	500 V	4 h	5/10
	13 532	3p+N+E	500 V	4 h	5/10

Angled wall sockets



	Article	Poles	Rated voltage	Pos. earth contact (ref. hours)	Box/pack No. items
16 A	13 477	2p+E	110 V	4 h	10/20
	13 478	3p+E	110 V	4 h	10/20
	13 481	2p+E	220 V	6 h	10/20
	13 483	3p+E	220 V	9 h	10/20
	13 484	3p+E	380 V	6 h	10/20
	13 487	3p+N+E	380 V	6 h	5/10
	13 479	3p+E	500 V	7 h	10/20
	13 480	3p+N+E	500 V	7 h	5/10
32 A	13 482	2p+E	110 V	4 h	5/10
	13 486	3p+E	110 V	4 h	5/10
	13 485	2p+E	220 V	6 h	5/10
	13 488	3p+E	220 V	9 h	5/10
	13 489	3p+E	380 V	6 h	5/10
	13 490	3p+N+E	380 V	6 h	5/10
	13 491	3p+E	500 V	7 h	5/10
	13 492	3p+N+E	500 V	7 h	5/10

Angled switchboard sockets



	Article	Poles	Rated voltage	Pos. earth contact (ref. hours)	Box/pack No. items
63 A	13 534	2p+E	220 V	6 h	1/15
	13 535	3p+E	380 V	6 h	1/15
	13 536	3p+N+E	380 V	6 h	1/15
	13 537	3p+E	500 V	7 h	1/15
	13 538	3p+N+E	500 V	7 h	1/15

Angled wall sockets



	Article	Poles	Rated voltage	Pos. earth contact (ref. hours)	Box/pack No. items
63 A	13 494	2p+E	220 V	6 h	1/4
	13 495	3p+E	380 V	6 h	1/4
	13 496	3p+N+E	380 V	6 h	1/4
	13 497	3p+E	500 V	7 h	1/4
	13 498	3p+N+E	500 V	7 h	1/4

Tertiary/industrial application



FPR9803

Sockets and plugs in compliance with IEC 309-1 Standard

IP 44 ultra-low voltage sockets and plugs

Technical characteristics

- degree of protection IP 44
- distinctive colour according to usage
- made in self-extinguishing techno-polymer, resistant to abnormal heat and fire up to 850°C (glow wire test) in compliance with IEC 695-2-1 Standard
- dimensional stability under constant operating conditions from -20° to +85°C
- shock resistant 6 joules (IK08 level)
- resistant to chemical agents (water, saline solutions, acids,

- mineral bases and oils) atmospheric agents
- possibility of installation in environments with major risk of fire (Standard CEI 64-8 part 7, section 751) and in AD-FT environments (Standard CEI 64-2, IV edition)
- sockets and plugs made in compliance with Standards CEI 23-12 and CEI EN 60309-1 and 2
- movable sockets and plugs complete with cableway



Sockets and plugs in compliance with IEC 309-1 Standard

IP 44 ultra-low voltage sockets and plugs

Movable plugs



Movable sockets



	Article	Poles	Rated voltage	Pos. earth contact (ref. hours)	Box/pack No. items
16 A	13 400	2p	24 V	without reference	10/30
	13 401	3p	24 V	without reference	10/30
	13 402	2p	42 V	12 h	10/30
	13 403	3p	42 V	12 h	10/30
32 A	13 404	2p	24 V	without reference	10/30
	13 405	3p	24 V	without reference	10/30
	13 406	2p	42 V	12 h	10/30
	13 407	3p	42 V	12 h	10/30

	Article	Poles	Rated voltage	Pos. earth contact (ref. hours)	Box/pack No. items
16 A	13 410	2p	24 V	without reference	10/30
	13 411	3p	24 V	without reference	10/30
	13 412	2p	42 V	12 h	10/30
	13 413	3p	42 V	12 h	10/30
32 A	13 414	2p	24 V	without reference	10/30
	13 415	3p	24 V	without reference	10/30
	13 416	2p	42 V	12 h	10/30
	13 417	3p	42 V	12 h	10/30

Sockets and plugs in compliance with IEC 309-1 Standard

IP 44 ultra-low voltage sockets and plugs

Angled switchboard sockets

Angled wall sockets



FPR8017



FPR9018

	Article	Poles	Rated voltage	Pos. earth contact (ref. hours)	Box/pack No. items
16 A	13 420	2p	24 V	without reference	10/30
	13 421	3p	24 V	without reference	10/30
	13 422	2p	42 V	12 h	10/30
	13 423	3p	42 V	12 h	10/30
32 A	13 424	2p	24 V	without reference	10/30
	13 425	3p	24 V	without reference	10/30
	13 426	2p	42 V	12 h	10/30
	13 427	3p	42 V	12 h	10/30

	Article	Poles	Rated voltage	Pos. earth contact (ref. hours)	Box/pack No. items
16 A	13 430	2p	24 V	without reference	10/20
	13 431	3p	24 V	without reference	10/20
	13 432	2p	42 V	12 h	10/20
	13 433	3p	42 V	12 h	10/20
32 A	13 434	2p	24 V	without reference	10/20
	13 435	3p	24 V	without reference	10/20
	13 436	2p	42 V	12 h	10/20
	13 437	3p	42 V	12 h	10/20

Safety sockets in compliance with IEC 309-1 Standard Summary table

Rated current	Poles	Rated voltage	Position earth contact (reference hours)	Vertical flush-mounting sockets with locking switch	Vertical wall-mounting sockets with locking switch	Vertical flush-mounting sockets with locking switch	Vertical wall-mounting sockets with locking switch	Horizontal wall-mounting sockets with locking switch
				IP 44	IP 44	IP 66	IP 66	IP 44
16 A	2p+E	220 V	6 h	 FLPR8019	 FLPR8020	 FLPR8021	 FLPR8022	 FLPR8023
	3p+E	220 V	9 h	13 621	13 641	13 661	13 681	13 642
	3p+E	380 V	6 h	13 624	13 644	13 664	13 684	13 645
	3p+N+E	380 V	6 h	13 627	13 647	13 667	13 687	13 648
32 A	2p+E	220 V	6 h	13 629	13 649	13 669	13 689	13 650
	3p+E	220 V	6 h	13 631	13 651	13 671	13 691	13 652
	3p+E	380 V	9 h	13 634	13 654	13 674	13 694	13 655
	3p+N+E	380 V	6 h	13 637	13 657	13 677	13 697	13 658
63 A	2p+E	380 V	6 h	13 639	13 659	13 679	13 699	13 660
	3p+E	380 V	6 h	-	-	-	-	-
	3p+N+E	380 V	6 h	-	-	-	-	-

Safety sockets in compliance with IEC 309-1 Standard

Summary table

Horizontal wall-mounting sockets with locking switch and fuse-holder IP 44	Horizontal wall-mounting sockets with locking switch IP 55	Horizontal wall-mounting sockets with locking switch and fuse-holder IP 55	Wall-mounting sockets with locking switch and fuse-holder IP 44	Wall-mounting sockets with locking switch and fuse-holder IP 55	Wall-mounting sockets with locking switch and DIN EN 50022 rail IP 55
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13 702	13 682	13 732	13 701	13 731	13 761
13 705	13 685	13 735	13 704	13 734	13 764
13 708	13 688	13 738	13 707	13 737	13 767
13 710	13 690	13 740	13 709	13 739	13 769
13 712	13 692	13 742	13 711	13 741	13 771
13 715	13 695	13 745	13 714	13 744	13 774
13 718	13 698	13 748	13 717	13 747	13 777
13 720	13 700	13 750	13 719	13 749	13 779
-	-	-	13 721	13 724	13 727
-	-	-	13 722	13 725	13 728
-	-	-	13 723	13 726	13 729

Tertiary/industrial application



IMQ mark
in compliance with CEI 23-12 Standards

Safety sockets in compliance with IEC 309-1 Standard

Vertical sockets with locking switch

Technical characteristics

- degree of protection IP 44 and IP 66, depending on the version
- supplied in the following versions:
 - flush-mounting
 - wall-mounting
- available in RAL 7035 grey
- made in self-extinguishing techno-polymer, resistant to abnormal heat and fire up to 850°C (glow wire test) in compliance with IEC 695-2-1 Standard
- dimensional stability under constant operating conditions from -20° to +85°C
- shock resistant 6 joules (IK08 level)
- mechanical interlocking so that the circuit breaker can be used only when the plug is pushed in completely

- the plug can be pulled out only when the locking switch is in the "0" position
- locking switch can be padlocked in the "0" position
- possibility of installation in environments with major risk of fire (Standard CEI 64-8 part 7, section 751) and in AD-FT environments (Standard CEI 64-2, IV edition)
- sockets made in compliance with Standards CEI 23-12
- flush-mounting sockets supplied with:
 - 1 seal
 - 1 drilling template
- wall-mounting sockets supplied with:
 - 1 cableway (IP44 versions)
 - 1 cable clamp (IP66 versions)
 - 4 screw cover caps to guarantee



7

FLCO9852

Safety sockets in compliance with IEC 309-1 Standard

Vertical sockets with locking switch

Vertical IP 44 flush-mounting sockets



FLPR8019

Vertical IP 44 wall-mounting sockets



FLPR8022

	Article	Poles	Rated voltage	Pos. earth contact (ref. hours)	Box/pack No. items
16 A	13 621	2p+E	220 V	6 h	1/7
	13 624	3p+E	220 V	9 h	1/7
	13 627	3p+E	380 V	6 h	1/7
	13 629	3p+N+E	380 V	6 h	1/7
32 A	13 631	2p+E	220 V	6 h	1/7
	13 634	3p+E	220 V	9 h	1/7
	13 637	3p+E	380 V	6 h	1/7
	13 639	3p+N+E	380 V	6 h	1/7

	Article	Poles	Rated voltage	Pos. earth contact (ref. hours)	Box/pack No. items
16 A	13 641	2p+E	220 V	6 h	1/7
	13 644	3p+E	220 V	9 h	1/7
	13 647	3p+E	380 V	6 h	1/7
	13 649	3p+N+E	380 V	6 h	1/7
32 A	13 651	2p+E	220 V	6 h	1/7
	13 654	3p+E	220 V	9 h	1/7
	13 657	3p+E	380 V	6 h	1/7
	13 659	3p+N+E	380 V	6 h	1/7

Vertical IP 66 flush-mounting sockets



FLPR9021

Vertical IP 66 wall-mounting sockets



FLPR9022

	Article	Poles	Rated voltage	Pos. earth contact (ref. hours)	Box/pack No. items
16 A	13 661	2p+E	220 V	6 h	1/7
	13 664	3p+E	220 V	9 h	1/7
	13 667	3p+E	380 V	6 h	1/7
	13 669	3p+N+E	380 V	6 h	1/7
32 A	13 671	2p+E	220 V	6 h	1/7
	13 674	3p+E	220 V	9 h	1/7
	13 677	3p+E	380 V	6 h	1/7
	13 679	3p+N+E	380 V	6 h	1/7

	Article	Poles	Rated voltage	Pos. earth contact (ref. hours)	Box/pack No. items
16 A	13 681	2p+E	220 V	6 h	1/7
	13 684	3p+E	220 V	9 h	1/7
	13 687	3p+E	380 V	6 h	1/7
	13 689	3p+N+E	380 V	6 h	1/7
32 A	13 691	2p+E	220 V	6 h	1/7
	13 694	3p+E	220 V	9 h	1/7
	13 697	3p+E	380 V	6 h	1/7
	13 699	3p+N+E	380 V	6 h	1/7

Safety sockets in compliance with IEC 309-1 Standard

Accessories for vertical sockets with locking switch

IP 55 distribution box



Article	Description	Box/pack No. items
13 878	8 Pg 21 inlets + 2 holes on the back Ø 28.5 mm	1/12

Suitable for combining 2 vertical wall-mounting sockets one side by side

Flush-mounting box



Article	Description	Box/pack No. items
13 881	8 Pg 21 inlets + 2 holes on the back Ø 28.5 mm	1/18

Suitable for installing vertical flush-mounting boxes on the wall

Union



Article	Ø	Dimensions (mm)		Box/pack No. items
		d	L max	
13 874	23	18	7	100/500
13 875	28,5	22	7	100/400
13 876	37,5	30	10	100/200

For union in box and socket battery

Ø = threaded diameter.

d = internal diameter

L max = maximum thickness that can be joined

Safety sockets in compliance with IEC 309-1 Standard

Horizontal sockets with locking switch

Tertiary/industrial application

Technical characteristics

- degree of protection IP 44 and IP 55, depending on the version
- available in RAL 7035 grey
- available in two versions:
 - with fuse-holder
 - without fuse-holder
- made in self-extinguishing techno-polymer, resistant to abnormal heat and fire up to 850°C (incandescent wire test) in compliance with IEC 695-2-1 Standard
- dimensional stability under constant operating conditions from -20° to +85°C
- shock resistant 6 joules (IK08 level)
- mechanical interlocking so that the locking switch can be used only when the plug is pushed in completely
- the plug can be pulled out only when the locking switch is in the "0" position
- locking switch can be padlocked in the "0" position
- front parts produced with a bi-material pressing system to make it possible to produce the cover and the seal in a single pressing phase, guaranteeing the degree of protection and making sure that it will be impossible to lose the seal
- the version with fuse-holder is designed for the installation of the following fuses:
 - NEOZED K φ Ø 1 for 16 A models
 - NEOZED K φ Ø 2 for 32 A models
- possibility of installation in environments with major risk of fire (Standard CEI 64-8 part 7, section 751) and in AD-FT environments (Standard CEI 64-2, IV edition)
- sockets made in compliance with Standards CEI 23-12
- sockets supplied without fuses
- sockets supplied with:
 - 4 screw cover caps to guarantee



IMQ mark

in compliance with CEI 23-12 Standards



Safety sockets in compliance with IEC 309-1 Standard

Horizontal sockets with locking switch

**Horizontal IP 44 wall-mounting sockets
with locking switch**



FLPR9023

**Horizontal IP 55 wall-mounting sockets
with locking switch**



FLPR9025

	Article	Poles	Rated voltage	Pos. earth contact (ref. hours)	Box/pack No. items
16 A	13 642	2p+E	220 V	6 h	1/4
	13 645	3p+E	220 V	9 h	1/4
	13 648	3p+E	380 V	6 h	1/4
	13 650	3p+N+E	380 V	6 h	1/4
32 A	13 652	2p+E	220 V	6 h	1/4
	13 655	3p+E	220 V	9 h	1/4
	13 658	3p+E	380 V	6 h	1/4
	13 660	3p+N+E	380 V	6 h	1/4

	Article	Poles	Rated voltage	Pos. earth contact (ref. hours)	Box/pack No. items
16 A	13 682	2p+E	220 V	6 h	1/4
	13 685	3p+E	220 V	9 h	1/4
	13 688	3p+E	380 V	6 h	1/4
	13 690	3p+N+E	380 V	6 h	1/4
32 A	13 692	2p+E	220 V	6 h	1/4
	13 695	3p+E	220 V	9 h	1/4
	13 698	3p+E	380 V	6 h	1/4
	13 700	3p+N+E	380 V	6 h	1/4

**Horizontal IP 44 wall-mounting sockets
with locking switch and fuse-holder**



FLPR9024

**Horizontal IP 55 wall-mounting sockets
with locking switch and fuse-holder**



FLPR9026

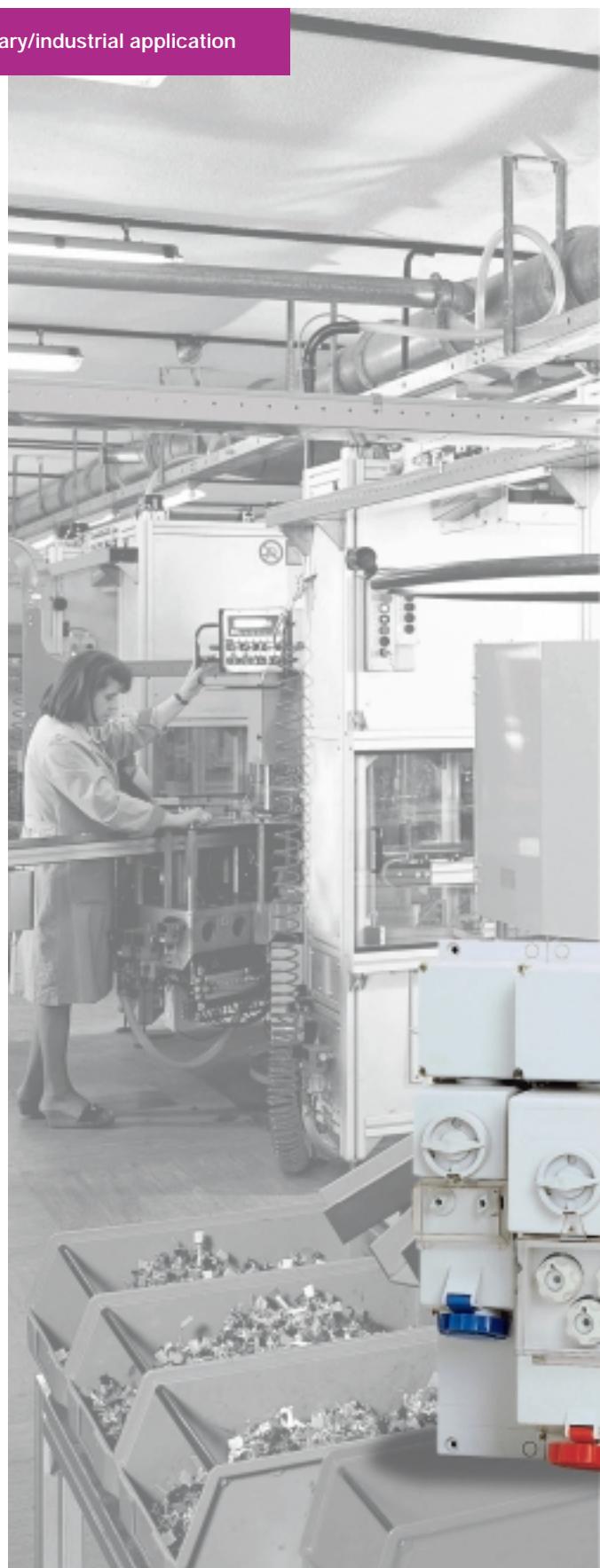
	Article	Poles	Rated voltage	Pos. earth contact (ref. hours)	Box/pack No. items
16 A	13 702	2p+E	220 V	6 h	1/4
	13 705	3p+E	220 V	9 h	1/4
	13 708	3p+E	380 V	6 h	1/4
	13 710	3p+N+E	380 V	6 h	1/4
32 A	13 712	2p+E	220 V	6 h	1/4
	13 715	3p+E	220 V	9 h	1/4
	13 718	3p+E	380 V	6 h	1/4
	13 720	3p+N+E	380 V	6 h	1/4

	Article	Poles	Rated voltage	Pos. earth contact (ref. hours)	Box/pack No. items
16 A	13 732	2p+E	220 V	6 h	1/4
	13 735	3p+E	220 V	9 h	1/4
	13 738	3p+E	380 V	6 h	1/4
	13 740	3p+N+E	380 V	6 h	1/4
32 A	13 742	2p+E	220 V	6 h	1/4
	13 745	3p+E	220 V	9 h	1/4
	13 748	3p+E	380 V	6 h	1/4
	13 750	3p+N+E	380 V	6 h	1/4

Safety sockets in compliance with IEC 309-1 Standard

Sockets with locking switch and fuse-holders

Tertiary/industrial application



Technical characteristics

- degree of protection IP 44 and IP 55, depending on the version
- available in RAL 7035 grey
- made in self-extinguishing techno-polymer, resistant to abnormal heat and fire up to 850°C (glow wire test) in compliance with IEC 695-2-1 Standard
- dimensional stability under constant operating conditions from -20° to +85°C
- shock resistant 6 joules (IK08 level)
- mechanical interlocking so that the locking switch can be used only when the plug is pushed in completely
- the plug can be pulled out only when the circuit breaker is in the "0" position
- fuse-holder cap for the following fuses:
 - 16 A NDZ 25 A E16
 - 32 A DIII 63 A E33
 - 63 A DIII 63 A E33
- access door to valves can be opened only when the locking switch is in the "0" position
- locking switch can be padlocked in the "0" position
- cable inlet at the top:
 - for versions with degree of protection IP 44 via cableway
 - for versions with degree of protection IP 55 via Pg pitch cable clamp
- possibility of installation in environments with major risk of fire (Standard CEI 64-8 part 7, section 751) and in AD-FT environments (Standard CEI 64-2, IV edition)
- sockets made in compliance with Standards CEI 23-12
- sockets supplied without fuses
- sockets supplied with:
 - 1 cableway (IP 44 versions)
 - 1 cable clamp (IP 55 versions)
 - 4 screw cover caps to guarantee

FPR040



IMQ mark

in compliance with CEI 23-12 Standards

Safety sockets in compliance with IEC 309-1 Standard

Sockets with locking switch and fuse-holders

IP 44



IP 55



	Article	Poles	Rated voltage	Pos. earth contact (ref. hours)	Box/pack No. items
16 A	13 701	2p+E	220 V	6 h	1/6
	13 704	3p+E	220 V	9 h	1/6
	13 707	3p+E	380 V	6 h	1/6
	13 709	3p+N+E	380 V	6 h	1/6
32 A	13 711	2p+E	220 V	6 h	1/6
	13 714	3p+E	220 V	9 h	1/6
	13 717	3p+E	380 V	6 h	1/6
	13 719	3p+N+E	380 V	6 h	1/6
63 A	13 721	2p+E	220 V	6 h	1/6
	13 722	3p+E	380 V	6 h	1/6
	13 723	3p+N+E	380 V	6 h	1/6

	Article	Poles	Rated voltage	Pos. earth contact (ref. hours)	Box/pack No. items
16 A	13 731	2p+E	220 V	6 h	1/6
	13 734	3p+E	220 V	9 h	1/6
	13 737	3p+E	380 V	6 h	1/6
	13 739	3p+N+E	380 V	6 h	1/6
32 A	13 741	2p+E	220 V	6 h	1/6
	13 744	3p+E	220 V	9 h	1/6
	13 747	3p+E	380 V	6 h	1/6
	13 749	3p+N+E	380 V	6 h	1/6
63 A	13 724	2p+E	220 V	6 h	1/6
	13 725	3p+E	380 V	6 h	1/6
	13 726	3p+N+E	380 V	6 h	1/6

Safety sockets in compliance with IEC 309-1 Standard

Sockets with locking switch and DIN EN 50022 rail

Tertiary/industrial application

Technical characteristics

- degree of protection IP 44 and IP 55, depending on the version
- available in RAL 7035 grey
- available in the versions:
 - 16 A with the possibility of holding up to 4.5 17.5 mm modules
 - 32 A with the possibility of holding up to 6 17.5 mm modules
 - 63 A with the possibility of holding up to 6 17.5 mm modules
- made in self-extinguishing techno-polymer, resistant to abnormal heat and fire up to 850°C (glow wire test) in compliance with IEC 695-2-1 Standard
- dimensional stability under constant operating conditions from -20° to +85°C
- shock resistant 6 joules (IK08 level)
- mechanical interlocking so that the circuit breaker can be used only when the plug is completely pushed in
- the plug can be pulled out only when the locking switch is in the "0" position
- locking switch can be padlocked in the "0" position
- cable inlet at the top through Pg pitch cable clamp
- possibility of installation in environments with major risk of fire (Standard CEI 64-8 part 7, section 751) and in AD-FT environments (Standard CEI 64-2, IV edition)
- sockets made in compliance with Standards CEI 23-12
- sockets supplied with:
 - 1 cable clamp
 - 4 screw cover caps to guarantee 



in compliance with CEI 23-12 Standards

Safety sockets in compliance with IEC 309-1 Standard

Sockets with locking switch and DIN EN 50022 rail

IP 55



	Article	Poles	Rated voltage	Pos. earth contact (ref. hours)	Box/pack No. items
16 A	13 761	2p+E	220 V	6 h	1/4
	13 764	3p+E	220 V	9 h	1/4
	13 767	3p+E	380 V	6 h	1/4
	13 769	3p+N+E	380 V	6 h	1/4
32 A	13 771	2p+E	220 V	6 h	1/6
	13 774	3p+E	220 V	9 h	1/6
	13 777	3p+E	380 V	6 h	1/6
	13 779	3p+N+E	380 V	6 h	1/6
63 A	13 727	2p+E	220 V	6 h	1/6
	13 728	3p+E	380 V	6 h	1/6
	13 729	3p+N+E	380 V	6 h	1/6

Safety sockets in compliance with IEC 309-1 Standard

Ultra-low voltage sockets with safety transformer (SELV)

Tertiary/industrial application



Technical characteristics

- degree of protection IP 44 and IP 55, depending on the version
- class II insulation
- available in RAL 7035 grey
- available with rated power of 160 V in continuous use, utilisation voltages of 220/24 V and 380/24 V with the possibility of having one or two ultra-low voltage IEC 309 outlet sockets
- made in self-extinguishing techno-polymer, resistant to abnormal heat and fire up to 850°C (glow wire test) in compliance with IEC 695-2-1 Standard
- shock resistant 6 joules (IK08 level)
- top cable inlet:
 - for versions with IP 44 degree of protection via cableway
 - for versions with IP 55 degree of protection via Pg pitch cable clamp
- sockets complete with safety transformers in compliance with IEC 742 and CEI EN 60742 Standards and designed to satisfy the "safety source" requirement
- power switch on primary socket operated by special mechanism when the plug is inserted
- safety transformer protected against short circuits by fuses on the primary and secondary
- sockets made in compliance with Standards CEI 23-12
- sockets supplied with:
 - 1 cableway (IP 44 versions)
 - 1 cable clamp (IP 55 versions)
 - 4 screw cover caps to guarantee



IMQ mark

in compliance with CEI 23-12 Standards

Safety sockets in compliance with IEC 309-1 Standard

Ultra-low voltage sockets with safety transformer (SELV)

IP 44 - IP 55



IP 44

Article	Description	Voltage used	Rated current	No. Poles	Box/pack No. items
13 921	1 socket	220/24 V ac	16 A	2p	1/6
13 922	2 sockets	220/24 V ac	16 A	2p	1/6
13 923	1 socket	400/24 V ac	16 A	2p	1/6
13 924	2 sockets	400/24 V ac	16 A	2p	1/6

IP 55

Article	Description	Voltage used	Rated current	No. Poles	Box/pack No. items
13 927	1 socket	220/24 V ac	16 A	2p	1/6
13 928	2 sockets	220/24 V ac	16 A	2p	1/6
13 929	1 socket	400/24 V ac	16 A	2p	1/6
13 930	2 sockets	400/24 V ac	16 A	2p	1/6

Safety sockets in compliance with IEC 309-1 Standard

Modular panels and boxes



Technical characteristics

Modular panels

- available in RAL 7035 grey
- made in self-extinguishing techno-polymer, resistant to abnormal heat and fire up to 850°C (glow wire test) in compliance with IEC 695-2-1 Standard
- shock resistant 6 joules (**IK08 level**)
- material without halogens and reduced optical density of fumes
- available in three different sizes
- suitable for creating multiple bases
- panels supplied complete with:
 - self-tapping screws
 - insulating protection caps
 - couplers

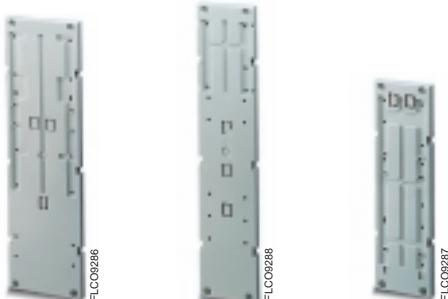
Junction boxes

- degree of protection IP 55
- insulation class II
- available in RAL 7035 grey
- made in self-extinguishing techno-polymer, resistant to abnormal heat and fire up to 950°C (glow wire test) in compliance with IEC 695-2-1 Standard
- dimensional stability under constant operating conditions from -20° to +90°C
- shock resistant 6 joules (**IK 08 level**)
- available in five different sizes
- walls made with pre-cut holes for connection to safety sockets or between boxes (using special connectors)
- boxes supplied with:
 - 4 screw cover caps to guarantee

Safety sockets in compliance with IEC 309-1 Standard

Modular panels and boxes

Modular panels



Junction boxes for modular panels



Article	Type	Dimensions (mm)		Box/pack No. items
		W	H	
13 800	A	111	388	1/65
13 802	B	111	535	1/48
13 804	C	151	535	1/30

Article	Type	Dimensions (mm)			Push-in inlets	Box/pack No. items
		W	H	D		
13 860	V	110	75	65	4 x Pg21	1/39
13 861	X	110	110	65	6 x Pg21	1/24
13 862	Y	110	150	100	6 x Pg21 4 x Pg21	1/10
13 863	W	150	110	100	1 x Pg21/29 1 x Pg29	1/8
13 864	Z	150	150	100	4 x Pg21 2 x Pg21/29	1/8

Safety sockets in compliance with IEC 309-1 Standard

Modular panels and boxes

Panels with boxes



Article	Description	Box/pack No. items
13 840	1 panel type A + 1 box type W	1/20
13 841	1 panel type B + 1 box type W	1/12
13 842	1 panel type C + 1 box type Y	1/6
13 845	2 panels type A + 2 cassette tipo W	1/10
13 846	3 panels type A + 3 boxes type W	1/10
13 850	2 panel types B + 2 boxes type W 1 panel types C + 1 box type Y	1/4
13 851	2 panel types B + 2 boxes type W 2 panel types C + 2 boxes type Y	1/2

Guide to combining sockets, panels and boxes

Sockets	Panel type	Box type
16 A	A	X
	B	X or Y
16 A with modular compartment	A	V
	B	X or Y
16 A with ultra-low voltage	C	W or Z
32 A	C	W or Z
32 A	C	W or Z
63 A with modular compartment	C	W or Z
63 A with modular compartment	C	W or Z

This table indicates the existing possible combination.

For example: a 16 A socket with a modular compartment can be fitted on a type A or type B panel, but not on a type C; also, if it is mounted on a type A panel it can be combined with a type V box only. Obviously, by combining more than one correctly mounted panel all the necessary configurations can be obtained.

N.B. Junction boxes can be connected horizontally (side by side) only if they are the same size.

Complete with connections and seals for connecting between boxes and sockets

Safety sockets in compliance with IEC 309-1 Standard

Accessories for modular panels and boxes

"C" section bars



FLPR9046

Set of parts for fixing panels



FLPR9047

Article	Description	Box/pack meters	Article	Description	Box/pack No. items
13 871	2m bars in zinc-plated tropicalised iron	2/40	13 872	Screws, nuts and plastic supports	1/30

Unions



FLPR9037

Article	Dimensions (mm)	Box/pack No. items
	Ø d L max	
13 874	23 18 7	100/500
13 875	28.5 22 7	100/400
13 876	37.5 30 10	100/200

For union in box and socket battery

Ø = threaded diameter

d = internal diameter

L max = maximum thickness that can be joined

Index

Metal rails	8/2
Cable-ties and spirals	8/4
Polyamide wall plugs	8/8
Steel wall plugs	8/9
Fastening elements	8/10

Installation material

Metal rails

Technical characteristics

- made from cold-rolled steel strips
- electric zinc plated with subsequent passivation and tropicalisation with a minimum thickness of zinc (6/8 microns) deposited over the entire surface
- axial dimples on the rails without holes, to facilitate the drilling of installation holes
- strict control of the dimensions as required by the standards EN 50035, DIN 46277/1 and EN 50022, DIN 46277/2
- application area: industrial

Accessories page 8/3

Technical details page 9/1

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CENELEC-EN 50022 rail

H 7,5



Article	Dimensions (mm) BxbxHxD *	Length (m)	Box/pack (m)
12 839	35x27x7.5x1	2	20/40

CENELEC-EN 50022 rail

H 15



Article	Dimensions (mm) BxbxHxD *	Length (m)	Box/pack (m)
12 840	35x27x15x1.5	2	20/20

CENELEC-EN 50035 rail

H 15



Article	Dimensions (mm) BxbxHxD *	Length (m)	Box/pack (m)
12 841	32x16.5x15x1.5	2	20/20

CENELEC-EN 50022 rail with holes

H 7,5



Article	Dimensions (mm) BxbxHxD *	Length (m)	Box/pack (m)
12 849	35x27x7.5x1	2	40/40

CENELEC-EN 50022 rail

H 15



Article	Dimensions (mm) BxbxHxD *	Length (m)	Box/pack (m)
12 850	35x27x15x1.5	2	20/20

CENELEC-EN 50035 rail with holes

H 15



Article	Dimensions (mm) BxbxHxD *	Length (m)	Box/pack (m)
12 853	32x16.5x15x1.5	2	20/20

* B = external base; b = internal base; H = height of rail; D = thickness of rail

Installation material

Accessories for metal rails

Supporting bracket for metal rails

Article

12 892

Box/pack
No. items

50/250



Plastic base for wiring ducts

Article

05 210

Box/pack
No. items

100/200



Universal plastic connector

Article

12 893

Box/pack
No. items

50/3000



Universal metal connector

Article

12 828

Box/pack
No. items

50/1500

12 829

50/1500



Installation material

Cable-ties and spirals

Technical characteristics

Polyamide cable-ties 6/6

- Available in two versions:
 - transparent
 - carbon black, UV resistant
- operating temperatures from -20 to +110°C
- made in self-extinguishing thermo-plastic
- softening point VICAT VST/B/50-DIN 53460 greater than 200°C
- dielectric rigidity 50.000 V/mm
- strong resistance to bases, greases, hydrocarbons, acetone and chlorates
- limited resistance to concentrated acids
- soluble in phenolic and formic acids
- flexing resistance according to DIN 53452: 110 MPa
- traction module according to DIN 53457: 12800 MPa
- resilience to 20°C according to DIN 53453: 6-8 kJ/m²
- yield strength according to DIN 53455: 80 MPa
- elongation to breaking according to DIN 53455: 35%
- hardness according to DIN 53456: 125 N/mm
- particularly suited to the cabling of control panels
- cable-ties made according to regulations MIL-S-23190 and IEC 92-101
- tightening is easy without tearing thanks to the special pitch of the indentations
- the side edges have anti-scratching protection so as not to damage the hands of the operator and not to nick the cable insulation
- rounded point to ease insertion in the countersunk head
- application area: tertiary/industrial

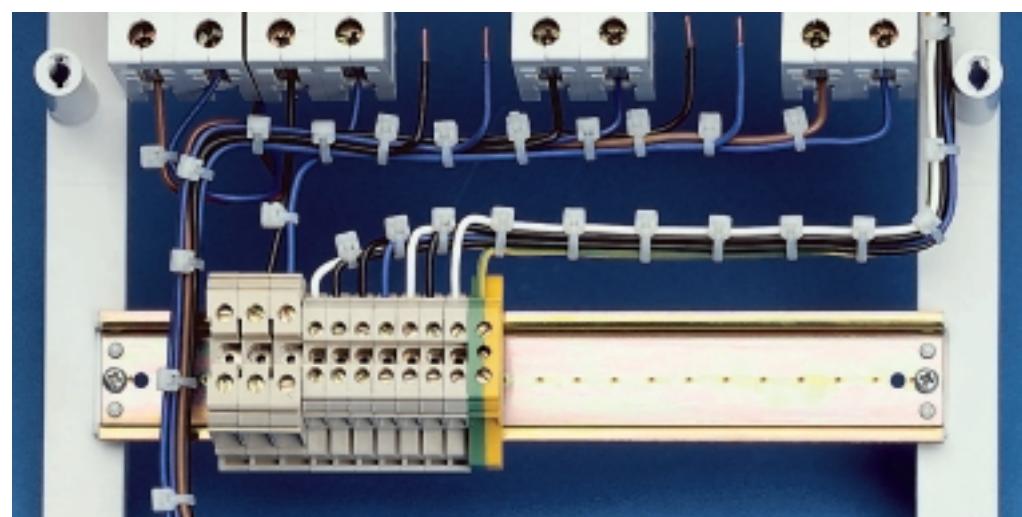
Polyamide cable-ties 12

- Available in black, UV resistant
- Absorption of humidity less than 1%

- operating temperatures from -30° to +80°C
- made in self-extinguishing thermo-plastic
- dielectric rigidity 28.000 V/mm
- strong resistance to bases, greases, hydrocarbons, acetone and chlorates
- limited resistance to nitric and chromic acids
- flexing resistance according to DIN 53452: 20 MPa
- traction module according to DIN 53457: 420 Mpa
- ultimate tensile tearing strength to DIN 53455: 61 Mpa
- resilience to 20°C according to DIN 53453: did not break
- yield strength according to DIN 53455: 24 MPa
- elongation at break according to DIN 53455: 370%
- hardness according to 62 SHORE D
- particularly suited to external use
- cable-ties made according to regulation MIL-S-23190
- high resistance to tearing thanks to the special tightening mechanism
- the side edges have anti-scratching protection so as not to damage the hands of the operator and not to nick the cable insulation
- rounded point to ease the insertion in the countersunk head
- application area: tertiary/industrial

Spirals

- available in two versions:
 - transparent polyethylene
 - self-extinguishing polyethylene
- suitable for forming bundles of cables and for making cabling look neat and tidy
- they mechanically protect the conductors allowing them to exit from any point through the coils
- application area: tertiary/industrial



Installation material

Cable-ties and spirals

6/6 transparent polyamide cable-ties



6/6 black polyamide cable-ties



Article	Dimensions (mm) WxL	Resistance to tensile strength (N)	Ø tightening *min.(mm)max.(mm)	Box/pack No. items
18 010	100x2.5	82	2	24 100/8000
18 011	135x2.5	82	2	35 100/6000
18 013	160x2.5	82	2	42 100/5000
18 012	140x3.5	135	2,5	36 100/5000
18 014	200x3.5	135	2,5	55 100/4000
18 017	280x3.5	135	2,5	80 100/3000
18 015	180x4.5	225	3	45 100/3000
18 018	280x4.5	225	5	76 100/2500
18 020	360x4.5	225	5	101 100/1500
18 024	200x7.5	533	5	51 100/2000
18 026	280x7.5	533	5	76 100/1000
18 028	360x7.5	533	5	102 100/2000
18 034	430x9.0	781	5	110 100/2000
18 036	550x9.0	781	5	140 100/2000
18 038	780x9.0	781	5	190 100/800
18 060	100x2.5	82	2	24 1000/15000
18 061	135x2.5	82	2	35 1000/15000
18 063	160x2.5	82	2	42 1000/10000
18 062	140x3.5	135	2,5	36 1000/10000
18 064	200x3.5	135	2,5	55 1000/5000

* N=[Newton]

12 black polyamide cable-ties



Article	Dimensions (mm) WxL	Resistance to tensile strength (N)	Ø tightening *min.(mm)max.(mm)	Box/pack No. items
18 110	100x2.5	82	2	24 100/8000
18 111	135x2.5	82	2	35 100/6000
18 113	160x2.5	82	2	42 100/5000
18 112	140x3.5	135	2,5	36 100/5000
18 114	200x3.5	135	2,5	55 100/4000
18 117	280x3.5	135	2,5	80 100/3000
18 115	180x4.5	225	3	45 100/3000
18 118	280x4.5	225	5	76 100/2500
18 120	360x4.5	225	5	101 100/1500
18 124	200x7.5	533	5	51 100/2000
18 126	280x7.5	533	5	76 100/1000
18 128	360x7.5	533	5	102 100/2000
18 134	430x9.0	781	5	110 100/200
18 136	550x9.0	781	5	140 100/2000
18 138	780x9.0	781	5	190 100/800
18 160	100x2.5	82	2	24 1000/15000
18 161	135x2.5	82	2	35 1000/15000
18 163	160x2.5	82	2	42 1000/10000
18 162	140x3.5	135	2,5	36 1000/10000
18 164	200x3.5	135	2,5	55 1000/5000

* N = [Newton]

Spirals



Article	Dimensions (mm) WxL	Resistance to tensile strength (N)	Ø tightening *min.(mm)max.(mm)	Box/pack No. items
18 210	115x6	240	5	20 100/3000
18 212	175x6	280	10	40 100/2000
18 218	115x9	350	5	20 100/2000
18 220	190x9	350	10	45 100/2000
18 222	265x9	510	15	70 100/1000
18 224	360x9	510	25	100 100/800

* N = [Newton]

Article	Dimensions (mm) Ø x a	For bundle of cables Ø min. (mm)	max. (mm)	Box/pack meter
In transparent polyethylene				
18 370	3x5	2	12	50/500
18 372	6x8	5	56	25/300
18 374	10x11	12	100	25/100
18 376	12x13	14	130	25/100
In self-extinguishing polyethylene				
18 380	3x5	2	12	50/500
18 382	6x8	5	56	25/300
18 384	10x11	12	100	25/100
18 386	12x13	14	130	25/100

Ø = diameter

a = width of spiral

Installation material

Accessories for cable-ties

Self-adhesive supports for cable-ties



FLM9018

Screw supports for cable-ties



FLM9019

Article	Description	Box/pack No. items	Article	Description	Box/pack No. items
18 250	transparent plate	50/1500	18 252	transparent plate	100/6000
18 251	black plate	50/1500	18 253	black plate	100/6000

- for cable-ties 2.4 – 4.8 mm wide.
- made in 6/6 transparent or black polyamide.
- fast to mount due to its self-adhesive snap on base or it can fixed with a central 4mm screw.

