



Technical catalogue - Edition 2011

Insulating enclosures and installation material

Summary

Presentation

1

Consumer units

2

Emergency consumer units

3

Unifix cabling system

4

Switchboards

5

Boxes, equipment and various components

6

Wiring accessories and junction boxes

7

Installation material

8

Further technical information and applications

9

Overall dimensions

10

Code list

11



Index

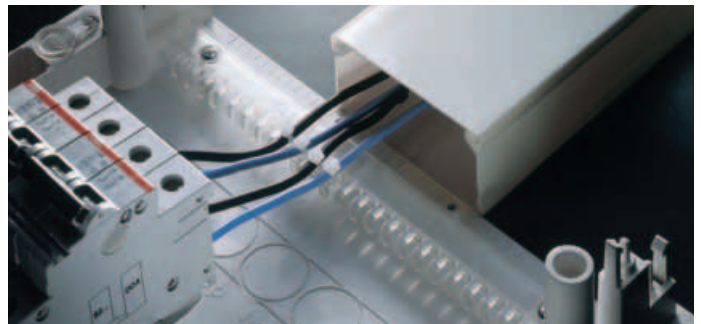
Products offered by ABB for distribution in the residential and tertiary sectors	1/2
The benefits of a full and integrated range	
Gemini switchboards and plastic and metal conduit pipe systems	1/5
Élos and Chiara civil series	1/6
Technical documentation	1/8

Products offered by ABB for distribution in the residential and tertiary sectors

1

ABB offers a range of consumer units and switchboards for the installation of modular components that enables to implement any type of application for power distribution in the residential and tertiary environments operating under the highest safety conditions and with significant savings of time.

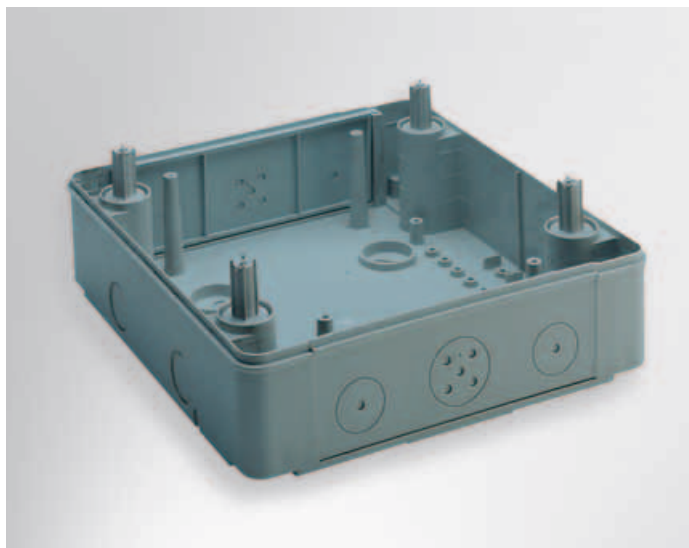
Among the several products that form this offer, the Unibox consumer units are distinguished by a design, which perfectly fits into any decor, choosing between the wall-mounting version and the new flush-mounting version. Estetica and Europa Series consumer units and the wall-mounting covers are available in the modern RAL 9016 white. In the range of switchboards, the Livorno Series meets first of all the requirements arising in emergency situations in which a fast and efficient operating mechanism for shutdown of plant is required.



To execute the terminal part of an electric plant, ABB offers a range of products that includes empty enclosures and control devices, also in versions for installation in rigid and protective conduits.

Junction and wiring accessories boxes present a safe use even under the most difficult environmental conditions: in particular waterproof boxes guarantee full protection in operations for junction, branch connection and installation of equipments.

In a "state of the art" electric plant, even details are carefully implemented. To secure total use safety and operational efficiency of the plant, minor components and accessories for erection of electrical equipment of ABB are made in compliance with the reference international Standards; metal section bars, cable-ties and fixing and cabling accessories are available in a wide assortment to satisfy any kind of application.



Products offered by ABB for distribution in the residential and tertiary sectors

Unibox consumer units: elegant and functional even in the flush-mounting version

1

Unibox doubles.

Elegant design and practicality for installation and use are now available also in the flush-mounting version of the consumer units IP 40 of ABB SACE for application in the residential and tertiary environments.

The new Unibox consumer units, manufactured in a self-extinguishing thermoplastic material of colour RAL 9016 white, integrate themselves easily in whichever decoration solution; for the door, it is possible to choose between the transparent smoked version and the opaque version.

The models in the range can accommodate equipments of 8 to 54 modules that can be cabled more easily extracting the frame to work on the bench.

Resistance to chemical agents, atmospheric agents, UV rays and shocks is guaranteed; protection degree is IP 40.

Accessories make it possible to design their configuration with an accurate repartition of outlines, and a particular completeness of functions.

The flush-mounting Unibox consumer units are manufactured in compliance with CEI 23-48 and 23-49 Standards, and IEC 670. They have obtained the IMQ approval.

Functionality and safety of installation and use of the new flush-mounting Unibox consumer units guarantee quality of construction characteristics, in particular:

- protection degree IP 40;
- insulation class II;
- self-extinguishing thermoplastic material and resistant to abnormal heat and fire up to 650 °C (glow wire test), in compliance with IEC 695-2-1 Standard;
- installation temperature from -20 °C to + 85 °C;
- shock resistance: 10 Joules (IK level 09);

- reversible door;
- door opening with push-pull mechanism;
- opening of the door up to 180 ° for multi-row consumer units;
- equipped with a film protected door;
- a lock with a coded key can be fitted;
- flush-mounting box with push-in inlet for entrance of protective corrugated conduits;
- extractable DIN rail frame;
- DIN 150 mm inter-axis between the rows;
- terminal holders and terminal bars supplied separately or already assembled;
- equipped with slots at the engagement points to compensate possible defects during the installation of the flush-mounting box.



The benefits of a full and integrated range Gemini switchboards and plastic and metal conduit pipe systems

When the plant is designed with a whole series of functions, ABB has the right product for every situation. All products in the range give quality performance, are easy to assemble and highly reliable.

1



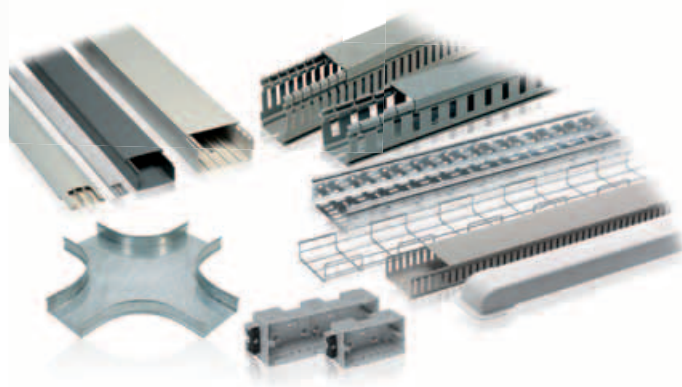
Gemini switchboards

When setting up low voltage insulating switchgear, the ABB Gemini series ensures the best protection and proper operating conditions of all modular devices. Also suited for automation applications, they are available in six different sizes.

By using co-injection moulding technology, Gemini switchboards maintain their outstanding mechanical properties, as well as their sturdiness and resistance to weather and aggressive agents over the years. In this way they can be used in any type of environment, whether inside or outside. This is further aided by their high IP66 protection rating.

The snap-on frame, with vertical conduit built into the uprights according to an exclusive ABB patent, is used in distribution applications.

For automation applications, Gemini switchboards are supplied with a complete snap-on base plate (selected from three versions) which can be adjusted to different levels of depth. Installation of the hingable inner door or switch panels adequately completes the switchboard.



Conduit pipe systems

Its experience in designing and producing conduit pipe systems allows ABB to offer a complete range of products that offer solutions perfect for any situation, in both plant engineering and installation.

High standards of production and strict controls ensure that the most severe functional and aesthetic parameters are followed so that these products are absolutely flexible in their use in both new buildings and renovation and expansion works.

The range includes channels and mini-channels made of an impact-resistant and self-extinguishing thermoplastic material, channels used as baseboard, frames and floor-mounted channels.

Wiring raceways in either rigid or flexible bars for switchboards, channels for air conditioning systems, industrial conduit pipe systems in plastic and hot-galvanised metal, in the closed or perforated version, and industrial gangways in steel wire particularly suitable in all those cases where flexibility and easy service during maintenance is required.

The benefits of a full and integrated range Élos and Chiara civil series

1 Élos and Chiara are the civil series whose materials, shapes and colours are amazing. There is an endless number of possible combinations to meet all tastes and fancies.



Élos civil series

The Élos Soft and Élos Smart plates are in the colours of nature and of its four elements, in 24 shades for the metal versions, in 17 for those made of technopolymer and in 6 for the glass versions, carefully selected finishes and materials to meet the various interior design styles and to increase the possibilities of customising the selection.

The Élos shapes were not left to chance.

Creativity and industrial design have produced two lines having precise features. The Élos Soft plates have the sophisticated and sinuous silhouette of a wave that gives the rooms personality and importance. The Élos Smart plates feature essential and modern lines that integrate with any furnishing style.

The Élos plates have the colours of nature and are available in 24 shades for the metal versions, in 17 for those made of technopolymer and in 6 for those made of glass. All of the different interior decor styles are satisfied with the carefully selected finishes and materials so the possibilities of customising the selections are increased.

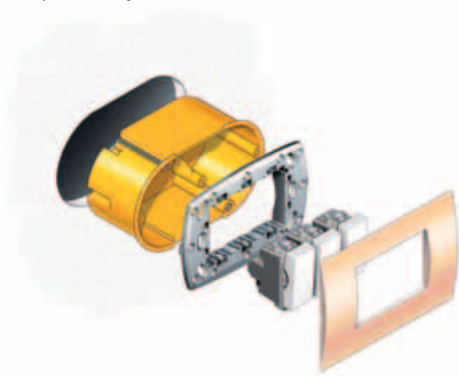




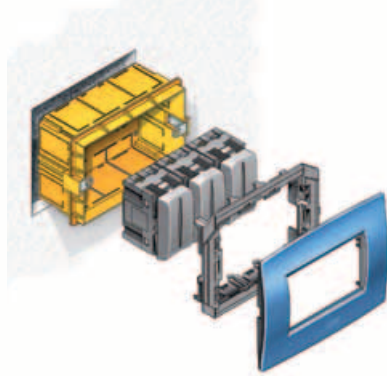
Chiara civil series

As its name conveys, Chiara ("clear") is light and harmony. The elegance of the white buttons and plugs interpenetrates with the evocative shades of the plates: white, sand, stone, volcano and the hues of metal and pastels. The 22-mm-wide plugs are suited to being put inside all of the flush-mounted enclosures, whether they are round ($\varnothing$ 60 mm) or rectangular. The supports and plates are available in the two, three, four and seven-module versions that can be mounted in standard rectangular two, three, four and six-module enclosures, respectively.

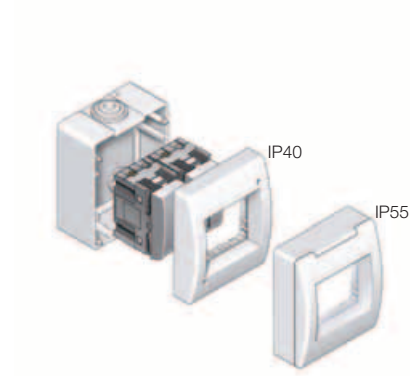
The design of Chiara is a statement of top Italian creativity combined with the excellence of ABB's technological and production processes. Chiara meets everyone's tastes, and enhances any room - from the most sophisticated to the most essential - with a choice of components that makes it possible to implement the leading application solutions in the residential and service sectors. Flexibility is a characteristic of Chiara, also from the installation viewpoint.



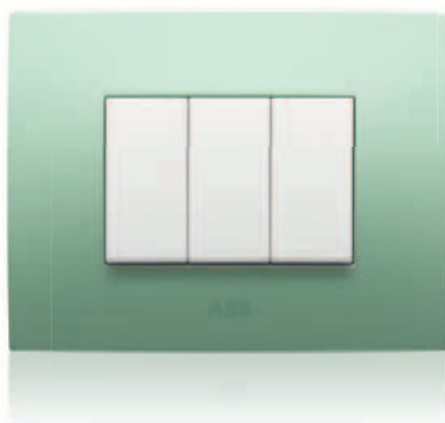
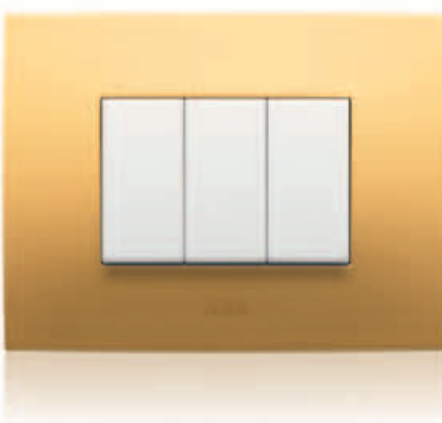
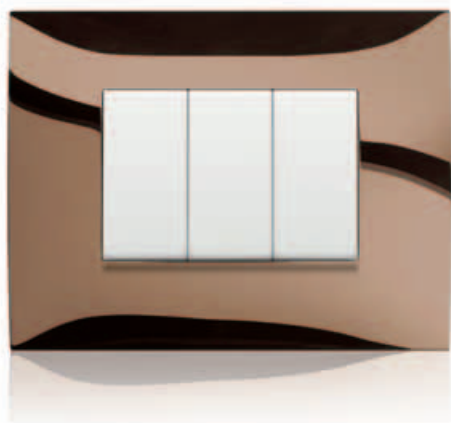
Flush-mounted in movable or plasterboard walls



Flush-mounted in masonry walls



Wall-mounted in protected enclosures



Technical documentation

1

Catalogues with the ABB product range for the residential and service sectors are available in PDF format at the website:
www.abb.com/abblibrary/downloadcenter/

- **Gemini**

Low voltage electric insulating switchboards

1SLC805001D0204

- **Plastic and metal trunking systems**

1SLC800001D0201

- **Floor distribution systems**

1SLC006001D0201



Index

Summary table	2/2
IP 40 flush-mounting consumer units	
Unibox Series	2/5
Estetica Series	2/11
Europa Series	2/17
IP 40 wall-mounting consumer units	
Unibox Series	2/23
Europa Series	2/29
Europa Polycarbonate Series	2/35
Wall-mounting covers	2/41
IP 55 wall-mounting consumer units	
IP 55 Europa Series	2/45
IP 65 wall-mounting consumer units	
IP 65 Fly Series	2/49
IP 65 Europa Series	2/55
IP 40 and IP 55 panel fronts	
IP 40 fronts	2/61
IP 55 fronts	2/61

Consumer units

Summary table

IP 40 flush-mounting consumer units

IP 40 wall-mounting consumer units

Unibox Series

Estetica Series

Europa Series

Unibox Series

Europa Series

residential application

residential application

residential application

residential/tertiary application

residential/tertiary application



With opaque, vertically hinged door

With transparent, smoky, vertically hinged 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