- for cable-ties 2.4 – 4.8 mm wide.
- made in 6/6 transparent or black polyamide.
- fix with Ø 4 mm screw or Ø 2 mm nail.

Pincers for cable-ties



FLM9020

Screw supports for external cable-ties



FLM9021

Article	Box/pack No. items	Article	Description	Box/pack No. items
18 270	1/10	18 280	black plate	25/1500

- for tightening and cutting cable-ties 2.4 – 4.8 mm wide.
- made in thermoplastic, shock proof material with internal steel mechanism.
- tightening tension can be adjusted by a special nut above the handle.

- for cable-ties 6-9 mm wide.
- made in 6/6 black polyamide.
- fix with screw wall-plug max Ø 8 mm or with a nail

Installation material

Accessories for cable-ties

Pivot support for external cable-ties



Article	Description	Box/pack No. items
18 282	black plate	25/1500

- for cable-ties 6 - 9 mm wide
- made in 6/6 black polyamide

Pincers for external cable-ties



Article	Box/pack No. items
18 290	1/10

- for tightening and cutting cable-ties 6 - 9 mm wide.
- made in painted metal.

Installation material

Polyamide wall plugs

Technical characteristics

- wall-plugs made in 6/6 polyamide
- available in RAL 7035 grey and RAL 9001 white
- wall plugs with nickel-plated steel Allen screws
- resistant to atmospheric agents, gas and ageing
- don't change in temperatures ranging from -30° and +90°C
- suitable for use with various materials (from cement to wood) with a high holding level

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Wall plugs



Article	Colour	Dimensions (mm) ØxL	Box/pack No. items
18 405	grey	5x25	200/12000
18 406	grey	6x30	100/6000
18 408	grey	8x40	100/3000
18 410	grey	10x50	50/1500

Wall plugs with screws



Article	Colour	Wall plug diam.	Dimensions (mm) Screws ØxL	Box/pack No. items
18 415	grey	5	3.5 x 25	100/3000
18 416	grey	6	4 x 30	100/3000
18 418	grey	8	5 x 40	50/1500
18 420	grey	10	6 x 50	50/1500

Wall plugs with nail/screw



Article	Colour	Wall plug Ø	Dimensions (mm) Screws ØxL	Box/pack No. items
18 430	white	5	3.5 x 27	100/3000
18 432	white	6	4 x 35	100/3000
18 434	white	6	4 x 55	50/1500
18 436	white	8	5 x 70	50/1500
18 440	white	8	5 x 72	50/1500

Wall plugs with hooks



Article	Colour	Description	Box/pack No. items
18 450	grey	screw M4	50/1500
18 452	grey	short angled hook M4	50/1500
18 454	grey	medium angled hook M4	50/1500
18 456	grey	open angled hook M4	50/600
18 458	grey	closed angled hook M4	50/600

- for quick fixing
- expansion with hammering of the nail/screw, can be unscrewed
- with a neck to hold the element to be fastened

- hooks nickel-plated steel
- thread M4 – hole Ø 9x36 mm

Installation material

Steel wall plugs

Technical characteristics

- screw anchors made in burnished passivated zinc
- Thread M4 – hole Ø 8x42 mm
- Thread M5 – hole Ø 10x50 mm
- suitable for use with masonry (in cement, tiles etc.)

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Wall plugs with hooks

With washer



Article	Description	Box/pack No. items
18 460	screw with M4 Philips countersunk head	50/1500
18 461	screw with M5 Philips countersunk head	50/1500
18 464	short angled hook M4	50/1500
18 465	short angled hook M5	25/750
18 466	medium angled hook M4	50/1500
18 467	medium angled hook M5	25/750
18 470	hook with open eyelet M4	50/1500
18 471	open angled hook M5	25/750
18 472	hook with closed eyelet M4	50/1500
18 473	hook with closed eyelet M5	25/750

Wall plugs with hooks

With washer



Article	Description	Box/pack No. items
18 476	flat hook M4	50/1500
18 477	flat hook M5	25/750
18 478	medium angled hook M4	25/750
18 479	medium angled hook M5	25/750

Wall anchors

Thread M4 – hole Ø14



Article	Description	Box/pack No. items
18 490	screw with M4 Philips countersunk head	10/300
18 492	M4 head	10/300
18 494	hook with open eyelet M4	10/300
18 496	hook with closed eyelet M4	10/300

Screws with wall plugs



Article	Description	Box/pack No. items
18 486	screw with hexagonal head M6x50	20/600
18 487	screw with hexagonal head M8x55	10/300
18 488	screw with hexagonal head M10x60	10/300
18 489	screw with hexagonal head M10x70	5/150

Installation material

Fastening elements

Technical characteristics

In order to simplify and speed up the laying of conduits and cables in any situation, the following products are available:

- thermo-plastic **snap-on** and **collar** conduit holders
- thermo-plastic U-bolt conduit holders
- conduit holder guides
- thermo-plastic strap holders
- thermo-plastic cable holders
- steel conduit holders
- thermo-plastic and steel collar conduit holders

- self-extinguishing insulated poly-carbonate cable-clamps
- thermo-plastic fastening elements resistant to abnormal heat and fire up to 650°C (glow wire test) in compliance with the IEC 695-2-1 Standard
- thermo-plastic fastening elements with dimensional stability under operating conditions from -30° to +70°C
- application area: tertiary/residential

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Snap-on conduit holders



Article	Colour	For conduits Ø (mm)	Box/pack No. items
05 700	grey	16	100/1200
05 701	grey	20	100/1200
05 702	grey	25	50/600
05 703	grey	32	25/300
05 704	grey	40	25/300

- self-extinguishing thermo-plastic
- fixed to the wall using a wall-plug or a suitable guide

Collar conduit holders



Article	Colour	For conduits Ø (mm)	Box/pack No. items
05 720	grey	16	100/1200
05 721	grey	20	50/600
05 722	grey	25	50/600
05 723	grey	32	25/300

- self-extinguishing thermo-plastic
- fixed to the wall using a wall-plug or a suitable guide

U-bolt conduit holders



Article (mm)	Colour	For conduits Ø (mm)	Box/pack No. items
05 694	grey	12-16	50/600
05 695	grey	16-25	30/360
05 696	grey	25-32	20/240
05 697	grey	32-40	15/180
05 698	grey	40-50	10/180

- self-extinguishing thermo-plastic
- fixed to the wall using a wall-plug or a suitable guide

Strap holders



Article	Colour	For straps WxL (mm)	Box/pack No. items
05 760	grey	6x3.5	200/12000
05 761	grey	8x3.5	200/12000
05 762	grey	11x5	100/6000
05 763	white	6x3.5	200/12000
05 764	white	8x3.5	200/12000
05 765	white	11x5	100/6000

- self-extinguishing thermo plastic

Installation material

Fastening elements

Conduit clamps



FLM9037

Article	For conduits Ø (mm)	Box/pack No. items
05 730	10	100/3000
05 731	12	100/3000
05 732	13	100/3000
05 733	14	100/3000
05 734	16	50/1500
05 735	19-20	50/1500
05 736	22	50/1500
05 737	25-26	50/600
05 738	32	50/600
05 739	38	25/300
05 740	40	25/300
05 741	50	25/300

- in galvanised steel

Conduit clamp collars



FLM9038

Article	For conduits Ø (mm)	Box/pack No. items
05 745	10	50/1500
05 746	12	50/1500
05 747	13	50/1500
05 748	14	50/1500
05 749	16	50/1500
05 750	19-20	25/750
05 751	22	25/750
05 752	25-26	25/750
05 753	32	25/300
05 754	38	25/300
05 755	40	25/300
05 756	50	25/300

- in galvanised steel

Guide for conduit-clamps



FLM9036

Article	Box/pack No. items
05 727	- /400

- self-extinguishing thermoplastic
- supplied in sections from 200mm

Cable holders



FLM9040

Article	Colour	For conduits and cables Ø (mm)	Box/pack No. items
05 770	grey	4	200/12000
05 771	grey	5	200/12000
05 772	grey	6	200/12000
05 773	grey	7	100/6000
05 774	grey	8	100/6000
05 775	grey	9	100/6000
05 776	grey	10	100/3000
05 777	grey	12	100/3000
05 778	grey	13	100/3000
05 779	grey	14	100/3000
05 780	grey	16	50/1500
05 781	grey	19-20	25/750
05 782	grey	22	25/750
05 783	grey	25-26	25/300
05 784	grey	32	25/300
05 788	white	4	200/12000
05 789	white	5	200/12000
05 790	white	6	200/12000
05 791	white	7	100/6000
05 792	white	8	100/6000
05 793	white	9	100/6000
05 794	white	10	100/3000
05 795	white	12	100/3000
05 796	white	13	100/3000

- self-extinguishing thermoplastic

Insulated cable-clamps



FLM9041

Article	Clamping capacity (mm ²)	Box/pack No. items
05 950	4	100/3000
05 951	10	50/1500
05 952	16	25/750

- self-extinguishing polycarbonate
- dimensional stability from -30° to +85° C
- brass clamps

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Further technical information and applications

Definition of IP degree of protection, IK degree of mechanical shock protection and self-extinguishing degree of protection

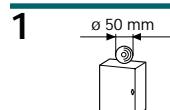
IP degrees of protection

1st DIGIT: PROTECTION AGAINST SOLID BODIES

IP

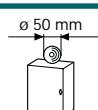
0

No protection



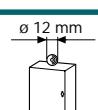
1

Protected against solid bodies larger than 50 mm (unintentional contact with the hands)



2

Protected against solid bodies larger than 12 mm (finger of the hand)



3

Protected against solid bodies larger than 2.5 mm (tools, wires)



4

Protected against solid bodies larger than 1 mm



5

Dust proof (no harmful deposit)



6

Totally dust proof



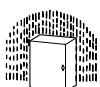
1st digit defined by CEI 70-1 and IEC 529 Standards

2nd DIGIT: PROTECTION AGAINST LIQUIDS

IP

0

No protection



1

Protected against vertical drops of water (condensation)



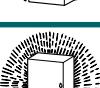
2

Protected against drops of water falling at a maximum of 15° from vertical



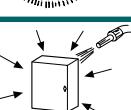
3

Protected against a shower of water falling at a maximum of 60° from vertical



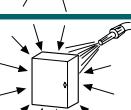
4

Protected from sprays of water from any direction



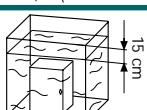
5

Protected against jets of water from all directions from a hose pipe



6

Protected against jets of water similar to sea waves



7

Protected against the effect of temporary immersion

8

Protected against the effects of continuous immersion

2nd digit defined by CEI 70-1 and IEC 529 Standards

V1.000015

Degrees of mechanical shock protection IK conforming to the CEI EN 50102 Standard

9

Code IK	Shock energy (Joule)
00	not protected
01	0.15 Joule
02	0.2 Joule
03	0.35 Joule
04	0.5 Joule
05	0.7 Joule
06	1 Joule
07	2 Joule
08	5 Joule
09	10 Joule
10	20 Joule

Note: test equipment used includes a spring hammer, a pendulum hammer and a vertical hammer.

Further technical information and applications

Definition of IP degree of protection, IK degree of mechanical shock protection and self-extinguishing degree of protection

Double insulation

 This symbol shown on the consumer units/switchboards/boxes/enclosures indicates that they have been constructed so that they will provide protection against indirect contacts by means of complete insulation. To this end they must be installed correctly, following the instructions that accompany the product and using the accessories supplied (screw covering caps).

PROTECTION AGAINST THE PENETRATION OF SOLID BODIES

1 st characteristic digit	Brief description	Full description
0	Unprotected	No particular protection is provided
1	Protected against solid bodies larger than 50 mm	It must be impossible for a large surface area, for example, the hand, to penetrate (voluntary protection is not provided, however) or solid bodies larger than 50 mm in diameter
2	Protected against solid bodies larger than 12 mm	It must be impossible for the fingers or similar objects with a maximum length of 80 mm or solid bodies with a diameter greater than 12 mm, to penetrate
3	Protected against solid bodies larger than 2.5 mm	It must be impossible for tools, wires, etc. with a diameter or thickness greater than 2.5 mm or solid bodies with a diameter greater than 2.5 mm, to penetrate
4	Protected against solid bodies larger than 1.0 mm	It must not be possible for wires or plates with a thickness greater than 1.0 mm or solid bodies with a diameter greater than 1.0, to penetrate
5	Dust proof	Not totally dust proof, but the quantity that penetrates is not such to prevent the material from functioning well
6	Totally dust proof	No dust can penetrate

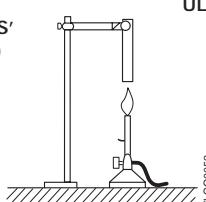
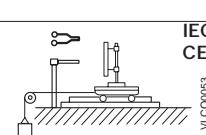
IP 40 degree of protection

In a consumer unit, degree of protection IP 40 (it is impossible to introduce a wire with a diameter of 1 mm) is obtained by installing equipment with IP40 degree of protection and by using the relative accessories (module covers).

PROTECTION AGAINST WATER PENETRATION

2 nd characteristic digit	Brief description	Full description
0	Unprotected	No protection is provided
1	Protected against drops of water	Vertically-falling drops of water must not cause damage
2	Protected against drops of water falling with a maximum angle of 15°	Vertically-falling drops of water will not cause damage when angled at a maximum of 15° from vertical
3	Rain proof	Rain water falling from a direction creating a maximum angle of 60° from vertical must not cause damage
4	Protected against sprays of water	Water sprayed onto the covering from any direction must not cause damage
5	Protected against jets of water	Water projected with a nozzle from all directs must not cause damage
6	Protected against waves	In the case of waves or powerful water jets must not penetrate the covering in harmful quantities
7	Protected against the effects of temporary immersion	Harmful quantities of water must not penetrate inside the immersed covering in specific conditions of pressure or duration
8	Protected against the effect of continuous immersion	The material is suitable to remain constantly immersed in water in the conditions specified by the manufacturer

Self-extinguishing degree of protection

Test	Test equipment	Compliance to standards	Purpose of the test	Results of the test	Heat source	Test conditions Duration of test	Characteristic elements
UL (UNDERWRITERS' LABORATORIES)	 VL.C00952	UL 94	A classification is given to the various types of behaviour that the materials may have following contact with the Bunsen flame	VO if the test specimen burns for less than 5 seconds before going out. V1 if it burns for less than 25 seconds V2 if it burns for less than 25 seconds, dripping glowing material HB if it burns for more than 25 seconds (horizontal test specimen with a maximum burning speed of 38 mm per minute) Can be assimilated with ASTM D-635	Bunsen burner flame	Flame applied for 10 seconds and for two consecutive times	Duration of combustion
GLOW-WIRE TEST	 VL.C00953	IEC 695-2-1 CEI 50-11	Simulates the types of thermal stress that may be produced by the sources of heat or ignition (glowing elements or overcharged resistors for short periods) in order to assess the danger of fire using this simulation	Any manifestation of a flame must stop within 30 seconds of removing the glow-wire. TEST TEMPERATURES 650°C 750°C 850°C 960°C	Glow-wire 4 mm in diameter	Wire applied for 30 seconds	Time it takes the flame to extinguish

Further technical information and applications

Consumer units for modular circuit breakers – summarised technical data

Flush-mounting consumer units IP 40 Estetica Series without door

ARTICLE	12 004	12 008	12 012	12 013	12 014	12 016
NUMBER OF MODULES	4	8 12	18 24	36		
COLOUR	RAL 9001 white					
WITHOUT DOOR	YES	YES	YES	YES	YES	YES
WITH TRANSPARENT DOOR	-	-	-	-	-	-
WITH OPAQUE DOOR	-	-	-	-	-	-
DOUBLE INSULATION	YES	YES	YES	YES	YES	YES
RESISTANCE TO HEAT	white GWT 960°C					
TYPE OF MATERIAL	Thermoplastic	Thermoplastic	Thermoplastic	Thermoplastic	Thermoplastic	Thermoplastic
MECHANICAL RESISTANCE	6 JOULE					
DIMENSIONAL STABILITY	-20° + 85°C					
DEGREE OF PROTECTION	IP 40					
MAX DISSIPATION POWER ⁽¹⁾	25 W	37 W	40 W	55 W	72 W	96 W
EXTRACTABLE FRAME	-	YES	YES	YES	YES	YES
DESIGNED FOR RAPID CABLING	-	UNIFIX SL				

(1): data concerning dissipation power have been obtained by following the instructions in CEI 23-49 Standard, with a temperature difference of Dt= 30°C

Flush-mounting consumer units IP 40 Estetica Series with door and Europa Series consumer units

ARTICLE	12 024 – 12 037	12 028 – 12 038	12 032 – 12 042	12 033 – 12 043	12 034 – 12 044	12 036 – 12 046	12 052 – 12 035
		12 040 – 12 026	12 041 – 12 027		12 045 – 12 030	12 048 – 12 031	12 067 – 12 068
		12 057 – 12 058	12 061 – 12 062		12 063 – 12 064	12 065 – 12 066	
NUMBER OF MODULES	4	8	12	18	24	36	54
COLOUR	RAL 9001 white RAL 7024 grey RAL 7035 grey						
WITHOUT DOOR	-	-	-	-	-	-	-
WITH TRANSPARENT DOOR	YES						
WITH OPAQUE DOOR	-	YES	YES	-	YES	YES	YES
DOUBLE INSULATION	YES						
RESISTANCE TO HEAT	white GWT 960°C grey GWT 650°C						
TYPE OF MATERIAL	Thermoplastic						
MECHANICAL RESISTANCE	6 JOULE						
DIMENSIONAL STABILITY	-20° + 85°C						
DEGREE OF PROTECTION	IP 40						
MAX DISSIPATION POWER ⁽¹⁾	19 W	25 W	29 W	40 W	45 W	68 W	85 W
EXTRACTABLE FRAME	-	YES	YES	YES	YES	YES	YES
DESIGNED FOR RAPID CABLING	-	UNIFIX SL					

(1): data concerning dissipation power have been obtained by following the instructions of CEI 23-49 Standard, with a temperature difference of Dt= 30°C

Reaction to chemical agents*

Cold water	■
Hot water	▲
Sulphuric acid 40%	■
Hydrochloric acid 35%	■
Acetic acid 10%	■
Benzole	●
Oil	■
Acetone	●
Ethyl-alcohol	▲
Ammonia, liquid	■
Dichloromethane	■
Diesel oil	■
Mineral oils and fats	■
Food oils and fats	■
Perchloroethylene	■
Trichloroethylene	■
Ethylether	■
Ozone	■
Toluene	■
Methanol	●
Spirits	▲
Milk	■
Fruit juice	■
Fluorine hydrocarbons	■
Lye-washes	■
Cleansings	■
Water solution	■

* Indications concerning the resistance of the products to chemical agents must be considered as an indication only, and refer to standard conditions (40°C, integral product).

■ resistant ▲ partially resistant ● not resistant

Further technical information and applications

Consumer units for modular circuit breakers – summarised technical data

Flush-mounting consumer units IP 40 Unibox Series without door

ARTICLE	12 208 – 12 228	12 212 – 12 232	12 214 – 12 234	12 216 – 12 236	12 217 – 12 237
NUMBER OF MODULES ⁽¹⁾	8 + 1	12 + 1 24 + 2	36 + 3 54 + 3		
COLOUR	RAL 9016 white RAL 7035 grey				
WITHOUT DOOR	YES	YES	YES	YES	YES
WITH TRANSPARENT DOOR	-	-	-	-	-
WITH OPAQUE DOOR	-	-	-	-	-
DOUBLE INSULATION	YES	YES	YES	YES	YES
RESISTANCE TO HEAT	white GWT 750°C grey GWT 750°C				
TYPE OF MATERIAL	Thermoplastic	Thermoplastic	Thermoplastic	Thermoplastic	Thermoplastic
MECHANICAL RESISTANCE	10 JOULE (IK 09)				
DIMENSIONAL STABILITY	-20° + 85°C				
DEGREE OF PROTECTION	IP 40				
MAX DISSIPATION POWER ⁽²⁾	22 W	34 W	58 W	70 W	83 W
CABLE HOLDING SYSTEM	YES	YES	YES	YES	YES
DESIGNED FOR INPUT	CONDUITS ø25+32 mm TRUNKINGS up to 200X60 mm				
EXTRACTABLE FRAME	-	-	YES	YES	YES
DESIGNED FOR RAPID CABLING	UNIFIX SL				

(1): extra module see characteristics on page 2/17

(2): data concerning dissipation power have been obtained by following the instructions in CEI 23-49 Standard, with a temperature difference of Dt= 30°C

Flush-mounting consumer units IP 40 Unibox Series with door

ARTICLE	12 238 – 12 248 12 258 – 12 268	12 242 – 12 252 12 262 – 12 272	12 244 – 12 254 12 264 – 12 274	12 246 – 12 256 12 266 – 12 276	12 247 – 12 257 12 267 – 12 277
NUMBER OF MODULES	8 + 1	12 + 1	24 + 2	36 + 3	54 + 3
COLOUR	RAL 9016 white RAL 7035 grey				
WITHOUT DOOR	-	-	-	-	-
WITH TRANSPARENT DOOR	YES	YES	YES	YES	YES
WITH OPAQUE DOOR	YES	YES	YES	YES	YES
DOUBLE INSULATION	YES	YES	YES	YES	YES
RESISTANCE TO HEAT	white GWT 750°C grey GWT 750°C				
TYPE OF MATERIAL	Thermoplastic	Thermoplastic	Thermoplastic	Thermoplastic	Thermoplastic
MECHANICAL RESISTANCE	10 JOULE (IK 09)				
DIMENSIONAL STABILITY	-20° + 85°C				
DEGREE OF PROTECTION	IP 40				
MAX DISSIPATION POWER ⁽¹⁾	20 W	30 W	40 W	45 W	54 W
CABLE HOLDING SYSTEM	YES	YES	YES	YES	YES
DESIGNED FOR INPUT	CONDUITS ø25+32 mm TRUNKINGS up to 200X60 mm				
Ø 25+32 m					
EXTRACTABLE FRAME	-	-	YES	YES	YES
DESIGNED FOR RAPID CABLING	UNIFIX SL				

(1): data concerning dissipative power have been obtained by following the instructions in CEI 23-49 Standard, with a temperature difference of Dt= 30°C

Further technical information and applications

Consumer units for modular circuit breakers – summarised technical data

Covers and wall-mounting consumer units IP 40 Europa Series without door

ARTICLE	12 402 12 422	12 404 12 424	12 406 12 426	12 408 12 428	12 412 12 432	12 414 12 434	12 416 12 436	12 417 12 437
NUMBER OF MODULES	2	4	6	8	12	24	36	54
COLOUR	RAL 9001 white RAL 7035 grey							
WITHOUT DOOR	YES							
WITH TRANSPARENT DOOR	-	-	-	-	-	-	-	-
WITH OPAQUE DOOR	-	-	-	-	-	-	-	-
DOUBLE INSULATION	YES							
RESISTANCE TO HEAT	white GWT 960°C grey GWT 650°C							
TYPE OF MATERIAL	Thermoplastic							
MECHANICAL RESISTANCE	6 JOULE							
DIMENSIONAL STABILITY	-20° + 85°C							
DEGREE OF PROTECTION	IP 40							
MAX DISSIPATION POWER ⁽¹⁾	10 W	14 W	16 W	22 W	28 W	50 W	72 W	96 W
DESIGNED FOR INPUT	-	-	-	CONDUITS Ø25+32 mm	CONDUITS Ø25+32 mm	CONDUITS Ø25+32 mm	CONDUITS Ø25+32 mm	Direct branch connection
				TRUNKINGS up to 200X60 mm	Conduits Ø5+35 mm			
DESIGNED FOR MOULDED-CASE CIRCUIT BREAKERS	-	-	-	-	-	-	YES	YES
DESIGNED FOR RAPID CABLING	-	-	-	UNIFIX SL	UNIFIX SL	UNIFIX SL	UNIFIX SL	UNIFIX L

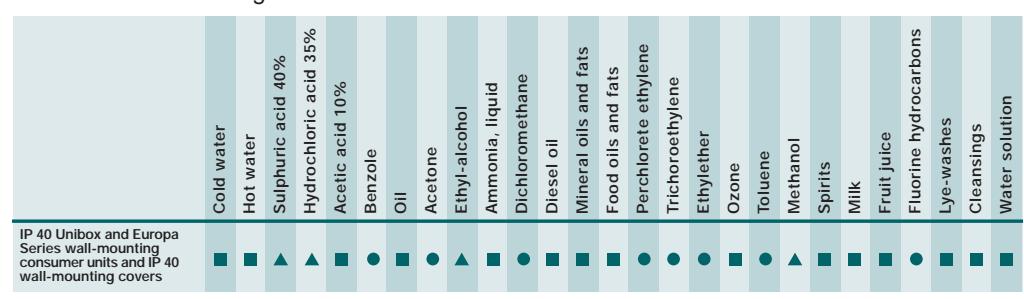
(1): data concerning dissipation power have been obtained by following the instructions in CEI 23-49 Standard, with a temperature difference of Dt= 30°C

Wall-mounted consumer units IP 40 Europa Series with door

ARTICLE	12 438 - 12 448 12 458 - 12 468	12 442 - 12 452 12 462 - 12 472	12 444 - 12 454 12 464 - 12 474	12 446 - 12 456 12 466 - 12 476	12 447 - 12 457 12 467 - 12 477
NUMBER OF MODULES	8	12	24	36	54
COLOUR	RAL 9001 white RAL 7035 grey				
WITHOUT DOOR	-	-	-	-	-
WITH TRANSPARENT DOOR	YES	YES	YES	YES	YES
WITH OPAQUE DOOR	YES	YES	YES	YES	YES
DOUBLE INSULATION	YES	YES	YES	YES	YES
RESISTANCE TO HEAT	white GWT 960°C grey GWT 650°C				
TYPE OF MATERIAL	Thermoplastic	Thermoplastic	Thermoplastic	Thermoplastic	Thermoplastic
MECHANICAL RESISTANCE	6 JOULE				
DIMENSIONAL STABILITY	-20° + 85°C				
DEGREE OF PROTECTION	IP 40				
MAX DISSIPATION POWER ⁽¹⁾	19 W	27 W	31 W	45 W	56 W
DESIGNED FOR INPUT	CONDUITS Ø25+32 mm	CONDUITS Ø25+32 mm	CONDUITS Ø25+32 mm	CONDUITS Ø25+32 mm	Direct branch connection
	TRUNKINGS up to 200X60 mm	Conduits Ø5+35 mm			
DESIGNED FOR MOULDED-CASE CIRCUIT BREAKERS	-	-	-	YES	YES
DESIGNED FOR RAPID CABLING	UNIFIX SL	UNIFIX SL	UNIFIX SL	UNIFIX SL	UNIFIX L

(1): data concerning dissipation power have been obtained by following the instructions of CEI 23-49 Standard, with a temperature difference of Dt= 30°C

Reaction to chemical agents*



* Indications concerning the resistance of the products to chemical agents must be considered as an indication only and refer to standard conditions (40°C, integral product).

Further technical information and applications

Consumer units for modular circuit breakers – summarised technical data

Polycarbonate wall-mounting consumer units IP 40 Europa Series

ARTICLE	12 702	12 704	12 708	12 712	12 714	12 716	12 718
NUMBER OF MODULES	2	4	8	12	24	36	54
COLOUR	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey
WITHOUT DOOR	YES	YES	YES	YES	YES	YES	YES
WITH TRANSPARENT DOOR	-	-	-	-	-	-	-
WITH OPAQUE DOOR	-	-	-	-	-	-	-
DOUBLE INSULATION	YES	YES	YES	YES	YES	YES	YES
RESISTANCE TO HEAT	grey GWT 960°C	grey GWT 960°C	grey GWT 960°C	grey GWT 960°C	grey GWT 960°C	grey GWT 960°C	grey GWT 960°C
TYPE OF MATERIAL	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate
MECHANICAL RESISTANCE	20 JOULE (IK 10)	20 JOULE (IK 10)	20 JOULE (IK 10)	20 JOULE (IK 10)	20 JOULE (IK 10)	20 JOULE (IK 10)	20 JOULE (IK 10)
DIMENSIONAL STABILITY	-25° + 115°C	-25° + 115°C	-25° + 115°C	-25° + 115°C	-25° + 115°C	-25° + 115°C	-25° + 115°C
DEGREE OF PROTECTION	IP 40	IP 40	IP 40	IP 40	IP 40	IP 40	IP 40
MAX DISSIPATION POWER ⁽¹⁾	15 W	17 W	25 W	40 W	55 W	75 W	96 W
FLANGE FOR DIRECT BRANCH	-	-	COND. AND TRUNK. Ø5+35 mm				
EXTRACTABLE FRAME	-	YES	YES	YES	YES	YES	YES
DESIGNED FOR MOULDED-CASE CIRCUIT BREAKERS	-	YES	YES	YES	YES	YES	YES
DESIGNED FOR RAPID CABLING	-	-	UNIFIX L				

(1): data concerning dissipation power have been obtained by following the instructions in CEI 23-49 Standard, with a temperature difference of Dt= 30°C

IP 65 Marostica Series switchboards for industrial applications with blank front

ARTICLE	13 200	13 204	13 205	13 206	13 208
NUMBER OF MODULES	4	12	12	12	18
DIMENSIONS (mm)	136x540x140	275x370x140	275x455x140	275x570x140	380x570x140
COLOUR	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey
WITHOUT DOOR	-	-	-	-	-
WITH TRANSPARENT DOOR	YES	YES	YES	YES	YES
WITH OPAQUE DOOR	-	-	-	-	-
DOUBLE INSULATION	YES	YES	YES	YES	YES
RESISTANCE TO HEAT	GWT 960°C	GWT 960°C	GWT 960°C	GWT 960°C	GWT 960°C
TYPE OF MATERIAL	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate
MECHANICAL RESISTANCE	20 JOULE (IK 10)	20 JOULE (IK 10)	20 JOULE (IK 10)	20 JOULE (IK 10)	20 JOULE (IK 10)
DIMENSIONAL STABILITY	-25° + 115°C	-25° + 115°C	-25° + 115°C	-25° + 115°C	-25° + 115°C
DEGREE OF PROTECTION	IP 65	IP 65	IP 65	IP 65	IP 65
MAX DISSIPATION POWER ⁽¹⁾	13 W	24 W	23 W	27 W	37 W
FLANGE FOR DIRECT BRANCH	-	COND. AND TRUNK. Ø5+35 mm			

(1): data concerning dissipation power have been obtained by following the instructions in CEI 23-49 Standard, with a temperature difference of Dt= 30°C

Reaction to chemical agents*

IP 40 Polycarbonate Europa Series wall-mounting consumer units	Cold water	Hot water	Sulphuric acid 40%	Hydrochloric acid 35%	Acetic acid 10%	Benzole	Oil	Acetone	Ethyl-alcohol	Ammonia, liquid	Dichloromethane	Diesel oil	Mineral oils and fats	Food oils and fats	Perclorethylene	Trichoroethylene	Ozone	Toluene	Methanol	Spirits	Milk	Fruit juice	Fluorine hydrocarbons	Lye-washes	Cleansings	Water solution
	■	▲	■	▲	■	●	■	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	

■ resistant ▲ partially resistant ● not resistant

* Indications concerning the resistance of the products to chemical agents must be considered as an indication only and refer to standard conditions (40°C, integral product).