RAL 9016 white

RAL 9016 white

RAL 9016 white
RAL 7021 grey

RAL 9016 white
RAL 7035 grey

RAL 9016 white
RAL 7035 grey

RAL 9016 white

RAL 9016 white

RAL 9016 white

RAL 9016 white
RAL 7035 grey

Modules

2

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3

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-

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-

-

-

-

4

-

-

**1SL2024A00 -
12 037**
160x180x90

-

-

-

-

-

-

6

-

-

-

-

-

-

-

-

-

8

1SL0500A00
214x238x110

1SL0510A00
214x238x110

**1SL2028A00 -
12 038**
230x180x90

**1SL2040A00 -
12 026**
230x190x90

**1SL2057A00 -
12 058**
230x180x90

12 208
215x220x105

12 238
215x220x105

12 258
215x220x105

**1SL2408A00 -
12 428**
230x200x95

10

-

-

-

-

-

-

-

-

-

12

1SL0501A00
293x262x110

1SL0511A00
293x262x110

**1SL2032A00 -
12 042**
300x180x90

**1SL2041A00 -
12 027**
300x180x90

**1SL2061A00 -
12 062**
300x180x90

12 212
295x245x115

12 242
295x245x115

12 262
295x245x115

**1SL2412A00 -
12 432**
305x200x95

18

-

-

**1SL2033A00 -
12 043**
410x180x90

-

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-

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20

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-

-

-

-

-

-

-

-

24

1SL0502A00
293x408x118

1SL0512A00
293x408x118

**1SL2034A00 -
12 044**
300x395x100

**1SL2045A00 -
12 030**
300x395x90

**1SL2063A00 -
12 064**
300x395x90

12 214
295x390x115

12 244
295x390x115

12 264
295x390x115

**1SL2414A00 -
12 434**
305x350x95

36

1SL0503A00
293x533x118

1SL0513A00
293x533x118

**1SL2036A00 -
12 046**
300x545x100

**1SL2048A00 -
12 031**
300x545x90

**1SL2065A00 -
12 066**
300x545x90

12 216
295x515x115

12 246
295x515x115

12 266
295x515x115

**1SL2416A00 -
12 436**
305x545x120

54

1SL0504A00
401x533x118

1SL0514A00
401x533x118

-

**1SL2052A00 -
12 035**
410x545x90

**1SL2067A00 -
12 068**
410x545x100

12 217
405x515x115

12 247
405x515x115

12 267
405x515x115

**1SL2417A00 -
12 437**
380x570x120

Consumer units

Summary table

IP 40 wall-mounting consumer units				IP 55 and IP 65 wall-mounting consumer units				Fronts	
Europa Series	Europa Polycarbonate Series	Wall covers		IP 55 Europa Series	IP 65 Fly Series	IP 65 Europa Series		IP 40 and IP 55 panel fronts	
residential/ tertiary application	tertiary/ industrial application	residential/ tertiary application		tertiary/industrial application	residential/ tertiary/ industrial application	residential/ tertiary/industrial application		tertiary/industrial application	
									
With opaque, vertically hinged door	With transparent, smoky, vertically hinged door	Without door	Without door	Spring closing	With transparent door (*) opaque door	With opaque, vertically hinged door	With transparent, smoky vertically hinged door	Panel fronts	
RAL 9016 white RAL 7035 grey	RAL 9016 white RAL 7035 grey	RAL 7035 grey	RAL 9016 white RAL 7035 grey	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey	IP 40 RAL 7035 grey	IP 55
–	–	2-4 modules 12 702 105x175x85	1SL2402A00 - 12 422 50x140x65	–	2-4 modules 12 742 - 12 722^(*) 105x175x100	–	–	12 362 81x90x50	
–	–	–	–	–	–	–	–	12 363 99x90x50	
–	–	12 704 140x220x110	1SL2404A00 - 12 424 95x160x65	12 644 125x180x105	–	12 724 140x220x140	12 744 140x220x140	12 364 117x90x50	12 658 125x180x80
–	–	–	1SL2406A00 - 12 426 140x160x65	12 646 160x180x105	–	–	–	12 659 160x180x80	
1SL2438A00 - 12 448 230x200x95	1SL2458A00 - 12 468 230x200x95	12 708 205x220x110	–	–	12 743 205x220x140	12 728 205x220x140	12 748 205x220x140	–	
–	–	–	–	12 650 230x180x105 12 654 250x320x139	–	–	–	12 660 230x180x80	
1SL2442A00 - 12 452 305x200x95	1SL2462A00 - 12 472 305x200x95	12 712 275x220x110	–	–	12 745 275x220x140	12 732 275x220x140	12 752 275x220x140	–	
–	–	–	–	–	–	12 733 380x220x140	12 753 380x220x140	–	
–	–	–	–	12 652 250x320x135	–	–	–	–	
1SL2444A00 - 12 454 305x350x95	1SL2464A00 - 12 474 305x350x95	12 714 275x370x110	–	–	12 746 275x370x140	12 734 275x370x140 12 735 380x370x140	12 754 275x370x140 12 755 380x370x140	–	
1SL2446A00 - 12 456 305x545x120	1SL2466A00 - 12 476 305x545x120	12 716 275x570x110	–	–	12 747 275x570x140	12 736 275x570x140	12 756 275x570x140	–	
1SL2447A00 - 12 457 380x570x120	1SL2467A00 - 12 477 380x570x120	12 718 380x570x120	–	–	–	12 738 380x570x140	12 758 380x570x140	–	

Residential application

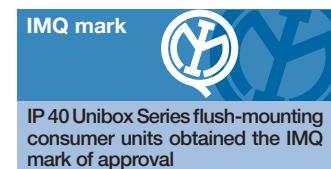


IP 40 flush-mounting consumer units

Unibox Series

Technical characteristics

- protection degree IP 40
- insulation class II 
- available in 2 versions: with **transparent**, smoky door and with **opaque door** both with vertical hinge
- colour **RAL 9016 white**
- available in self-extinguishing **thermoplastic** material, resistant to abnormal heat and fire up to 650 °C (glow wire flammability index) in compliance with IEC 60695-2-11 Standard
- installation temperature from -15 °C to +60 °C
- resistant to heat: ball thermopressure up to +85 °C in compliance with EN 60695-10-2 Standard
- shock resistance 10 Joules (**IK level 09**)
- door opening with push-pull mechanism
- reversible door with protective film (to be removed only after the installation is completed), designed to be fitted with a coded lock
- flush-mounting box with push-in inlet for entrance of protective corrugated conduits
- **extractable DIN rail frame to facilitate bench cabling**
- DIN 150 mm inter-axis between the rows
- consumer units manufactured to compensate possible defects during the installation (thanks to slots at the points where the front parts are hooked on)
- consumer units manufactured in compliance with CEI 23-49 (1996) + V1 + V2, CB certificate IEC 60670-24 Standards
- consumer units are supplied complete with:
 - module covers
 - 1 self-adhesive indicator strip per row
 - 1 plate for CEI 23-51 certification
 - instruction sheet
- to meet the installation needs of flush-mounting consumer units, separate codes are available for the flush-mounting box and the front of the consumer unit, as well as for the flush-mounting box with terminal bars
- consumer units are RoHS compliance and Halogen free (excluded plastered box).



IP 40 flush-mounting consumer units

Unibox Series

8 modules

12 modules

24 modules

With transparent, smoky vertically hinged door

RAL 9016 white



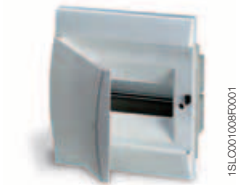
Code	Dimensions (mm) WxHxD	Box/pack No items
Flush-mounting box with front 1SL0510A00	214x238x110	1/9
Flush-mounting box 1SL0521A00	215x183x73	1/18
Front 1SL0532A00	214x238x37,5	1/18
Flush-mounting box with front and terminal bars 1SL0510A06	214x238x110	1/9

Code	Dimensions (mm) WxHxD	Box/pack No items
Flush-mounting box with front 1SL0511A00	293x262x110	1/7
Flush-mounting box 1SL0522A00	284x183x73	1/14
Front 1SL0536A00	293x262x37,5	1/14
Flush-mounting box with front and terminal bars 1SL0511A06	293x262x110	1/7

Code	Dimensions (mm) WxHxD	Box/pack No items
Flush-mounting box with front 1SL0512A00	293x408x118	1/5
Flush-mounting box 1SL0524A00	280x370x80	1/4
Front 1SL0542A00	293x408x37,5	1/4
Flush-mounting box with front and terminal bars 1SL0512A06	293x408x118	1/5

With opaque, vertically hinged door

RAL 9016 white



Code	Dimensions (mm) WxHxD	Box/pack No items
Flush-mounting box with front 1SL0500A00	214x238x110	1/9
Flush-mounting box 1SL0521A00	215x183x73	1/18
Front 1SL0533A00	214x238x37,5	1/18
Flush-mounting box with front and terminal bars 1SL0500A06	214x238x110	1/9

Code	Dimensions (mm) WxHxD	Box/pack No items
Flush-mounting box with front 1SL0501A00	293x262x110	1/7
Flush-mounting box 1SL0522A00	284x183x73	1/14
Front 1SL0537A00	293x262x37,5	1/14
Flush-mounting box with front and terminal bars 1SL0501A06	293x262x110	1/7

Code	Dimensions (mm) WxHxD	Box/pack No items
Flush-mounting box with front 1SL0502A00	293x408x118	1/5
Flush-mounting box 1SL0524A00	280x370x80	1/4
Front 1SL0543A00	293x408x37,5	1/4
Flush-mounting box with front and terminal bars 1SL0502A06	293x408x118	1/5

IP 40 flush-mounting consumer units

Unibox Series

36 modules

54 modules

With transparent, smoky vertically hinged door

RAL 9016 white



1SL0001035F0001



1SL0001036F0001

Code	Dimensions (mm) WxHxD	Box/pack No items
1SL0513A00	293x533x118	1/3
Flush-mounting box with front and terminal bars		
1SL0513A06	293x533x118	1/3

Code	Dimensions (mm) WxHxD	Box/pack No items
1SL0514A00	401x533x118	1/1
Flush-mounting box with front and terminal bars		
1SL0514A06	401x533x118	1/1

With opaque, vertically hinged door

RAL 9016 white



1SL0001010F0001



1SL0001011F0001

Code	Dimensions (mm) WxHxD	Box/pack No items
1SL0503A00	293x533x118	1/3
Flush-mounting box with front and terminal bars		
1SL0503A06	293x533x118	1/3

Code	Dimensions (mm) WxHxD	Box/pack No items
1SL0504A00	401x533x118	1/1
Flush-mounting box with front and terminal bars		
1SL0504A06	401x533x118	1/1

Terminal bars configuration

No modules	N (holes x mm²)	PE (holes x mm²)
8	(10 x 16)+(3 x 25)	(5 x 16)
12	(10 x 16)+(3 x 25)	(10 x 16)+(3 x 25)
24	(16 x 16)+(3 x 25)+(5 x 16)	(16 x 16)+(3 x 25)+(5 x 16)
36	(15 x 16)+(6 x 25)+(5 x 16)	(15 x 16)+(6 x 25)+(5 x 16)
54	(10 x 16)+(3 x 25)+(19 x 16)+(6 x 25)	(10 x 16)+(3 x 25)+(19 x 16)+(6 x 25)

IP 40 flush-mounting consumer units

Accessories for Unibox Series

Terminal blocks

The complete terminal blocks are composed of a combination of terminal holders and terminal bars as indicated in the description, with the terminal bars already mounted on terminal holders.

Configuration of the complete terminal block is standard. For different requirements (customized terminal block), the terminal holders and bars must be procured separately in the versions indicated in the table.



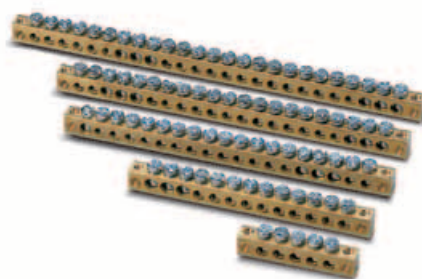
Code	Description	Box/pack No. items
12 492	for 8 modules – composed of 12540x1 + 12531x1 + 12532x1	10/40
12 495	for 12 modules – composed of 12541x1 + 12532x2	10/40
12 504	for 24 modules – composed of 12541x2 + 12531x2 + 12533x2	10/40
12 505	for 36 modules – composed of 12541x2 + 12531x2 + 12534x2	10/40
12 506	for 54 modules – composed of 12542x2 + 12532x2 + 12535x2	5/20

Terminal holders

RAL 7035 grey



Terminal bars



Code	Description	For consumer units type	Box/Pack No items
12 540	for 8 modules	1SL0500A00 – 1SL0510A00	12/144
12 541	for 12 modules per row	1SL0501A00 – 1SL0511A00 1SL0502A00 – 1SL0512A00 1SL0503A00 – 1SL0513A00	12/144
12 542	for 18 modules per row	1SL0504A00 – 1SL0514A00	12/108

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

Code	Description	Box/pack No items
	No of holes x Ø holes (mm) + No of holes x mm²	
12 531	5x16	20/240
12 532	10x16 + 3x25	20/240
12 533	16x16 + 3x25	20/240
12 534	15x16 + 6x25	20/240
12 535	19x16 + 6x25	20/240

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.

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 flush-mounting consumer units

Accessories for Unibox Series

2

Spare doors



Opaque
RAL 9016
white

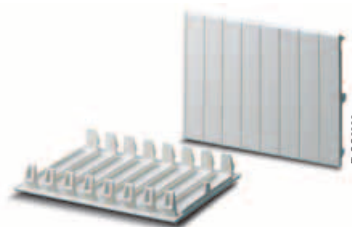
	For consumer units type	Box/pack No items
12 511	1SL0500A00	1/25
12 512	1SL0501A00	1/15
12 513	1SL0502A00	1/10
12 514	1SL0503A00	1/5
12 515	1SL0504A00	1/5

Transparent smoky

	For consumer units type	Box/pack No items
12 521	1SL0510A00	1/25
12 522	1SL0511A00	1/15
12 523	1SL0512A00	1/10
12 524	1SL0513A00	1/5
12 525	1SL0514A00	1/5

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

Module covers



Code	Colour	No modules	Box/pack No items
1SL2857A00	RAL 9016 white	1	50/1500
1SL2859A00	RAL 9016 white	4	25/300

Lock with key



Code	Description	Box/pack No items
12 530	coded type	20/300

Screw lead sealing accessory



Code	Box/pack No items
12 860	50/1500

Plastered panel box - GWT 850 °C



Code	Description	Box/pack No items
1SL0527A00	8 modules	1/18
1SL0528A00	12 modules	1/14
1SL0529A00	24 modules	1/8

Complete with assembly accessories

Residential application



FLOO9800

IP 40 flush-mounting consumer units

Estetica Series

2

Technical characteristics

- protection degree IP 40
- insulation class II 
- available with transparent smoky door with horizontal hinge
- available in the following material:
 - RAL 9016 white and RAL 7021 grey thermoplastic, self-extinguishing and resistant to abnormal heat and fire up to 650 °C (glow wire flammability index) in compliance with IEC 60695-2-11 Standard
- installation temperature from -15 °C to +60 °C
- resistant to heat: ball thermopressure up to +85 °C in compliance with EN 60695-10-2 Standard
- shock resistance 6 Joules
- flush-mounting enclosure with push-in inlet for entrance of protective corrugated conduits
- extractable DIN rail frame to facilitate bench cabling
- consumer units manufactured to compensate possible defects during the installation (thanks to slots at the points where the front parts are hooked on)
- consumer units manufactured in compliance with CEI 23-49 (1996) + V1 + V2, CB certificate IEC 60670-24 Standards
- consumer units are supplied complete with:
 - module covers
 - aesthetic flanges for covering the housing door holes (2 flanges supplied for each door; only for models without door)
 - 1 self-adhesive indicator strip per row
 - 1 plate for CEI 23-51 certification
 - instruction sheet
- to meet the installation needs of flush-mounting consumer units, separate codes are available for the flush-mounting box and the front of the consumer unit
- consumer units white RAL9016 are RoHS compliance and Halogen free (excluded plastered box).