Further technical information and applications

Consumer units for modular circuit breakers – summarised technical data

Wall-mounting consumer units IP 55 Europa Series

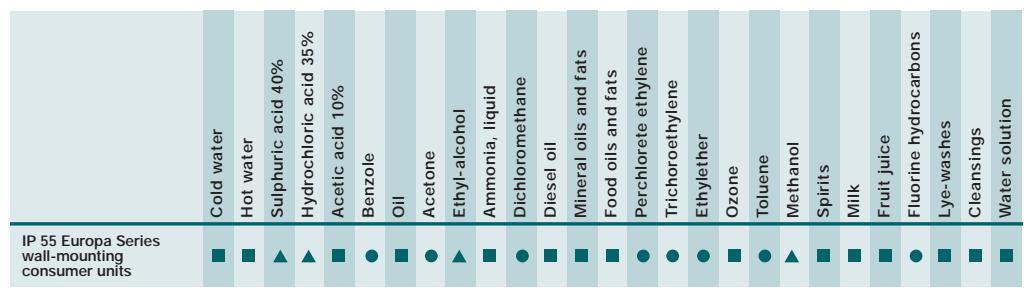
ARTICLE	12 644 – 12 684	12 646 – 12 686	12 650 – 12 690	12 652 – 12 692
NUMBER OF MODULES	4	6	10	20
COLOUR	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey
WITHOUT DOOR	-	-	-	-
WITH TRANSPARENT DOOR	YES	YES	YES	YES
WITH OPAQUE DOOR	-	-	-	-
DOUBLE INSULATION	YES	YES	YES	YES
RESISTANCE TO HEAT	grey GWT 650°C	grey GWT 650°C	grey GWT 650°C	grey GWT 650°C
TYPE OF MATERIAL	Thermoplastic	Thermoplastic	Thermoplastic	Thermoplastic
MECHANICAL RESISTANCE	6 JOULE	6 JOULE	6 JOULE	6 JOULE
DIMENSIONAL STABILITY	-20° + +85°C	-20° + +85°C	-20° + +85°C	-20° + +85°C
DEGREE OF PROTECTION	IP 55	IP 55	IP 55	IP 55
MAX DISSIPATION POWER ⁽¹⁾	13 W	17 W	20 W	35 W
DESIGNED FOR INLETS	ø16 + 40 mm			

(1): data concerning dissipation power have been obtained by following the instructions of CEI 23-49 Standard, with a temperature difference of Dt= 30°C

IP 65 Europa Series switchboards for industrial applications

ARTICLE	12 764-12 784	12 768-12 788	12 772-12 792	12 774-12 794	12 776-12796	12 778-12 796
DIMENSIONS (mm)	140x220x140	205x220x140	275x220x140	275x370x140	275x570x140	380x570x140
COLOUR	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey
WITHOUT DOOR	-	-	-	-	-	-
WITH TRANSPARENT DOOR	YES	YES	YES	YES	YES	YES
WITH OPAQUE DOOR	YES	YES	YES	YES	YES	YES
DOUBLE INSULATION	YES	YES	YES	YES	YES	YES
RESISTANCE TO HEAT	GWT 960°C	GWT 960°C	GWT 960°C	GWT 960°C	GWT 960°C	GWT 960°C
TYPE OF MATERIAL	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate
MECHANICAL RESISTANCE	20 JOULE (IK 10)	20 JOULE (IK 10)	20 JOULE (IK 10)	20 JOULE (IK 10)	20 JOULE (IK 10)	20 JOULE (IK 10)
DIMENSIONAL STABILITY	-25° + +115°C	-25° + +115°C	-25° + +115°C	-25° + +115°C	-25° + +115°C	-25° + +115°C
DEGREE OF PROTECTION	IP 65	IP 65	IP 65	IP 65	IP 65	IP 65
FLANGE FOR DIRECT BRANCH	-	COND. AND TRUNK. ø5+35 mm				
FIT FOR INSTALLING MCBs	-	-	-	YES	YES	YES
MOUNTING KITS	-	-	-	YES	YES	YES
FIT FOR INSTALLING BASE PLATES	YES	YES	YES	YES	YES	YES
FIT FOR INSTALLING FIXED COUNTER-DOORS	-	-	-	YES	YES	YES

Reaction to chemical agents*



* Indications concerning the resistance of the products to chemical agents must be considered as an indication only, and refer to standard conditions (40°C, integral product).

Further technical information and applications

Consumer units for modular circuit breakers – summarised technical data

Polycarbonate wall-mounting consumer units IP 65 Fly Series

ARTICLE	12 722 – 12 742	12 743	12 745	12 746	12 747
NUMBER OF MODULES	2/4	8	12	24	36
COLOUR	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey
WITHOUT DOOR	-	-	-	-	-
WITH TRANSPARENT DOOR	YES	YES	YES	YES	YES
WITH OPAQUE DOOR	YES	-	-	-	-
DOUBLE INSULATION	YES	YES	YES	YES	YES
RESISTANCE TO HEAT	grey GWT 960°C	grey GWT 960°C	grey GWT 960°C	grey GWT 960°C	grey GWT 960°C
TYPE OF MATERIAL	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate
MECHANICAL RESISTANCE	20 JOULE (IK 10)	20 JOULE (IK 10)	20 JOULE (IK 10)	20 JOULE (IK 10)	20 JOULE (IK 10)
DIMENSIONAL STABILITY	-25° + +115°C	-25° + +115°C	-25° + +115°C	-25° + +115°C	-25° + +115°C
DEGREE OF PROTECTION	IP 65	IP 65	IP 65	IP 65	IP 65
MAX DISSIPATION POWER ⁽¹⁾	11 W	15 W	19 W	31 W	45 W
FLANGE FOR DIRECT BRANCH	-	CONDUITS AND TRUNKINGS Ø5+35 mm			
EXTRACTABLE FRAME	-	YES	YES	YES	YES
DESIGNED FOR MOULDED-CASE CIRCUIT BREAKERS	-	YES	YES	YES	YES
DESIGNED FOR RAPID CABLING	-	UNIFIX L	UNIFIX L	UNIFIX L	UNIFIX L

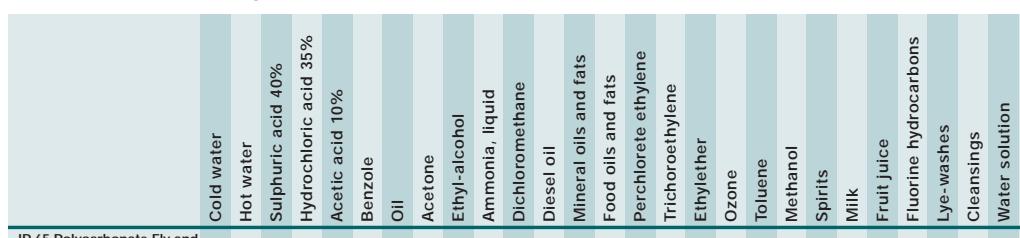
(1): data concerning dissipation power have been obtained by following the instructions of CEI 23-49 Standard, with a temperature difference of Dt= 30°C

Polycarbonate wall-mounted consumer units IP 40 Europa Series

ARTICLE	12 724 – 12 744	12 728 – 12 748	12 732 – 12 752	12 733 – 12 753	12 734 – 12 754	12 735 – 12 755	12 738 – 12 758 12 736 – 12 756
NUMBER OF MODULES	4	8	12	18	24	36	54
COLOUR	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey
WITHOUT DOOR	-	-	-	-	-	-	-
WITH TRANSPARENT DOOR	YES	YES	YES	YES	YES	YES	YES
WITH OPAQUE DOOR	YES	YES	YES	YES	YES	YES	YES
DOUBLE INSULATION	YES	YES	YES	YES	YES	YES	YES
RESISTANCE TO HEAT	grey GWT 960°C	grey GWT 960°C	grey GWT 960°C	grey GWT 960°C	grey GWT 960°C	grey GWT 960°C	grey GWT 960°C
TYPE OF MATERIAL	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate
MECHANICAL RESISTANCE	20 JOULE (IK 10)	20 JOULE (IK 10)	20 JOULE (IK 10)	20 JOULE (IK 10)	20 JOULE (IK 10)	20 JOULE (IK 10)	20 JOULE (IK 10)
DIMENSIONAL STABILITY	-25° + +115°C	-25° + +115°C	-25° + +115°C	-25° + +115°C	-25° + +115°C	-25° + +115°C	-25° + +115°C
DEGREE OF PROTECTION	IP 65	IP 65	IP 65	IP 65	IP 65	IP 65	IP 65
MAX DISSIPATION POWER ⁽¹⁾	15 W	20 W	30 W	32 W	34 W	45 W	56 W
FLANGE FOR DIRECT BRANCH CONNECTIONS	-	COND. AND TRUNK.	Ø5+35 mm				
EXTRACTABLE FRAME	YES	YES	YES	YES	YES	YES	YES
DESIGNED FOR MOULDED-CASE CIRCUIT BREAKERS	YES	YES	YES	YES	YES	YES	YES
DESIGNED FOR RAPID CABLING	-	UNIFIX L	UNIFIX L	UNIFIX L	UNIFIX L	UNIFIX L	UNIFIX L

(1): data concerning dissipation power have been obtained by following the instructions of CEI 23-49 Standard, with a temperature difference of Dt= 30°C

Reaction to chemical agents*



* Indications concerning the resistance of the products to chemical agents must be considered as an indication only and refer to standard conditions (40°C, integral product).

Further technical information and applications

Switchboards and boxes – reaction to chemical agents

Reaction to chemical agents*

	Cold water	Hot water	Sulphuric acid 40%	Hydrochloric acid 35%	Acetic acid 10%	Benzole	Oil	Acetone	Ethyl-alcohol	Ammonia, liquid	Dichloromethane	Diesel oil	Mineral oils and fats	Food oils and fats	Perchlorete ethylene	Trichoroethylene	Ethylether	Ozone	Toluene	Methanol	Spirits	Milk	Fruit juice	Fluorine hydrocarbons	Lye-washes	Cleansings	Water solution
IP 65 Europa Series and blank front switchboards	■	▲	■	▲	■	●	■	●	■	●	●	▲	■	■	●	●	●	■	●	■	■	■	●	▲	▲	■	
IP 65 Marostica Series switchboards	■	▲	■	▲	■	●	■	●	■	●	●	▲	■	■	●	●	●	■	●	■	■	■	●	▲	▲	■	
IP 44 junction boxes with press-on lid	■	■	▲	▲	■	▲	▲	■	■	■	▲	■	■	■	■	●	●	▲	●	■	■	■	■	▲	■	■	
IP 55 junction boxes with screw-on lid	■	▲	■	■	■	●	■	●	■	■	●	■	■	■	■	●	●	●	●	■	■	■	●	■	■	■	
IP 65 Polycarbonate junction boxes	■	▲	■	▲	■	●	■	●	■	●	●	▲	■	■	●	●	●	■	●	■	■	■	●	▲	▲	■	
Wiring accessories boxes	■	■	▲	▲	■	●	●	●	■	■	●	▲	▲	■	●	●	●	■	●	■	■	■	●	■	■	■	

■ resistant ▲ partially resistant ● not resistant

* Indications concerning the resistance of the products to chemical agents must be considered as an indication only and refer to standard conditions (40°C, integral product).

VLC00959

Further technical information and applications

Possible configurations of terminal holders – terminal bars for consumer units

Terminal holders and bars are supplied separately; in this way, by inserting one or two terminal bars in the terminal holders, you can create the best terminal for your requirements. All the possible configurations for creating each type of consumer unit

are given in the table below. Not only do you have the advantage of being able to create a personalised terminal but clearly there will be an economic advantage from using only that which is really necessary.

IP 40 Estetica Series flush-mounting consumer units

IP 40 Europa Series flush-mounting consumer units

IP 40 Unibox Series wall-mounting consumer units

For consumer units Number of modules	Terminal holder Article	Terminal bars Article x q.ty
8	12 540	12 531x1
	12 540	12 531x2
	12 540	12 531x1 with 12 532x1
	12 540	12 532x1
	12 540	12 533x1
	12 540	12 534x1
	12 541	12 531x1
	12 541	12 531x2
12	12 541	12 531x1 with 12 532x1
	12 541	12 531x1 with 12 533x1
	12 541	12 531x1 with 12 534x1
	12 541	12 531x1 with 12 535x1
24	12 541	12 532x1
	12 541	12 532x2
	12 541	12 533x1
	12 541	12 534x1
36 (12 mod.x3 rows)	12 541	12 535x1
	12 542	12 531x1
	12 542	12 531x2
	12 542	12 531x1 with 12 532x1
18	12 542	12 531x1 with 12 533x1
	12 542	12 531x1 with 12 534x1
	12 542	12 531x1 with 12 535x1
	12 542	12 532x1
54	12 542	12 532x2
	12 542	12 532x1 with 12 533x1
	12 542	12 532x1 with 12 534x1
	12 542	12 533x1
	12 542	12 534x1
	12 542	12 535x1
	12 543	12 531x1
	12 543	12 531x2
	12 543	12 531x1 with 12 532x1
	12 543	12 531x1 with 12 533x1

IP 40 Europa Series wall-mounting consumer units

For consumer units Number of modules	Terminal holder Article	Terminal bars Article x q.ty
8	12 540	12 531x1
	12 540	12 531x2
	12 540	12 531x1 with 12 532x1
	12 540	12 532x1
	12 540	12 533x1
	12 540	12 534x1
	12 541	12 531x1
	12 541	12 531x2
12	12 541	12 531x1 with 12 532x1
	12 541	12 531x1 with 12 533x1
	12 541	12 531x1 with 12 534x1
	12 541	12 531x1con 12 535x1
24	12 541	12 532x1
	12 541	12 532x2
	12 541	12 533x1
	12 541	12 534x1
36 (12 mod.x3 rows)	12 541	12 535x1
	12 543	12 531x1
	12 543	12 531x2
	12 543	12 531x1 with 12 532x1
54	12 543	12 531x1 with 12 533x1
	12 543	12 531x1 with 12 534x1
	12 543	12 531x1 with 12 535x1
	12 543	12 532x1
	12 543	12 532x2
	12 543	12 532x1 with 12 533x1
	12 543	12 532x1 with 12 534x1
	12 543	12 532x1 with 12 535x1
	12 543	12 533x1
	12 543	12 533x2

Further technical information and applications

Possible configurations of terminal holders – terminal bars for consumer units

IP 40 Polycarbonate Europa Series wall-mounting consumer units

IP 65 Polycarbonate Europa Series wall-mounting consumer units

IP 65 Polycarbonate Fly Series wall-mounting consumer units

Europa Series consumer units for industrial applications

For consumer units Number of modules	Terminal holder Article	Terminal bars Article x q.ty
4	12538	12531x1
8	12539	12531x1
12	12540	12531x1
24	12540	12531x2
36 (12 mod.x3 rows)	12540	12531x1 with 12532x1
	12540	12532x1
	12540	12533x1
	12540	12534x1
	12543	12531x1
	12543	12531x2
	12543	12531x1 with 12532x1
	12543	12531x1 with 12533x1
	12543	12531x1 with 12534x1
12	12543	12531xx1 with 12535x1
	12543	12532x1
	12543	12532x2
36 (18 mod.x2 rows)	12543	12532x1 with 12533x1
	12543	12532x1 with 12534x1
54	12543	12532x1 with 12535x1
	12543	12533x1
	12543	12533x2
	12543	12533x1 with 12534x1
	12543	12534x1
	12543	12534x2
	12543	12535x1

For boxes Dimensions	Terminal holder Article	Terminal bars Article x q.ty
140x220x140	12 538	12 531x1
205x220x140	12 539	12 531x1
275x220x140	12 540	12 531x1
275x370x140	12 540	12 531x1 with 12 532x1
275x570x140	12 540	12 532x1
380x570x140	12 540	12 533x1
	12 540	12 534x1
	12 540	12 534x2
	12 543	12 531x1 with 12 532x1
	12 543	12 531x1 with 12 533x1
	12 543	12 531x1 with 12 534x1
	12 543	12 531x1 with 12 535x1
	12 543	12 532x1
	12 543	12 532x2
	12 543	12 532x1 with 12 533x1
	12 543	12 532x1 with 12 534x1
	12 543	12 533x1
	12 543	12 533x2
	12 543	12 533x1 with 12 534x1
	12 543	12 534x1
	12 543	12 534x2
	12 543	12 535x1

IP 65 Polycarbonate junction boxes

For boxes Dimensions	Terminal holder Article	Terminal bars Article x q.ty
140x220x140	12 538	12 531x1
205x220x140	12 539	12 531x1
275x220x140	12 540	12 531x1
275x370x140	12 540	12 531x1 with 12 532x1
275x570x140	12 540	12 532x1
380x570x140	12 540	12 533x1
	12 543	12 531x1
	12 543	12 531x2
	12 543	12 531x1 with 12 532x1
	12 543	12 531x1 with 12 533x1
	12 543	12 531x1 with 12 534x1
	12 543	12 531x1 with 12 535x1
	12 543	12 532x1
	12 543	12 532x2
	12 543	12 532x1 with 12 533x1
	12 543	12 532x1 with 12 534x1
	12 543	12 532x1 with 12 535x1
	12 543	12 533x1
	12 543	12 533x2
	12 543	12 533x1 with 12 534x1
	12 543	12 534x1
	12 543	12 534x2
	12 543	12 535x1

Further technical information and applications

Possible configurations of terminal-holders – terminal bars for consumer units

Switchboards with blank front for industrial applications

Marostica Series modular switchboards

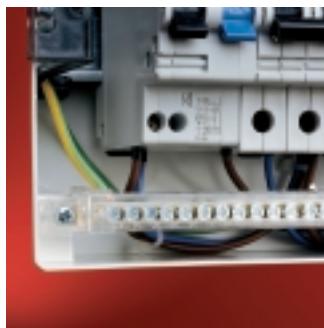
For boxes Dimensions	Terminal holder Article	Terminal bars Article x q.ty
	12 540	12 531x1
275x370x140	12 540	12 531x2
275x455x140	12 540	12 531x1 with 12 532x1
275x570x140	12 540	12 532x1
	12 540	12 533x1
	12 540	12 534x1
	12 543	12 531x1
	12 543	12 531x2
	12 543	12 531x1 with 12 532x1
	12 543	12 531x1 with 12 533x1
	12 543	12 531x1 with 12 534x1
	12 543	12 531x1 with 12 535x1
	12 543	12 532x1
	12 543	12 532x2
380x570x140	12 543	12 532x1 with 12 533x1
	12 543	12 532x1 with 12 534x1
	12 543	12 532x1 with 12 535x1
	12 543	12 533x1
	12 543	12 533x2
	12 543	12 533x1 with 12 534x1
	12 543	12 534x1
	12 543	12 534x2
	12 543	12 535x1

For boxes Dimensions	Terminal holder Article	Terminal bars Article x q.ty
	12 540	12 531x1
275x370x140	12 540	12 531x2
275x455x140	12 540	12 531x1 with 12 532x1
275x570x140	12 540	12 532x1
	12 540	12 533x1
	12 540	12 534x1
	12 543	12 531x1
	12 543	12 531x2
	12 543	12 531x1 with 12 532x1
	12 543	12 531x1 with 12 533x1
	12 543	12 531x1 with 12 534x1
	12 543	12 531x1 with 12 535x1
	12 543	12 532x1
	12 543	12 532x2
380x570x140	12 543	12 532x1 with 12 533x1
	12 543	12 532x1 with 12 534x1
	12 543	12 532x1 with 12 535x1
	12 543	12 533x1
	12 543	12 533x2
	12 543	12 533x1 with 12 534x1
	12 543	12 534x1
	12 543	12 534x2
	12 543	12 535x1

Further technical information and applications

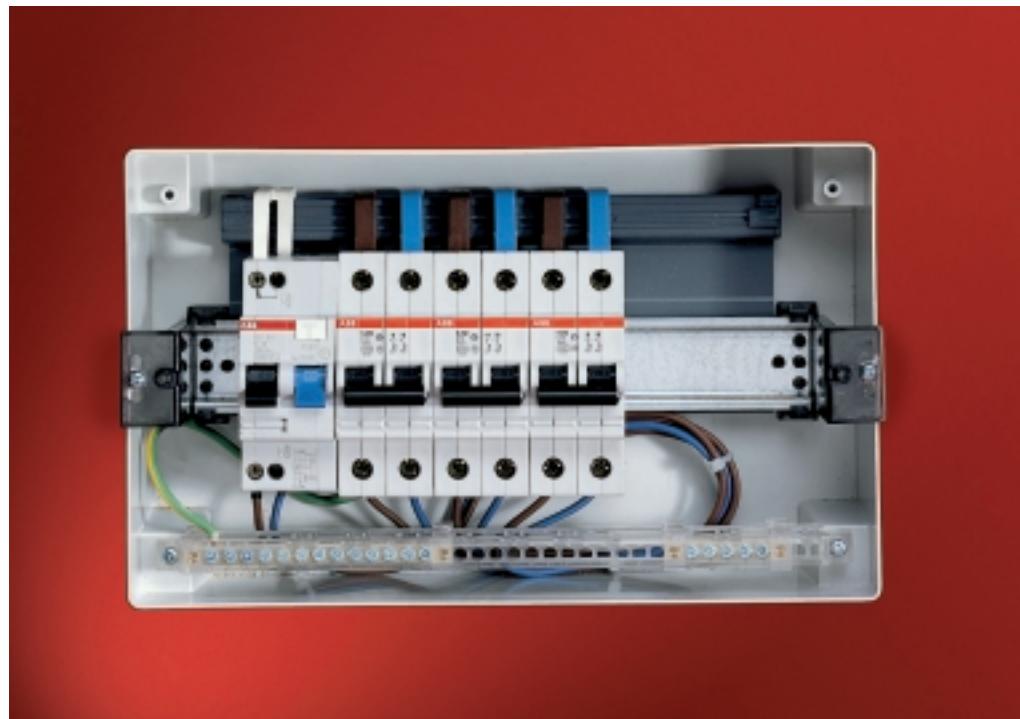
Mounting examples and functional details

Flush-mounting Europa and Estetica Series



FLCO9866

▲ By combining the copper terminal bars to the corresponding plastic terminal holders, according to the configuration, the consumer unit terminal can be fitted with Neutral (N) or Earth (E).



FLCO9870

The fact that the unit has been ▶ designed to use the rapid Unifix SL cabling system means that there is a considerable saving in terms of time and installation costs.



FLCO9867

▲ An extractable frame is available also in the single row version, making bench cabling operations easier.



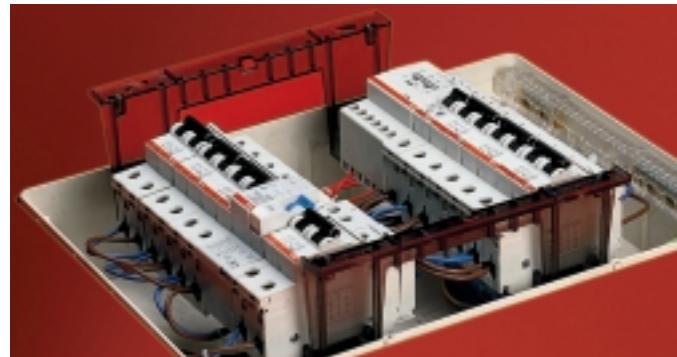
FLCO9871

▲ The handy slots made to attach the unit to the frame guarantee correct alignment even when the flush-mounting box has not been installed on perfectly flat surfaces.

Further technical information and applications

Mounting examples and functional details

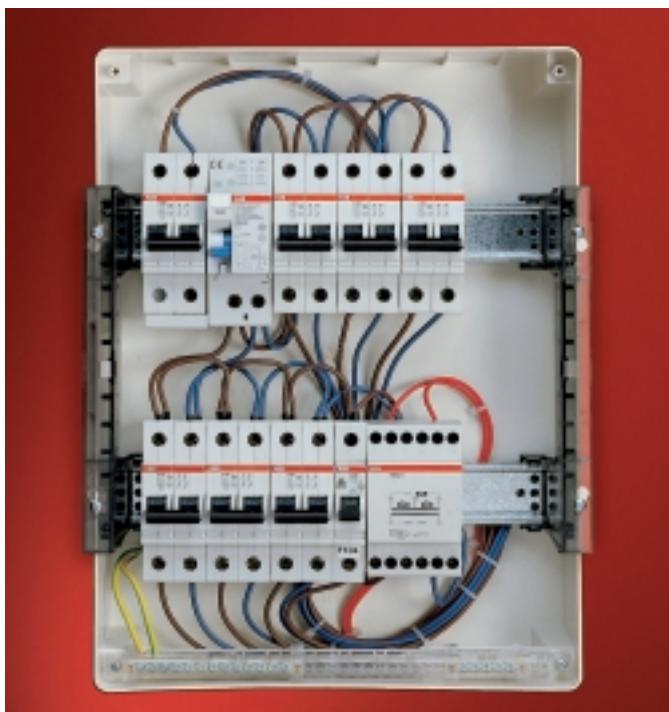
Flush-mounting Europa Series



▲ The extractable DIN rail frame makes bench cabling easy.



◀ The door has been designed to take a pin lock, satisfying any requirement to protect access to the consumer unit.



▲ The two housings on the sides of the front ensure that the door is completely reversible and therefore it can be mounted on the right or on the left according to specific requirements.

◀ The roomy interiors make cabling easy and simple.

Further technical information and applications

Mounting examples and functional details

Unibox Series



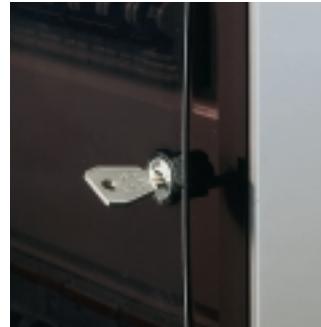
▲ The knockout cut halfway down the module on both sides makes it possible to fit an extra module corresponding to each row of circuit breakers.



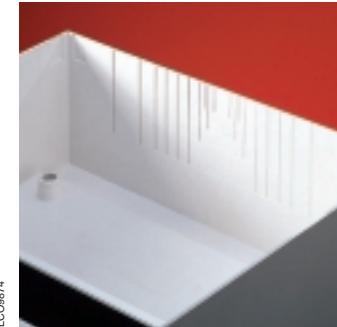
The cover is fitted using rapid pitch screws in insulating thermo-plastic that can be lead-sealed if necessary.



▲ The push-pull mechanism means that the door can be closed easily.



▲ The door can be fitted with a lock with a coded key.



▲ The knockouts in the cover give maximum flexibility in trunking branch connections.
▼



▲ The accurate alignment system engraved on the top and bottom of the base of the consumer unit makes it easy to position the branch connection trunking.



▲ The consumer unit is designed with a flange so that it can be used for branch connection using a conduit; the knockouts make it is possible to make branch connections with conduits with a maximum diameter of 40 mm.



Further technical information and applications

Mounting examples and functional details

Unibox Series



FLC09839

▲ Thanks to plenty of room under the DIN rail it is possible to install the cables tidily and rationalise their paths.

FLC09919



FLC09872



FLC09873

▲ Consumer units in the Unibox Series have been designed to optimise the use of the Unifix SL rapid cabling system.
Another characteristic is the frame, which can be kept in an angled position thanks to practical wires, making it easier to work on the connection cables .

▲ The modular, snap-on frame is easy to extract and is therefore ideal for bench cabling.



FLC09875



FLC09880

▲ The special caps used to cover the holes for attaching to the wall ensure that the consumer unit is double insulated.

▲ The base, on which push-in inlets have been made, is specially designed for the installation of corrugated conduits coming from the wall.

▲ The practical holding system secures the incoming and outgoing cables to a special comb accessory which not only keeps the cables tidy but also protects the devices' terminals from any direct mechanical contact.

Further technical information and applications

Mounting examples and functional details

Polycarbonate Fly and Europa Series



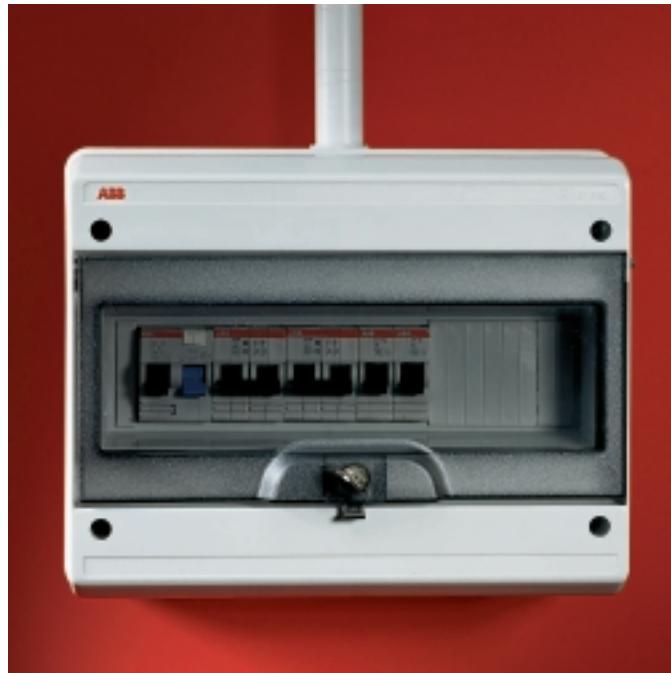
FLCO9823



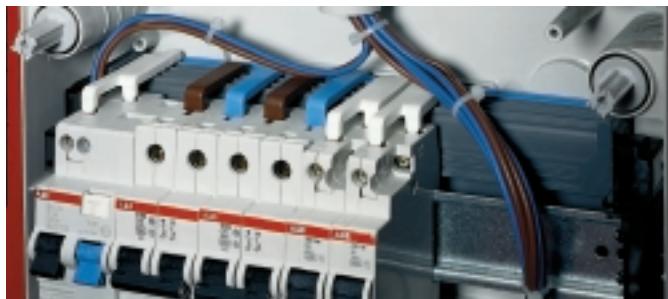
FLCO9824

▲ Thanks to the expanded polyurethane seal inserted between the door and the front of the consumer unit, using the continuous casting process, the IP 65 degree of protection is guaranteed, also making it impossible to lose the seal itself.

▲ The door is designed so that a lock with a coded key can be fitted.



FLCO9828



FLCO9821

▲ Models with 8 modules and more have been designed to use the Unifix rapid cabling system.



FLCO9826



FLCO9825

◀ By combining the copper terminal bars to the corresponding plastic terminal holders, according to the configuration, the consumer unit terminal can be fitted with Neutral (N) or Earth (E).

The push-in flange makes it ▶ possible to carry out direct conduit and cable branch connections without having to use cable clamps, conduit clamps or connectors, with an obvious saving in terms of time and cabling costs.

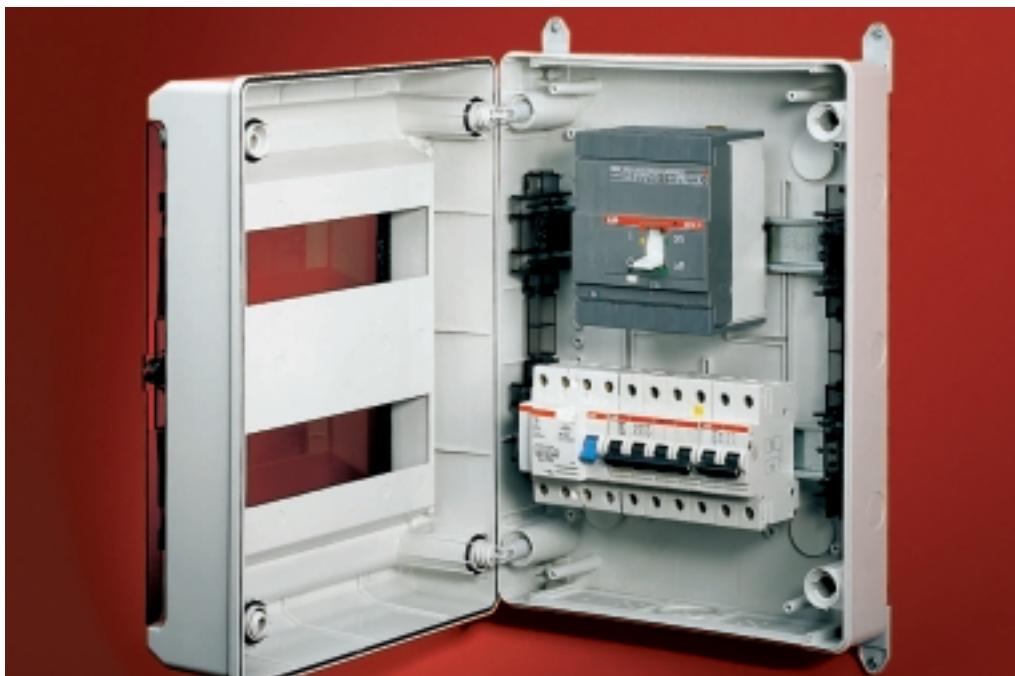


FLCO9820

Further technical information and applications

Mounting examples and functional details

Polycarbonate Fly and Europa Series



FLC09830

▲ When fixing the unit to the wall from the inside, the special hole caps ensure double insulation is maintained.

FLC09832



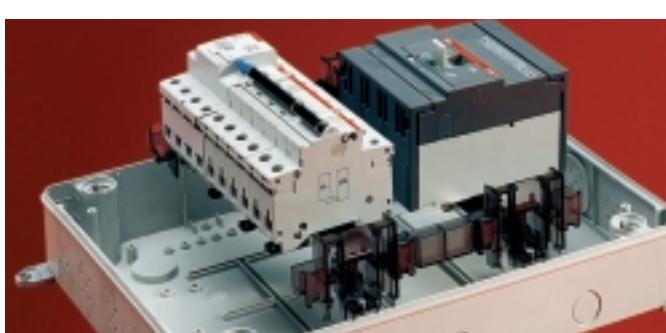
FLC09836

▲ Using the brackets it is easy to fix the consumer unit in any environment.



FLC09835

▲ The frame which can be fitted onto the consumer unit makes semi-flush-mounting possible, guaranteeing an attractive finish.



FLC09831

▲ Using the special hinges supplied the cover can be secured to the frame to make maintenance work easier.

▲ The snap-on, pullout DIN rail holder frame simplifies and speeds up bench cabling operations.