IMQ mark



IP 40 Estetica Series flush-mounting consumer units obtained the IMQ mark of approval

IP 40 flush-mounting consumer units

Estetica Series

4 modules

8 modules

12 modules

With transparent, smoky horizontally hinged door

RAL 9016 white

2



Code	Dimensions (mm) WxHxD	Box/pack No items
Flush-mounting box with front 1SL2024A00	160x180x90	1/24
Flush-mounting box 1SL0520A00	114x168x73	1/25
Front 1SL0531A00	160x180x23	1/25



Code	Dimensions (mm) WxHxD	Box/pack No items
Flush-mounting box with front 1SL2028A00	230x180x90	1/14
Flush-mounting box 1SL0521A00	215x183x73	1/18
Front 1SL0535A00	230x180x23	1/18



Code	Dimensions (mm) WxHxD	Box/pack No items
Flush-mounting box with front 1SL2032A00	300x180x90	1/10
Flush-mounting box 1SL0522A00	284x183x73	1/14
Front 1SL0539A00	300x180x23	1/14

With transparent, smoky horizontally hinged door

RAL 7021 grey



Code	Dimensions (mm) WxHxD	Box/pack No items
Flush-mounting box with front 12 037	160x180x90	1/24
Flush-mounting box 1SL0520A00	114x168x73	1/25
Front 1SL0553A00	160x180x23	1/25



Code	Dimensions (mm) WxHxD	Box/pack No items
Flush-mounting box with front 12 038	230x180x90	1/14
Flush-mounting box 1SL0521A00	215x183x73	1/18
Front 1SL0554A00	230x180x23	1/18



Code	Dimensions (mm) WxHxD	Box/pack No items
Flush-mounting box with front 12 042	300x180x90	1/10
Flush-mounting box 1SL0522A00	284x183x73	1/14
Front 1SL0555A00	300x180x23	1/14

IP 40 flush-mounting consumer units

Estetica Series

18 modules

24 modules

36 modules

With transparent, smoky horizontally hinged door

RAL 9016 white



Code	Dimensions (mm) WxHxD	Box/pack No items
Flush-mounting box with front 1SL2033A00	410x180x90	1/6
Flush-mounting box 1SL0523A00	384x183x73	1/9
Front 1SL0541A00	410x180x23	1/9



Code	Dimensions (mm) WxHxD	Box/pack No items
Flush-mounting box with front 1SL2034A00	300x395x100	1/5
Flush-mounting box 1SL0524A00	280x370x80	1/4
Front 1SL0546A00	300x395x23	1/4



Code	Dimensions (mm) WxHxD	Box/pack No items
1SL2036A00	300x545x100	1/3

With transparent, smoky horizontally hinged door

RAL 7021 grey



Code	Dimensions (mm) WxHxD	Box/pack No items
Flush-mounting box with front 12 043	410x180x90	1/6
Flush-mounting box 1SL0523A00	384x183x73	1/9
Front 1SL0556A00	410x180x23	1/9



Code	Dimensions (mm) WxHxD	Box/pack No items
Flush-mounting box with front 12 044	300x395x100	1/5
Flush-mounting box 1SL0524A00	280x370x80	1/4
Front 1SL0547A00	300x395x23	1/4



Code	Dimensions (mm) WxHxD	Box/pack No items
12 046	300x545x100	1/3

IP 40 flush-mounting consumer units

Accessories for Estetica Series

Terminal blocks

The complete terminal blocks are composed of a combination of terminal holders and terminal bars as indicated in the description, with the terminal bars already mounted on terminal holders.

Configuration of the complete terminal block is standard. For different requirements (customized terminal block), the terminal holders and bars must be procured separately in the versions indicated in the table.



Code	Description	Box/pack No items
12 492	for 8 modules – composed of 12540x1 + 12531x1 + 12532x1	10/40
12 495	for 12 modules – composed of 12541x1 + 12532x2	10/40
12 503	for 18 modules – composed of 12542x1 + 12531x1 + 12534x1	10/40
12 504	for 24 modules – composed of 12541x2 + 12531x2 + 12533x2	10/40
12 505	for 36 modules – composed of 12541x2 + 12531x2 + 12534x2	10/40

Terminal holders

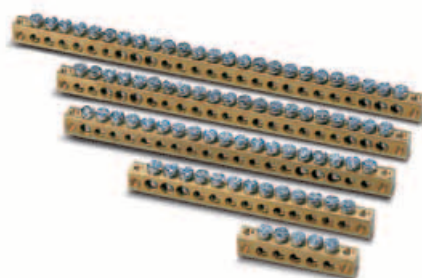
RAL 7035 grey



Code	Description	For consumer units type	Box/pack No items
12 540	for 8 modules	1SL2008A00 – 1SL2028A00 – 12 038	12/144
12 541	for 12 modules per row	1SL2012A00 – 1SL2032A00 – 12 042 1SL2014A00 – 1SL2034A00 – 12 044 1SL2016A00 – 1SL2036A00 – 12 046	12/144
12 542	for 18 modules per row	1SL2013A00 – 1SL2033A00 – 12 043	12/108

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

Terminal bars



Code	Description No of holes x Ø holes (mm) + No of holes x mm ²	Box/pack No items
12 531	5x16	20/240
12 532	10x16 + 3x25	20/240
12 533	16x16 + 3x25	20/240
12 534	15x16 + 6x25	20/240
12 535	19x16 + 6x25	20/240

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.

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.

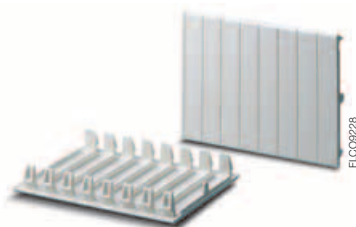
All the possible configurations that can be created for each type of consumer unit are given in the technical details.

IP 40 flush-mounting consumer units

Accessories for Estetica Series

2

Module covers



Code	Colour	No modules	Box/pack No items
1SL2857A00	RAL 9016 white	1	50/1500
1SL2859A00	RAL 9016 white	4	25/300
12 895	RAL 7021 grey	1	50/1500
12 896	RAL 7021 grey	4	25/300

Aesthetic covers



Code	Colour	Box/pack No items
1SL2868A00	RAL 9016 white (pair)	10/120
12 869	RAL 7021 grey (pair)	10/120

Spare doors



Transparent smoky	RAL 9016 white opaque	For consumer units type	Box/pack No items
12 051	1SL2047A00	1SL2024A00 – 12 037	1/80
12 053	1SL2049A00	1SL2028A00 – 12 038	1/50
12 055	1SL2050A00	1SL2032A00 – 12 042 1SL2034A00 – 12 044 1SL2036A00 – 12 046	1/50
12 060	1SL2056A00	1SL2033A00 – 12 043	1/50

Screw lead sealing accessory



Code	Box/pack No items
12 860	50/1500

Plastered panel box - GWT 850 °C



Code	Description	Box/pack No items
1SL0527A00	8 modules	1/18
1SL0528A00	12 modules	1/14
1SL0529A00	24 modules	1/8

Complete with assembly accessories

Residential application



FLO9602

IP 40 flush-mounting consumer units

Europa Series

Technical characteristics

- protection degree IP 40
- insulation class II 
- available in 2 versions: with opaque door and with transparent, smoky door both with vertical hinge
- available in the following material:
 - RAL 9016 white and RAL 7035 grey thermoplastic, self-extinguishing and resistant to abnormal heat and fire up to 650 °C (glow wire flammability index) in compliance with IEC 60695-2-11 Standard
- installation temperature from -15 °C to +60 °C
- resistant to heat: ball thermopressure up to +85 °C in compliance with EN 60695-10-2 Standard
- shock resistance 6 Joules
- door designed to be fitted with a pin lock code 12 867
- flush-mounting enclosure with push-in inlet for entrance of protective corrugated conduits
- extractable DIN rail frame to facilitate bench cabling
- consumer units manufactured to compensate possible defects during the installation (thanks to slots at the points where the front parts are hooked on)
- consumer units manufactured in compliance with CEI 23-49 (1996) + V1 + V2, CB certificate IEC 60670-24 Standards
- consumer units are supplied complete with:
 - module covers
 - 1 self-adhesive indicator strip per row
 - 1 plate for CEI 23-51 certification
 - instruction sheet
- to meet the installation needs of flush-mounting consumer units, separate codes are available for the flush-mounting box with terminal bars.
- consumer units are RoHS compliance and Halogen free (excluded plastered box).



IP 40 flush-mounting consumer units

Europa Series

8 modules

12 modules

24 modules

With opaque vertically hinged door

RAL 9016 white / RAL 7035 grey



Code	Colour	Dimensions (mm) WxHxD	Box/pack No items
1SL2040A00	white	230x190x90	1/14
1SL2040A06	white with terminal bars	230x190x90	1/14
12 026	grey	230x190x90	1/14
Flush-mounting box			
1SL0521A00		215x183x73	1/18
Front			
1SL0563A00	white	230x190x18	1/18

Code	Colour	Dimensions (mm) WxHxD	Box/pack No items
1SL2041A00	white	300x180x90	1/10
1SL2041A06	white with terminal bars	300x180x90	1/10
12 027	grey	300x180x90	1/10
Flush-mounting box			
1SL0522A00		284x183x73	1/14
Front			
1SL0564A00	white	300x180x18	1/14

Code	Colour	Dimensions (mm) WxHxD	Box/pack No items
1SL2045A00	white	300x395x90	1/5
1SL2045A13	white with terminal bars	300x395x90	1/5
12 030	grey	300x395x90	1/5
Flush-mounting box			
1SL0524A00		280x370x80	1/4
Front			
1SL0565A00	white	300x395x12	1/4

With transparent, smoky vertically hinged door

RAL 9016 white / RAL 7035 grey



Code	Colour	Dimensions (mm) WxHxD	Box/pack No items
1SL2057A00	white	230x180x90	1/14
1SL2057A06	white with terminal bars	230x180x90	1/14
12 058	grey	230x180x90	1/14
Flush-mounting box			
1SL0521A00		215x183x73	1/18
Front			
1SL0566A00	white	230x180x18	1/18

Code	Colour	Dimensions (mm) WxHxD	Box/pack No items
1SL2061A00	white	300x180x90	1/10
1SL2061A06	white with terminal bars	300x180x90	1/10
12 062	grey	300x180x90	1/10
Flush-mounting box			
1SL0522A00		284x183x73	1/14
Front			
1SL0567A00	white	300x180x18	1/14

Code	Colour	Dimensions (mm) WxHxD	Box/pack No items
1SL2063A00	white	300x395x90	1/5
1SL2063A13	white with terminal bars	300x395x90	1/5
12 064	grey	300x395x90	1/5
Flush-mounting box			
1SL0524A00		280x370x80	1/4
Front			
1SL0568A00	white	300x395x12	1/4

IP 40 flush-mounting consumer units

Europa Series

36 modules

54 modules

With opaque vertically hinged door

RAL 9016 white / RAL 7035 grey



Code	Colour	Dimensions (mm) WxHxD	Box/pack No items
1SL2048A00	white	300x545x90	1/3
1SL2048A14	white with terminal bars	300x545x90	1/3
12 031	grey	300x545x90	1/3

Code	Colour	Dimensions (mm) WxHxD	Box/pack No items
1SL2052A00	white	410x545x90	1/1
1SL2052A06	white with terminal bars	410x545x90	1/1
12 035	grey	410x545x90	1/1

With transparent, smoky vertically hinged door

RAL 9016 white / RAL 7035 grey



Code	Colour	Dimensions (mm) WxHxD	Box/pack No items
1SL2065A00	white	300x545x90	1/3
1SL2065A14	white with terminal bars	300x545x90	1/3
12 066	grey	300x545x90	1/3

Code	Colour	Dimensions (mm) WxHxD	Box/pack No items
1SL2067A00	white	410x545x90	1/1
1SL2067A06	white with terminal bars	410x545x90	1/1
12 068	grey	410x545x90	1/1

Terminal bars configuration

No modules	N (holes x mm ²)	PE (holes x mm ²)
8	(10 x 16) + (3 x 25)	(5 x 16)
12	(10 x 16) + (3 x 25)	(10 x 16) + (3 x 25)
24	(16 x 16) + (3 x 25)	(16 x 16) + (3 x 25)
36	(15 x 16) + (6 x 25)	(15 x 16) + (6 x 25)
54	(19 x 16) + (6 x 25)	(19 x 16) + (6 x 25)

IP 40 flush-mounting consumer units

Accessories for Europa Series

Terminal blocks

The complete terminal blocks are composed of a combination of terminal holders and terminal bars as indicated in the description, with the terminal bars already mounted on terminal holders.

Configuration of the complete terminal block is standard. For different requirements (customized terminal block), the terminal holders and bars must be procured separately in the versions indicated in the table.



Code	Description	Box/pack No items
12 492	for 8 modules – composed of 12540x1 + 12531x1 + 12532x1	10/40
12 495	for 12 modules – composed of 12541x1 + 12532x2	10/40
12 504	for 24 modules – composed of 12541x2 + 12531x2 + 12533x2	10/40
12 505	for 36 modules – composed of 12541x2 + 12531x2 + 12534x2	10/40
12 506	for 54 modules – composed of 12542x2 + 12532x2 + 12535x2	5/20

Terminal holders

RAL 7035 grey



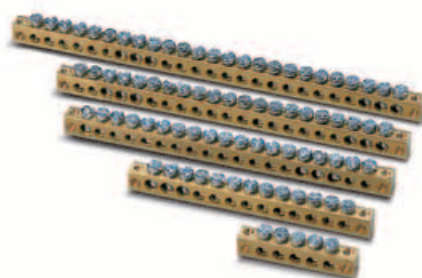
Code	Description	For consumer units type	Box/pack No items
12 540	for 8 modules	1SL2040A00 – 12 026 – 1SL2057A00 – 12 058	12/144
12 541	for 12 modules	1SL2041A00 – 12 027 – 1SL2061A00 – 12 062	12/144
	per row	1SL2045A00 – 12 030 – 1SL2063A00 – 12 064	
		1SL2048A00 – 12 031 – 1SL2065A00 – 12 066	
12 542	for 18 modules	1SL2052A00 – 12 035 – 1SL2067A00 – 12 068	12/108
	per row		

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

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



Code	Description No of holes x Ø holes (mm) + No of holes x mm ²	Box/pack No items
12 531	5x16	20/240
12 532	10x16 + 3x25	20/240
12 533	16x16 + 3x25	20/240
12 534	15x16 + 6x25	20/240
12 535	19x16 + 6x25	20/240

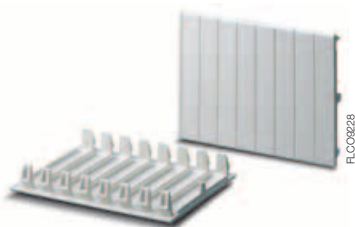
The terminal bars can be installed on any kind of terminal holder; they are snapped onto these with 2 clips per bar, through two holes made at the ends of the bar itself.

IP 40 flush-mounting consumer units

Accessories for Europa Series

2

Module covers



Code	Colour	No modules	Box/pack No items
1SL2857A00	RAL 9016 white	1	50/1500
1SL2859A00	RAL 9016 white	4	25/300
12 861	RAL 7035 grey	1	50/1500
12 863	RAL 7035 grey	4	25/300

Lock with key



Code	Description	Box/pack No items
12 867	pin type	10/300

Spare doors



Opaque		For consumer units type	Box/pack No items
white RAL 9016	grey RAL 7035		
1SL2078A00	12 070	1SL2040A00 – 12 026	1/50
1SL2079A00	12 071	1SL2041A00 – 12 027	1/50
1SL2080A00	12 072	1SL2045A00 – 12 030	1/25
1SL2081A00	12 073	1SL2048A00 – 12 031	1/10
1SL2088A00	12 087	1SL2052A00 – 12 035	1/10

Transparent smoky

	For consumer units type	Box/pack No items
12 074	1SL2057A00 – 12 058	1/50
12 075	1SL2061A00 – 12 062	1/50
12 076	1SL2063A00 – 12 064	1/25
12 077	1SL2065A00 – 12 066	1/20
12 089	1SL2067A00 – 12 068	1/10

Screw lead sealing accessory



Code	Box/pack No items
12 860	50/1500

Plastered panel box - GWT 850 °C



Code	Description	Box/pack No items
1SL0527A00	8 modules	1/18
1SL0528A00	12 modules	1/14
1SL0529A00	24 modules	1/8

Complete with assembly accessories

Residential/tertiary application



FLC0380

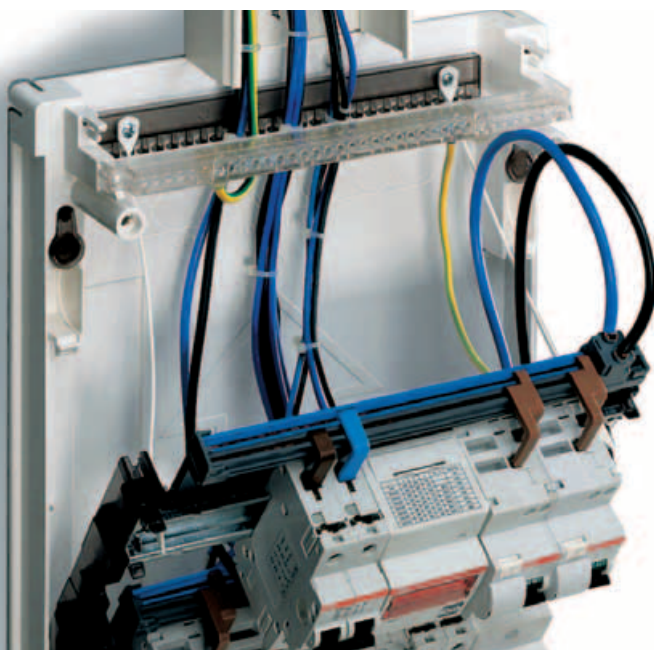
IP 40 wall-mounting consumer units

Unibox Series

2

Technical characteristics

- protection degree IP 40
- available in 3 versions: without door, with opaque door and with transparent, smoky door with vertical hinge
- available in RAL 9016 white
- in **thermoplastic**, self-extinguishing and resistant to abnormal heat and fire up to 650 °C (glow wire flammability index) in compliance with IEC 60695-2-11 Standard
- installation temperature from -25 °C to +60 °C
- resistant to heat: ball thermopressure up to +85 °C in compliance with EN 60695-10-2 Standard
- shock resistance 10 Joules (IK level 09)
- door opening with push-pull mechanism
- door designed to be fitted with a coded lock code 12 530
- 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
- highest versatility in the trunking (trimming) and conduit (flange for conduits up to diameter of 40 mm) derivations
- 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 (excluded model with 8 modules)
- **personalised finish**, on request (bur, marble, patterned, etc.)
- consumer units manufactured in compliance with CEI 23-49 (1996) + V1 + V2, CB certificate IEC 60670-24 Standards
- components and accessories are easy to assembly by snapping on, without the need for screws
- elegant attractive line following the latest trends in design (**patented model**)
- consumer units supplied complete with:
 - module covers
 - protective film for door
 - cable-clip accessory
 - rigid flange for branch connections with conduits
 - 1 self-adhesive indicator strip per row
 - 1 plate for CEI 23-51 certification
 - instruction sheet
 - 4 protection caps
- to meet the installation needs of flush-mounting consumer units, separate codes are available for the flush-mounting box with terminal bars.



IMQ mark



IP40 Unibox Series wall-mounting consumer units obtained the IMQ mark of approval

IP 40 wall-mounting consumer units

Unibox Series

8 modules

12 modules

24 modules

Without door

RAL 9016 white



FLC09047



FLC09048



FLC09049

Code	Colour	Dimensions (mm) WxHxD	Box/pack No items
12 208	white	215x220x105	1/9

Code	Colour	Dimensions (mm) WxHxD	Box/pack No items
12 212	white	295x245x115	1/7

Code	Colour	Dimensions (mm) WxHxD	Box/pack No items
12 214	white	295x390x115	1/5

With opaque, vertically hinged door

RAL 9016 white



FLC09060



FLC09059



FLC09058

Code	Colour	Dimensions (mm) WxHxD	Box/pack No items
12 238	white	215x220x105	1/9
M12238000U	white with terminal bars	215x220x105	1/9

Code	Colour	Dimensions (mm) WxHxD	Box/pack No items
12 242	white	295x245x115	1/7
M12242000A	white with terminal bars	295x245x115	1/7

Code	Colour	Dimensions (mm) WxHxD	Box/pack No items
12 244	white	295x390x115	1/5
M12244000U	white with terminal bars	295x390x115	1/5

With transparent, smoky vertically hinged door

RAL 9016 white



FLC09052



FLC09053



FLC09054

Code	Colour	Dimensions (mm) WxHxD	Box/pack No items
12 258	white	215x220x105	1/9
M12258000U	white with terminal bars	215x220x105	1/9

Code	Colour	Dimensions (mm) WxHxD	Box/pack No items
12 262	white	295x245x115	1/7
M12262000A	white with terminal bars	295x245x115	1/7

Code	Colour	Dimensions (mm) WxHxD	Box/pack No items
12 264	white	295x390x115	1/5
M12264000U	white with terminal bars	295x390x115	1/5

IP 40 wall-mounting consumer units

Unibox Series

2

36 modules

54 modules

Without door

RAL 9016 white



Code	Colour	Dimensions (mm) WxHxD	Box/pack No items
12 216	white	295x515x115	1/3



Code	Colour	Dimensions (mm) WxHxD	Box/pack No items
12 217	white	405x515x115	1/1

With opaque, vertically hinged door

RAL 9016 white



Code	Colour	Dimensions (mm) WxHxD	Box/pack No items
12 246	white	295x515x115	1/3
M12246000U	white with terminal bars	295x515x115	1/3



Code	Colour	Dimensions (mm) WxHxD	Box/pack No items
12 247	white	405x515x115	1/1
M12247000U	white with terminal bars	405x515x115	1/3

With transparent, smoky vertically hinged door

RAL 9016 white



Code	Colour	Dimensions (mm) WxHxD	Box/pack No items
12 266	white	295x515x115	1/3
M12266000U	white with terminal bars	295x515x115	1/3



Code	Colour	Dimensions (mm) WxHxD	Box/pack No items
12 267	white	405x515x115	1/1
M12267000U	white with terminal bars	405x515x115	1/1

Terminal bars configuration

No modules	N (holes x mm ²)
8	(10 x 16) + (3 x 25)
12	(10 x 16) + (3 x 25)
24	(16 x 16) + (3 x 25) + (5 x 16)
36	(15 x 16) + (6 x 25) + (5 x 16)
54	(19 x 16) + (6 x 25)

No modules	PE (holes x mm ²)
8	(5 x 16)
12	(10 x 16) + (3 x 25)
24	(16 x 16) + (3 x 25) + (5 x 16)
36	(15 x 16) + (6 x 25) + (5 x 16)
54	(19 x 16) + (6 x 25)

IP 40 wall-mounting consumer units

Accessories for Unibox Series

Terminal blocks

The complete terminal blocks are composed of a combination of terminal holders and terminal bars as indicated in the description, with the terminal bars already mounted on terminal holders.

Configuration of the complete terminal block is standard. For different requirements (customized terminal block), the terminal holders and bars must be procured separately in the versions indicated in the table.



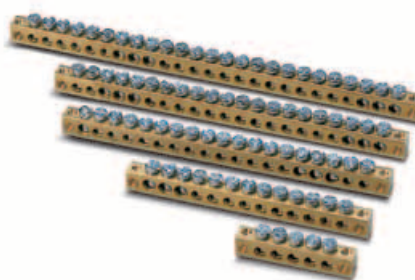
Code	Description	Box/pack No items
12 492	for 8 modules – composed of 12540x1 + 12531x1 + 12532x1	10/40
12 495	for 12 modules – composed of 12541x1 + 12532x2	10/40
12 504	for 24 modules – composed of 12541x2 + 12531x2 + 12533x2	10/40
12 505	for 36 modules – composed of 12541x2 + 12531x2 + 12534x2	10/40
12 501	for 54 modules – composed of 12542x2 + 12535x2	5/20

Terminal-holders

RAL 7035 grey



Terminal bars



Code	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

Code	Description No of holes x Ø holes (mm) + No of holes x mm ²	Box/pack No items
12 531	5x16	20/240
12 532	10x16 + 3x25	20/240
12 533	16x16 + 3x25	20/240
12 534	15x16 + 6x25	20/240
12 535	19x16 + 6x25	20/240

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.

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

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 Unibox Series

Spare doors



FLC09277

Opaque

white
RAL 9016

	For consumer units type	Box/pack No items
12 511	12 238	1/25
12 512	12 242	1/15
12 513	12 244	1/10
12 514	12 246	1/5
12 515	12 247	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 code No 12 526 (in packs of 5 items) should be always ordered with each door.

Lock with key



FLC09274

Code	Description	Box/pack No items
12 530	coded type	20/300

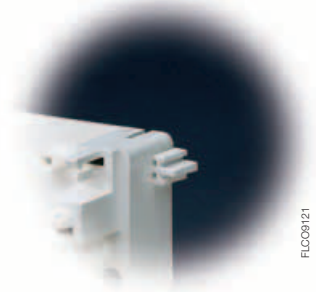
Module covers



FLC09118

Code	Colour	No modules	Box/pack No items
1SL2857A00	RAL 9016 white	1	50/1500
1SL2859A00	RAL 9016 white	4	25/300

Coupling element

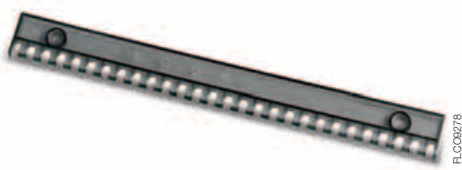


FLC09121

Code	Box/pack No items
12 556	10/100

Cable-clip accessory

Not available for consumer units with 8 modules



FLC09278

Code	Box/pack No items
12 550	1/30

Residential/tertiary application



FLC09803

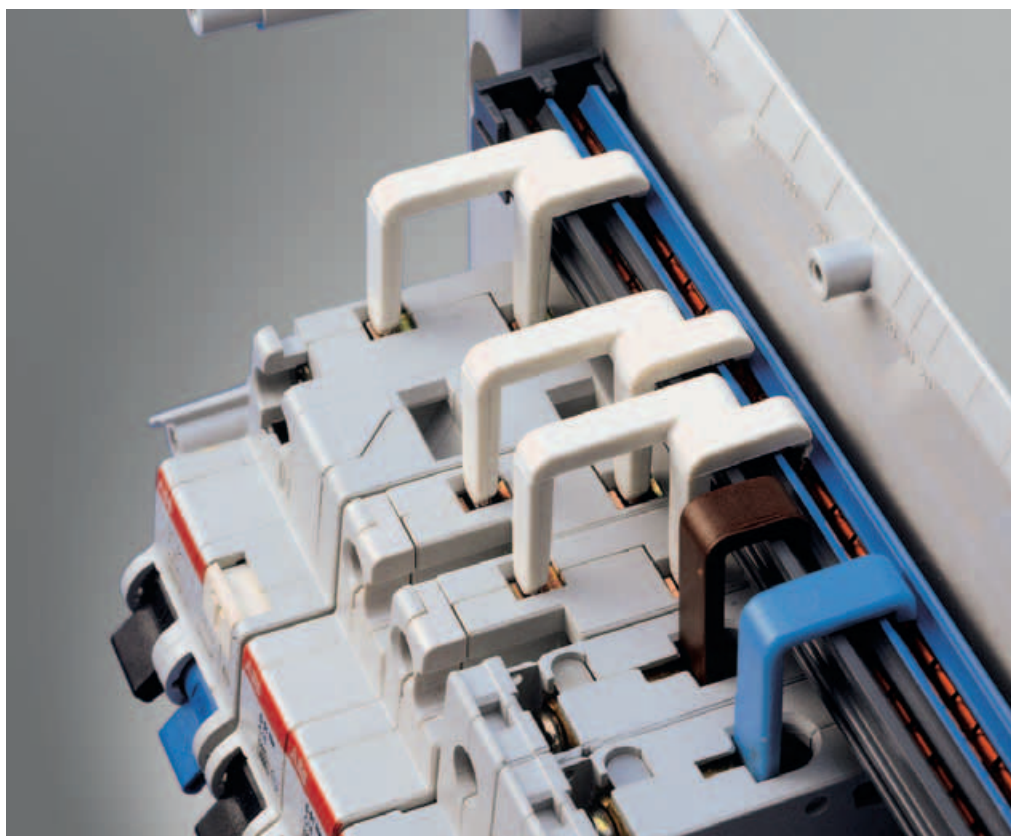
IP 40 wall-mounting consumer units

Europa Series

2

Technical characteristics

- protection degree 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 9016 white and RAL 7035 grey thermoplastic, self-extinguishing and resistant to abnormal heat and fire up to 650 °C (glow wire flammability index) in compliance with IEC 60695-2-11 Standard
- installation temperature from -25 °C to +60 °C
- resistant to heat: ball thermopressure up to +85 °C in compliance with EN 60695-10-2 Standard
- shock resistance 6 Joules
- symmetrical, reversible door to open on either sides, designed to be fitted with a coded lock code 12 864
- 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
- consumer units manufactured in compliance with CEI 23-49 (1996) + V1 + V2, CB certificate IEC 60670-24 Standards
- consumer units are supplied complete with:
 - module covers
 - 1 rigid flange for branch connection with conduit
 - 1 self-adhesive indicator strip per row
 - 1 plate for CEI 23-51 certification
 - instruction sheet
 - 4 protection caps
- to meet the installation needs of flush-mounting consumer units, separate codes are available for the flush-mounting box with terminal bars.