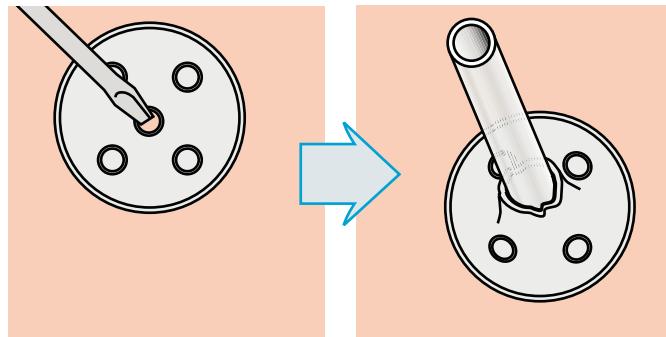
Further technical information and applications

Branch connections using the bi-material flange

DIRECT APPLICATION WITH CONDUIT OR CABLE

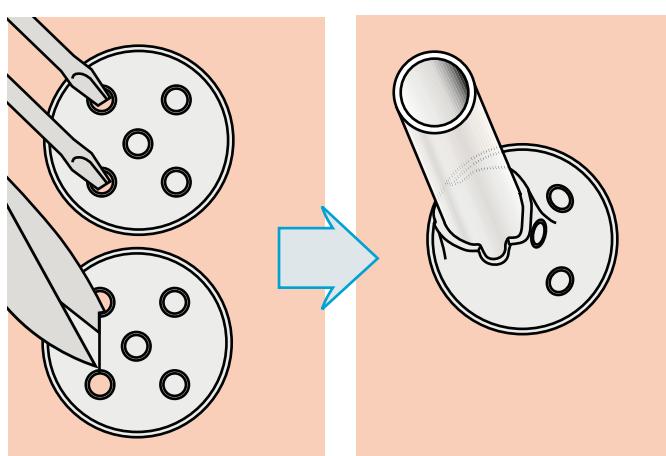
from 5 to 16 mm

Make a hole where indicated using a screw driver to insert cables or conduits with a diameter of from 5 to 16 mm



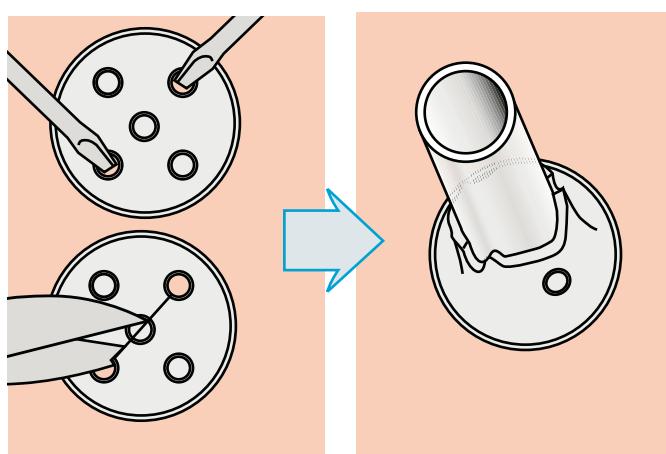
from 17 to 20 mm

To insert cables or conduits with a 20 mm diameter, make holes in the points indicated using a screwdriver and cut the rubber using scissors



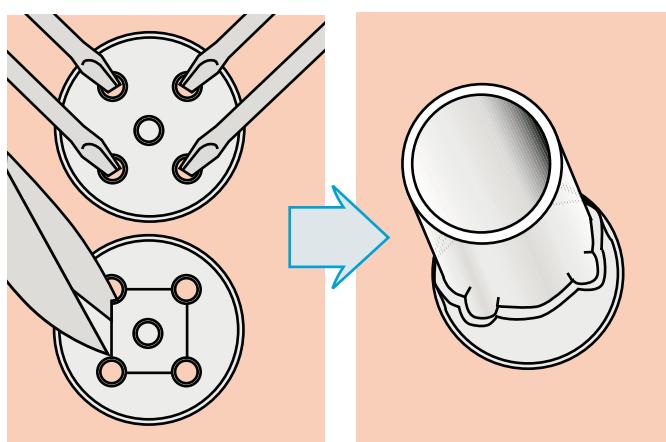
from 21 to 24 mm

To insert cables or conduits with a 24 mm diameter, make holes in the points indicated using a screwdriver and cut the rubber using scissors

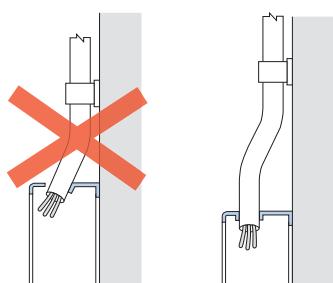


from 25 to 35 mm

To insert cables with a diameter up to 35 mm and conduits with a 32 mm diameter, make holes in the points indicated using a screwdriver and cut the rubber using scissors



How to insert cables or conduits



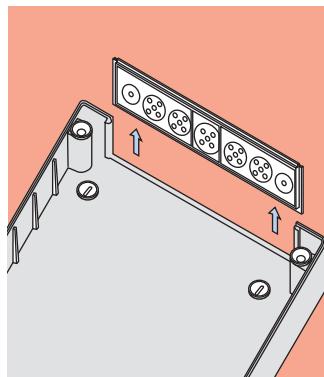
Further technical information and applications

Branch connections using the bi-material flange

APPLICATION WITH CONDUIT OR CABLE CLAMPS

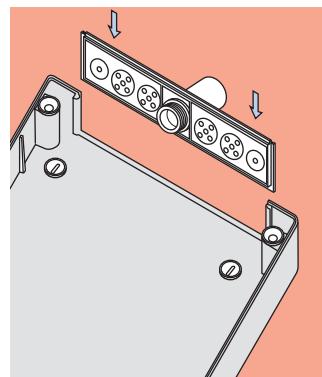
1

Possible extraction of the flange



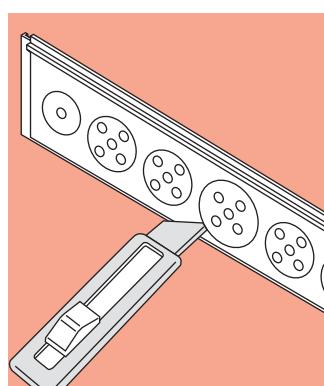
4

Inserting the flange into the base of the container



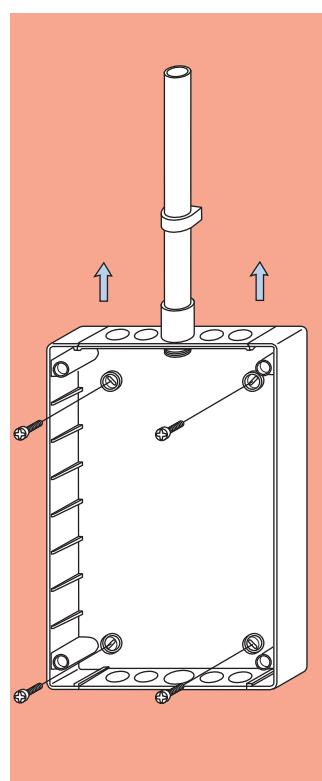
2

Identification and cutting of the suitable inlet (you must remove all the soft part)



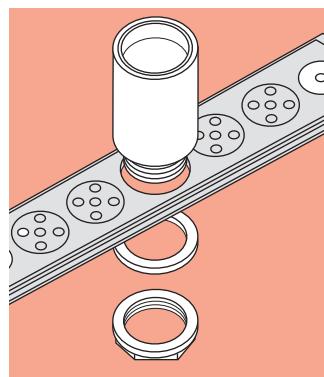
5

Fixing the base of the container to the wall



3

Branch connection using the conduit/cable clamp or the conduit box connector



Suitable ABB article for branch connection with flange in bi-material

Inlets for flange [mm]	Cable-clamp [mm]	Conduit box connector [mm]	Conduit clamp [mm]
Ø 23,5	00 934 - 00 944 PG 16 (Ø 13/16)	00 421 Ø 20	00 431 Ø 20
Ø 30	00 935 - 00 945 PG 21 (Ø 17/29)	00 422 Ø 25	00 432 Ø 25
Ø 37,5	00 936 - 00 946 PG 29 (Ø 21/26)	00 423 Ø 32	00 433 Ø 32

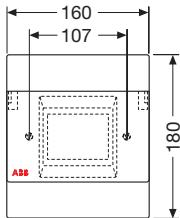
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Flush and wall-mounting Livorno Series emergency switchboards	10/22
IP 65 Europa Series switchboards for industrial applications	10/24
Switchboards for industrial applications with blank front	10/26
Marostica Series modular switchboards	10/28
IP 44 and IP 55 junction boxes	10/30
IP 65 polycarbonate junction boxes	10/32
IP 40 and IP 55 equipment and empty enclosures	10/34
Various components	10/36
Wiring accessories and junction boxes in thermoplastic material	10/38
Sockets and plugs in compliance with the IEC 309-1 Standard	10/40
Safety sockets in compliance with the IEC 309-1 Standard	10/42
Installation material	10/46
Accessories	10/50

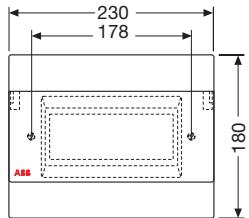
Overall dimensions

IP 40 Estetica Series flush-mounting consumer units

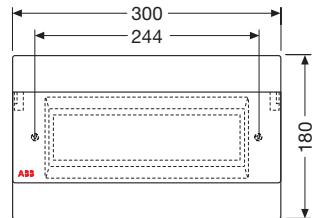
Front view



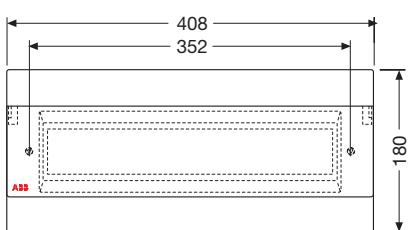
4 modules



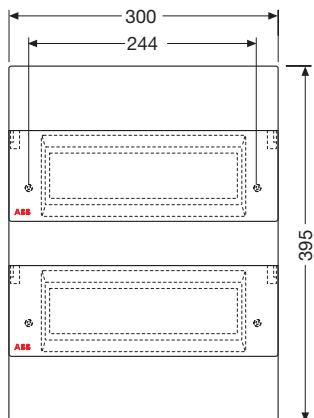
8 modules



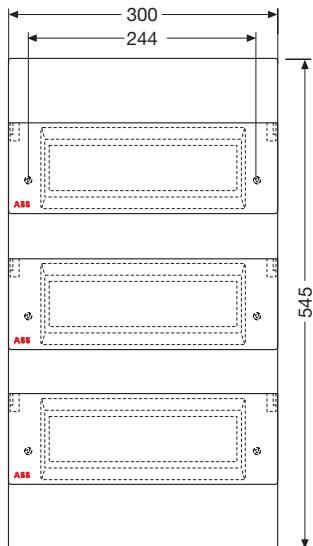
12 modules



18 modules

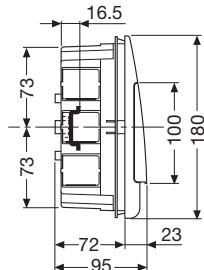


24 modules

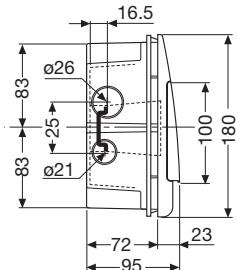


36 modules

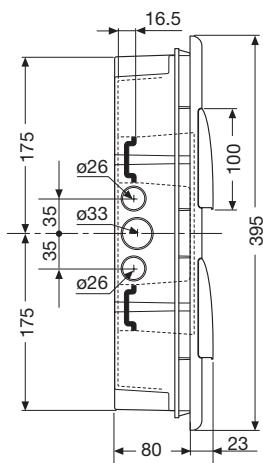
Side view



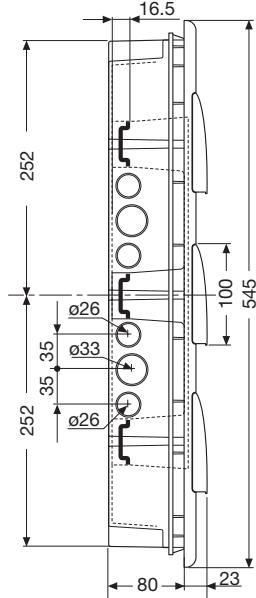
4 modules



8/12/18 modules



24 modules

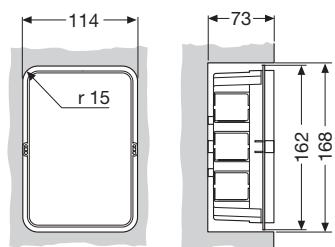


36 modules

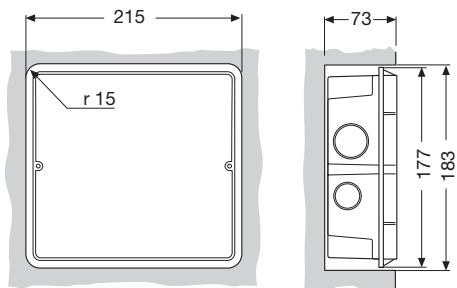
Overall dimensions

IP 40 Estetica Series flush-mounting consumer units

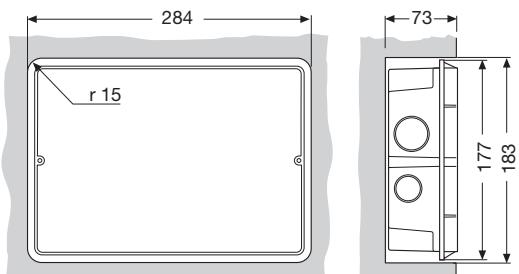
Drilling sheets



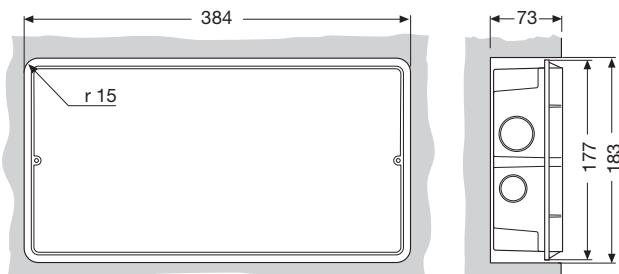
4 modules



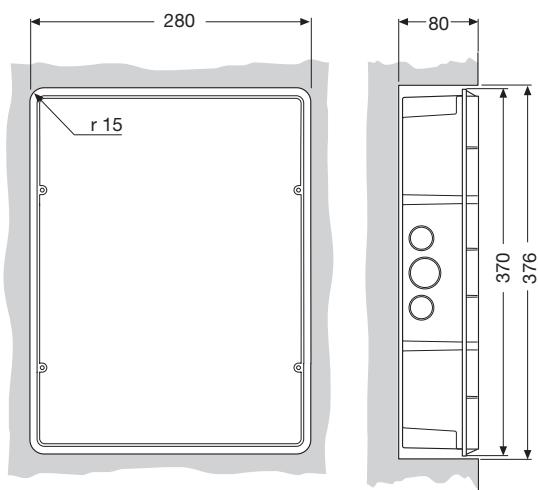
8 modules



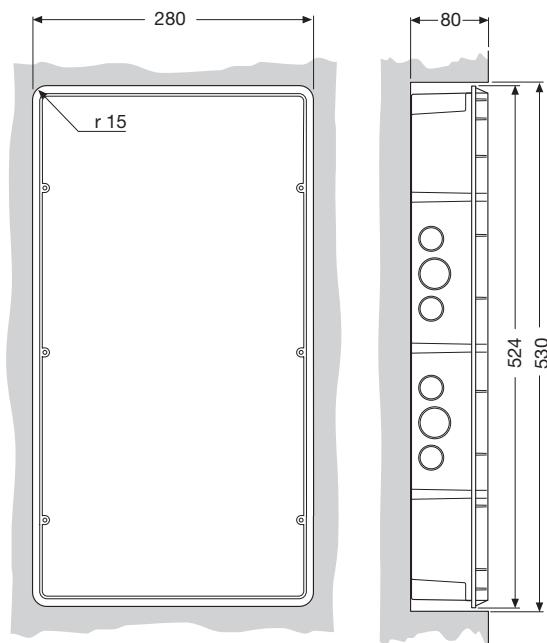
12 modules



18 modules



24 modules



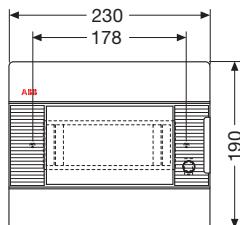
36 modules

modules	article
4 modules	12 004 - 12 024 - 12 037
8 modules	12 008 - 12 028 - 12 038
12 modules	12 012 - 12 032 - 12 042
18 modules	12 013 - 12 033 - 12 043
24 modules	12 014 - 12 034 - 12 044
36 modules	12 016 - 12 036 - 12 046

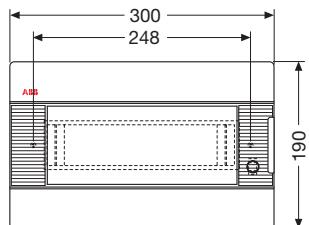
Overall dimensions

IP 40 Europa Series flush-mounting consumer units

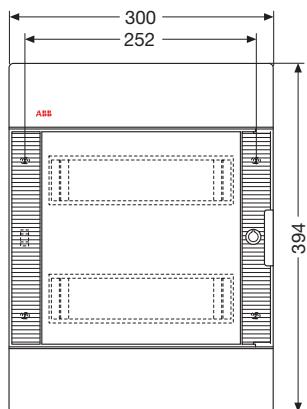
Front view



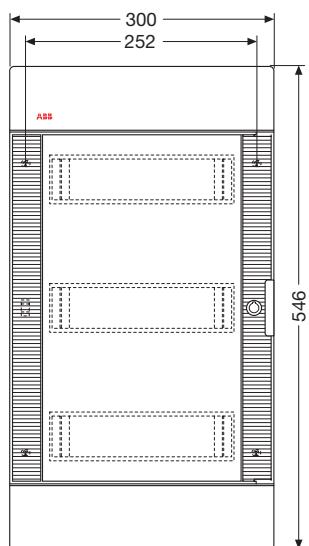
8 modules



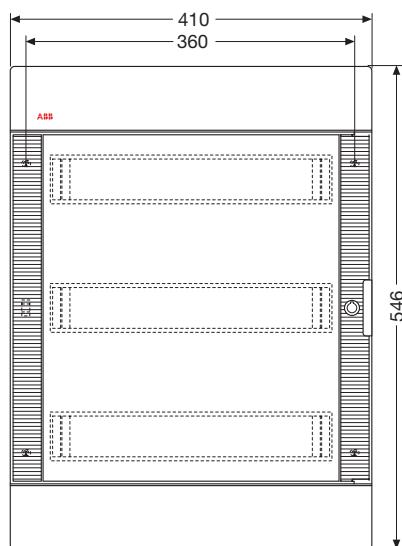
12 modules



24 modules

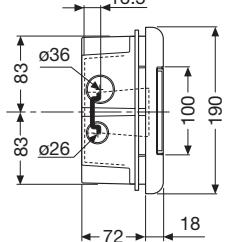


36 modules

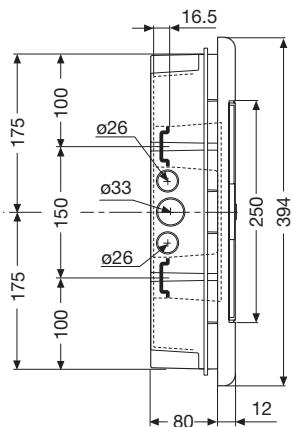


54 modules

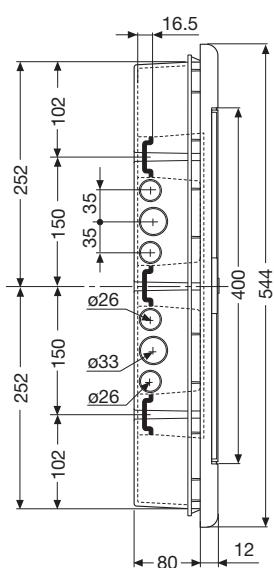
Side view



8/12 modules



24 modules

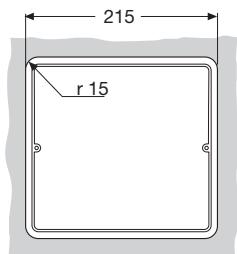


36/54 modules

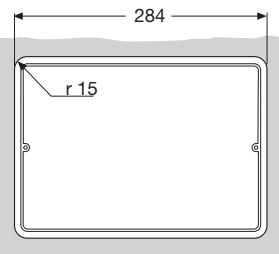
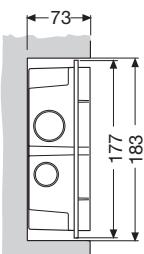
Overall dimensions

IP 40 Europa Series flush-mounting consumer units

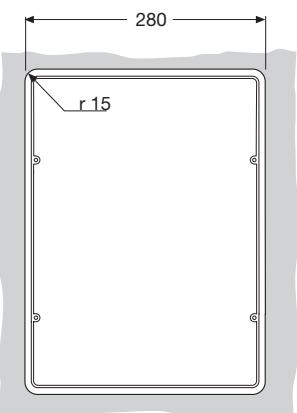
Drilling sheets



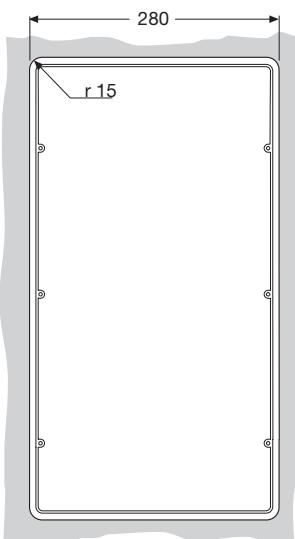
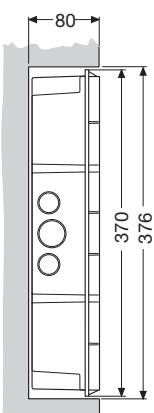
8 modules



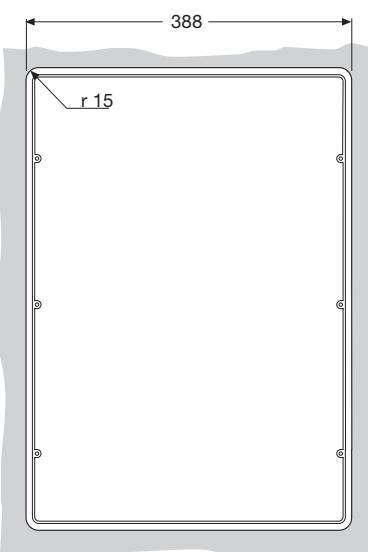
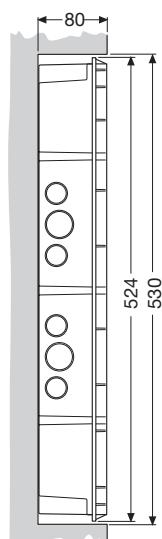
12 modules



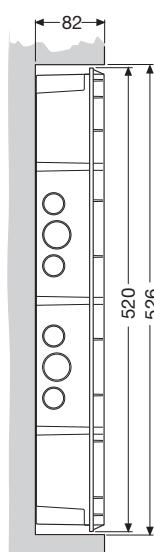
24 modules



36 modules



54 modules

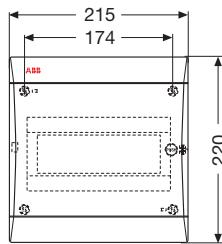


modules	article
8 modules	12 040 - 12 026 - 12 057 - 12 058
12 modules	12 041 - 12 027 - 12 061 - 12 062
24 modules	12 045 - 12 030 - 12 063 - 12 064
36 modules	12 048 - 12 031 - 12 065 - 12 066
54 modules	12 052 - 12 035 - 12 067 - 12 068

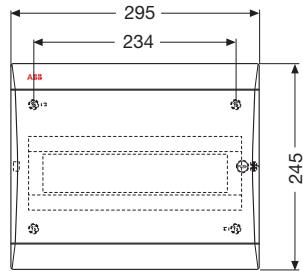
Overall dimensions

IP 40 Unibox Series wall-mounting consumer units

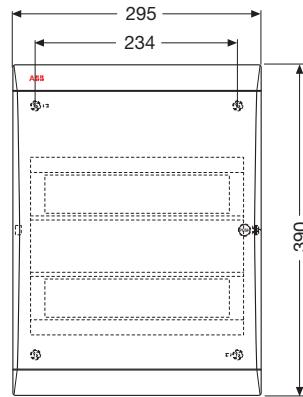
Front view



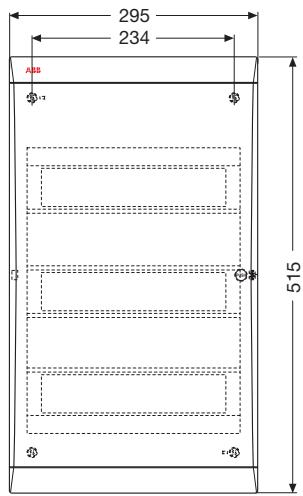
8 modules



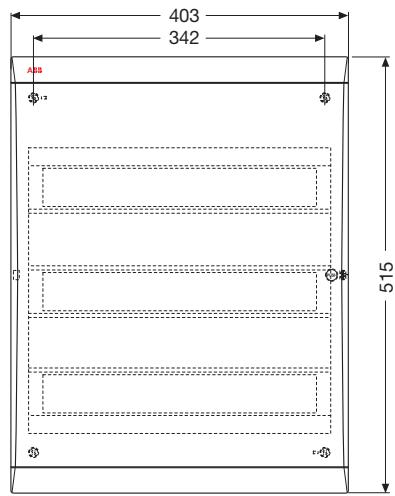
12 modules



24 modules

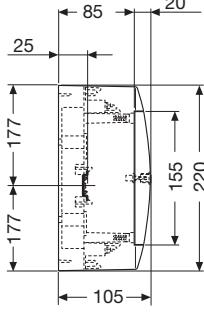


36 modules

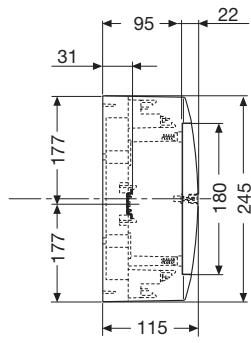


54 modules

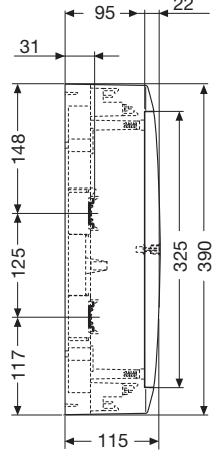
Side view



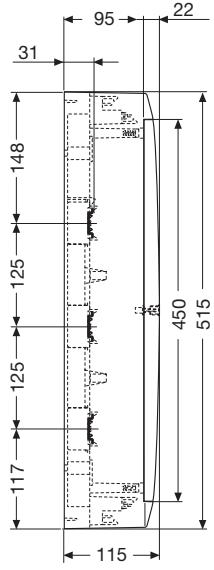
8 modules



12 modules



24 modules

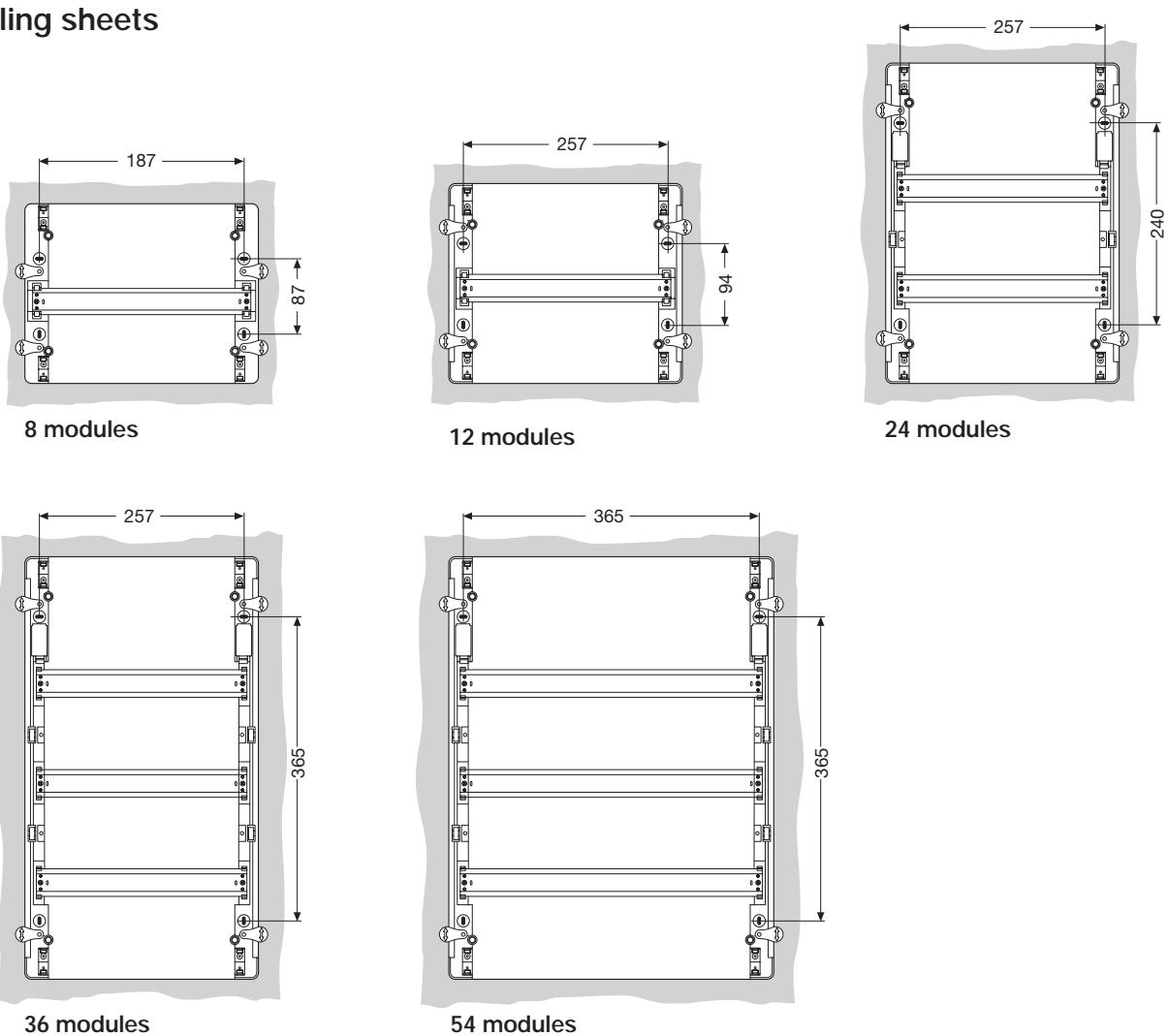


36-54 modules

Overall dimensions

IP 40 Unibox Series wall-mounting consumer units

Drilling sheets



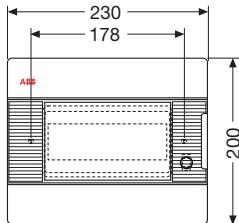
modules	article
8 modules	12 208 - 12 228 - 12 238 - 12 248 - 12 258 - 12 268
12 modules	12 212 - 12 232 - 12 242 - 12 252 - 12 262 - 12 272
24 modules	12 214 - 12 234 - 12 244 - 12 254 - 12 264 - 12 274
36 modules	12 216 - 12 236 - 12 246 - 12 256 - 12 266 - 12 276
54 modules	12 217 - 12 237 - 12 247 - 12 257 - 12 267 - 12 277

VLC00006

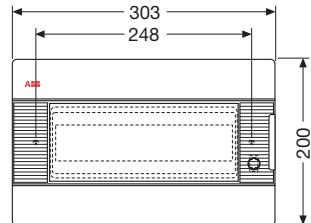
Overall dimensions

IP 40 Europa Series wall-mounting consumer units

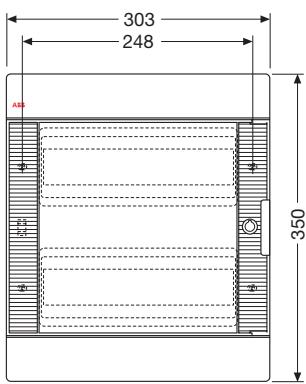
Front view



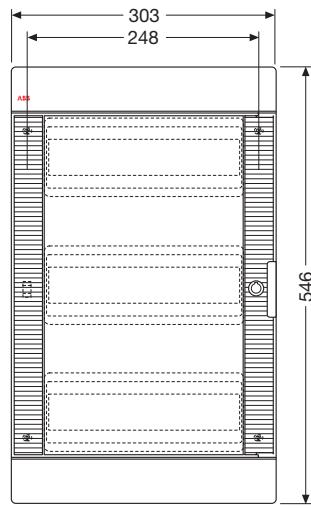
8 modules



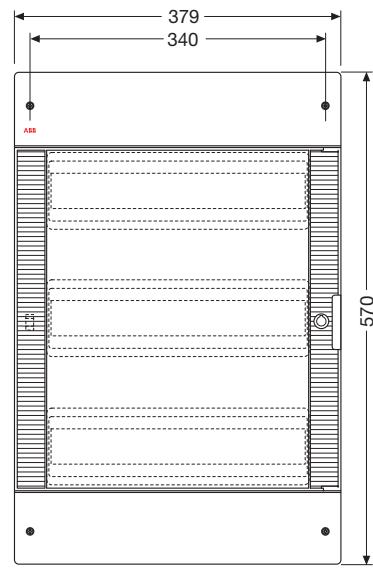
12 modules



24 modules

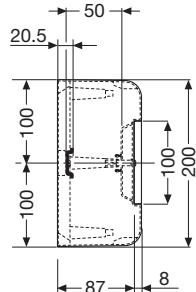


36 modules

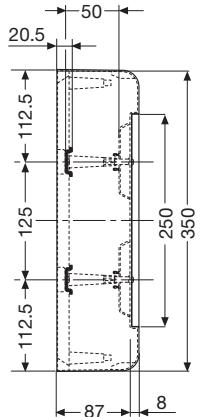


54 modules

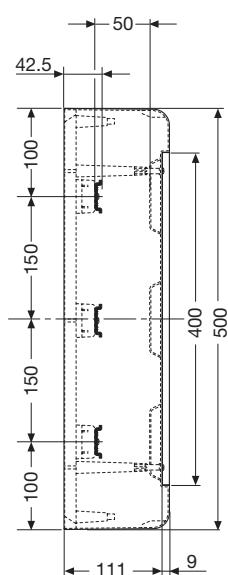
Side view



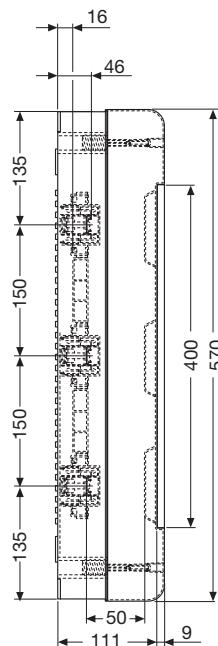
8/12 modules



24 modules



36 modules

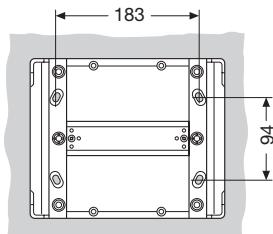


54 modules

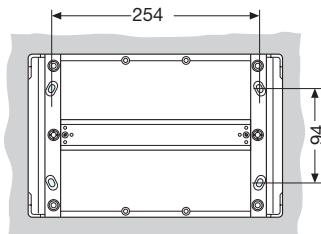
Overall dimensions

IP 40 Europa Series wall-mounting consumer units

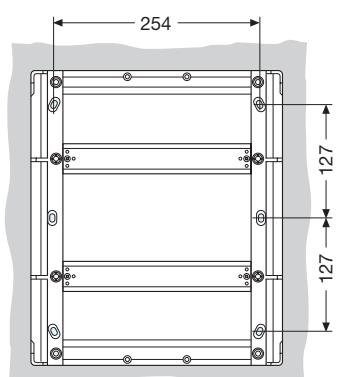
Drilling sheets



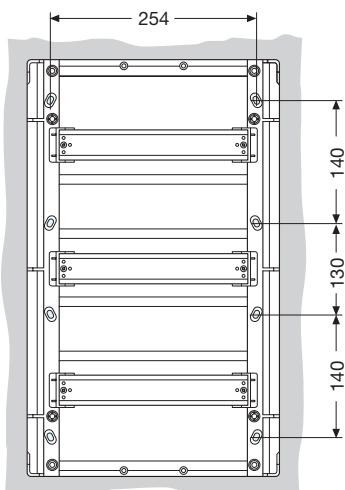
8 modules



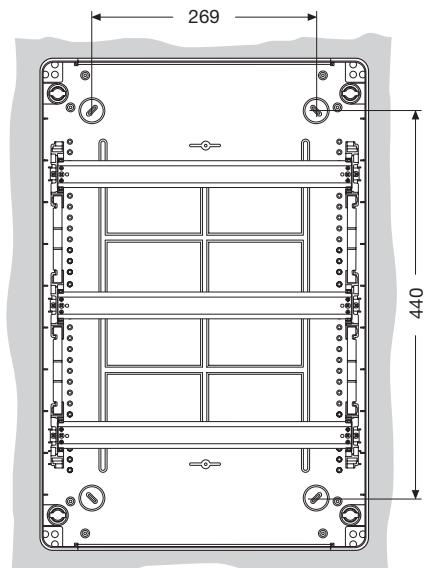
12 modules



24 modules



36 modules



54 modules

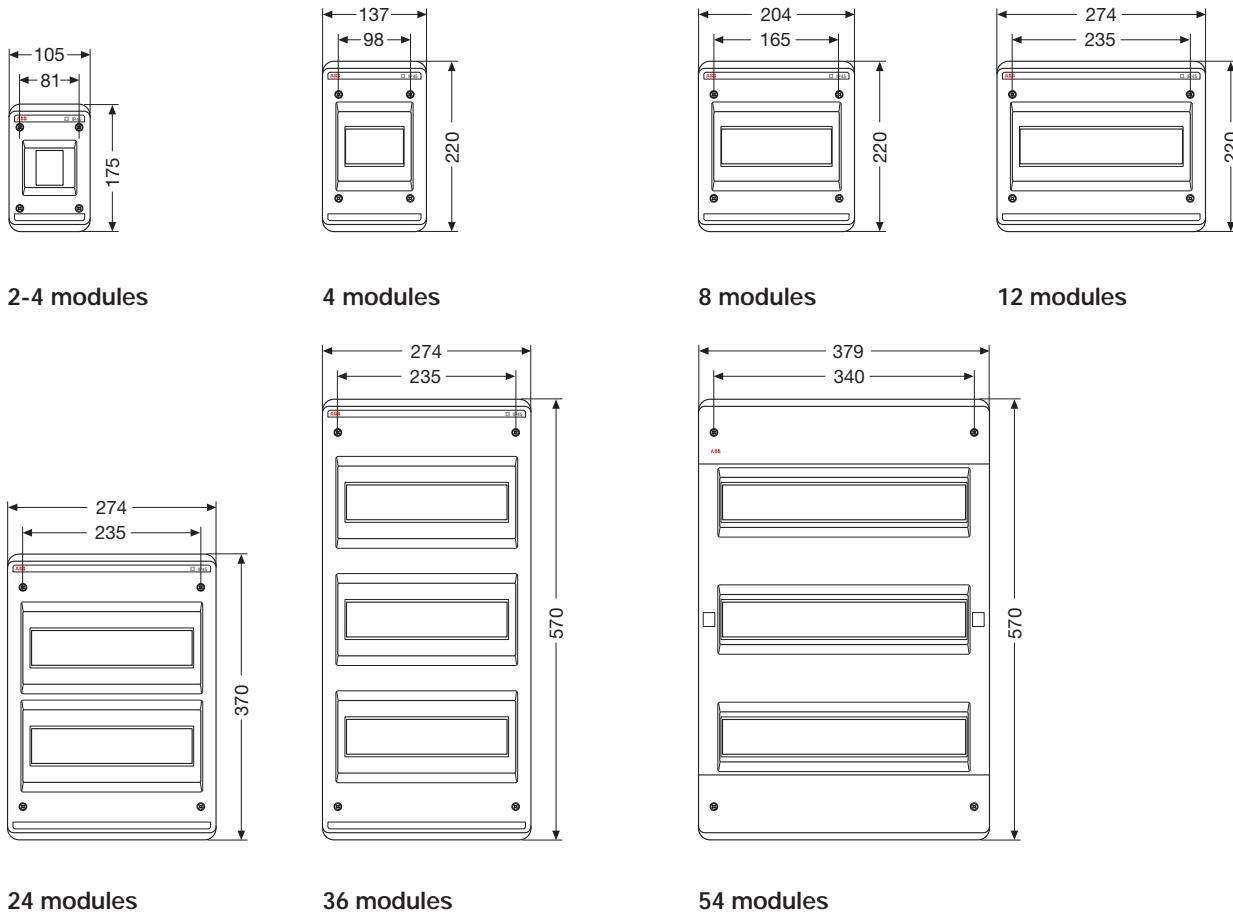
VLC00008

modules	article
8 modules	12 408 - 12 428 - 12 438 - 12 448 - 12 458 - 12 468
12 modules	12 412 - 12 432 - 12 442 - 12 452 - 12 462 - 12 472
24 modules	12 414 - 12 434 - 12 444 - 12 454 - 12 464 - 12 474
36 modules	12 416 - 12 436 - 12 446 - 12 456 - 12 466 - 12 476
54 modules	12 417 - 12 437 - 12 447 - 12 457 - 12 467 - 12 477

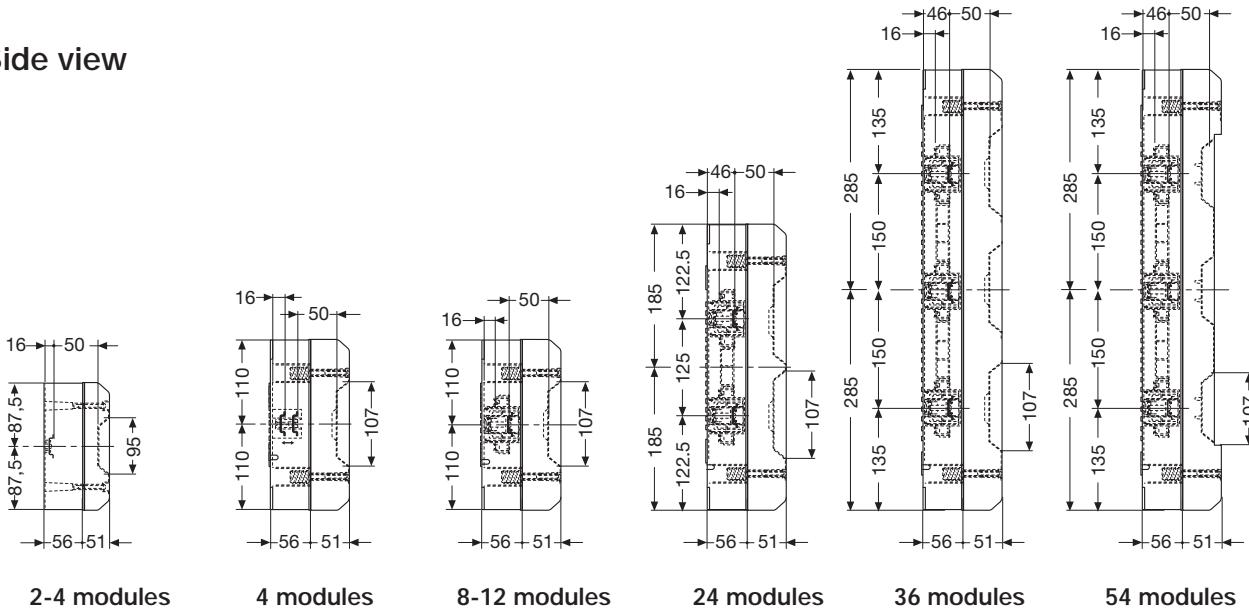
Overall dimensions

IP 40 Polycarbonate Europa Series wall-mounting consumer units

Front view



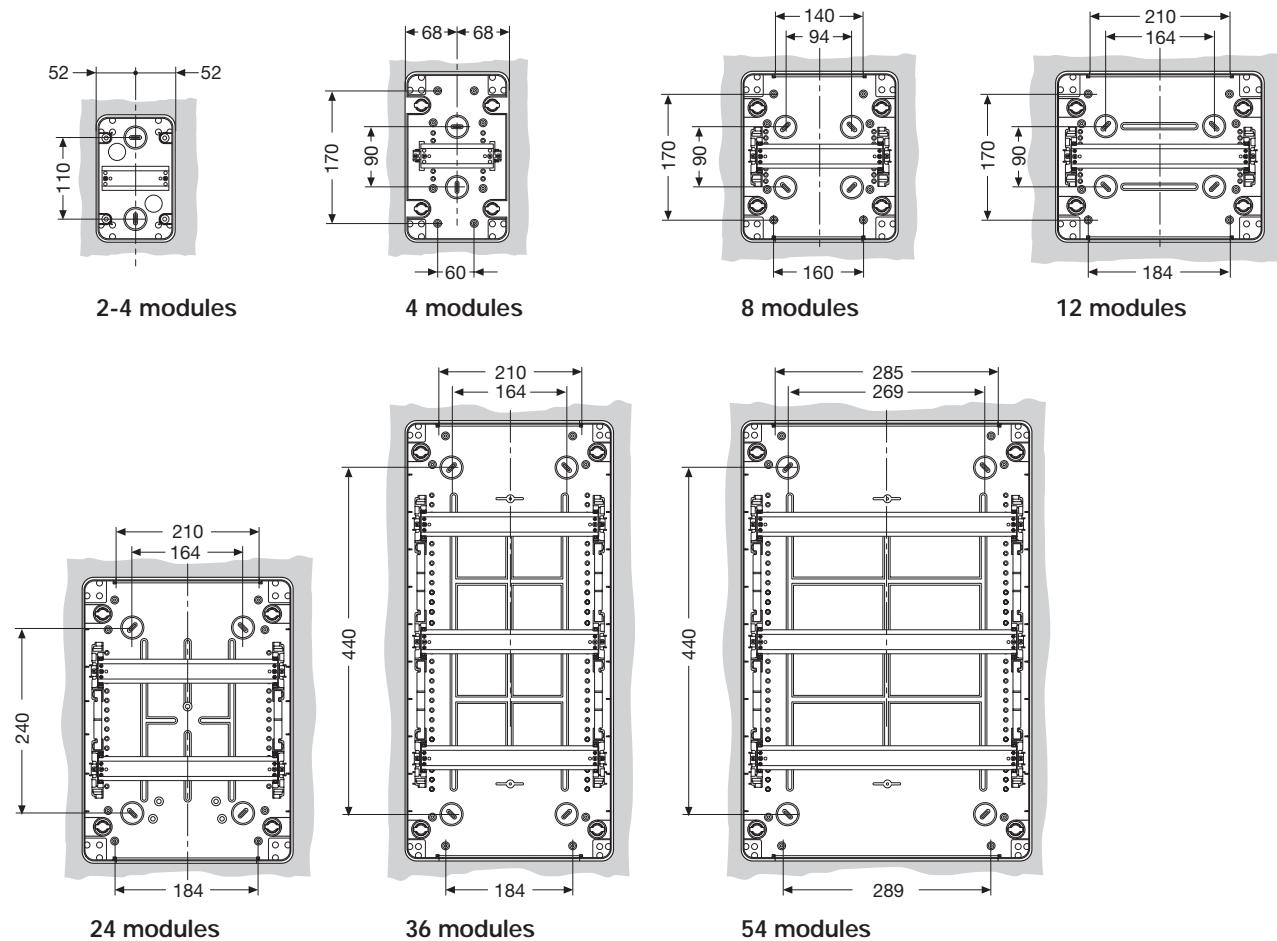
Side view



Overall dimensions

IP 40 Polycarbonate Europa Series wall-mounting consumer units

Drilling sheets

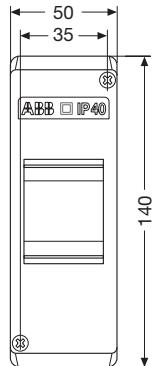


modules	article
2-4 modules	12 702
4 modules	12 704
8 modules	12 708
12 modules	12 712
24 modules	12 714
36 modules	12 716
54 modules	12 718

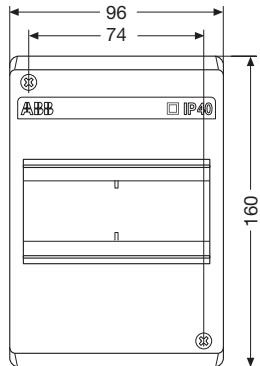
Overall dimensions

IP 40 wall-mounting covers

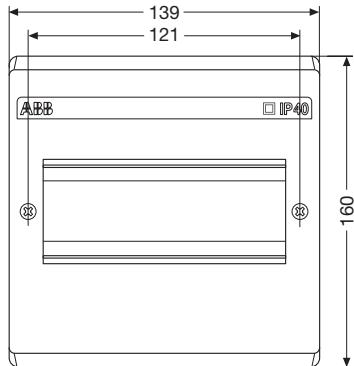
Front view



2 modules

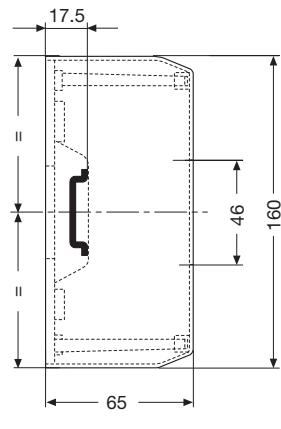


4 modules

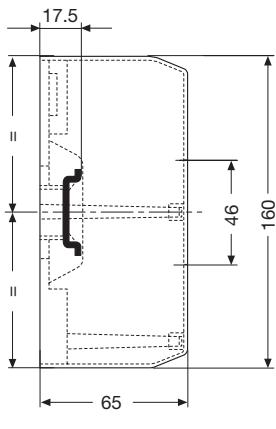


6 modules

Side view



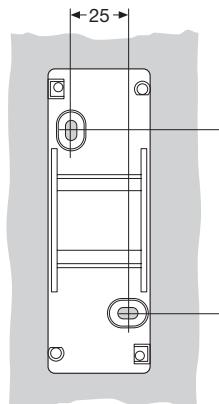
2 modules



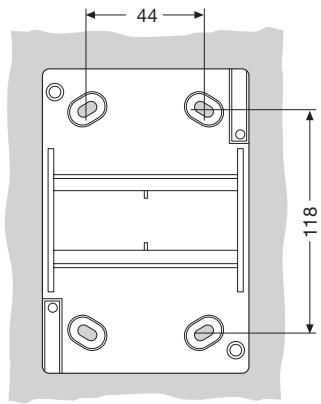
4-6 modules

Overall dimensions IP 40 wall-mounting covers

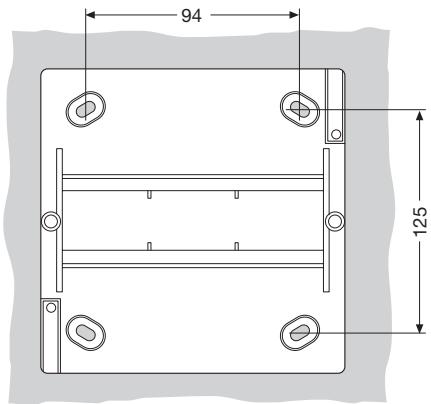
Drilling sheets



2 modules



4 modules



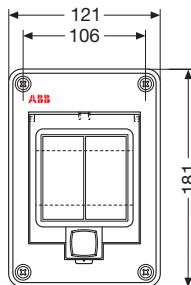
6 modules

modules	article
2 modules	12 402-12 422
3 modules	12 404-12 424
4 modules	12 406-12 426

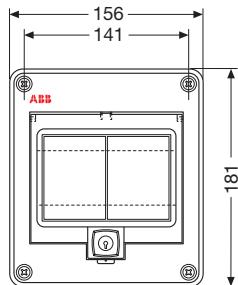
Overall dimensions

IP 55 Europa Series wall-mounting consumer units

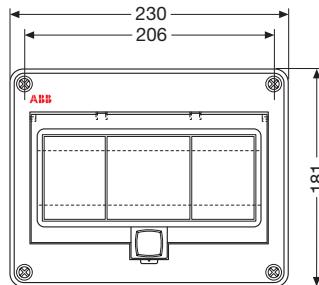
Front view



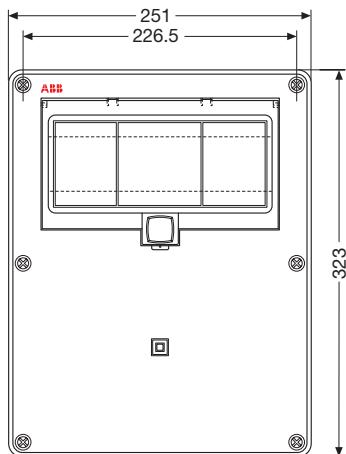
4 modules



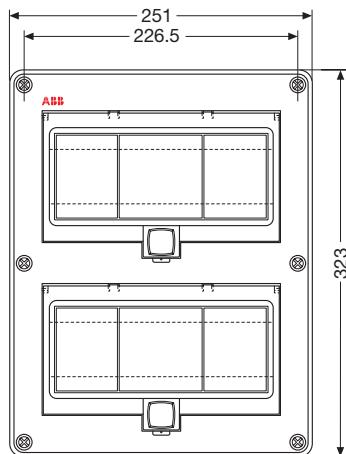
6 modules



10 modules

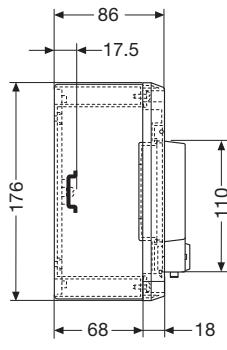


10 modules special

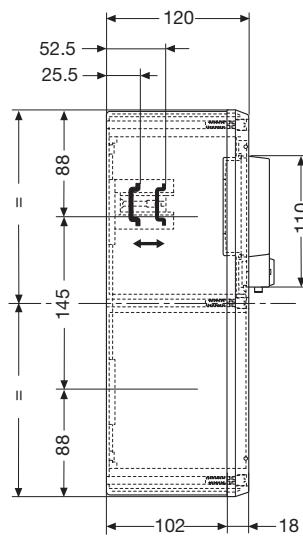


20 modules

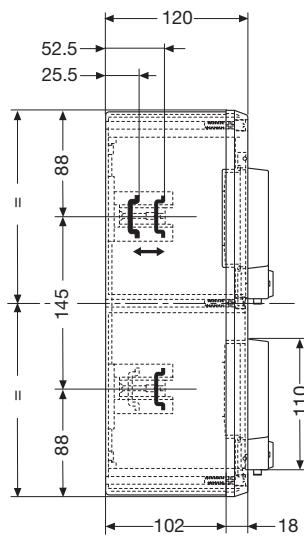
Side view



4-6-10 modules



10 modules

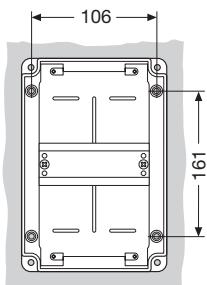


20 modules

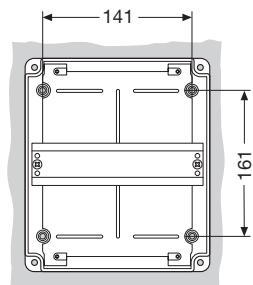
Overall dimensions

IP 55 Europa Series wall-mounting consumer units

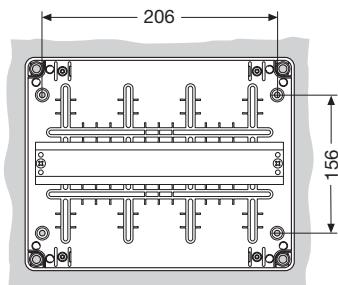
Drilling sheets



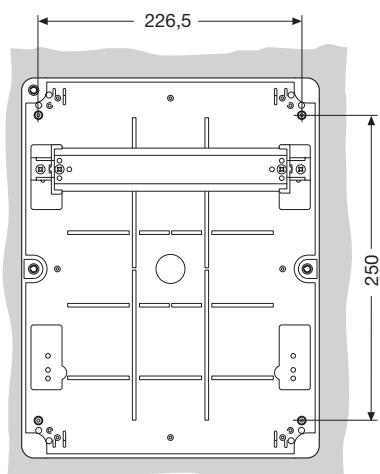
4 modules



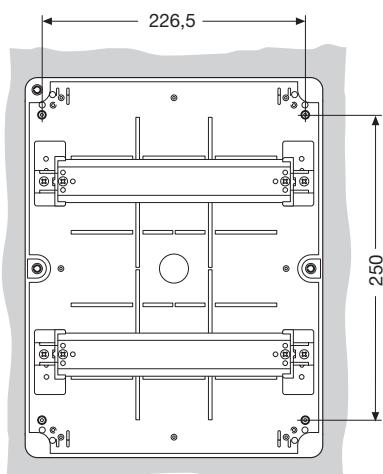
6 modules



10 modules



10 modules



20 modules

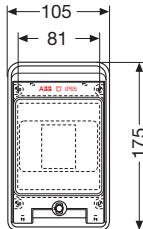
VLC0014

modules	article
4 modules	12 664 - 12 684
6 modules	12 646 - 12 686
10 modules	12 650 - 12 690 - 12 654
20 modules	12 652 - 12 692

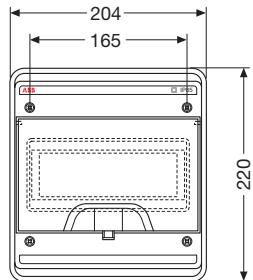
Overall dimensions

IP 65 Polycarbonate Fly Series wall-mounting consumer units

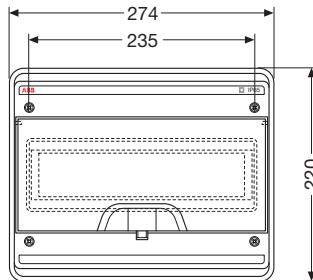
Front view



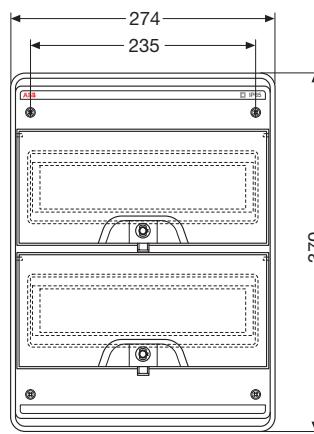
2-4 modules



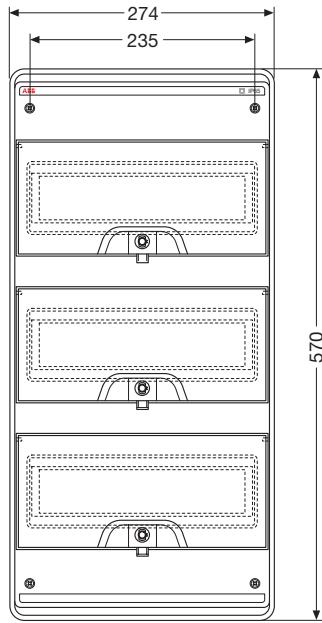
8 modules



12 modules

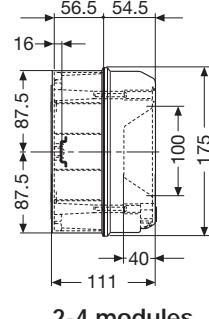


24 modules

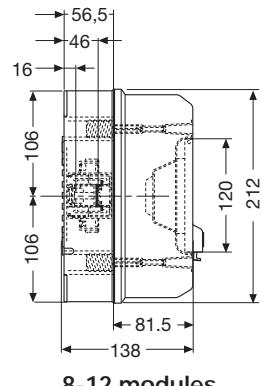


36 modules

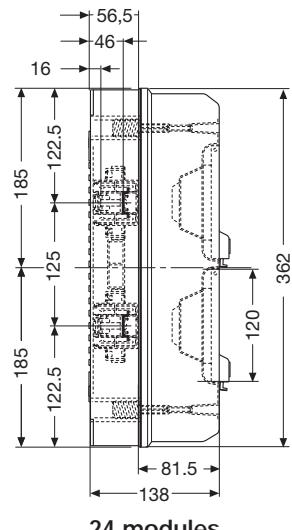
Side view



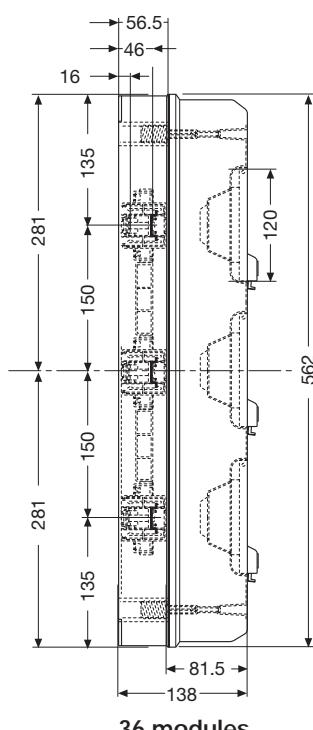
2-4 modules



8-12 modules



24 modules

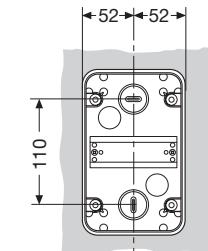


36 modules

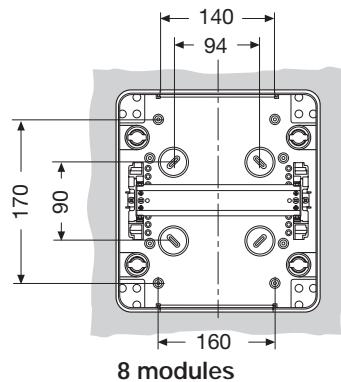
Overall dimensions

IP 65 Polycarbonate Fly Series wall-mounting consumer units

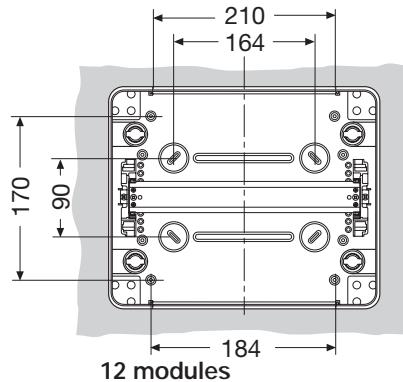
Drilling sheets



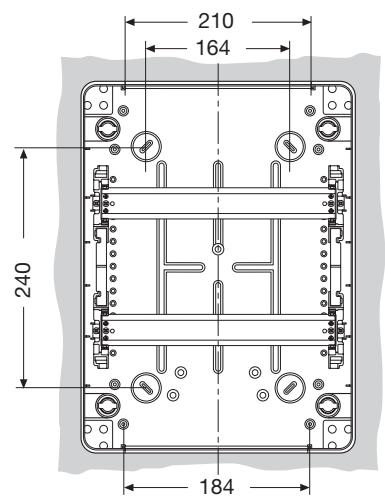
2-4 modules



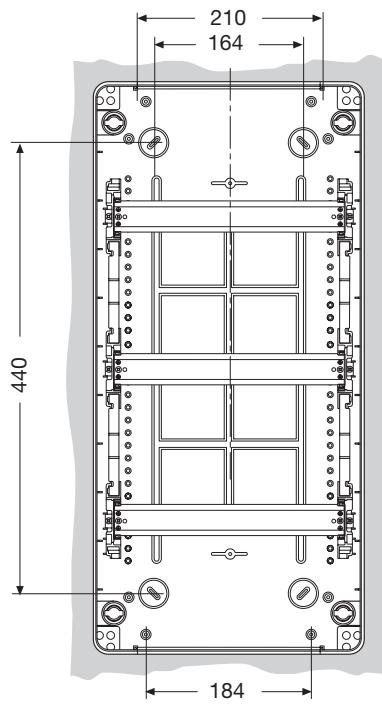
8 modules



12 modules



24 modules



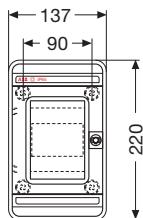
36 modules

modules	article
2-4 modules	12 742 - 12 722
8 modules	12 743
12 modules	12 745
24 modules	12 746
36 modules	12 747

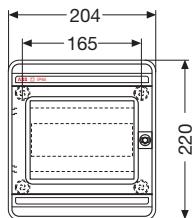
Overall dimensions

IP 65 Polycarbonate Europa Series wall-mounting consumer units

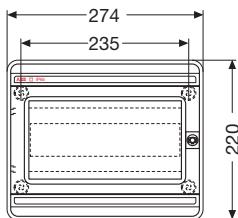
Front view



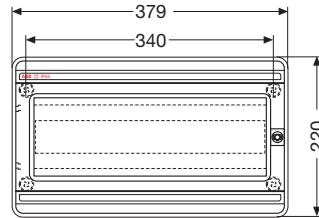
4 modules



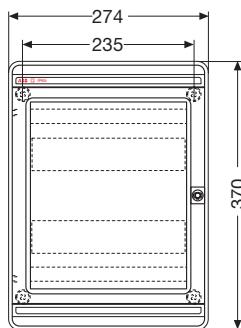
8 modules



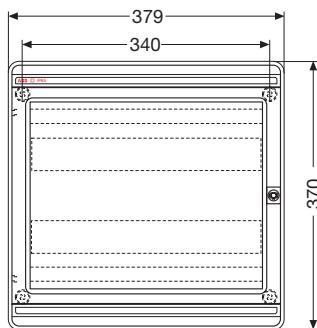
12 modules



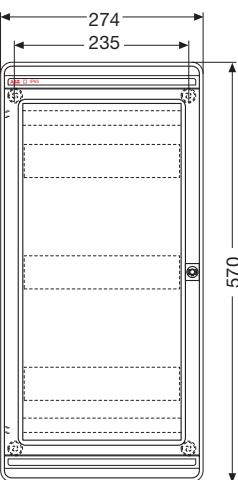
18 modules



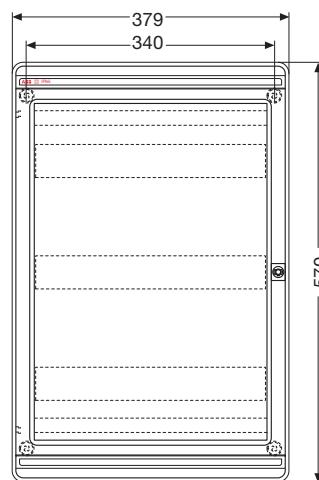
24 modules



36 modules

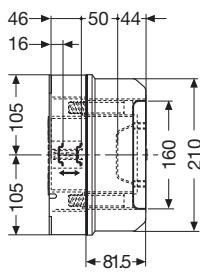


36 modules

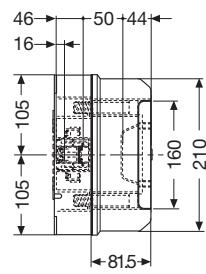


54 modules

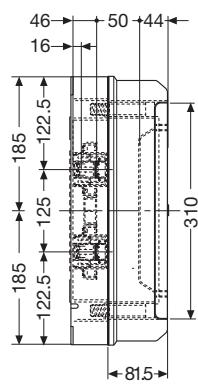
Side view



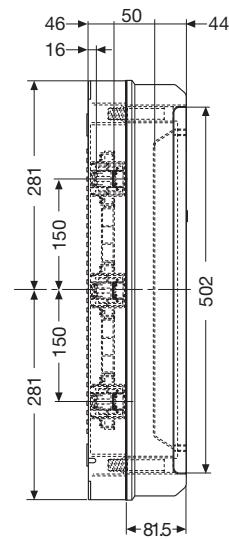
4-8-12 modules



18 modules



24 modules

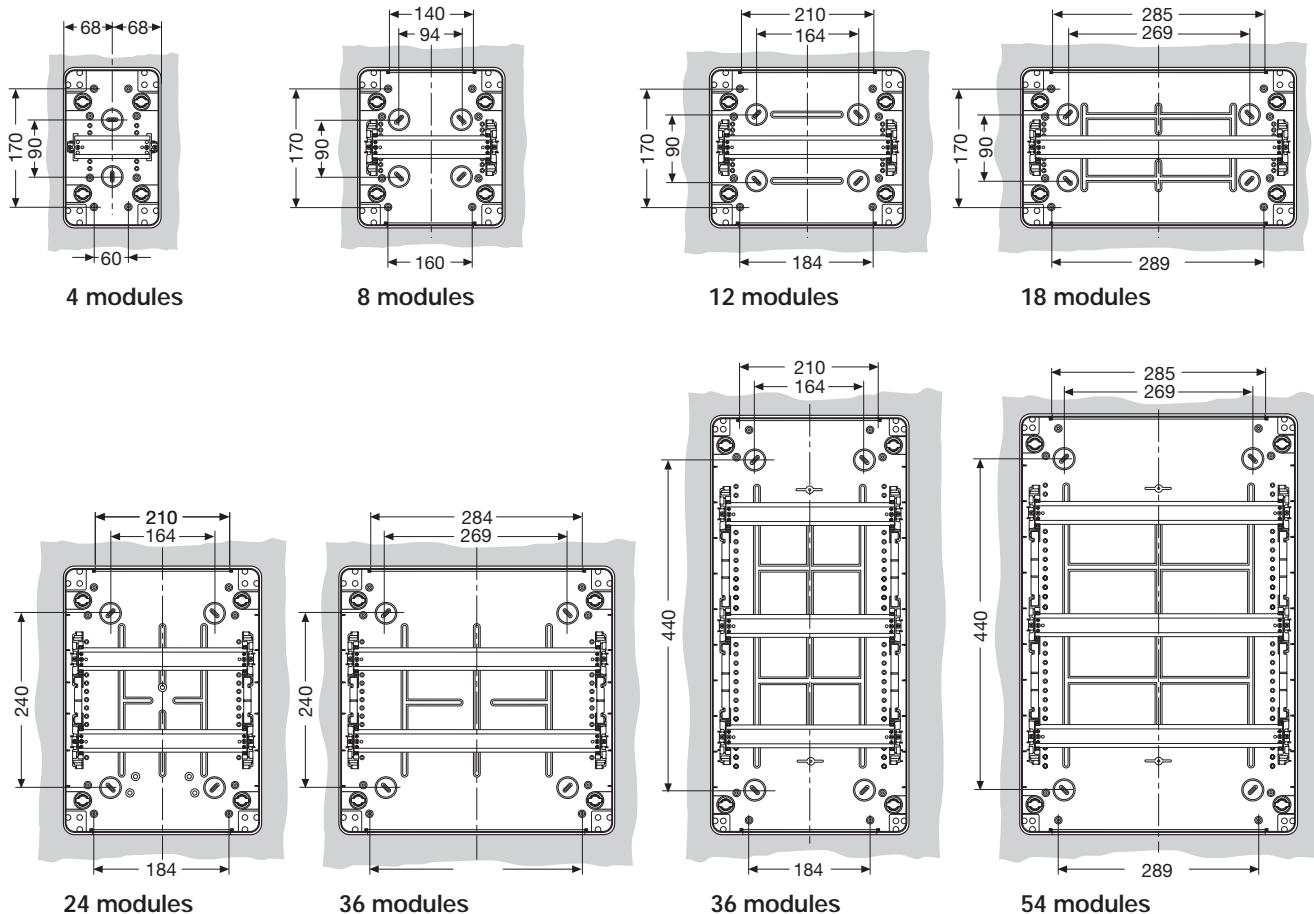


36-54 modules

Overall dimensions

IP 65 Polycarbonate Europa Series wall-mounting consumer units

Drilling sheets

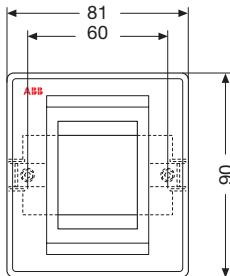


modules	article
4 modules	12 724 - 12 744
8 modules	12 728 - 12 748
12 modules	12 732 - 12 752
18 modules	12 733 - 12 753
24 modules	12 734 - 12 754
36 modules	12 735 - 12 755
36 modules	12 736 - 12 756
54 modules	12 738 - 12 758