IMQ mark



IP 40 Europa Series wall-mounting consumer units obtained the IMQ mark of approval

IP 40 wall-mounting consumer units

Europa Series

8 modules

12 modules

24 modules

Without door

RAL 9016 white / RAL 7035 grey



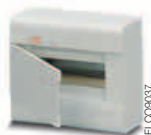
Code	Colour	Dimensions (mm) WxHxD	Box/pack No items
1SL2408A00	white	230x200x95	1/12
12 428	grey	230x200x95	1/12

Code	Colour	Dimensions (mm) WxHxD	Box/pack No items
1SL2412A00	white	305x200x95	1/10
12 432	grey	305x200x95	1/10

Code	Colour	Dimensions (mm) WxHxD	Box/pack No items
1SL2414A00	white	305x350x95	1/6
12 434	grey	305x350x95	1/6

With opaque, vertically hinged door

RAL 9016 white / RAL 7035 grey



Code	Colour	Dimensions (mm) WxHxD	Box/pack No items
1SL2438A00	white	230x200x95	1/12
1SL2438A06	white with terminal bars	230x200x95	1/12
12 448	grey	230x200x95	1/12

Code	Colour	Dimensions (mm) WxHxD	Box/pack No items
1SL2442A00	white	305x200x95	1/10
1SL2442A06	white with terminal bars	305x200x95	1/10
12 452	grey	305x200x95	1/10

Code	Colour	Dimensions (mm) WxHxD	Box/pack No items
1SL2444A00	white	305x350x95	1/6
1SL2444A13	white with terminal bars	305x350x95	1/6
12 454	grey	305x350x95	1/6

With transparent, smoky vertically hinged door

RAL 9016 white / RAL 7035 grey



Code	Colour	Dimensions (mm) WxHxD	Box/pack No items
1SL2458A00	white	230x200x95	1/12
1SL2458A06	white with terminal bars	230x200x95	1/12
12 468	grey	230x200x95	1/12

Code	Colour	Dimensions (mm) WxHxD	Box/pack No items
1SL2462A00	white	305x200x95	1/10
1SL2462A06	white with terminal bars	305x200x95	1/10
12 472	grey	305x200x95	1/10

Code	Colour	Dimensions (mm) WxHxD	Box/pack No items
1SL2464A00	white	305x350x95	1/6
1SL2464A13	white with terminal bars	305x350x95	1/6
12 474	grey	305x350x95	1/6

IP 40 wall-mounting consumer units

Europa Series

2

36 modules

54 modules

Without door

RAL 9016 white / RAL 7035 grey



FLC09035



FLC09036

Code	Colour	Dimensions (mm) WxHxD	Box/pack No items
1SL2416A00	white	305x545x120	1/3
12 436	grey	305x545x120	1/3

Code	Colour	Dimensions (mm) WxHxD	Box/pack No items
1SL2417A00	white	380x570x120	1/2
12 437	grey	380x570x120	1/2

With opaque, vertically hinged door

RAL 9016 white / RAL 7035 grey



FLC09040



FLC09041

Code	Colour	Dimensions (mm) WxHxD	Box/pack No items
1SL2446A00	white	305x545x120	1/3
1SL2446A14	white with terminal bars	305x545x120	1/3
12 456	grey	305x545x120	1/3

Code	Colour	Dimensions (mm) WxHxD	Box/pack No items
1SL2447A00	white	380x570x120	1/2
1SL2447A07	white with terminal bars	380x570x120	1/2
12 457	grey	380x570x120	1/2

With transparent, smoky vertically hinged door

RAL 9016 white / RAL 7035 grey



FLC09045



FLC09046

Code	Colour	Dimensions (mm) WxHxD	Box/pack No items
1SL2466A00	white	305x545x120	1/3
1SL2466A14	white with terminal bars	305x545x120	1/3
12 476	grey	305x545x120	1/3

Code	Colour	Dimensions (mm) WxHxD	Box/pack No items
1SL2467A00	white	380x570x120	1/2
1SL2467A07	white with terminal bars	380x570x120	1/2
12 477	grey	380x570x120	1/2

Terminal bars configuration

No modules	N (holes x mm ²)
8	(10 x 16) + (3 x 25)
12	(10 x 16) + (3 x 25)
24	(16 x 16) + (3 x 25)
36	(15 x 16) + (6 x 25)
54	(19 x 16) + (6 x 25)

No modules	PE (holes x mm ²)
8	(5 x 16)
12	(10 x 16) + (3 x 25)
24	(16 x 16) + (3 x 25)
36	(15 x 16) + (6 x 25)
54	(19 x 16) + (6 x 25)

IP 40 wall-mounting consumer units

Accessories for Europa Series

Terminal blocks

The complete terminal blocks are composed of a combination of terminal holders and terminal bars as indicated in the description, with the terminal bars already mounted on terminal holders.

Configuration of the complete terminal block is standard. For different requirements (customized terminal block), the terminal holders and bars must be procured separately in the versions indicated in the table.

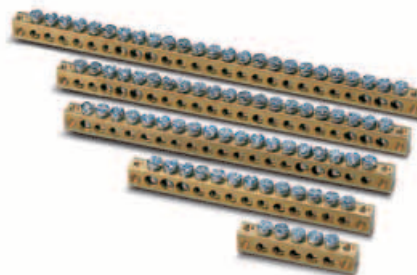


Code	Description	Box/pack No items
12 492	for 8 modules – composed of 12540x1 + 12531x1 + 12532x1	10/40
12 495	for 12 modules – composed of 12541x1 + 12532x2	10/40
12 504	for 24 modules – composed of 12541x2 + 12531x2 + 12533x2	10/40
12 505	for 36 modules – composed of 12541x2 + 12531x2 + 12534x2	10/40
12 497	for 54 modules – composed of 12543x2 + 12535x2	10/40

Terminal holders



Terminal bars



Code	Description	For consumer units type	Box/pack No items
12 540	for 8 modules	1SL2408A00 – 12 428 – 1SL2438A00 12 448 – 1SL2458A00 – 12 468	12/144
12 541	for 12 modules per row	1SL2412A00 – 12 432 – 1SL2442A00 12 452 – 1SL2462A00 – 12 472 1SL2414A00 – 12 434 – 1SL2444A00 12 454 – 1SL2464A00 – 12 474 1SL2416A00 – 12 436 – 1SL2446A00 12 456 – 1SL2466A00 – 12 476	12/144
12 543	for 18 modules per row	1SL2417A00 – 12 437 – 1SL2447A00 12 457 – 1SL2467A00 – 12 477	12/108

Code	Description No of holes x Ø holes (mm) + No of holes x mm ²	Box/pack No items
12 531	5x16	20/240
12 532	10x16 + 3x25	20/240
12 533	16x16 + 3x25	20/240
12 534	15x16 + 6x25	20/240
12 535	19x16 + 6x25	20/240

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.

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

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 Europa Series

2

Spare doors



FLC09234

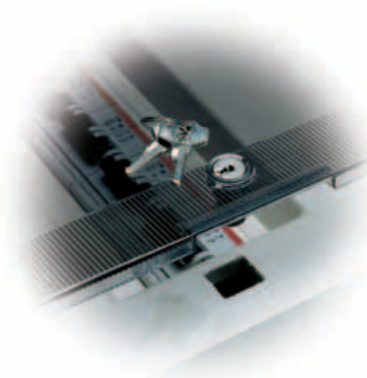
Opaque

white RAL 9016	grey RAL 7035	For consumer units type	Box/pack No items
1SL2078A00	12 070	1SL2438A00 – 12 448	1/50
1SL2079A00	12 071	1SL2442A00 – 12 452	1/50
1SL2080A00	12 072	1SL2444A00 – 12 454	1/25
1SL2081A00	12 073	1SL2446A00 – 12 456	1/10
1SL2095A00	12 094	1SL2447A00 – 12 457	1/10

Transparent smoky

	For consumer units type	Box/pack No items
12 074	1SL2458A00 – 12 468	1/50
12 075	1SL2462A00 – 12 472	1/50
12 076	1SL2464A00 – 12 474	1/25
12 077	1SL2466A00 – 12 476	1/20
12 096	1SL2467A00 – 12 477	1/10

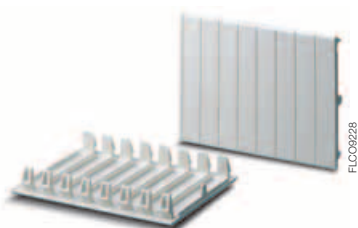
Lock with key



FLC09233

Code	Description	Box/pack No items
12 864	coded type	10/300

Module covers



FLC09228

Code	Colour	No modules	Box/pack No items
1SL2857A00	RAL 9016 white	1	50/1500
1SL2859A00	RAL 9016 white	4	25/300
12 861	RAL 7035 grey	1	50/1500
12 863	RAL 7035 grey	4	25/300

Screw lead sealing accessory



1SLC001014F0001

Code	Box/pack No items
12 860	50/1500

Residential/tertiary applications



FLO03807

IP 40 wall-mounting consumer units

Europa Polycarbonate Series

Technical characteristics

- protection degree IP 40
- insulation class II 
- available in self-extinguishing **polycarbonate** resistant to abnormal heat and fire up to 960 °C (glow wire flammability index) in compliance with IEC 60695-2-11 Standard
- available in **RAL 7035 grey**
- installation temperature from -25 °C to +60 °C
- resistant to heat: ball thermopressure up to +125 °C
- shock resistance 20 Joules (**IK level 10**)
- **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
- models with 8 modules and more fitted with one rigid and one bi-material flange for facilitate input of conduits and cables
- models with 8 modules and more designed for the use of the **UNIFIX L fast-cabling system**
- consumer units manufactured in compliance with CEI 23-49 (1996) + V1 + V2, CB certificate IEC 60670-24 Standards
- consumer units are supplied complete with:
 - module covers
 - 1 self-adhesive indicator strip per row
 - 1 plate for CEI 23-51 certification 
 - 4 screw-cover caps for guarantee 
 - instruction sheet



IMQ mark



IP40 Europa Polycarbonate Series
wall-mounting consumer units
obtained the IMQ mark of approval

IP 40 wall-mounting consumer units

Europa Polycarbonate Series

2-4 modules

4 modules

8 modules

12 modules

Without door

RAL 7035 grey

2



Code	Dimensions (mm) WxHxD	Box/pack No items
12 702	105x175x85	1/36

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

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

Code	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



FL009067

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



FL009066

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



FL009068

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

IP 40 wall-mounting consumer units

Accessories for Europa Polycarbonate Series

Terminal blocks

The complete terminal blocks are composed of a combination of terminal holders and terminal bars as indicated in the description, with the terminal bars already mounted on terminal holders.

Configuration of the complete terminal block is standard. For different requirements (customized terminal block), the terminal holders and bars must be procured separately in the versions indicated in the table.



Code	Description	Box/pack No items
12 490	for 4 modules – composed of 12538x2 + 12531x2	10/60
12 491	for 8 modules – composed of 12539x2 + 12531x2	10/60
12 492	for 12 modules – composed of 12540x1 + 12531x1 + 12532x1	10/40
12 494	for 24 modules – composed of 12540x2 + 12533x2	10/40
12 493	for 36 modules (3 rows) – composed of 12540x2 + 12534x2	10/40
12 497	for 54 modules – composed of 12543x2 + 12535x2	10/40

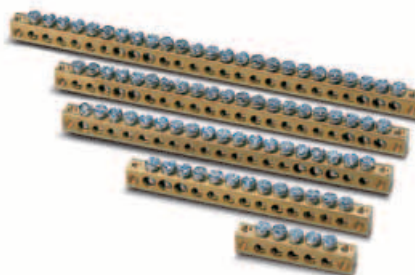
Terminal holders



Code	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	12/144

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

Terminal bars



Code	Description No of holes x Ø holes (mm) + No of holes x mm²	Box/pack No items
12 531	5x16	20/240
12 532	10x16 + 3x25	20/240
12 533	16x16 + 3x25	20/240
12 534	15x16 + 6x25	20/240
12 535	19x16 + 6x25	20/240

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.

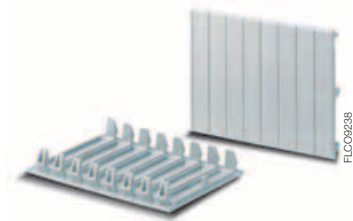
Terminal holders and terminal bars are supplied separately. In this way, by inserting one or two terminal bars into the terminal holder you can create the best terminal for your requirements, with the advantage of obtaining a terminal block that is cheap as well as personalised, due to the fact that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

Module covers



Code	Colour	No modules	Box/pack No items
12 861	RAL 7035 grey	1	50/1500
12 863	RAL 7035 grey	4	25/300

Wall brackets



Code	Description	Box/pack No items
12 858	in insulating material	20/240

Screw lead sealing accessory



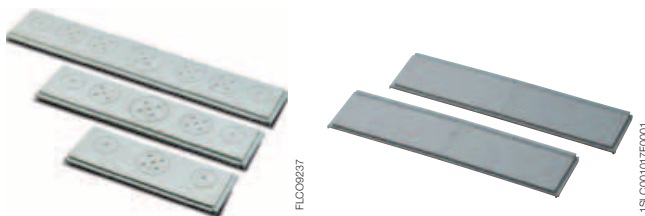
Code	Box/pack No items
12 860	50/1500

Semi-flush-mounting frames



Code	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



Code	For consumer units with	Box/pack No items
12 600	8 modules, bi-material	30/120
12 601	12, 24, 36 (12x3 rows) modules, bi-material	20/80
12 602	54 modules, bi-material	20/80
1SL0550A00	rigid flange 8 modules per row	30/120
1SL0551A00	rigid flange 12 modules per row	20/80
1SL0552A00	rigid flange 18 modules per row	20/80