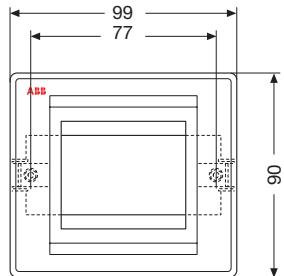
Overall dimensions

IP 40 panel fronts

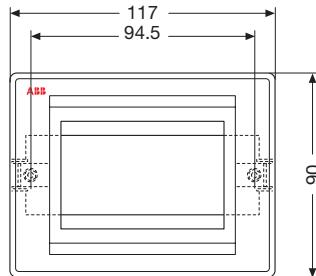
Front view



2 modules

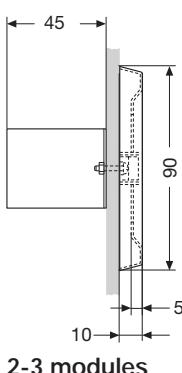


3 modules

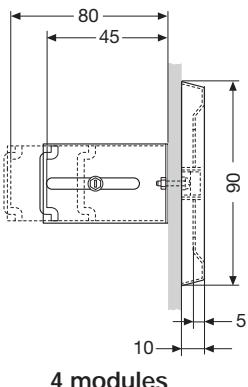


4 modules

Side view

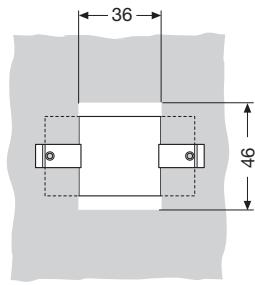


2-3 modules

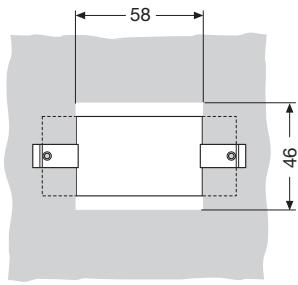


4 modules

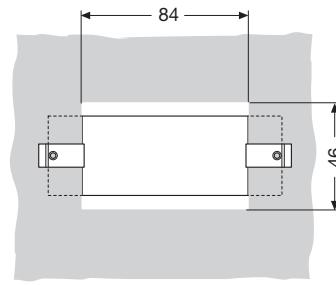
Drilling sheets



2 modules



3 modules



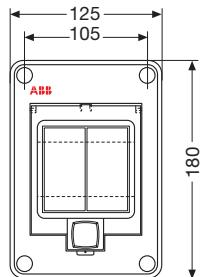
4 modules

modules	article
2 modules	12 362
3 modules	12 363
4 modules	12 364

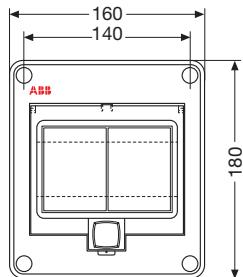
Overall dimensions

IP 55 panel fronts

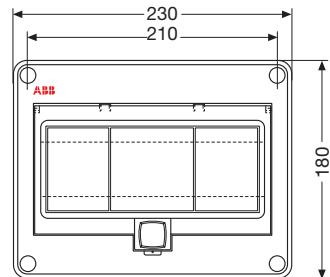
Front view



4 modules

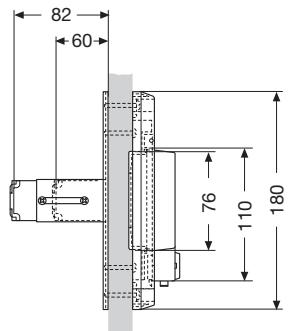


6 modules



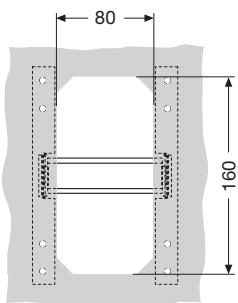
10 modules

Side view

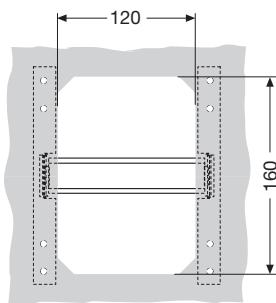


4-6-10 modules

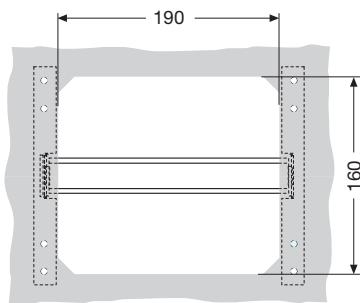
Drilling sheets



4 modules



6 modules



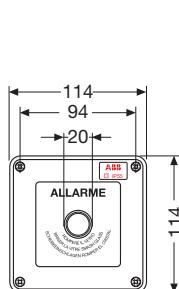
10 modules

modules	article
4 modules	12 658
6 modules	12 659
10 modules	12 660

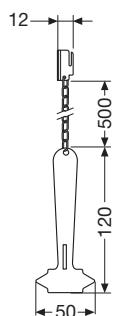
Overall dimensions

Flush and wall-mounting Livorno Series emergency switchboards

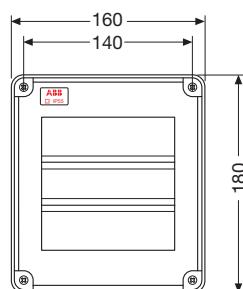
Front view



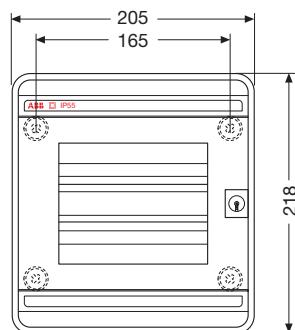
13 180 - 13 183



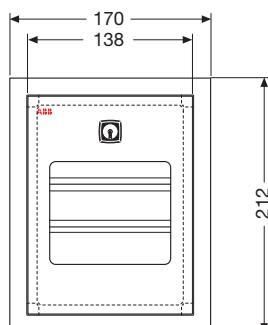
13 186



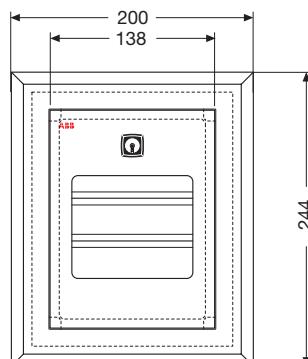
13 161 - 13 165
13 160 - 13 164



13 171 - 13 175
13 170 - 13 174

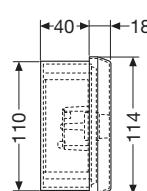


13 141 - 13 151
13 140 - 13 150

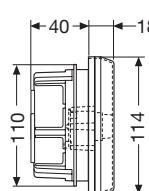


13 144 - 13 154
13 143 - 13 153

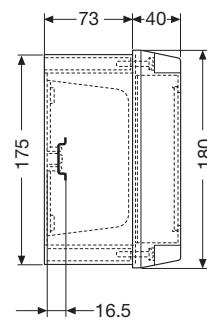
Side view



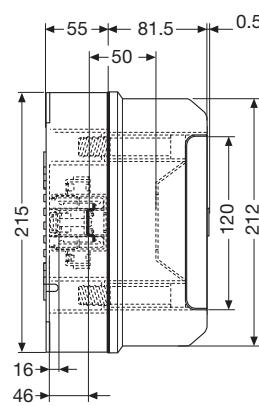
13 180



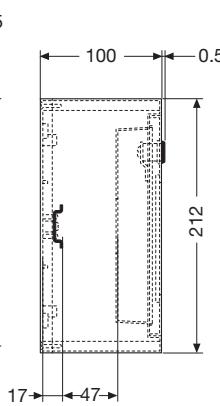
13 183



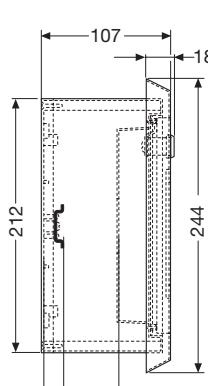
13 161 - 13 165
13 160 - 13 164



13 171 - 13 175
13 170 - 13 174



13 141 - 13 151
13 140 - 13 150

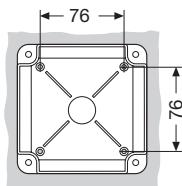


13 144 - 13 154
13 143 - 13 153

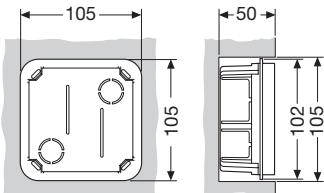
Overall dimensions

Flush and wall-mounting Livorno Series emergency switchboards

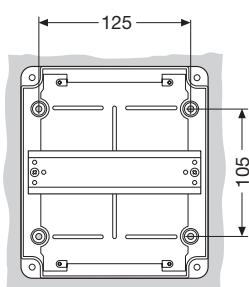
Drilling sheets



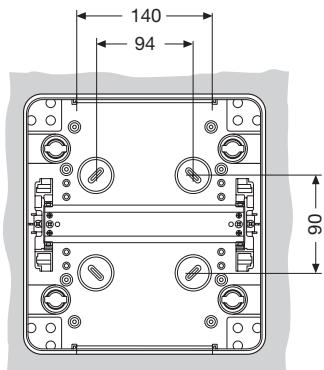
13 180



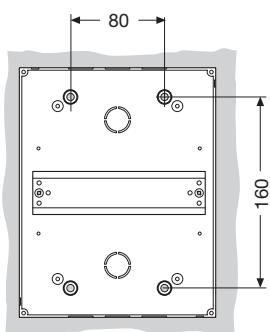
13 183



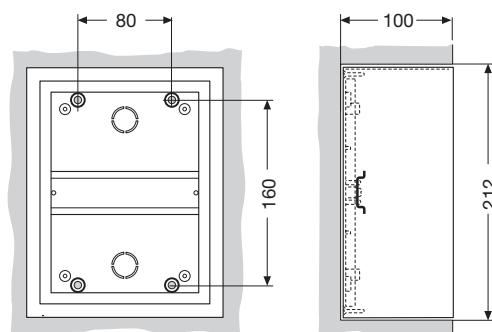
13 161 - 13 165
13 160 - 13 164



13 171 - 13 175
13 170 - 13 174



13 141 - 13 151
13 140 - 13 150

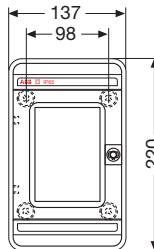


13 144 - 13 154
13 143 - 13 153

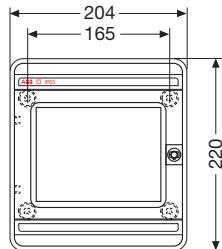
Overall dimensions

IP 65 Europa Series switchboards for industrial applications

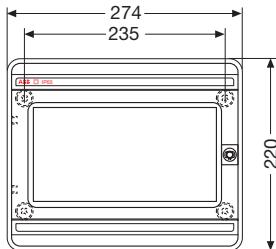
Front view



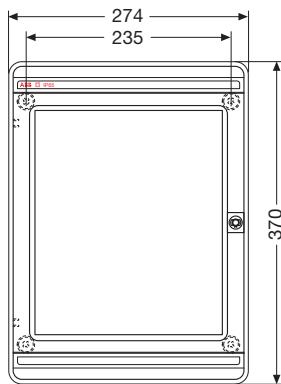
12 764 - 12 784



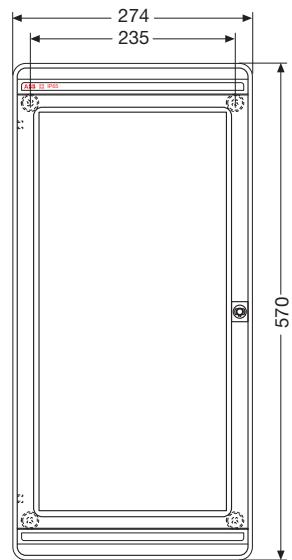
12 768 - 12 788



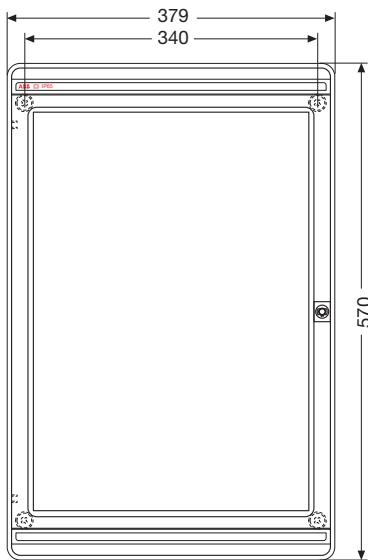
12 772 - 12 792



12 774 - 12 794

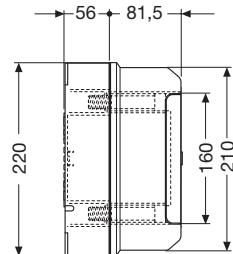


12 776 - 12 796

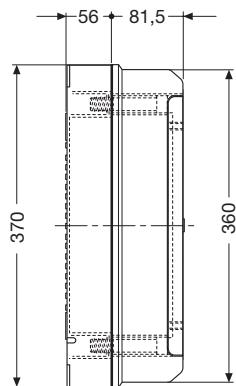


12 778 - 12 798

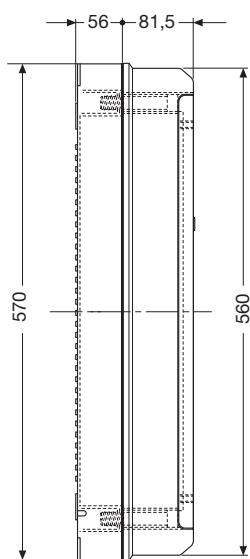
Side view



12 768 - 12 788
12 764 - 12 784
12 772 - 12 792



12 776 - 12 796

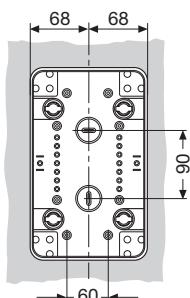


12 778 - 12 798

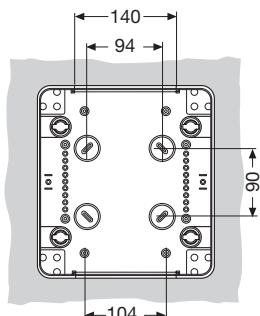
Overall dimensions

IP 65 Europa Series switchboards for industrial applications

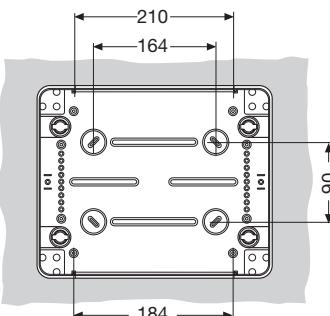
Drilling sheets



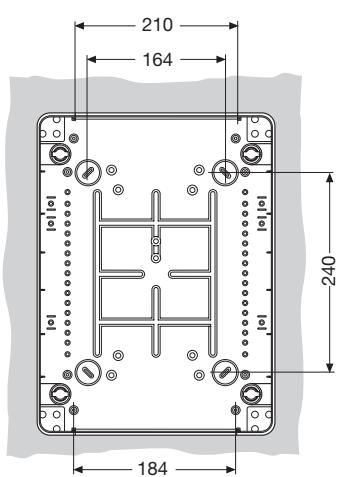
12 764 - 12 784



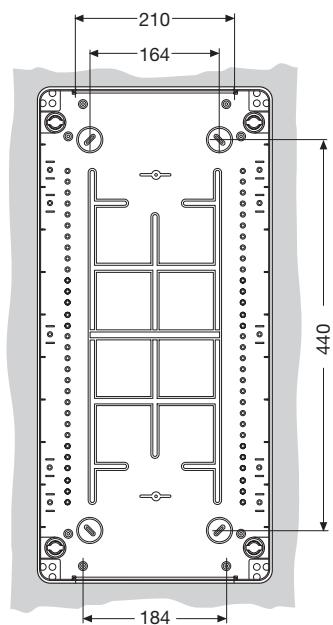
12 768 - 12 788



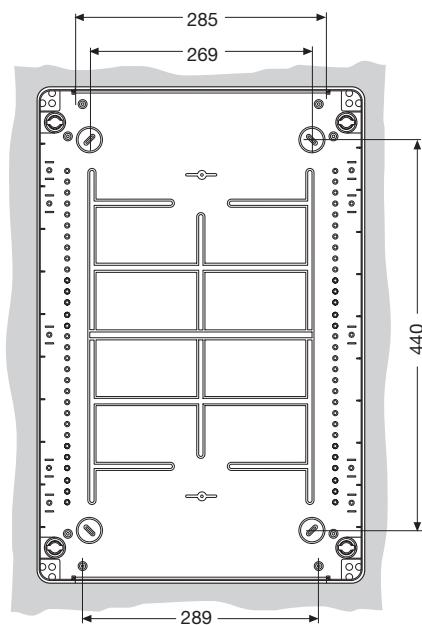
12 772 - 12 792



12 774 - 12 794



12 776 - 12 796

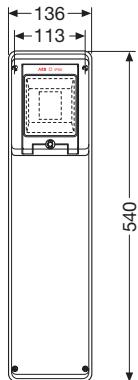


12 778 - 12 798

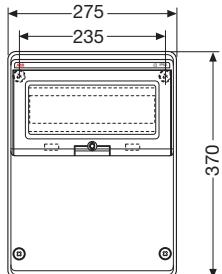
Overall dimensions

Switchboards for industrial applications with blank front

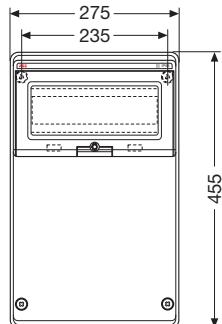
Front view



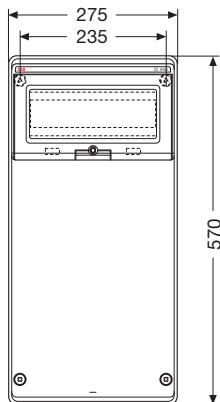
13 200



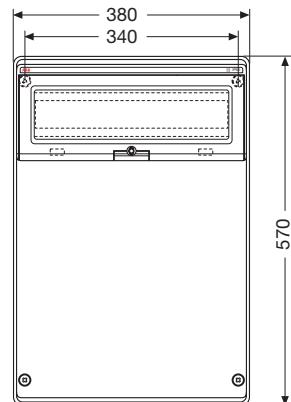
13 204



13 205

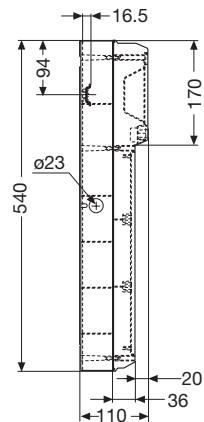


13 206

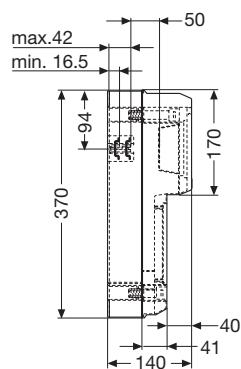


13 208

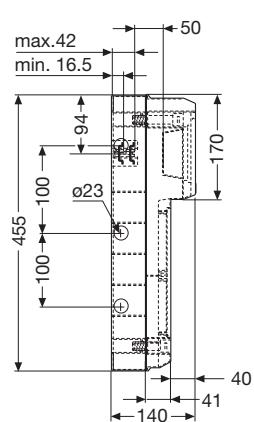
Side view



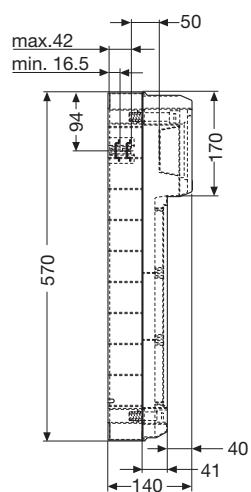
13 200



13 204



13 205

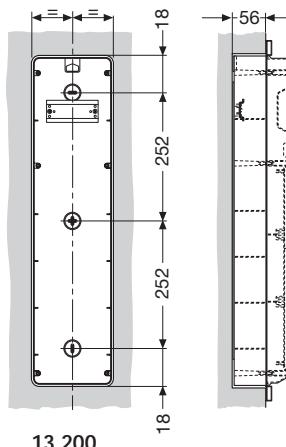


13 206 - 13 208

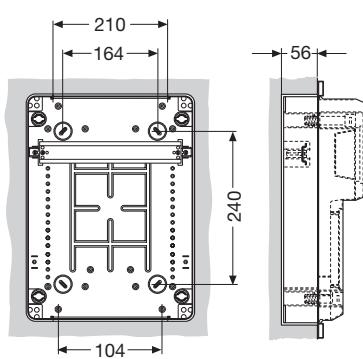
Overall dimensions

Switchboards for industrial applications with blank front

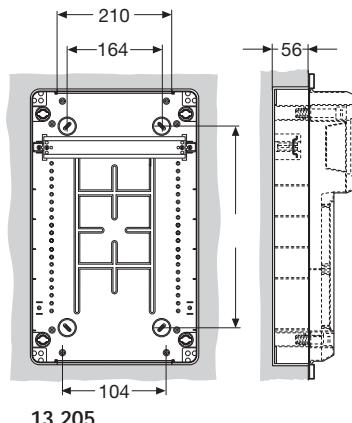
Drilling sheets



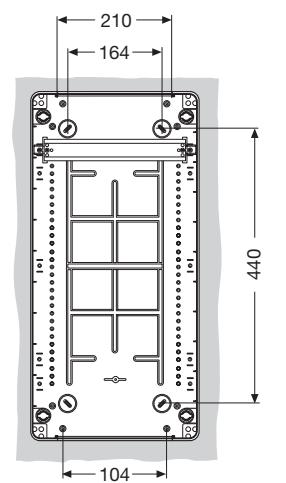
13 200



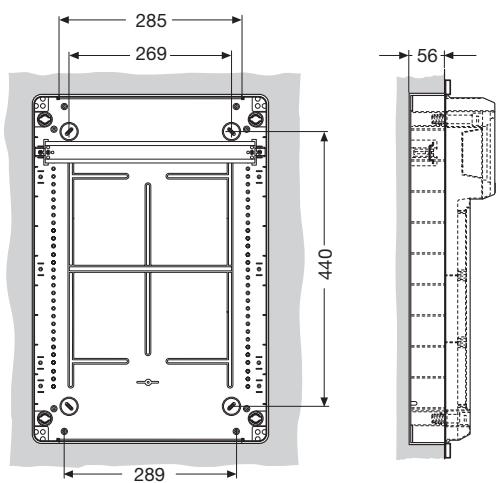
13 204



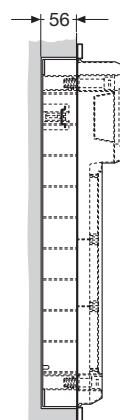
13 205



13 206



13 208

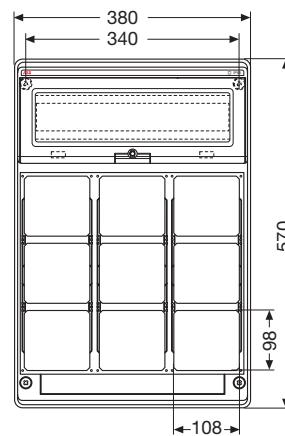
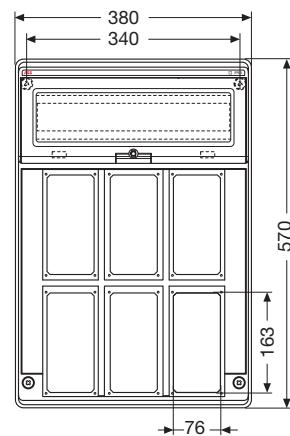
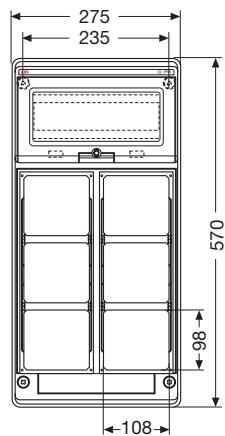
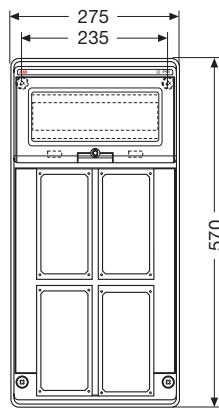
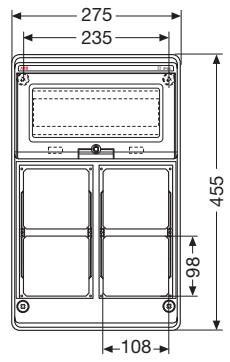
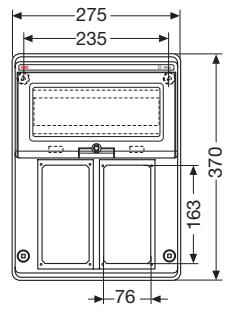
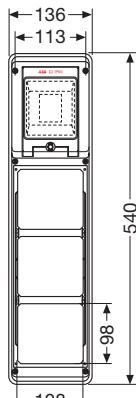


13 206
13 208

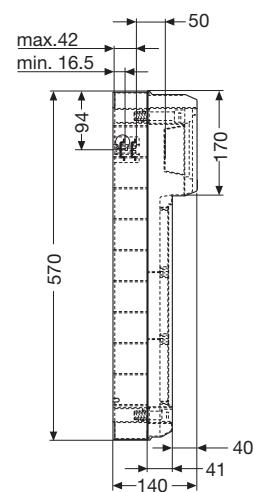
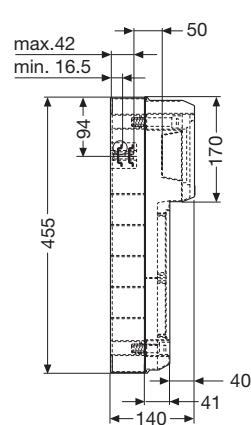
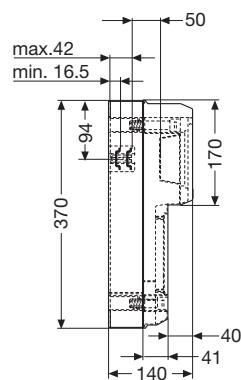
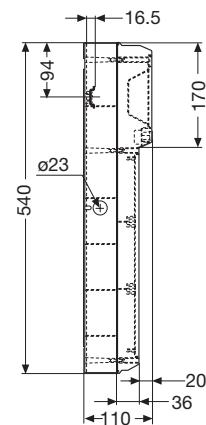
Overall dimensions

Marostica Series modular switchboards

Front view



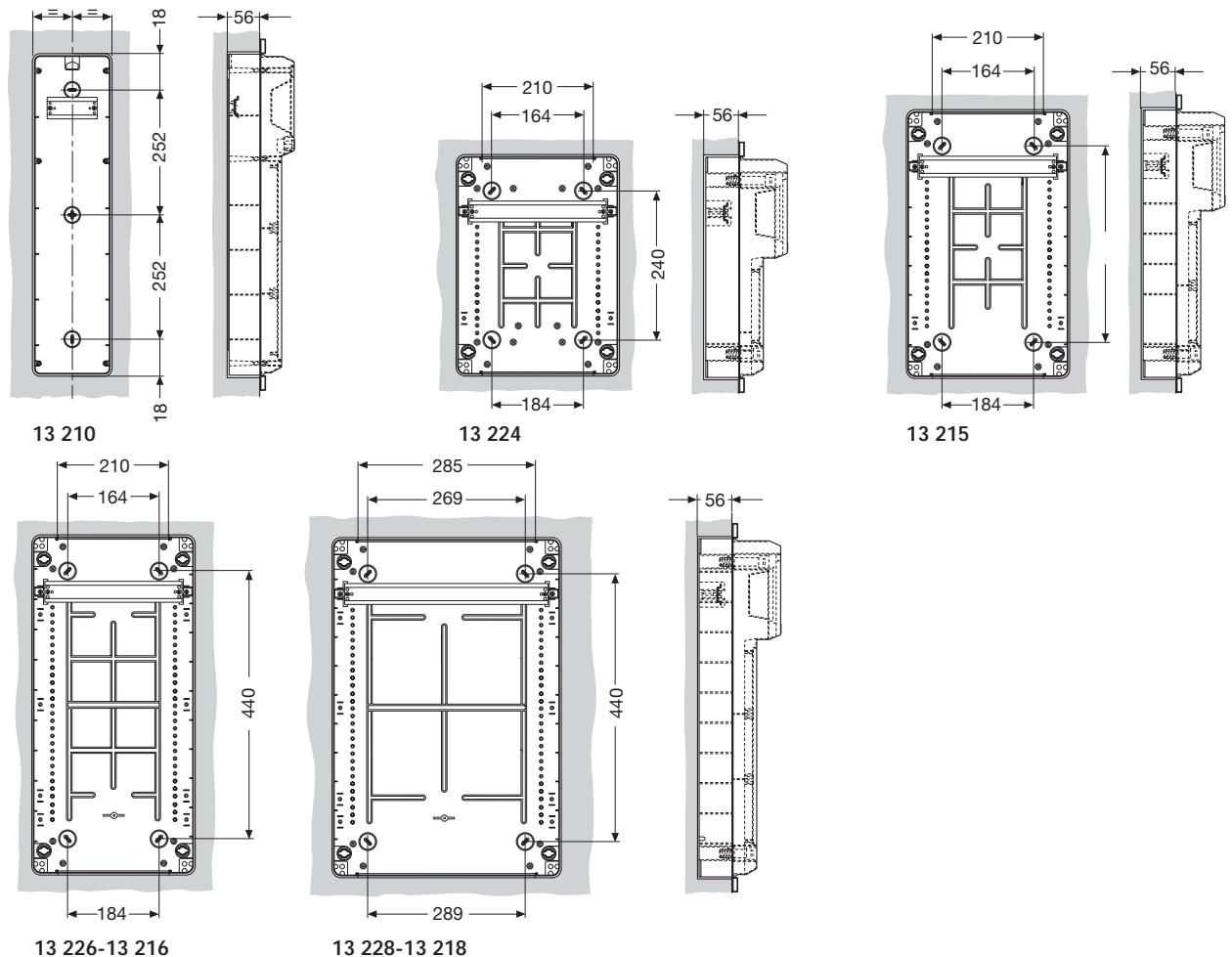
Side view



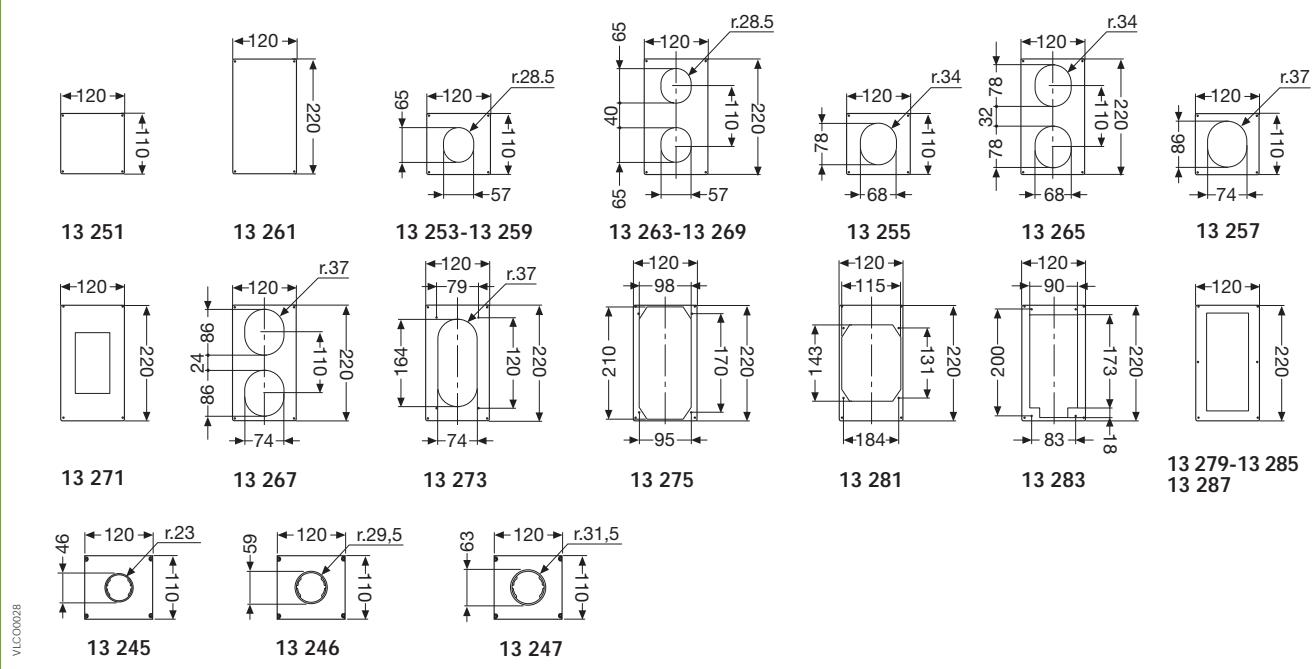
Overall dimensions

Marostica Series modular switchboards

Drilling sheets



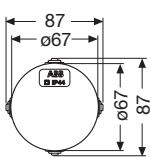
Plates for switchboards



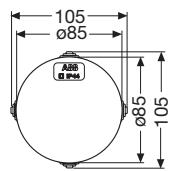
Overall dimensions

IP 44 and IP 55 junction boxes

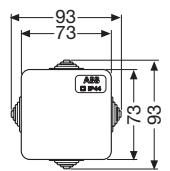
Front view



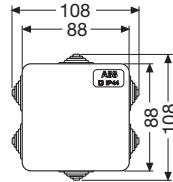
00 800



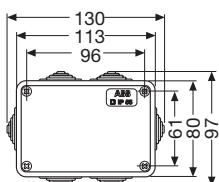
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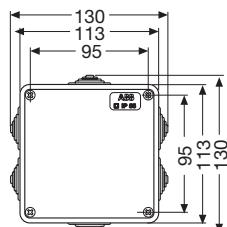
00 808



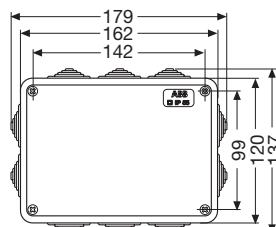
00 810



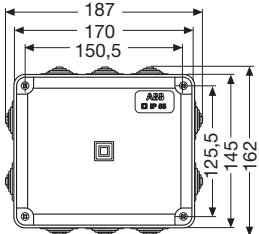
00 820 - 00 850



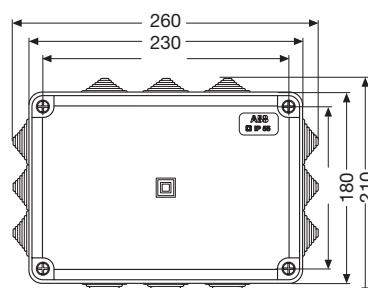
00 816 - 00 821
00 846 - 00 851



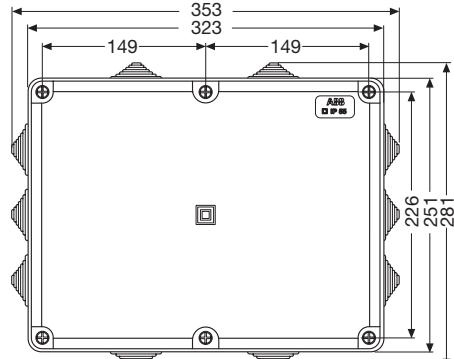
00 822 - 00 852 - 00 872



00 830 - 00 824 - 00 874
00 854 - 00 860 - 00 880

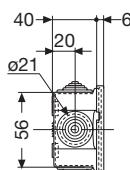


00 826 - 00 832 - 00 876
00 856 - 00 862 - 00 884

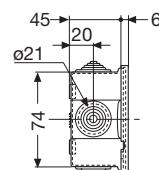


00 828 - 00 834 - 00 878
00 858 - 00 864 - 00 884

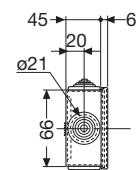
Side view



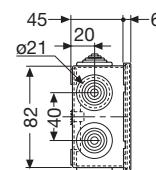
00 800



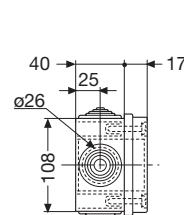
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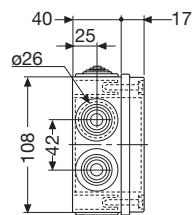
00 808



00 810



00 820 - 00 850

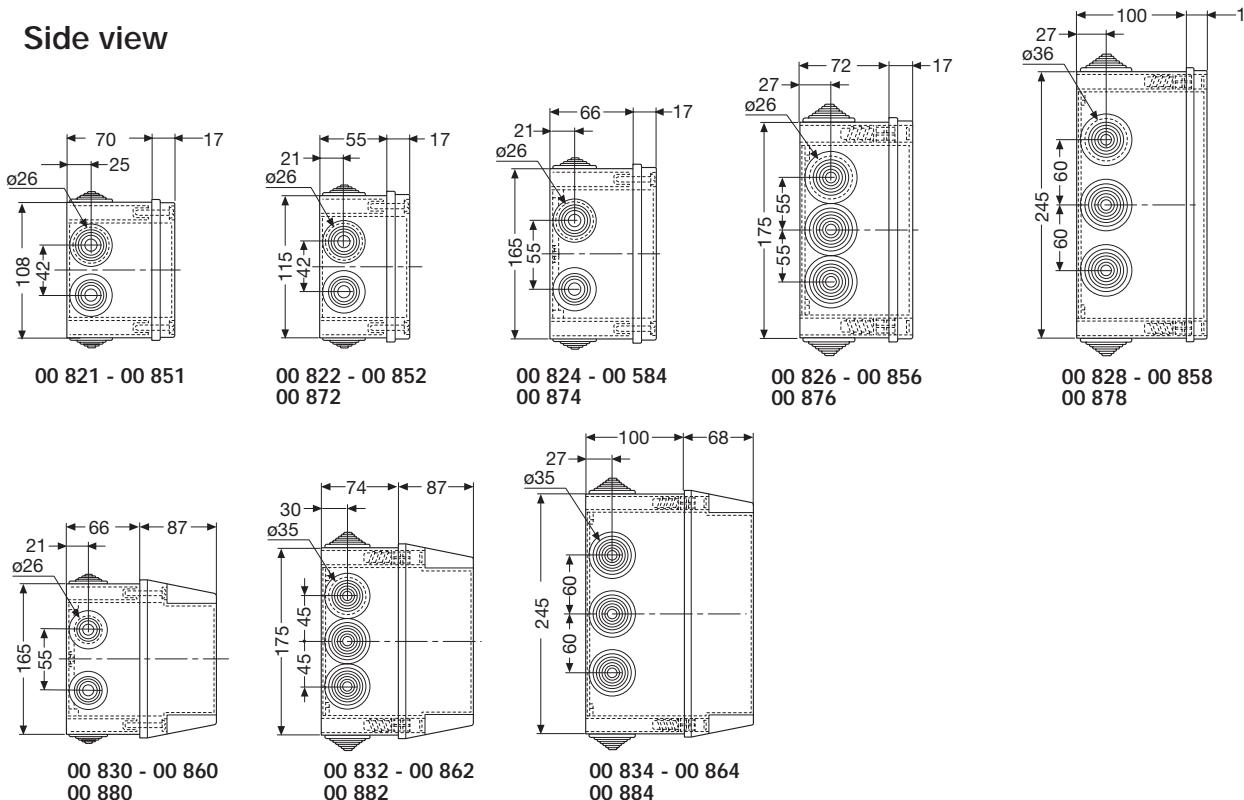


00 816 - 00 846

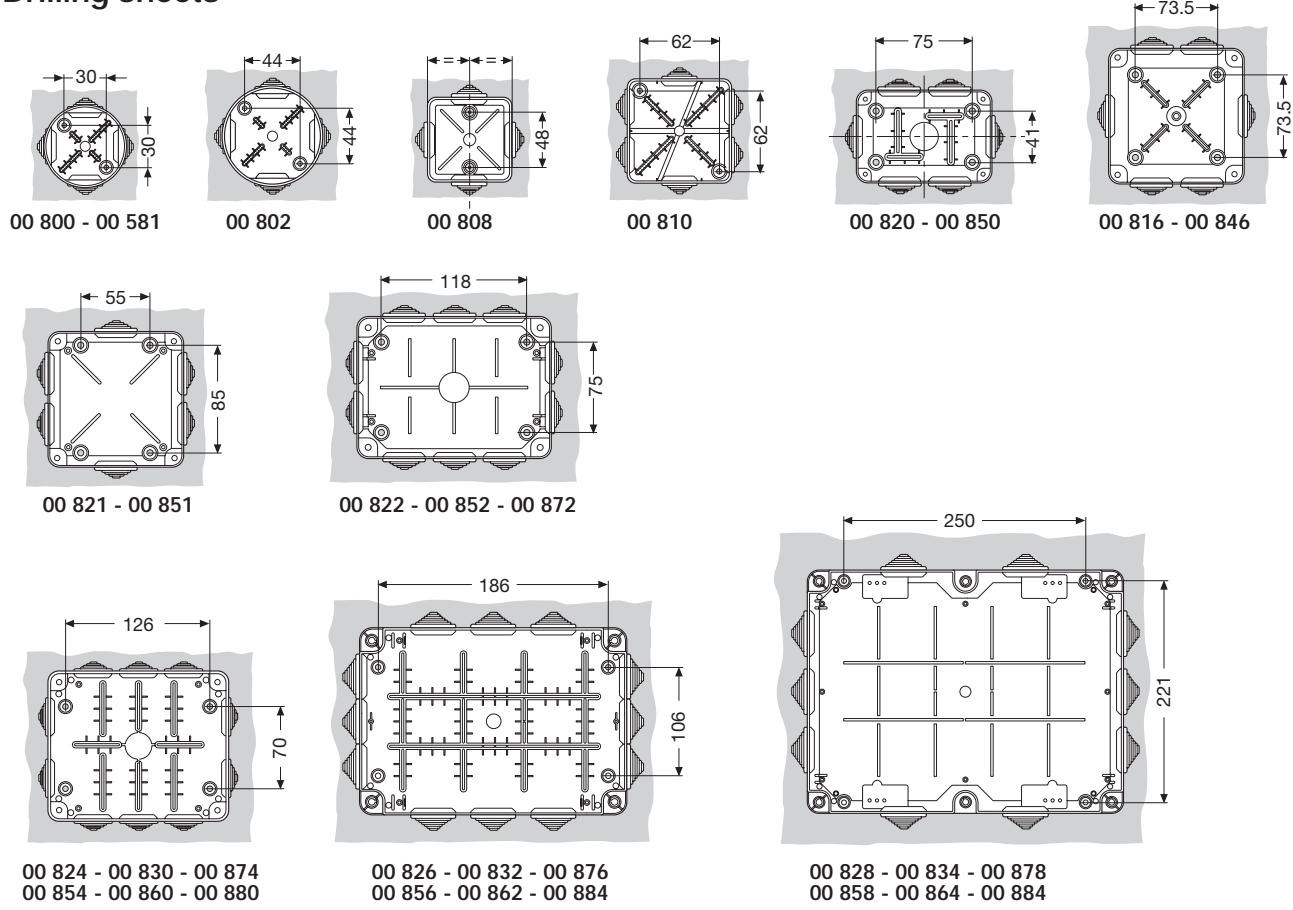
Overall dimensions

IP 44 and IP 55 junction boxes

Side view



Drilling sheets

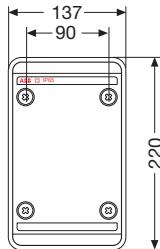


VLC00030

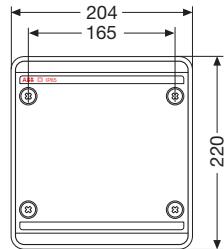
Overall dimensions

IP 65 polycarbonate junction boxes

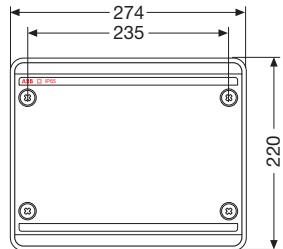
Front view



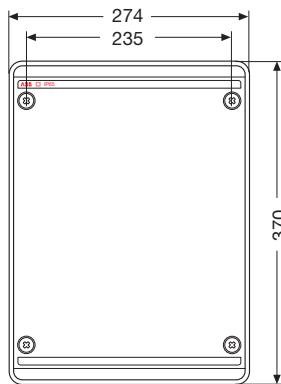
12 804



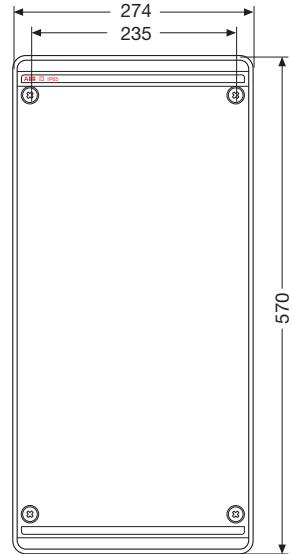
12 808



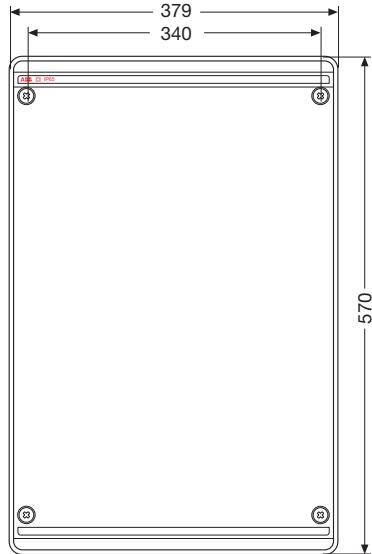
12 812



12 814

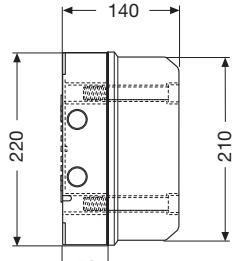


12 816

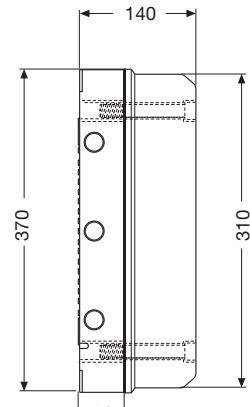


12 818

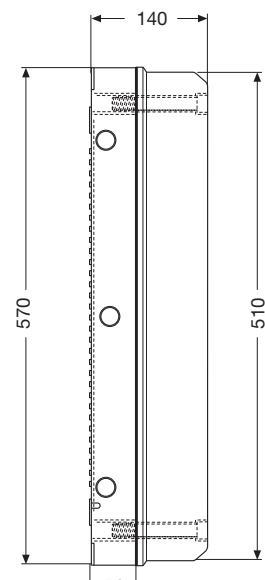
Side view



12 804-12 808-12 812



12 814

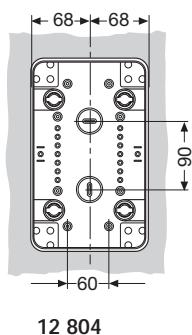


12 816-12 818

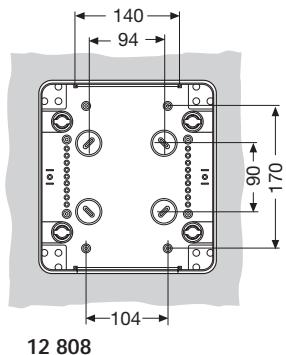
Overall dimensions

IP 65 polycarbonate junction boxes

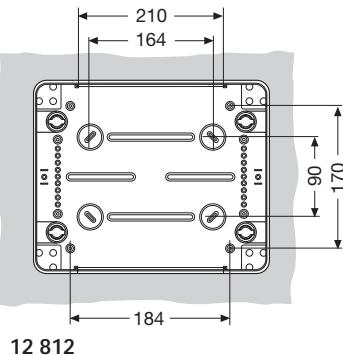
Drilling sheets



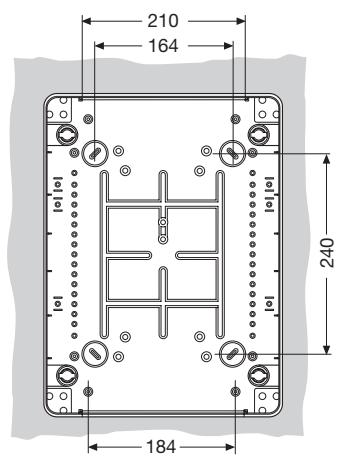
12 804



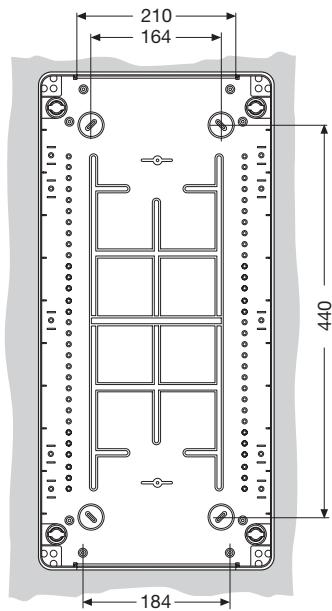
12 808



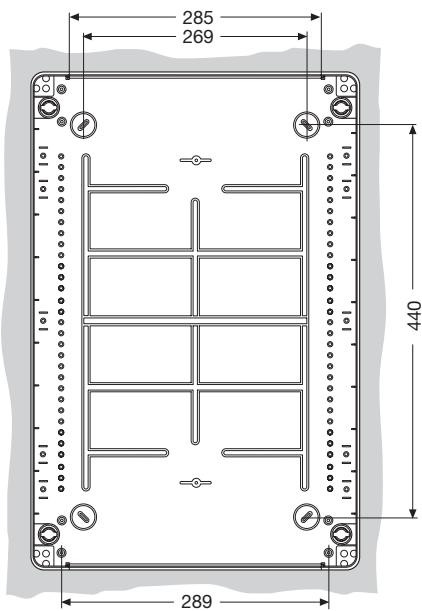
12 812



12 814



12 816

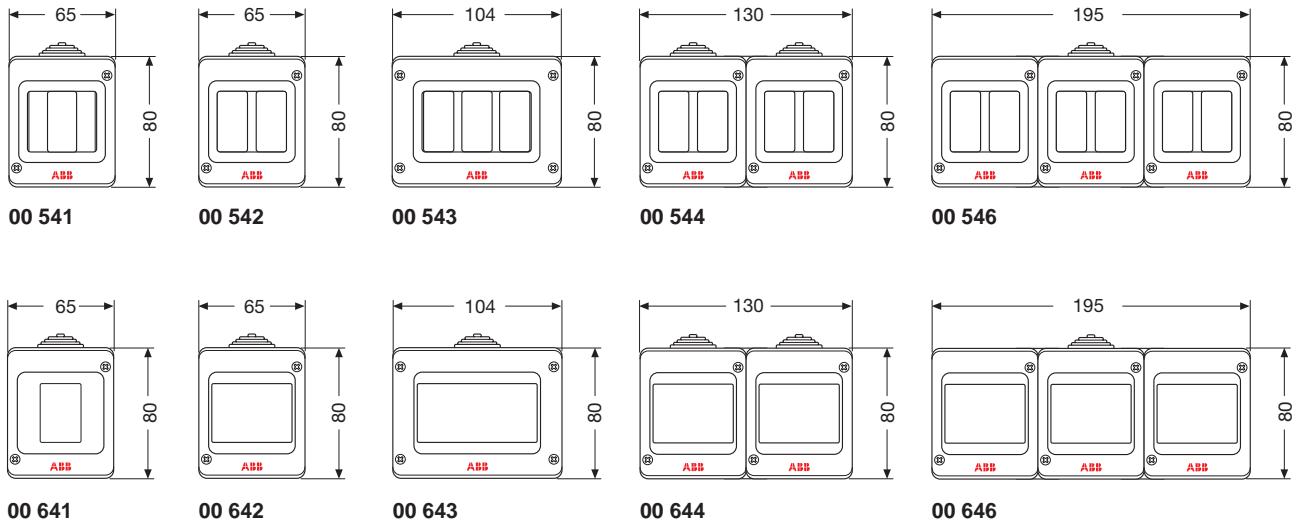


12 818

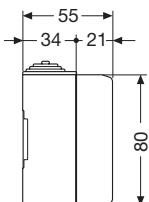
Overall dimensions

IP 40 and IP 55 equipment and empty enclosures

Front view

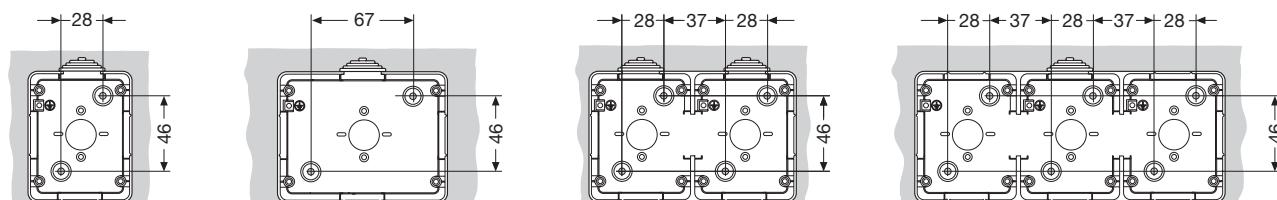


Side view



00 541 - 00 542
00 543 - 00 544
00 546 - 00 641
00 642 - 00 643
00 644 - 00 646

Drilling sheets



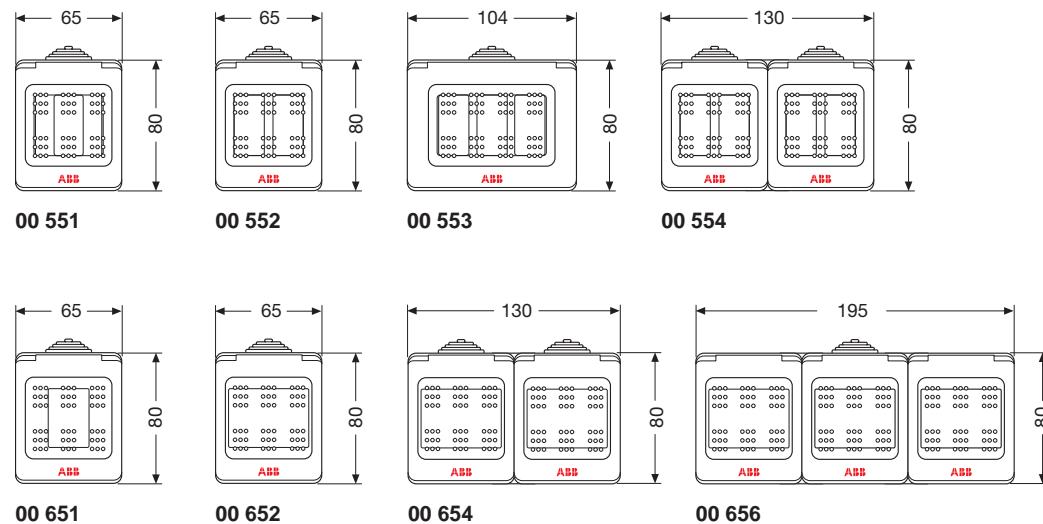
00 541 - 00 542
00 543 - 00 643
00 544 - 00 644
00 546 - 00 646

N.B. IP 40 - 00 500 - 00 501 - 00 502 - 00 503 - 00 504 - 00 505 - 00 510 - 00 511 - 00 512 - 00 513 articles are composed of Vimar wiring accessories installed in 1/2 compartment empty enclosures.

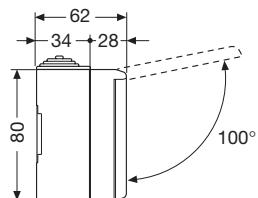
Overall dimensions

IP 40 and IP 55 equipment and empty enclosures

Front view

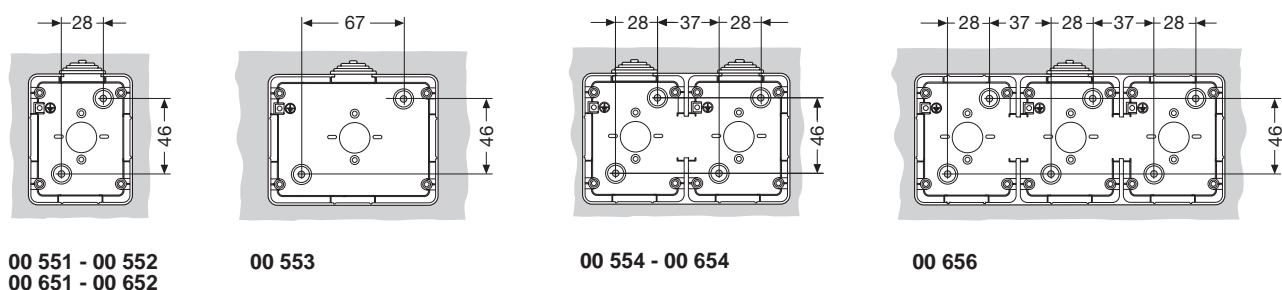


Side view



00 551 - 00 552
00 553 - 00 554
00 651 - 00 652
00 654 - 00 656

Drilling sheets

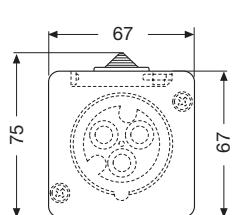


N.B. IP 55 - 00 520 - 00 521 - 00 522 - 00 523 - 00 524 - 00 525 - 00 530 - 00 531 - 00532 - 00 533
articles are composed of Vimar wiring accessories installed in 1/2 compartment empty enclosures.

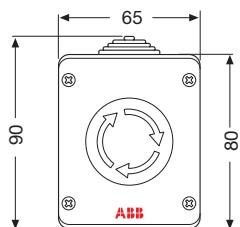
Overall dimensions

Various components

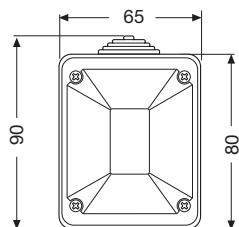
Front view



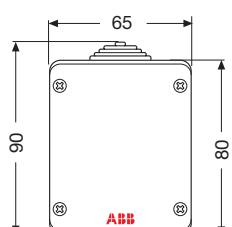
00 562 - 00 564



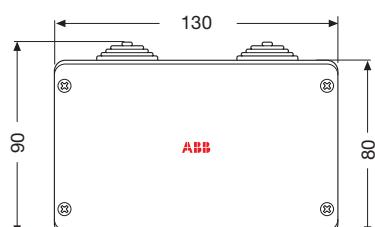
00 770 - 00 771



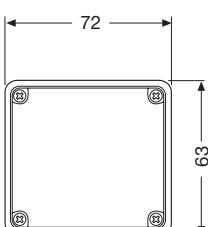
00 570 - 00 572
00 573



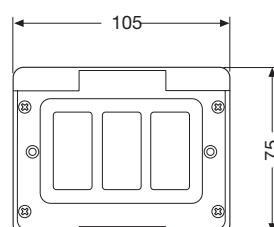
00 580



00 581

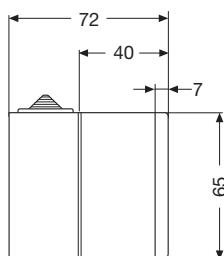


00 583

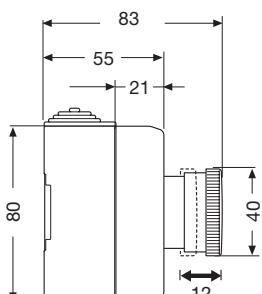


00 578 - 00 579

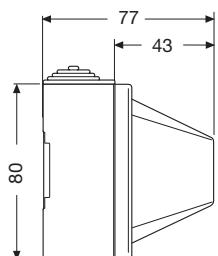
Side view



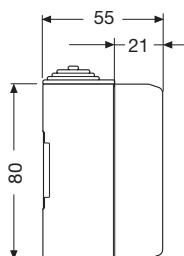
00 562 - 00 564



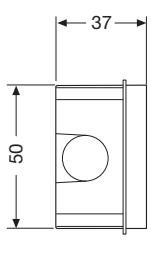
00 770 - 00 771



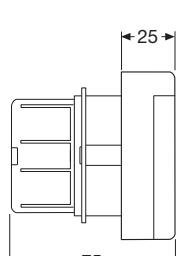
00 570 - 00 572
00 573



00 580 - 00 581



00 583

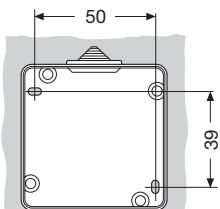


00 578 - 00 579

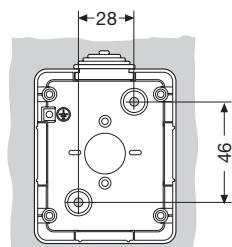
Overall dimensions

Various components

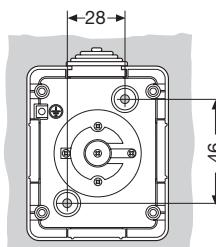
Drilling sheets



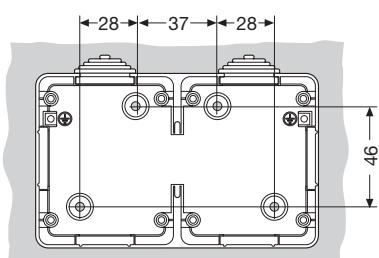
00 562 - 00 564



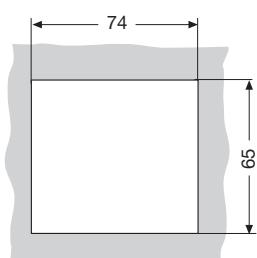
00 770 - 00 771
00 580



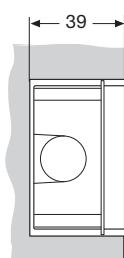
00 570 - 00 572
00 573



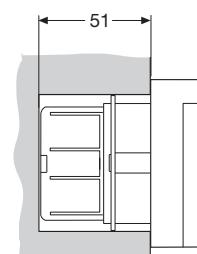
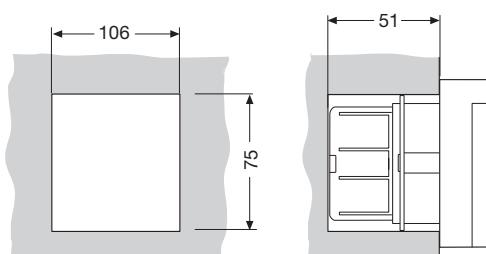
00 581



00 583



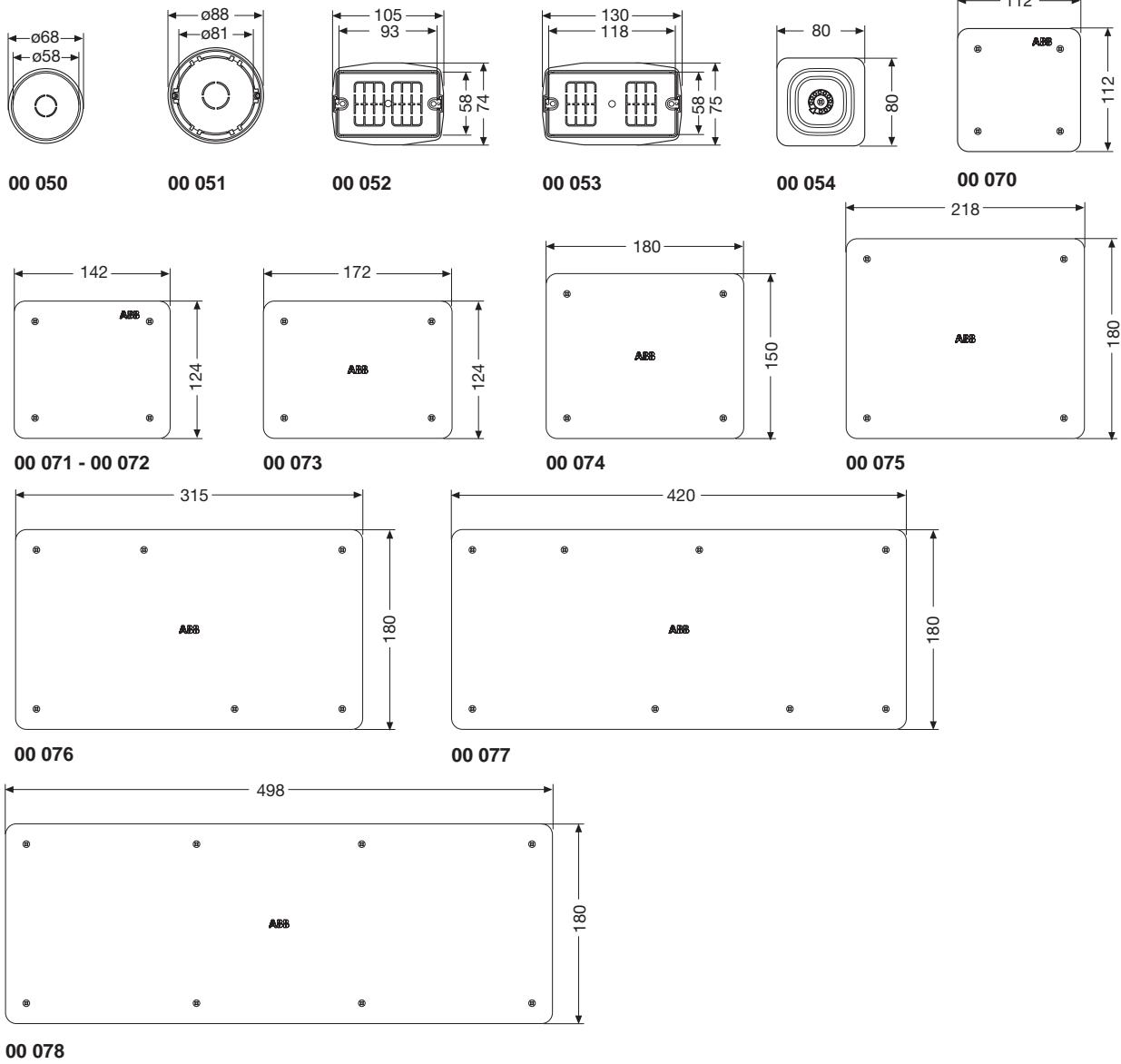
00 578 - 00 579



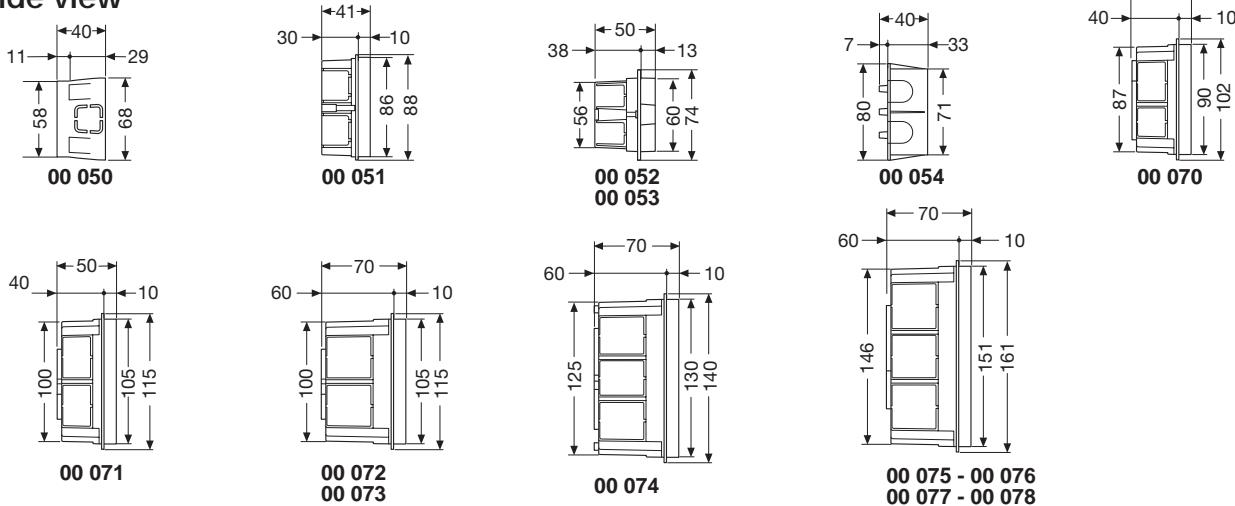
Overall dimensions

Wiring accessories and junction boxes in thermoplastic material

Front view



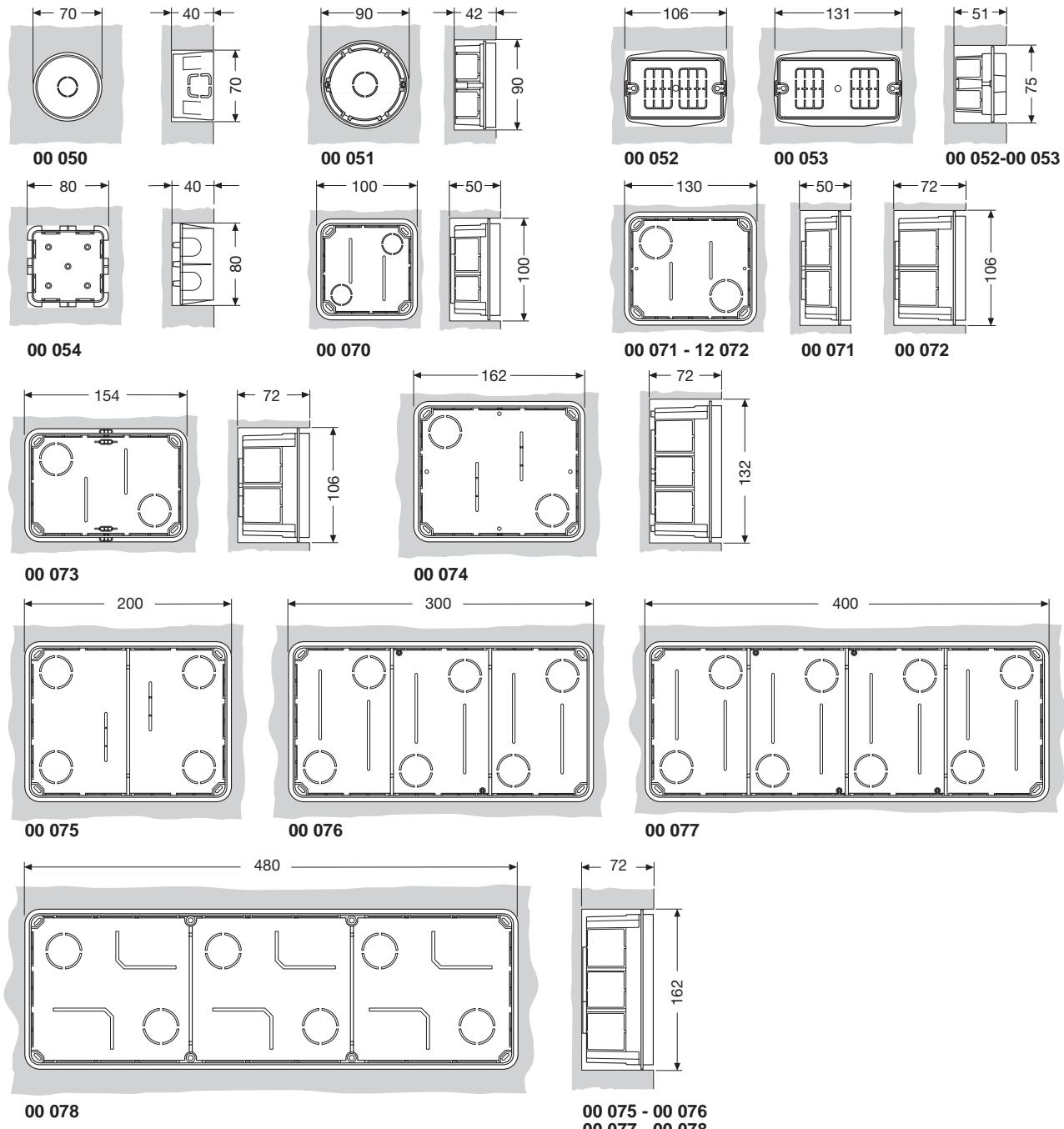
Side view



Overall dimensions

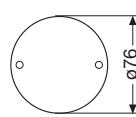
Wiring accessories and junction boxes in thermoplastic material

Drilling sheets



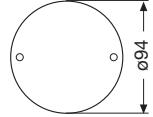
Covers

For box ø 65



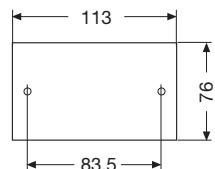
00 055

For box ø 85



00 056

For box/interaxis 83,5



00 059

Spare covers

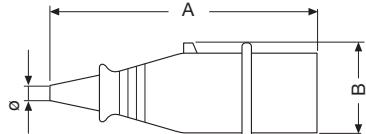
article	A	B
00 091	110	110
00 092	140	125
00 093	170	125
00 094	180	150
00 095	220	182
00 096	320	182
00 097	425	182
00 098	500	182

Overall dimensions

Sockets and plugs in compliance with IEC 309-1 Standard

Movable plugs

IP 44



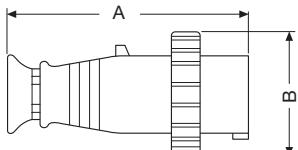
16 A

		A	B	\varnothing
13 559-13 561	(1)	139	59	10
13 562-13 563	(2)	145	66,5	10
13 564-13 571				
13 567-13 572	(3)	163	74,5	13

32 A

		A	B	\varnothing
13 573-13 565	(1)	185	78,5	13
13 574-13 568	(2)	185	78,5	13
13 561-13 575				
13 570-13 576	(3)	185	87	13

IP 67



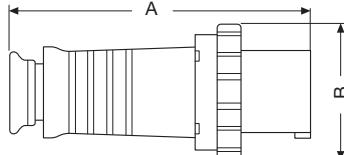
16 A

		A	B
13 577-13 581	(1)	133	70
13 578-13 583	(2)	139	77
13 584-13 579			
13 587-13 580	(3)	147,5	87

32 A

		A	B
13 582-13 585	(1)	169,5	93
13 586-13 588	(2)	169,5	93
13 589-13 591			
13 590-13 592	(3)	169,5	100

IP 67

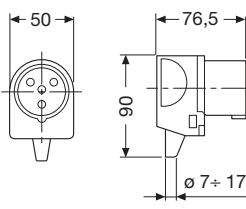


63 A

		A	B
13 594	(1)	248	114
13 595-13 597	(2)	248	114
13 596-13 598	(3)	248	114

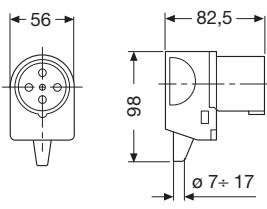
Movable angled plugs

2P+T



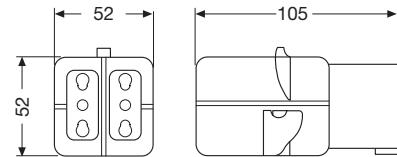
13 901

3P+T



13 903-13 904

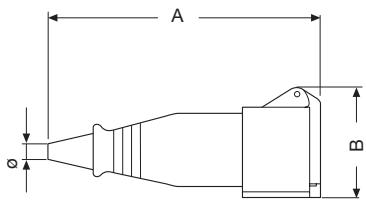
Industrial/residential adapters



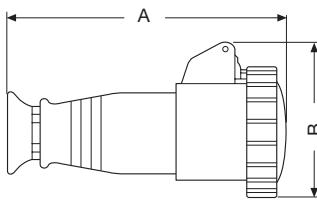
13 908-13 909-13 910

Movable sockets

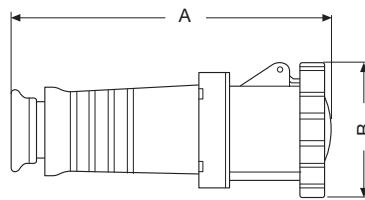
IP 44



IP 67



IP 67



16 A

		A	B	\varnothing
13 539-13 541	(1)	149	69,5	10
13 542-13 543	(2)	155,5	76	10
13 544-13 551				
13 547-13 552	(3)	174	83,5	13

32 A

		A	B	\varnothing
13 553-13 545	(1)	196	86	13
13 555				
13 554-13 548	(2)	196	86	13
13 549				
13 550-13 556	(3)	196	92,5	13

16 A

		A	B
13 599-13 601	(1)	149	82
13 600-13 603	(2)	155,5	85
13 604-13 619			
13 607-13 620	(3)	164,5	94

32 A

		A	B
13 602-13 605	(1)	184	97
13 606-13 608	(2)	184	97
13 609-13 611			
13 610-13 612	(3)	184	102

63 A

		A	B
13 614	(1)	265	110
13 615-13 617	(2)	265	110
13 616-13 618	(3)	265	110

Note:

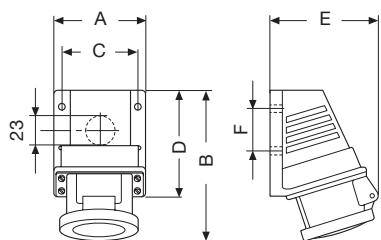
- (1) = 2 poles + earth
- (2) = 3 poles + earth
- (3) = 3 poles + neutral + earth

Overall dimensions

Sockets and plugs in compliance with IEC 309-1 Standard

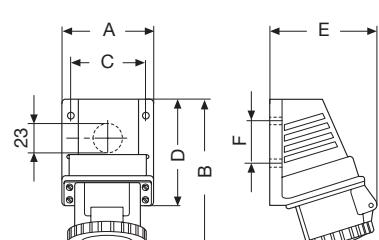
Angled wall sockets

IP 44

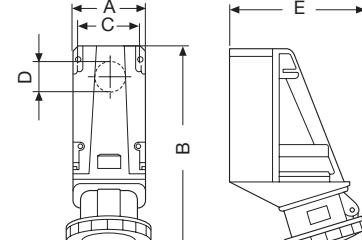


16 A	A	B	C	D	E	F
13 451-13 461 (1)	70	131	59	82	92	33
13 452-13 463 (2)	70	131	59	82	92	33
13 464-13 453						
13 467-13 454 (3)	81	150	69	100	101	47
32 A	A	B	C	D	E	F
13 455-13 465 (1)	70	131	59	82	92	33
13 456-13 468 (2)	70	131	59	82	92	33
13 469-13 457						
13 470-13 458 (3)	81	150	69	100	101	47