Residential/tertiary applications



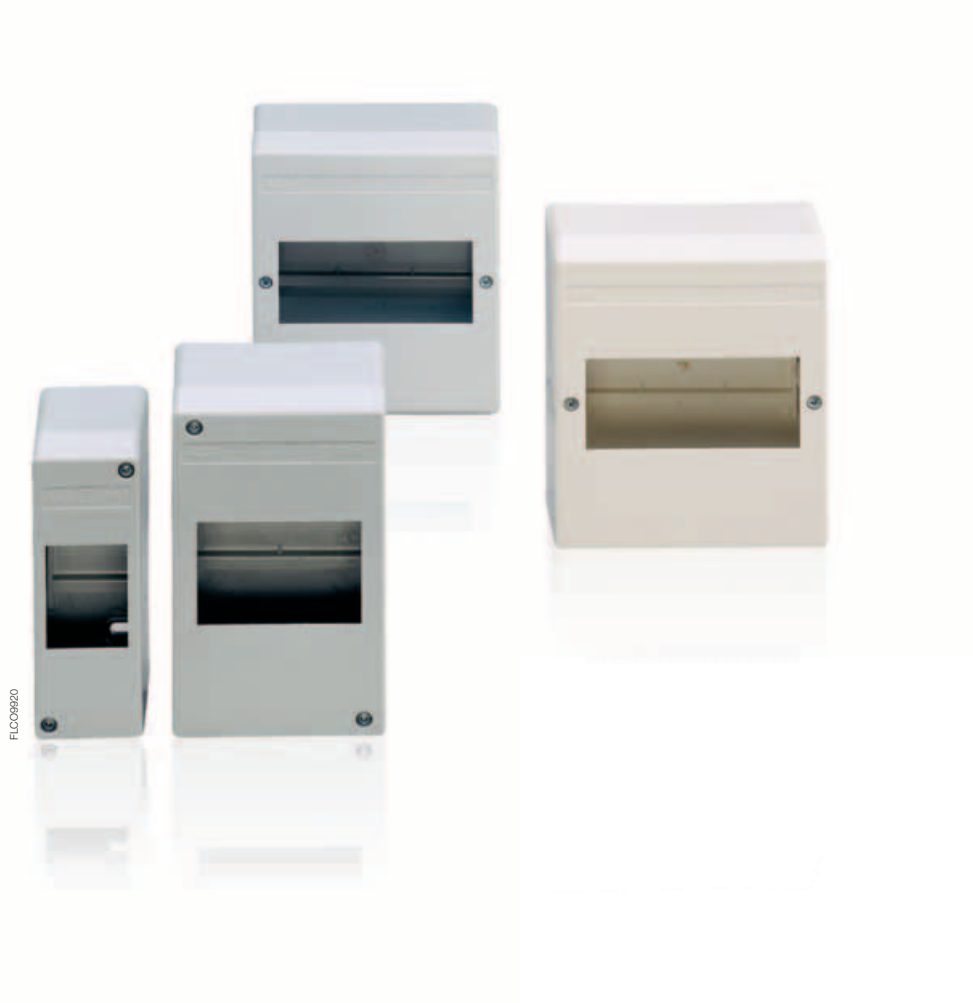
FLOO862

IP 40 wall-mounting consumer units

Wall-mounting covers

Technical characteristics

- protection degree IP 40
- available in material:
 - thermoplastic RAL 9016 white and RAL 7035 grey self-extinguishing and resistant to abnormal heat and fire up to 650 °C (glow wire flammability index) in compliance with IEC 60695-2-11 Standard
- installation temperature from -25 °C to +60 °C
- resistant to heat: ball thermopressure up to +85 °C in compliance with EN 60695-10-2 Standard
- shock resistance 6 Joules
- covers produced in compliance with CEI 23-49 (1996) + V1 + V2, CB certificate IEC 60670-24 Standards



IP 40 wall-mounting consumer units

Wall-mounting covers

2 modules

4 modules

6 modules

Without door

RAL 9016 white - RAL 7035 grey



Code	Colour	Dimensions (mm) WxHxD	Box/pack No items
1SL2402A00	white	50x140x65	1/45
12 422	grey	50x140x65	1/45

Code	Colour	Dimensions (mm) WxHxD	Box/pack No items
1SL2404A00	white	95x160x65	1/20
12 424	grey	95x160x65	1/20

Code	Colour	Dimensions (mm) WxHxD	Box/pack No items
1SL2406A00	white	140x160x65	1/12
12 426	grey	140x160x65	1/12

IP 40 wall-mounting consumer units

Accessories for wall-mounting covers

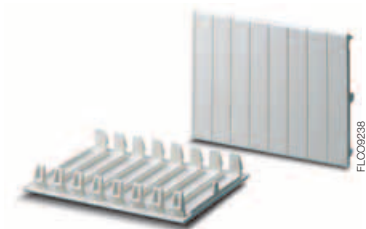
Terminal bars



Code	Description No of holes x Ø holes (mm) + No of holes x mm²	For covers type	Box/pack No items
12 502	2x16 + 3x25	12 404 –12 406 12 424 –12 426	25/750

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

Module covers



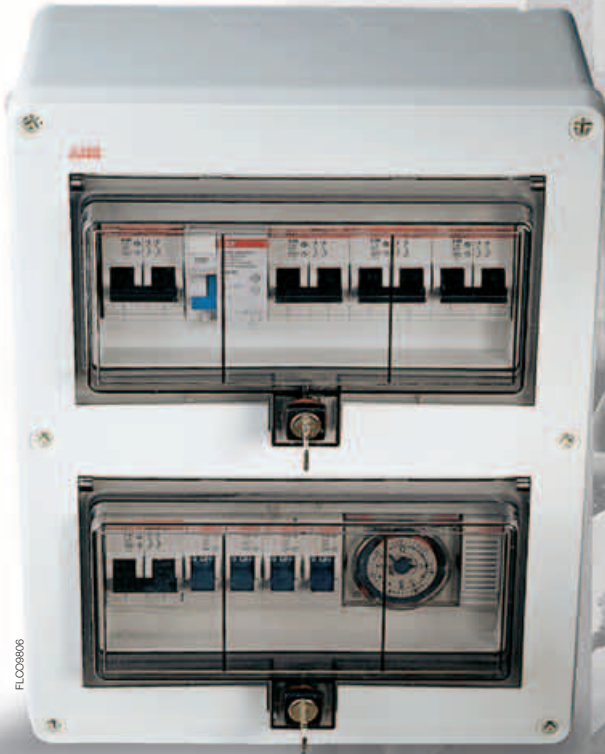
Code	Colour	No modules	Box/pack No items
1SL2857A00	RAL 9016 white	1	50/1500
1SL2859A00	RAL 9016 white	4	25/300
12 861	RAL 7035 grey	1	50/1500
12 863	RAL 7035 grey	4	25/300

Screw lead sealing accessory



Code	Box/pack No items
12 860	50/1500

Residential/tertiary application



FLOO9806

IP 55 wall-mounting consumer units

IP 55 Europa Series

Technical characteristics

- protection degree IP 55
- insulation class II 
- available with transparent, smoky horizontally hinged door in the version with sealable spring closure
- available in RAL 7035 grey
- available in thermoplastic self-extinguishing material resistant to abnormal heat and fire up to 650 °C (glow wire flammability index) in compliance with IEC 60695-2-11 Standard
- installation temperature from -25 °C to +60 °C
- resistant to heat: ball thermopressure up to +85 °C in compliance with EN 60695-10-2 Standard
- shock resistance 6 Joules
- 10 and 20 module consumer units can be attached to the wall with brackets code 12 858
- consumer units made and produced in compliance with CEI 23-49 (1996) + V1 + V2, CB certificate IEC 60670-24 Standards
- consumer units are supplied complete with:
 - module covers
 - 1 plate for CEI 23-51 certification
 - 4 protection caps



FLC09696

IP 55 wall-mounting consumer units

IP 55 Europa Series

4 modules

6 modules

10 modules

Spring closing

RAL 7035 grey



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

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

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

20 modules

10 special modules

Spring closing

RAL 7035 grey



Code	Dimensions (mm) WxHxD	Box/pack No items
12 652	250x320x139	1/6

Code	Dimensions (mm) WxHxD	Box/pack No items
12 654	250x320x139	1/6

IP 55 wall-mounting consumer units

Accessories for IP 55 Europa Series

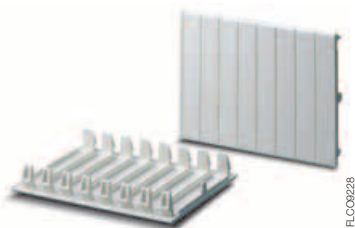
2

Terminal blocks



Code	Description		For consumer units type	Box/pack No items
	Neutral terminal blocks No of holes x Ø holes (mm) + No of holes x mm²	Earth terminal blocks No of holes x Ø holes (mm) + No of holes x mm²		
12 880	2x16 + 3x25	2x16 + 3x25	12 644 –12 684	10/60
12 882	6x16 + 5x25	2x16 + 3x25	12 646 –12 686	10/60
12 884	6x16 + 5x25	2x16 + 3x25	12 650 –12 690	10/40
12 886	2 (6x16 + 5x25)	2 (2x16 + 3x25)	12 652 –12 692 –12 654	10/40

Module covers



Code	Colour	No modules	Box/pack No items
12 861	RAL 7035 grey	1	50/1500
12 863	RAL 7035 grey	4	25/300

Wall brackets



Code	Description	For consumer units with	Box/pack No items
12 858	in insulating material	8,10 modules	20/240

Lock with key



Code	Description	Box/pack No items
12 865	coded type	10/300

Spare transparent smoky door

Spring closing



Code	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	10/20
	12 652 – 12 692 – 12 654	

Residential/tertiary/industrial application



FLO9805

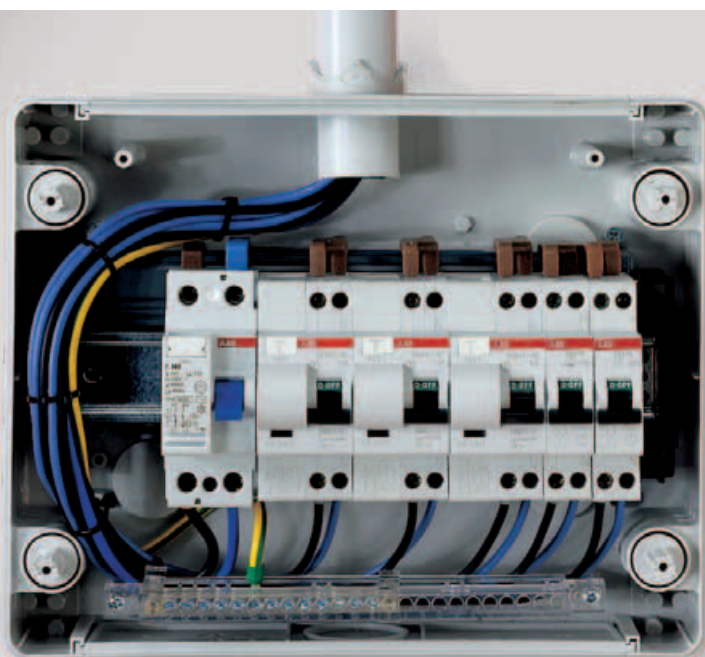
IP 65 wall-mounting consumer units

IP 65 Fly Series

Technical characteristics

- protection degree IP 65
- insulation class II 
- consumer units fitted with **transparent, smoky horizontally hinged doors** for each row of devices, designed to be fitted with coded lock and key, code 12 866
- available in **RAL 7035 grey**
- in **thermoplastic** material, self-extinguishing and resistant to abnormal heat and fire up to 650 °C (glow wire flammability index) in compliance with IEC 60695-2-11 Standard
- installation temperature from -25 °C to +60 °C
- resistant to heat: ball thermopressure up to +85 °C in compliance with EN 60695-10-2 Standard
- shock resistance 6 Joules (**IK level 08**)
- **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
- models with 8 modules and more fitted with one rigid and one bi-material flange for facilitated input of conduits and cables
- models with 8 modules and more designed to be used with **rapid UNIFIX L cabling system**
- consumer units made and produced in compliance with CEI 23-49 (1996) + V1 + V2, CB certificate IEC 60670-24 Standards
- consumer units are supplied complete with:
 - module covers
 - 4 screw cover caps for guarantee 
 - 1 self-adhesive indicator strip per row
 - 1 plate for CEI 23-51 certification
 - instruction sheet

2



1SLC001018F0001



IP 65 wall-mounting consumer units

IP 65 Fly Series

2-4 modules

8 modules

12 modules

With transparent, horizontally hinged door

RAL 7035 grey

2



Code	Dimensions (mm) WxHxD	Box/pack No items
12 742	105x175x111	1/33
12 722¹⁾	105x175x111	1/33



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



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

¹⁾ Version with opaque door.

IP 65 wall-mounting consumer units

IP 65 Fly Series

- 24 modules
- 36 modules

With transparent, horizontally hinged door

RAL 7035 grey



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



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

IP 65 wall-mounting consumer units

Accessories for IP 65 Fly Series

Terminal blocks

The complete terminal blocks are composed of a combination of terminal holders and terminal bars as indicated in the description, with the terminal bars already mounted on terminal holders.

Configuration of the complete terminal block is standard. For different requirements (customized terminal block), the terminal holders and bars must be procured separately in the versions indicated in the table.



Code	Description	Box/pack No items
12 491	for 8 modules – composed of 12539x2 + 12531x2	10/60
12 492	for 12 modules – composed of 12540x1 + 12531x1 + 12532x1	10/40
12 494	for 24 modules – composed of 12540x2 + 12533x2	10/40
12 493	for 36 modules (3 rows) – composed of 12540x2 + 12534x2	10/40

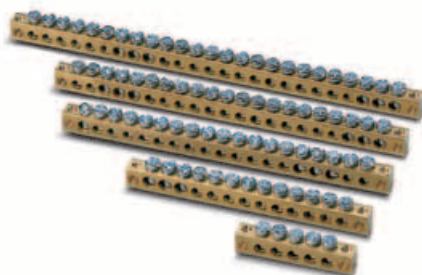
Terminal holders



Code	Description	For consumer units type	Box/pack No items
12 539	for 8 modules	12 743	12/144
12 540	for 12 modules per row	12 745 – 12 746 – 12 747	12/144

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

Terminal bars



Code	Description	Box/pack No items
No of holes x Ø holes (mm) + No of holes x mm²		
12 531	5x16	20/240
12 532	10x16 + 3x25	20/240
12 533	16x16 + 3x25	20/240
12 534	15x16 + 6x25	20/240
12 535	19x16 + 6x25	20/240

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.

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.

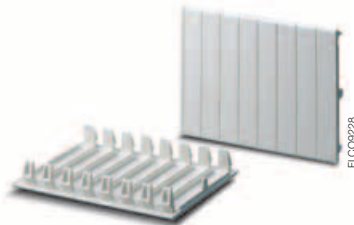
All the possible configurations that can be created for each type of consumer unit given in the technical details.

IP 65 wall-mounting consumer units

Accessories for IP 65 Fly Series

2

Module covers



Code	Colour	No modules	Box/pack No items
12 861	RAL 7035 grey	1	50/1500
12 863	RAL 7035 grey	4	25/300

Plastic wall brackets



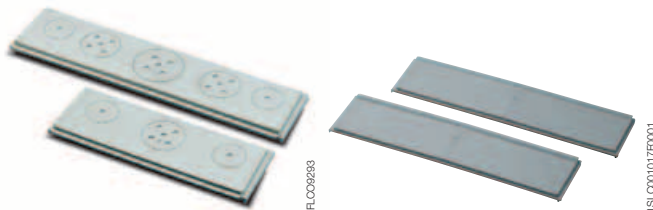
Code	Description	Box/pack No items
12 858	in insulating material	20/240

Screw lead sealing accessories



Code	Box/pack No items
12 860	50/1500

Spare flanges



Code	For consumer units type	Box/pack No items
12 600	8 modules, bi-material	30/120
12 601	12, 24, 36 (12x3 rows) modules, bi-material	20/80
1SL0550A00	rigid flange, 8 modules per row	30/120
1SL0551A00	rigid flange, 12 modules per row	20/80

Spare doors



Code	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	10/60
12 566	transparent for 12, 24, 36 (12x3 rows) mod.	12 745 – 12 746 12 747	8/16

Semi-flush-mounting frames



Code	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

Lock with key



Code	Description	Box/pack No items
12 866	coded type	10/300

Residential/tertiary/industrial application



FLO9804

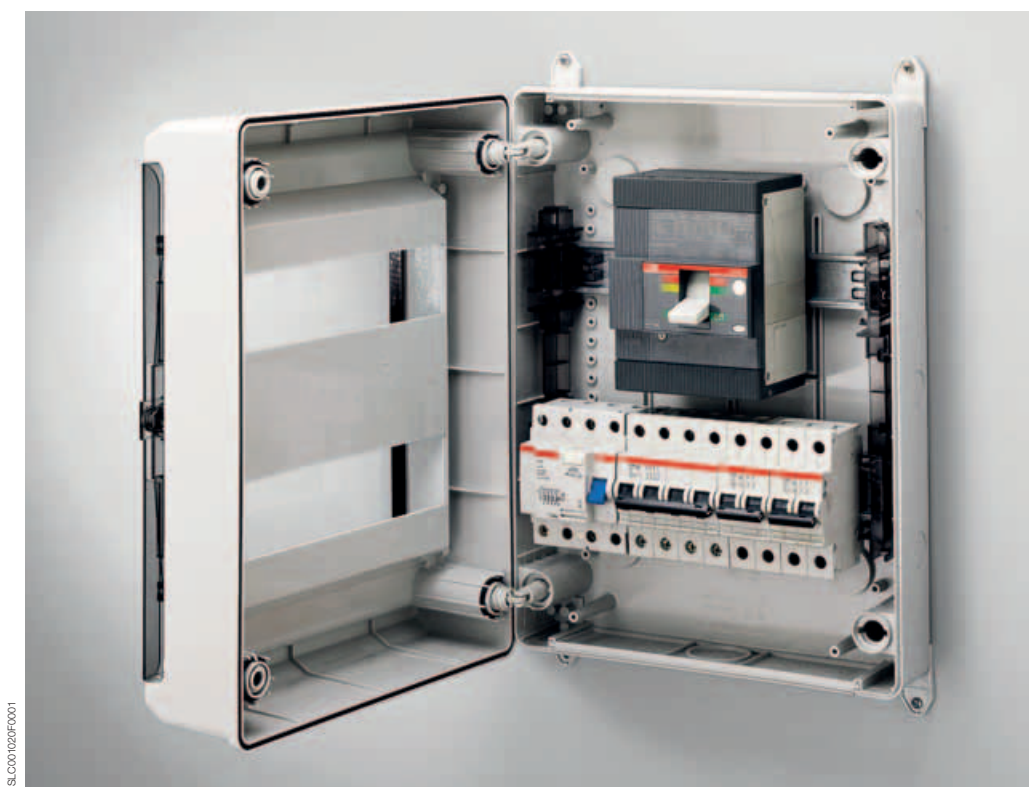
IP 65 wall-mounting consumer units

IP 65 Europa Series

Technical characteristics

- protection degree IP 65
- insulation class II 
- available in two versions: with opaque door and with transparent, smoky vertically hinged door
- available in RAL 7035 grey
- in thermoplastic material, self-extinguishing and resistant to abnormal heat and fire up to 650 °C (glow wire flammability index) in compliance with IEC 60695-2-11 Standard
- installation temperature from -25 °C to +60 °C
- resistant to heat: ball thermopressure up to +85 °C in compliance with EN 60695-10-2 Standard
- shock resistance 6 Joules (IK level 08)
- rated insulation voltage: 1000 V AC; 1500 V DC
- door designed to be fitted with coded lock and key, code 12 866
- **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
- models with 8 modules and more designed to be used with the UNIFIX L cabling system
- models with 8 modules and more fitted with one rigid and one bi-material flange to facilitate input of conduits and cables
- consumer units made and produced in compliance with CEI 23-49 (1996) + V1 + V2, CB certificate IEC 60670-24 Standards
- consumer units are supplied complete with:
 - module covers
 - 4 screw-cover caps to guarantee 
 - accessories for attaching the hinges to the front
 - 1 self-adhesive indicator strip per row
 - 1 plate for CEI 23-51 certification
 - instruction sheet

2



IMQ mark



IP 65 Europa Series wall-mounting consumer units obtained the IMQ mark of approval

IP 65 wall-mounting consumer units

IP 65 Europa Series

4 modules

8 modules

12 modules

18 modules

With opaque, vertically hinged door

RAL 7035 grey

2



FLO09089



FLO09090



FLO09091



FLO09092

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

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

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

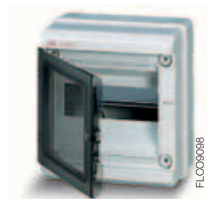
Code	Dimensions (mm) WxHxD	Box/pack No items
12 733	380x220x140	1/5

With transparent, smoky vertically hinged door

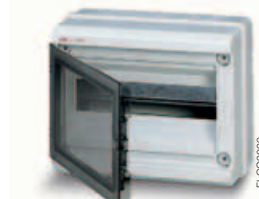
RAL 7035 grey



FLO09097



FLO09098



FLO09099



FLO09100

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

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

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

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

IP 65 wall-mounting consumer units

IP 65 Europa Series

24 modules

36 modules

36 modules

54 modules

With opaque, vertically hinged door

RAL 7035 grey

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

With transparent, smoky vertically hinged door

RAL 7035 grey

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

IP 65 wall-mounting consumer units

Accessories for Europa Series

Terminal blocks

The complete terminal blocks are composed of a combination of terminal holders and terminal bars as indicated in the description, with the terminal bars already mounted on terminal holders.

Configuration of the complete terminal block is standard. For different requirements (customized terminal block), the terminal holders and bars must be procured separately in the versions indicated in the table.

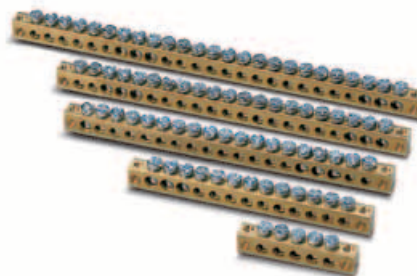


Code	Description	Box/pack No items
12 490	for 4 modules – composed of 12538x2 + 12531x2	10/60
12 491	for 8 modules – composed of 12539x2 + 12531x2	10/60
12 492	for 12 modules – composed of 12540x1 + 12531x1 + 12532x1	10/40
12 498	for 18 modules – composed of 12543x1 + 12531x1 + 12535x1	10/40
12 494	for 24 modules – composed of 12540x2 + 12533x2	10/40
12 493	for 36 modules (3 rows) – composed of 12540x2 + 12534x2	10/40
12 507	for 36 modules (2 rows) – composed of 12543x2 + 12534x2	10/40
12 497	for 54 modules – composed of 12543x2 + 12535x2	10/40

Terminal holders



Terminal bars



Code	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	12/144
		12 734 –12 754	
		12 736 –12 756	
12 543	for 18 modules per row	12 733 –12 753	12/108
		12 735 –12 755	
		12 738 –12 758	

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

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.

Code	Description No of holes x Ø holes (mm) + No of holes x mm ²	Box/pack No items
12 531	5x16	20/240
12 532	10x16 + 3x25	20/240
12 533	16x16 + 3x25	20/240
12 534	15x16 + 6x25	20/240
12 535	19x16 + 6x25	20/240

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 65 wall-mounting consumer units

Accessories for Europa Series

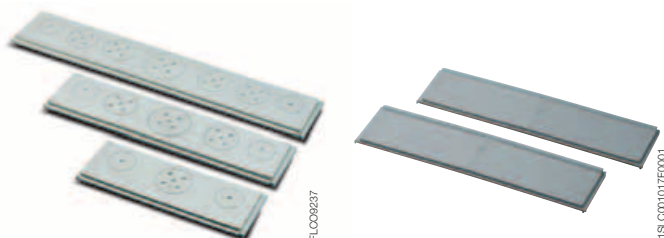
2

Module covers



Code	Colour	No modules	Box/pack No items
12 861	RAL 7035 grey	1	50/1500
12 863	RAL 7035 grey	4	25/300

Spare flanges



Code	For consumer units type	Box/pack No items
12 600	8 modules, bi-material	30/120
12 601	12, 24, 36 (12x3 rows) modules, bi-material	20/80
12 602	18, 36 (18x2 rows), 54 modules, bi-material	20/80
1SL0550A00	rigid flange, 8 modules per row	30/120
1SL0551A00	rigid flange, 12 modules per row	20/80
1SL0552A00	rigid flange, 18 modules per row	20/80

Lock with key



Code	Description	Box/pack No items
12 866	coded type	10/300

Plastic wall brackets



Code	Description	Box/pack No items
12 858	in insulating material	20/240

Semi-flush-mounting frames



Code	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 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

Tertiary/industrial application



Panel fronts

IP 40 and IP 55 panel fronts

IP 40 panel fronts

Technical characteristics

- protection degree IP 40
- in **thermoplastic**, self-extinguishing and resistant to abnormal heat and fire up to 650 °C (glow wire flammability index) in compliance with IEC 60695-2-11 Standard
- available in **RAL 7035 grey**
- installation temperature from -25 °C to +60 °C
- resistant to heat: ball thermopressure up to +85 °C in compliance with EN 60695-10-2 Standard
- fronts are supplied with:
 - module covers
 - instruction sheet

IP 55 panel fronts

Technical characteristics

- protection degree IP 55
- available with transparent, smoky horizontally hinged door in the version with lock and lead-sealable spring
- door designed to take a lock with coded key code 12 865
- available in **RAL 7035 grey**
- in **thermoplastic**, self-extinguishing and resistant to abnormal heat and fire up to 650 °C (glow wire flammability index) in compliance with IEC 60695-2-11 Standard
- installation temperature from -25 °C to +60 °C
- resistant to heat: ball thermopressure up to +85 °C in compliance with EN 60695-10-2 Standard
- shock resistance 6 Joules
- fronts are supplied with:
 - module covers
 - instruction sheet



IP 40 and IP 55 panel fronts

IP 40 and IP 55 panel fronts

2 modules

3 modules

4 modules

IP 40 panel fronts

RAL 7035 grey



Code	Dimensions (mm) WxHxD	Box/pack No items
12 362	81x90x50	10/40



Code	Dimensions (mm) WxHxD	Box/pack No items
12 363	99x90x50	10/40



Code	Dimensions (mm) WxHxD	Box/pack No items
12 364	117x90x50	6/24

4 modules

6 modules

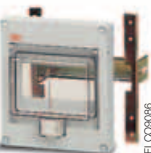
10 modules

IP 55 panel fronts

RAL 7035 grey
Spring closing



Code	Dimensions (mm) WxHxD	Box/pack No items
12 658	125x180x80	1/10



Code	Dimensions (mm) WxHxD	Box/pack No items
12 659	160x180x80	1/10



Code	Dimensions (mm) WxHxD	Box/pack No items
12 660	230x180x80	1/7

IP 40 and IP 55 panel fronts

Accessories for IP 55 panel fronts

Module covers



Code	Colour	No modules	Box/pack No items
12 861	RAL 7035 grey	1	50/1500
12 863	RAL 7035 grey	4	25/300

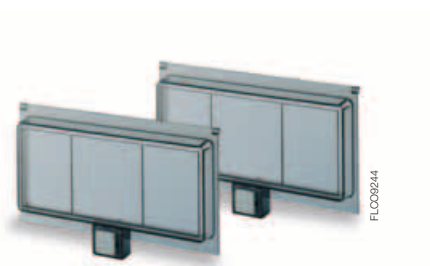
Lock with key



Code	Description	Box/pack No items
12 865	coded type	10/300

Spare transparent smoky doors

Spring closing



Code	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
Flush- and wall- mounting consumer units with emergency button	3/3
Accessories	3/6

Tertiary/industrial application



FLC00816

Emergency consumer units

Livorno Series flush- and wall- mounting consumer units

Livorno Series flush- and wall- mounting consumer units Technical characteristics

- protection degree IP40, IP55 or IP65 depending on the version
- available in the colours **RAL 3000 red** and **RAL 7035 grey**
- installation temperature from -25 °C to +60 °C
- resistant to heat: ball thermopressure up to +85 °C in compliance with EN 60695-10-2 Standard
- door front with **breakable glass 0.75 Joules (IK level 05)**
- in thermoplastic material, self-extinguishing and resistant to abnormal heat and fire up to 650 °C (glow wire flammability index) in compliance with IEC 60695-2-11 Standard
- consumer units fitted with lock and coded key
- consumer units are supplied complete with:
 - module covers (versions with DIN rail)
 - 4 screw-cover caps
 - 1 certification plate

Livorno Series consumer units with emergency button Technical characteristics

- protection degree **IP55**
- flush and wall-mounting versions
- available in colour **RAL 3000 red**
- installation temperature from -25 °C to +60 °C
- door front with breakable **glass 0.75 Joules (IK level 05)**
- in thermoplastic material, self-extinguishing and resistant to abnormal heat and fire up to 650 °C (glow wire flammability index) in compliance with IEC 60695-2-11 Standard
- with luminous button, with 1 NO contact + 1 NC contact (2 A, 250 V)
- they can be fitted with E10: 12 V incandescence, 24 V incandescence or 250 V fluorescence
- complete with glass-breaking hammer
 - in compliance with EN 60670-1 (2005) Standard
 - operational rated voltage: U_e 250 V
 - utilization category AC 12
 - operational rated current I_e 2 A
 - rated insulation voltage U_i 250 V
 - pollution degree: 3
 - utilization type and data of fuses Legrand 10 A, type gG, 10.3 x 38 mm

3



IMQ mark



Livorno Series emergency consumer units with luminous button obtained the IMQ mark of approval

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 -12/24 V incandescence and 250 V fluorescence), with 1 NO contact + 1 NC contact (2 A, 250 V) complete with glass-breaking hammer.



Code	Box/pack No items
13 183	1/13

IP 40

RAL 3000 red



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

IP 40

RAL 7035 grey



Code	Description	Box/pack No items
13 143	with DIN rail x 6 mod.	1/7
13 153	With panel	1/7

100x100x50 mm

205x220x140 mm

205x220x140 mm

165x180x110 mm

Wall-mounting version

IP 55

RAL 3000 red

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



Code	Box/pack No items
13 180	1/14

IP 65

RAL 3000 red

Fitted with flanges for facilitated branch connections.