IP 67



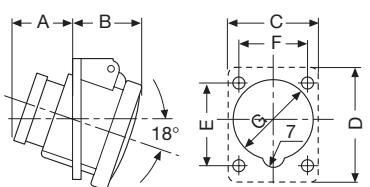
16 A	A	B	C	D	E	F
13 477-13 481 (1)	70	132	59	82	92	33
13 478-13 483 (2)	70	132	59	82	92	33
13 484-13 479						
13 487-13 480 (3)	81	152	69	100	101	47
32 A	A	B	C	D	E	F
13 482-13 485 (1)	81	161	69	100	104	47
13 486-13 488 (2)	81	161	69	100	104	47
13 489-13 491						
13 490-13 492 (3)	81	162	69	100	106	47



63 A	A	B	C	D	E
13 494 (1)	104	255	88	38	180
13 495-13 497 (2)	104	255	88	38	180
13 496-13 498 (3)	104	255	88	38	180

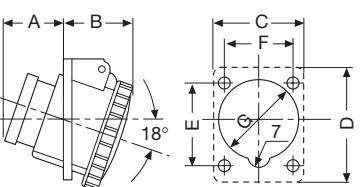
Angled switchboard sockets

IP 44

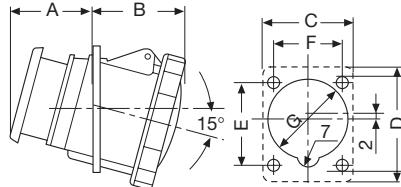


16 A	A	B	C	D	E	F	G
13 499-13 501 (1)	36	45	65	85	60	52	54
13 502-13 503 (2)	36	47	65	85	60	52	58
13 504-13 511							
13 507-13 512 (3)	36	49	90	100	85	77	70
32 A	A	B	C	D	E	F	G
13 513-13 505 (1)	47	54	90	100	85	77	70
13 514-13 508 (2)	47	54	90	100	85	77	70
13 509-13 515							
13 510-13 516 (3)	47	58	90	100	85	77	75

IP 67



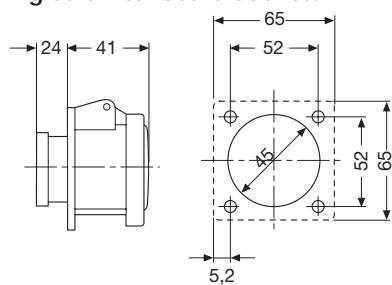
16 A	A	B	C	D	E	F	G
13 517-13 521 (1)	36	45	65	85	60	52	54
13 518-13 523 (2)	36	47	65	85	60	52	58
13 524-13 519							
13 527-13 520 (3)	36	49	90	100	85	77	70
32 A	A	B	C	D	E	F	G
13 522-13 525 (1)	47	54	90	100	85	77	70
13 526-13 528 (2)	47	54	90	100	85	77	70
13 529-13 531							
13 530-13 532 (3)	47	58	90	100	85	77	75



63 A	A	B	C	D	E	F	G
13 534 (1)	56	73	100	107	85	77	82
13 535-13 537 (2)	56	73	100	107	85	77	82
13 536-13 538 (3)	56	73	100	107	85	77	82

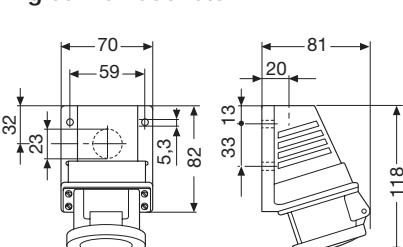
Ultra-low voltage sockets and plugs

Angled switchboard sockets



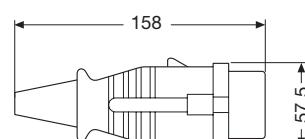
13 420-13 421-13 422-13 423
13 424-13 425-13 426-13 427

Angled wall sockets



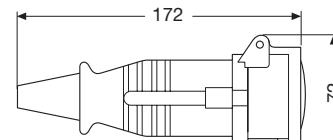
13 430-13 431-13 432-13 433
13 434-13 435-13 436-13 437

Movable plugs



13 400-13 401-13 402-13 403
13 404-13 405-13 406-13 407

Movable sockets



13 410-13 411-13 412-13 413
13 414-13 415-13 416-13 417

Note:

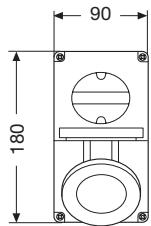
- (1) = 2 poles + earth
- (2) = 3 poles + earth
- (3) = 3 poles + neutral + earth

Overall dimensions

Safety sockets in compliance with IEC 309-1 Standard

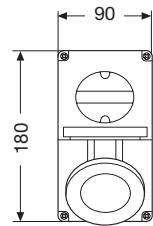
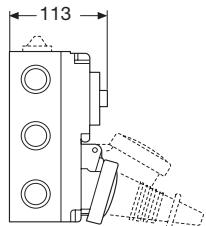
IP 44 and IP 66 vertical sockets with locking switch

External sockets

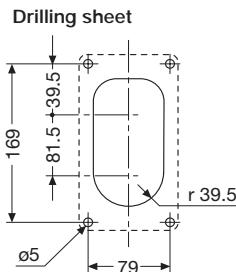


13 641-13 644-13 647-13 649
13 651-13 654-13 657-13 659
13 681-13 684-13 687-13 689
13 691-13 694-13 697-13 699

Flush-mounting sockets

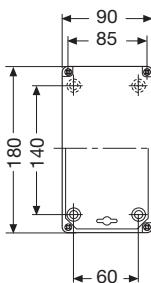


13 621-13 624-13 627-13 629
13 631-13 634-13 637-13 639
13 661-13 664-13 667-13 669
13 671-13 674-13 677-13 679



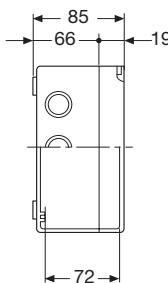
Accessories for IP 44 and IP 66 vertical sockets with locking switch

IP 55 junction box



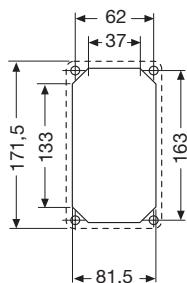
13 878

Flush-mounting box

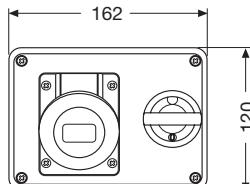


13 881

Drilling sheet

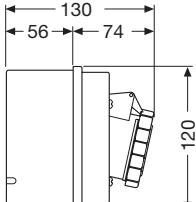


Horizontal sockets with locking switch



IP 44

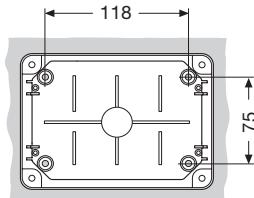
13 642 - 13 645 - 13 648 - 13 650
13 652 - 13 655 - 13 658 - 13 660



IP 55

13 682 - 13 685 - 13 688 - 13 690
13 692 - 13 695 - 13 698 - 13 700

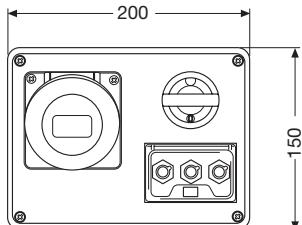
Drilling sheet



Overall dimensions

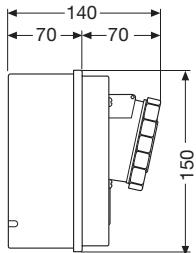
Safety sockets in compliance with IEC 309-1 Standard

Horizontal sockets with locking switch and fuse-holder



IP 44

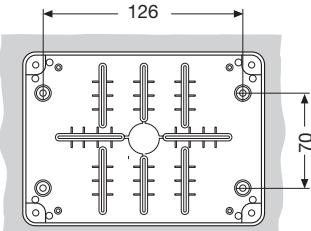
13 702 - 13 705 - 13 708 - 13 710
13 712 - 13 715 - 13 718 - 13 720



IP 55

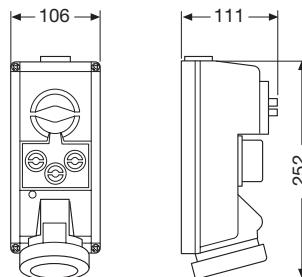
13 732 - 13 735 - 13 738 - 13 740
13 742 - 13 745 - 13 748 - 13 750

Drilling sheet

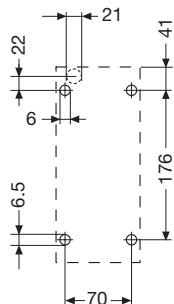


IP 44 and IP 65 sockets with locking switch and fuse-holder

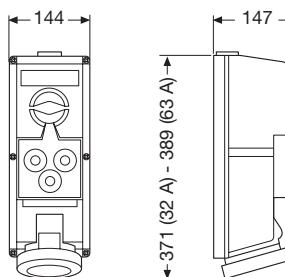
IP 44 - (16 A)



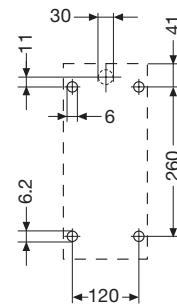
13 701 - 13 704
13 707 - 13 709



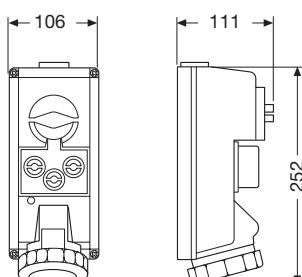
IP 44 - (32 A - 36 A)



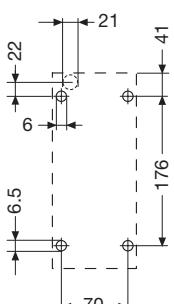
13 711 - 13 714 - 13 717 - 13 719
13 721 - 13 722 - 13 723



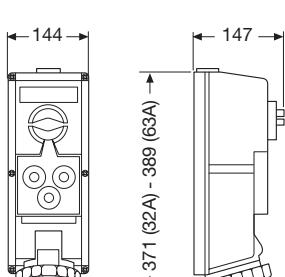
IP 55 - (16 A)



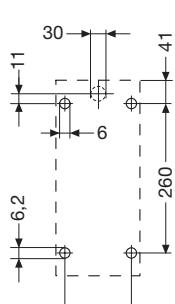
13 731 - 13 734
13 737 - 13 739



IP 55 - (32 A - 63 A)



13 741 - 13 744 - 13 747 - 13 749
13 724 - 13 725 - 13 726

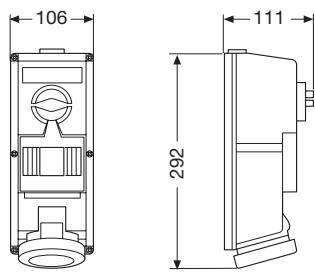


Overall dimensions

Safety sockets in compliance with IEC 309-1 Standard

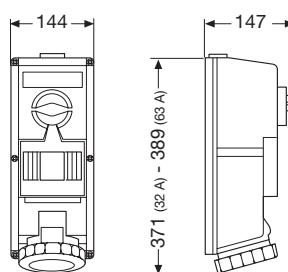
IP 44 and IP 65 sockets with locking switch and DIN EN 50022 rail

IP 55 - (16 A)



13 761 - 13 764
13 767 - 13 769

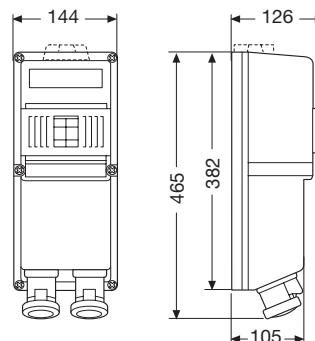
IP 55 - (32 A - 63 A)



13 771 - 13 774 - 13 777 - 13 779
13 727 - 13 728 - 13 729

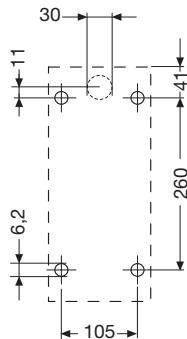
Ultra-low voltage sockets with safety transformer

IP 44

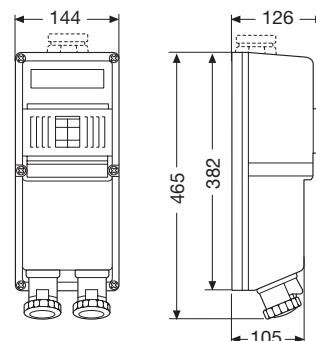


13 921 - 13 922 - 13 923 - 13 924

Drilling sheet

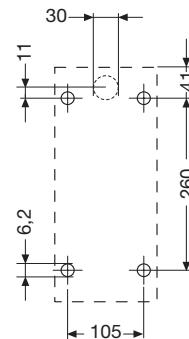


IP 55



13 927 - 13 928 - 13 929 - 13 930

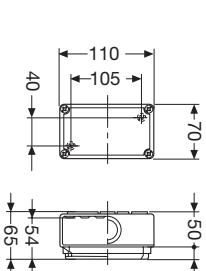
Drilling sheet



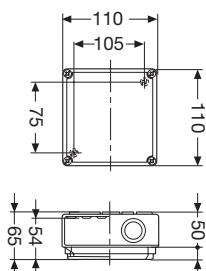
Overall dimensions

Safety sockets in compliance with IEC 309-1 Standard

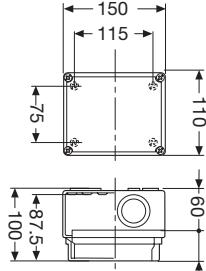
Junction boxes for modular panels



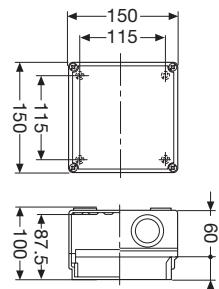
13 860



13 861

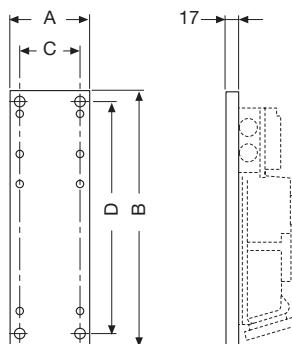


13 862 - 13 863



13 864

Modular panels



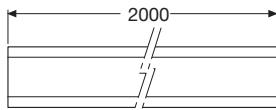
	A	B	C
13 800	388	81	367
13 801	535	81	514
13 802	535	121	514

Overall dimensions

Installation material

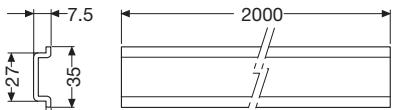
Metal rails

CENELEC-EN 50022 h7.5 rail



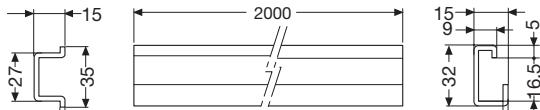
article
12 839

CENELEC-EN 50022 h15 rail



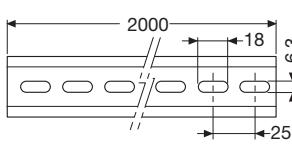
article
12 840

CENELEC-EN 50035 rail



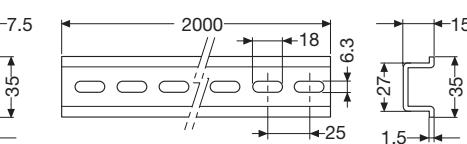
article
12 841

CENELEC-EN 50022 h7.5 rail with holes



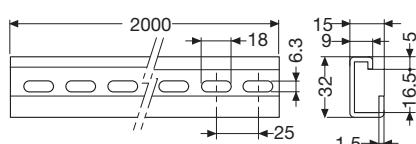
article
12 849

CENELEC-EN 50022 h15 rail with holes



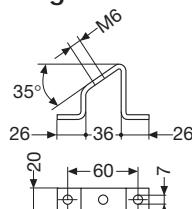
article
12 850

CENELEC-EN 50035 rail with holes



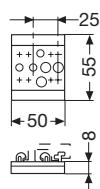
article
12 853

Supporting bracket for metal rails



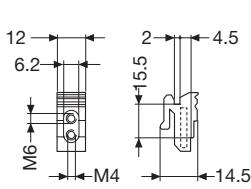
article
12 892

Plastic base for wiring ducts



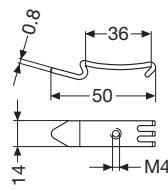
article
05 210

Universal plastic connector

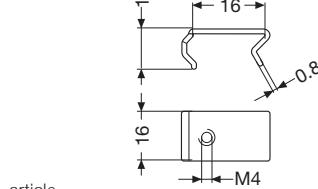


article
12 893

Universal metal connectors

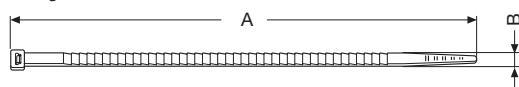


article
12 828



article
12 829

Polyamide cable-ties



		A	B	ø tightening min.	max.
transparent polyamide	black polyamide				
18 010	18 110	100	2,5	2	24
18 013	18 113	160	2,5	2	42
18 012	18 112	140	3,5	2,5	36
18 011	18 111	135	2,5	2	35
18 014	18 114	200	3,5	2,5	55
18 015	18 115	180	4,5	3	45
18 017	18 117	280	3,5	2,5	80
18 018	18 118	280	4,5	5	76
18 020	18 120	360	4,5	5	101
18 024	18 124	200	7,5	5	51
18 026	18 126	280	7,5	5	76
18 034	18 134	430	9	5	110

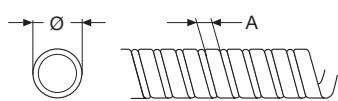
		A	B	ø tightening min.	max.
transparent polyamide	black polyamide				
18 036	18 136	550	9	5	140
18 038	18 138	780	9	5	190
18 028	18 128	360	7,5	5	102

		A	B	ø tightening min.	max.
black polyamide					
18 210		115	6	5	20
18 212		175	6	10	40
18 218		115	9	5	20
18 220		180	9	10	45
18 222		265	9	15	70
18 224		360	9	25	100

Overall dimensions

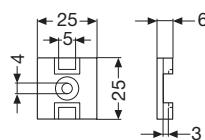
Installation material

Spirals



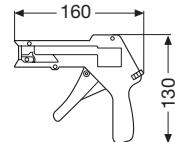
transparent polyethylene	self-extinguishing polyethylene	Ø	x	A
18 370	18 380	3		5
18 372	18 382	6		8
18 374	18 384	10		11
18 376	18 386	12		13

Self-adhesive supports for cable-ties



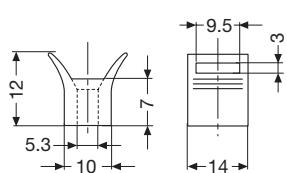
transparent base	black base
18 250	18 251

Pincer for cable-ties



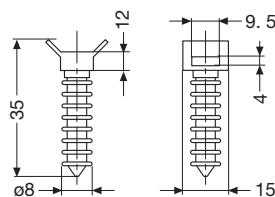
article
18 270

Screw support for external cable-ties



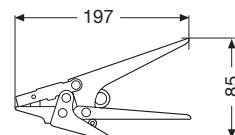
article
18 280

Pivot support for external cable-ties



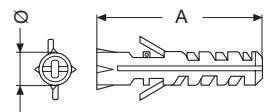
article
18 282

Pincer for external cable-ties



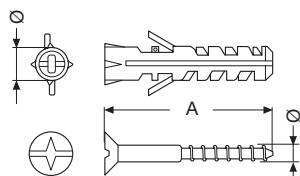
article
18 290

Wall plugs



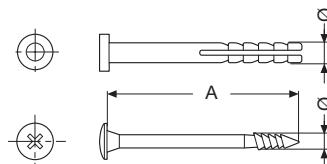
article	Ø	x	A
18 405	5		25
18 406	6		30
18 408	8		40
18 410	10		50

Wall plugs with screws



article	wall plug Ø	screw Ø x A
18 415	5	3,5 25
18 416	6	4 30
18 418	8	5 40
18 420	10	6 50

Wall plugs with nail/screw

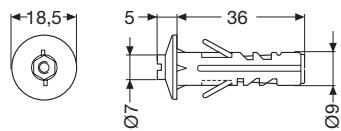


article	wall plug Ø	nail/screw Ø x A
18 430	5	3,5
18 432	6	4
18 434	6	4
18 436	8	5
18 440	8	5

Overall dimensions

Installation material

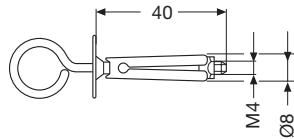
Wall plugs with hooks



article

18 450 - 18 452 - 18 454 - 18 456 - 18 548

Stainless-steel wall plugs with hooks

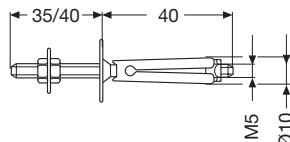


article

18 460 - 18 461 - 18 464 - 18 465 - 18 466

18 467 - 18 470 - 18 471 - 18 472 - 18 473

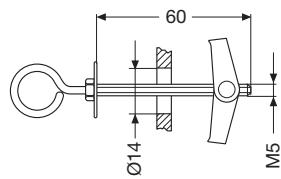
Stainless-steel wall plugs with hooks



article

18 476 - 18 477 - 17 478 - 18 479

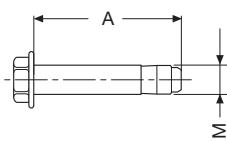
Stainless-steel wall anchors



article

18 490 - 18 492 - 17 494 - 18 496

Screws with stainless-steel wall plugs



article

18 486

M x A

18 487

8 x 55

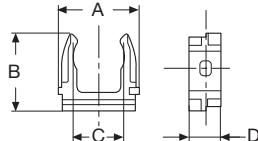
18 488

10 x 60

18 489

10 x 70

Snap-on conduit holders



article **A** **B** **C** **D**

05 700

29

26

16

10

05 701

33

28

20

12

05 702

35

32

25

12

05 703

50

42

32

14

05 704

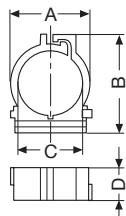
55

50

40

14

Collar conduit holders



article

05 720 **A** **B** **C** **D**

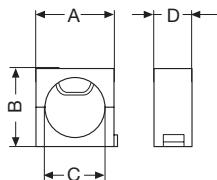
29 **26** **16** **10**

05 721 **33** **28** **20** **12**

05 722 **35** **32** **25** **12**

05 723 **50** **42** **32** **14**

U-bolt conduit holders



article **A** **B** **C** **D**

05 694 **28** **29** **12-16** **17**

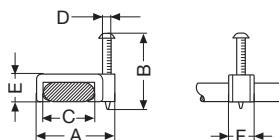
05 695 **35** **35** **16-25** **17**

05 696 **47** **47** **25-32** **17**

05 697 **56** **56** **32-40** **17**

05 698 **70** **70** **40-50** **17**

Strap holders



article **A** **B** **C** **D** **E** **F**

05 760 **11** **18** **6** **2** **3.5** **5.5**

05 761 **14** **18** **8** **2** **3.5** **7**

05 762 **17** **18** **11** **2** **5** **7.5**

05 763 **11** **18** **6** **2** **3.5** **5.5**

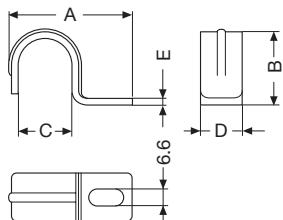
05 764 **14** **18** **8** **2** **3.5** **7**

05 765 **17** **18** **11** **2** **5** **7.5**

Overall dimensions

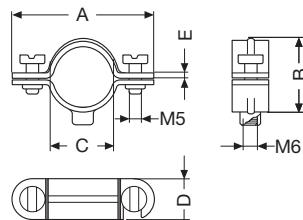
Installation material

Conduit clamps



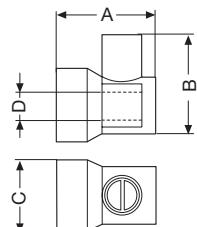
article	A	B	C	D	E
05 730	31	11,5	10	14	1.2
05 731	35	13	12	15	1.5
05 732	35	14	13	15	1.5
05 733	36	16	14	15	1.5
05 734	38	17	16	15	1.5
05 735	42	21	19-20	15	1.5
05 736	44	24	22	16	1.5
05 737	50	27	15-26	16	1.5
05 738	58	27	32	16	1.5
05 739	67	40	38	16	2
05 740	69	42	40	16	2
05 741	82	53	50	17	2

Conduit clamp collars



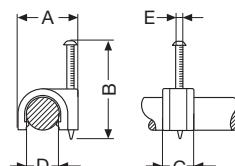
article	A	B	C	D	E
05 745	34	15	10	12	0.8
05 746	37	18	12	12	0.8
05 747	38	19	13	12	0.8
05 748	38	19	14	12	0.8
05 749	42	22	16	13	1.2
05 750	45	26	19-20	13	1.2
05 751	48	29	22	14	1.2
05 752	51	32	25-26	14	1.2
05 753	58	40	32	16	1.5
05 754	67	45	38	16	1.5
05 755	64	48	40	16	1.5
05 756	78	55	50	16	1.5

Insulated cable clamps



article	A	B	C	D
05 950	19.5	18.5	13.5	4.5
05 951	24	24	16.5	6.5
05 952	29	31	20.5	8

Cable holders

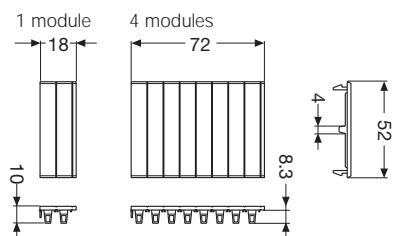


article	A	B	C	D	E
05 770-05 788	9.5	18	6	4	2
05 771-05 789	11.5	18	6	5	2
05 772-05 790	12	18	6	6	2
05 773-05 791	12	24	7.5	7	2
05 774-05 792	14	24	8.5	8	2
05 775-05 793	15	29	9.5	9	2
05 776-05 794	17	29	10	10	2
05 777-05 795	20	29	10	12	2
05 778-05 796	21	29	11	13	2
05 779	22	29	11	14	2
05 780	24	35	12	16	2
05 781	27	45	14	19-20	2.5
05 782	30	45	15	22	2.5
05 783	37	60	20	25-26	2.7
04 784	43	60	25,6	32	2.7

Overall dimensions

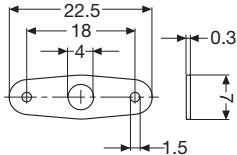
Accessories

Module covers



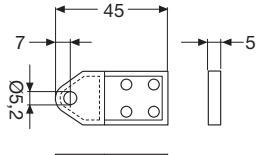
article	N. modules
12 857 - 12 895 - 12 861	1
12 859 - 12 896 - 12 893	4

Screw lead sealing accessory



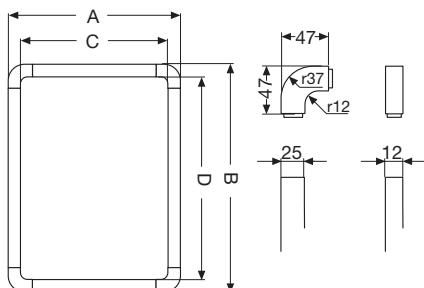
article
12 860

Brackets



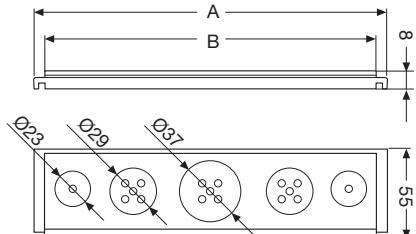
article
12 858

Semi-flush-mounting frame



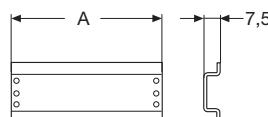
article	A	B	C	D
12 590	187	270	137	220
12 591	254	270	204	220
12 592	325	270	275	220
12 593	325	420	275	370
12 594	325	622	275	572
12 595	430	622	380	572
12 596	430	270	380	220
12 597	430	420	380	370

Bi-material flanges



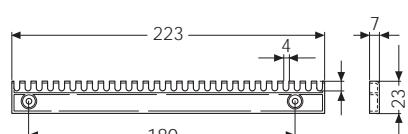
article	A	B
12 600	140	146
12 601	216	210
12 602	292	285

DIN rail



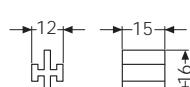
article	A
12 852	86
12 854	453
12 855	224
12 856	330

Unibox Series cable holder accessory



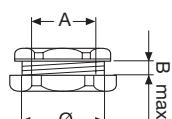
article
12 530

Unibox Series coupling element



article
12 556

Unions

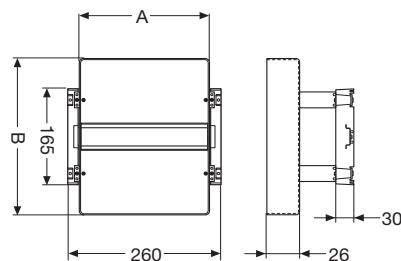


article	Ø	A	B
13 874	23	18	7
13 875	28.5	22	7
13 876	37	30	10

Overall dimensions

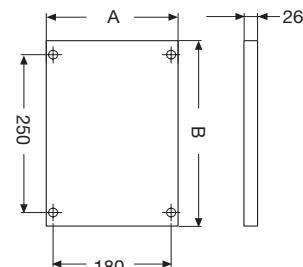
Accessories

Kit for MCBs



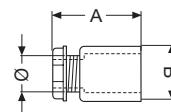
article	A	B
12 820	217	273
12 821	217	474
12 822	321	474

Fixed counter-doors



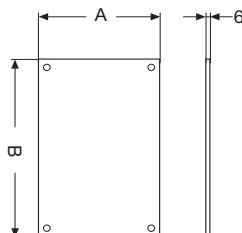
article	A	B
12 825	217	273
12 826	217	474
12 827	827	321

IP 65 conduit/box connectors



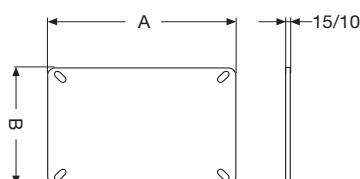
article	\varnothing	A	B
00 420	15.5	46	12.5
00 421	20	46	16
00 422	24.5	46	20
00 423	32	48	27
00 424	39.5	66.5	34.5
00 425	49.5	66.5	44.5

Insulating material base plates



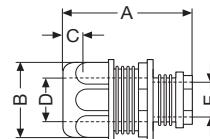
article	A	B
12 832	80	116
12 834	147	116
12 835	217	116
12 836	217	266
12 837	217	466
12 838	322	466

Metal base plates



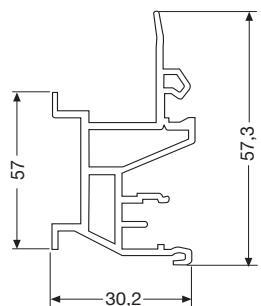
article	A	B
12 842	80	116
12 844	179	198
12 845	195	249
12 846	249	345
12 847	249	545
12 848	354	545

Conduit clamps



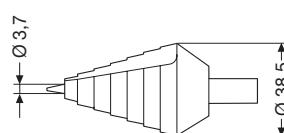
article	A	B	C	D	E
00 430	37	28	4.8	16.5	11.9
00 431	37	33.4	4.9	20.8	15.9
00 432	37.7	38.9	5	25.5	19.8
00 433	46.6	51	5.5	32.1	20.2
00 434	49.6	56.2	5.5	40.4	33.5
00 435	49.9	67.4	5.5	50.5	44

Plastic spacer



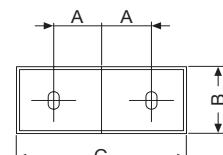
article	
12 851	

Universal cutter



article	
12 894	

Module covers



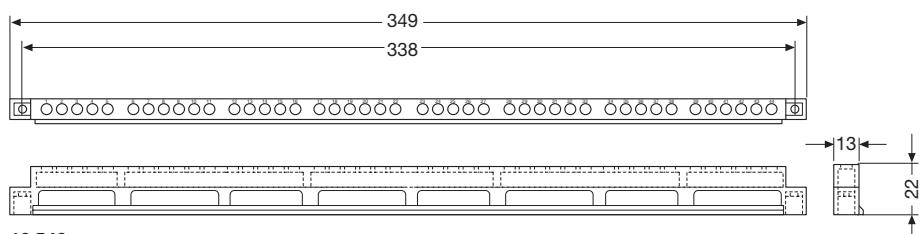
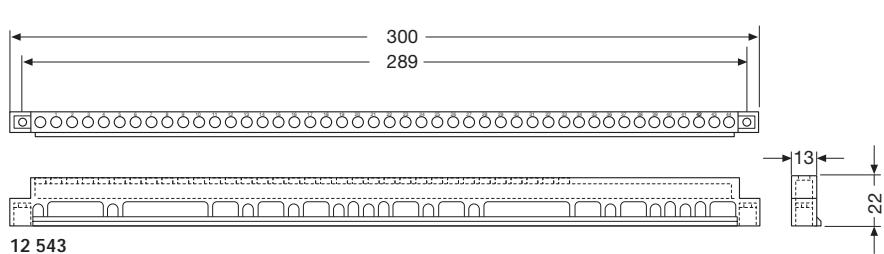
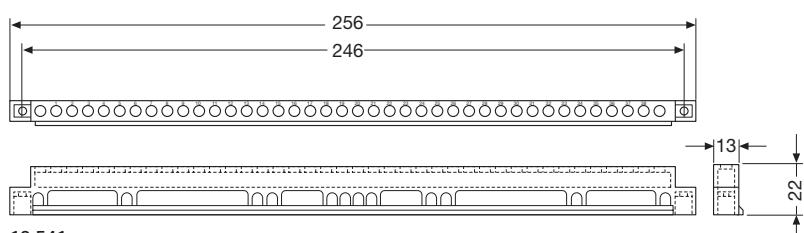
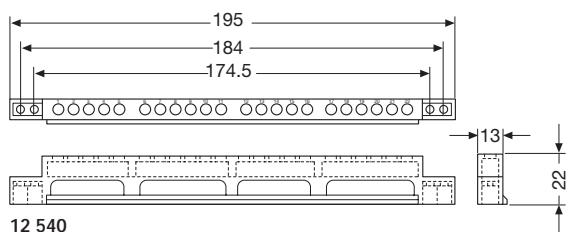
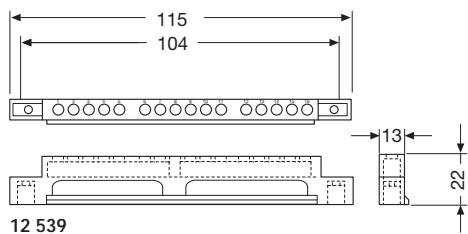
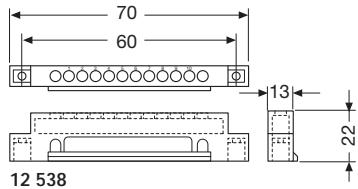
article	A	B	C
12 868	35	36	100.5
12 869	35	36	100.5

VLC00950

Overall dimensions

Accessories

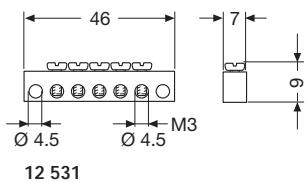
Terminal holders



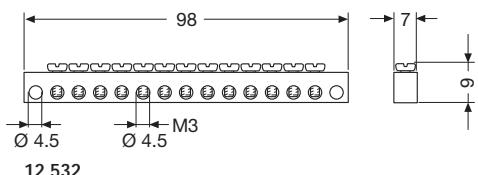
Overall dimensions

Accessories

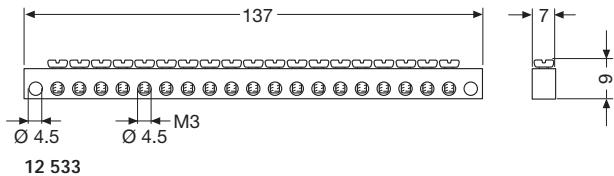
Terminal bars



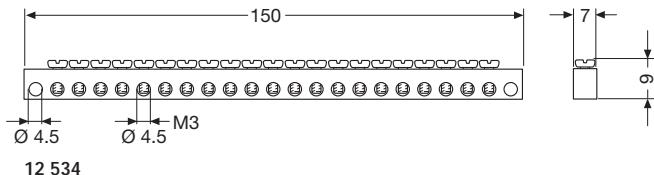
12 531



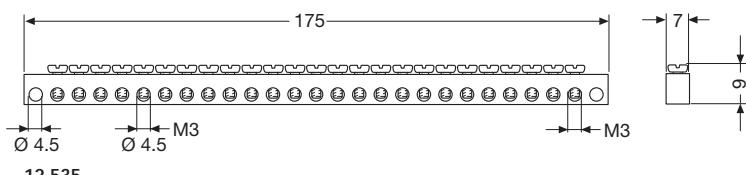
12 532



12 533



12 534



12 535