Code	Description	Box/pack No items
13 171	with DIN rail x 8 mod.	1/6
13 175	with panel	1/6

IP 65

RAL 7035 grey

Fitted with flanges for facilitated branch connections.



Code	Description	Box/pack No items
13 170	with DIN rail x 8 mod.	1/6
13 174	with panel	1/6

IP 55

RAL 3000 red



Code	Description	Box/pack No items
13 161	with DIN rail x 8 mod.	1/12
13 165	with panel	1/12

Emergency consumer units

Livorno Series flush- and wall- mounting consumer units

165x180x110 mm

170x210x110 mm

170x210x110 mm

Wall-mounting version

IP 55
RAL 3075 grey

IP 40
RAL 3000 red

IP 40
RAL 3075 grey



Code	Description	Box/pack No items	Code	Description	Box/pack No items	Code	Description	Box/pack No items
13 160	with DIN rail x 8 mod.	1/12	13 141	with DIN rail x 8 mod.	1/6	13 140	with DIN rail x 8 mod.	1/6
13 164	With panel	1/12	13 151	with panel	1/6	13 150	with panel	1/6

Emergency consumer units

Accessories

Spare lid



Lamps for emergency button



Code	Description	Box/pack No items
13 190	for consumer units fitted with emergency button	10/40

Code	Description	Box/pack No items
13 187	12 V – incandescence	10/120
13 188	24 V – incandescence	10/120
13 189	250 V – fluorescence	10/120

Glass-breaking hammer



Code	Description	Box/pack No items
13 186	glass-breaking hammer	10/300

Wall brackets



Code	Description	Box/pack No items
12 858	only for IP 65 consumer units in insulating material	20/240



Index

Introduction	4/2
Unifix L	4/4
Unifix L system components.....	4/6

Unifix cabling system

Introduction

Unifix cabling system: the ideal complement for the ABB consumer units

Unifix is the ABB cabling system which makes the work of installers and switchboard builders easier: with its standard connectors, Unifix effects simple, quick and safe wiring of System pro *M* modular devices in ABB consumer units.

For this reason, it is the ideal solution for exploiting the fact that ABB products for low voltage applications can be perfectly integrated whilst at the same time guaranteeing safety and full compliance with Standards.

The system consists of two **series H** and **L**. Each one is suitable for specific applications both for the installation of devices and installation in switchboards. In detail:

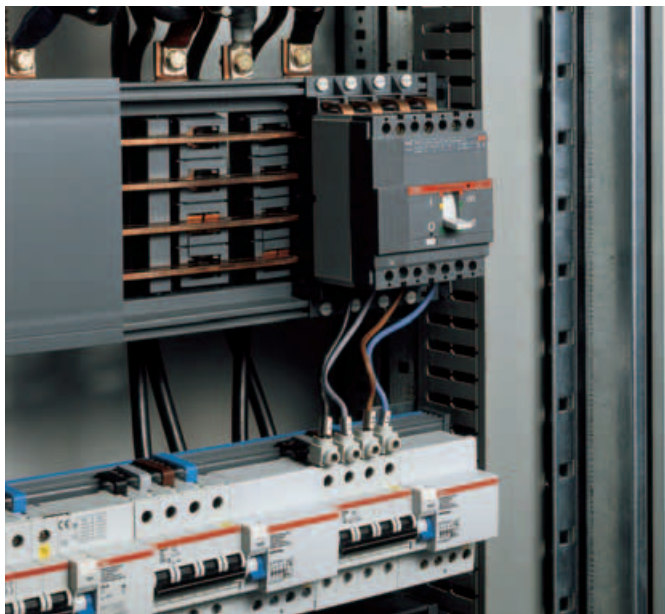
- the **H series**, intended for more demanding applications, is used for wiring SACE Isomax S1 and S2 and Tmax T1...T3 moulded-case circuit-breakers and System pro *M* modular devices in ArTu® switchboards (rated currents up to 400 A and short-circuit currents up to 50 kA);

- the **L series** is the universal solution for wiring System pro *M* modular devices in ArTu® switchboards and polycarbonate consumer units (rated currents up to 100 A and short-circuit currents up to 25 kA).

Special features

The main feature of Unifix lies with the possibility of combining different types of circuits (one-phase/three-phase/auxiliary) in a single module. Pre-wiring can be effected at the workbench and installed in the switchboard subsequently, with no limits to the type or combination of devices which can be installed.

Unifix has adjustable pitch which replaces traditional wiring harnesses which means that circuit-breakers with different polarities can be placed in the same row as well as auxiliary modular devices.



The Unifix cabling system can be used with ABB SACE devices only.



Unifix cabling system

Introduction

ONE SYSTEM, MANY ADVANTAGES



Considerable **reduction in wiring times**: by using rigid lock connectors which are standardized for the different types of device, each device does not have to be connected using cables.



Greater standardization of low voltage switchboards and consumer units: the rigid connectors enable the **results of the type tests** (overheating and short-circuit) effected by ABB **to be extended** also on input wiring of devices.



A more **advanced** and, at the same time, **cheaper technical solution** compared with traditional wiring. This is made possible by cutting down on materials (wires and wire terminals) and space required, thus affecting operating times.



Can be used on all ABB standard devices, without modifying or adding accessories and without using special equipment.



Adjustable pitch: Unifix uses adjustable pitch unlike traditional wiring harnesses; in this way, circuit-breakers with different polarity can be placed in the same row as well as auxiliary devices.

Unifix cabling system

Unifix L

Unifix L: the universal solution for switchboards and consumer units

With its special features, the Unifix L version is extremely versatile in its use and meets the demands of installations which vary a great deal with regard to function and size. Unifix L is suitable for wiring System pro *M* modular devices in ArTu® switchboards and ABB polycarbonate consumer units, for rated currents up to 100 A and short-circuit currents up to 25 kA. The devices are supplied top-down by way of special standard rigid connectors.

TECHNICAL CHARACTERISTICS

Busbars

The busbars consist of a support which contains a system of 100 A capacity conductors (central supply) and 25 kA short-circuit current (conditioned). They are available in two-pole and four-pole versions for widths of 12, 18, 24 or 36 modules which can be installed in the ArTu switchboards with widths of 400, 600 and 800 mm respectively (18 modules excluded).

Fixing is carried out by dove-tailing on the rear of the DIN rail and installation is in two modules with H=200 mm.

The busbar system is structured in such a way that it is possible to attach special supports for ducts with max. dimensions 60x80 mm on the rear.

Power supply module with cable

The 63 A power supply module can be inserted directly in the busbar conductors in the two-pole and four-pole versions. Its dimensions are equivalent to two base modules (17.5 mm) and direct supply the busbars when there is no main circuit-breaker in the row.

The four-pole version, with a cross-section of 16 mm², is supplied with the following cable lengths:

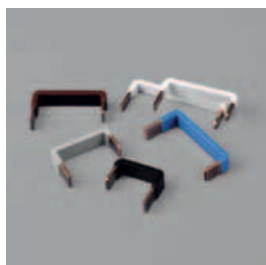
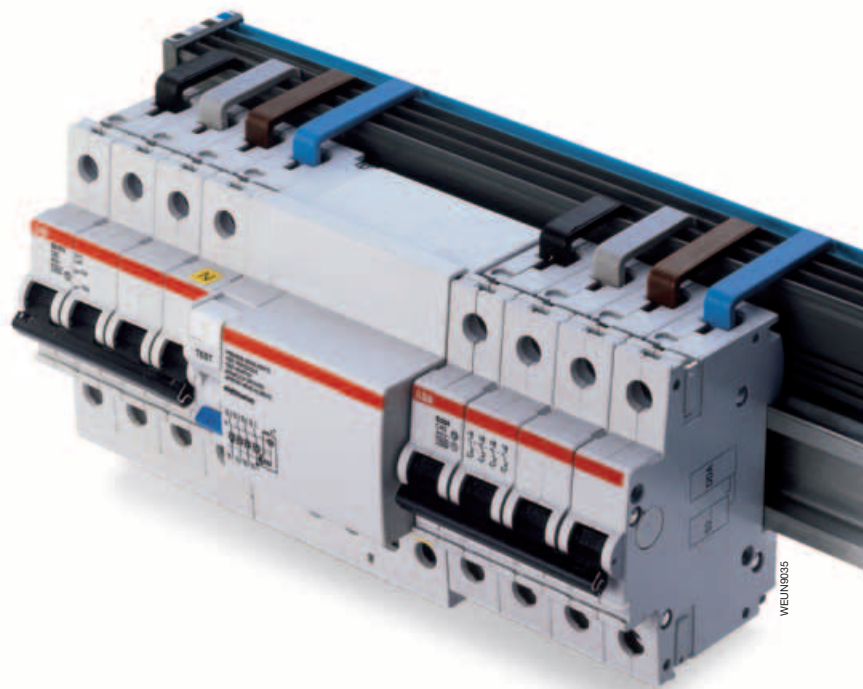
- 400 mm;
- 600 mm;
- 800 mm;
- 1500 mm;
- 2500 mm.

Power supply module without cable

The one-pole 100 A supplier module in the L1, L2, L3, N versions is directly inserted in the busbar conductors. Its dimensions are equivalent to a base module (17.5 mm) and it directly supplies the busbars when there is no main circuit-breaker in the row. It is equipped with a terminal which enables connection of a conductor with a cross-section of 35 mm².

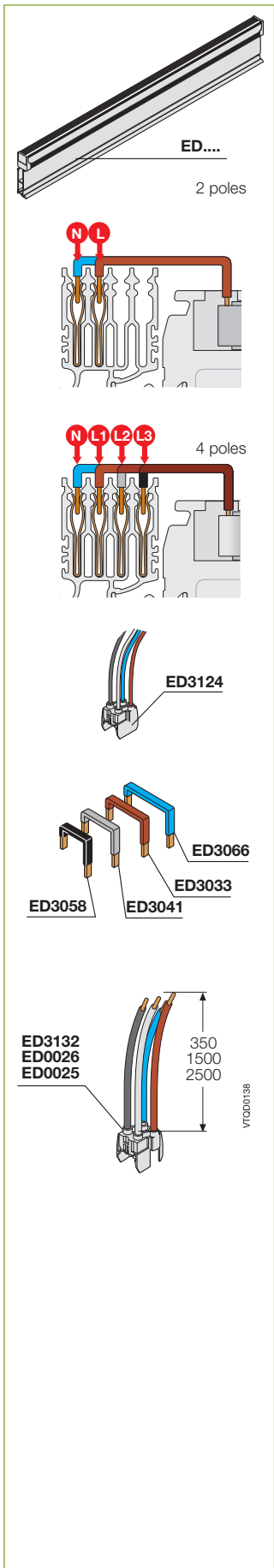
Connections for devices

The connections consist of insulated copper busbars, cut and bent to size. They supply each terminal of the System pro *M* modular devices and the busbar system. The connections are supplied according to the polarity of the device which must be wired (connectors are available for L1, L2, L3, N and in the version for 1P + N devices in a DIN module). Supports with a cable are also available for supplying auxiliary devices so that devices on the same row can be wired to the modular circuit-breakers.



Unifix cabling system

Unifix L system components



Code	Description	Pck./Pieces
------	-------------	-------------

2-pole busbars

ED2985	Busbars 100A 2P 8 modules	1/6
ED2993	Busbars 100A 2P 12 modules (W=400 mm)	1/6
ED3009	Busbars 100A 2P 18 modules	1/6
ED3017	Busbars 100A 2P 24 modules (W=600 mm)	1/6
ED3025	Busbars 100A 2P 36 modules (W=800 mm)	1/6

4-pole busbars

ED2944	Busbars 100A 4P 12 modules (W=400 mm)	1/6
ED2951	Busbars 100A 4P 18 modules	1/6
ED2969	Busbars 100A 4P 24 modules (W=600 mm)	1/6
ED2977	Busbars 100A 4P 36 modules (W=800 mm)	1/6

Connections for different devices

ED3108	Connection with 2 cables L/N 16A	1/6
ED3116	Connection with 3 cables L1/L2/L3 16A	1/6
ED3124	Connection with 4 cables L1/L2/L3/N 16A	1/6

ED3355	Connection with 2 cables L1/N 40A	1/6
ED3363	Connection with 3 cables L1/L2/L3 40A	1/6
ED3371	Connection with 4 cables L1/L2/L3/N 40A	1/6

Connection for devices

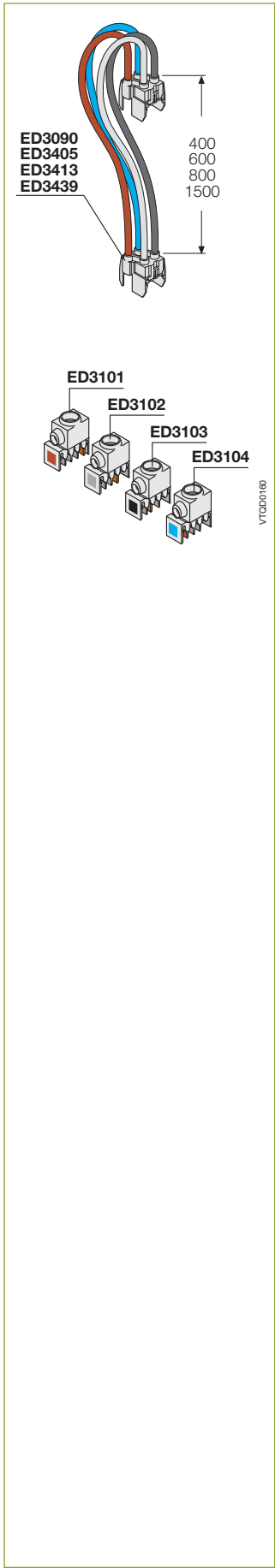
ED3272	10 connection L1-N 40 A	1/10
ED3280	10 connection L2-N 40 A	1/10
ED3298	10 connection L3-N 40 A	1/10

ED3033	10 connection L 1 100A	1/10
ED3041	10 connection L 2 100A	1/10
ED3058	10 connection L 3 100A	1/10
ED3066	10 connection N 100A	1/10

ED3132	Power supplies with cable 4P 100A (W=350 mm)	1/6
ED0026	Power supplies with cable 4P 100A (W=1500 mm)	1/6
ED0025	Power supplies with cable 4P 100A (W=2500 mm)	1/6

Unifix cabling system

Unifix L system components



Code	Description	Pck./Pieces
------	-------------	-------------

Power supply modules with cable

ED3082	Supply modules 2P 100A with cable W=600mm	1/6
ED3405	Supply modules 4P 100A with cable W=400mm	1/6
ED3090	Supply modules 4P 100A with cable W=600mm	1/6
ED3413	Supply modules 4P 100A with cable W=800mm	1/6
ED3439	Supply modules 4P 100A with cable W=1500mm	1/6

Power supply modules without cable In 100A

ED3101	10 one-pole supply modules L 1	1/10
ED3102	10 one-pole supply modules L 2	1/10
ED3103	10 one-pole supply modules L 3	1/10
ED3104	10 one-pole supply modules N	1/10

Index

Switchboards for industrial applications

Europa Series switchboards for industrial applications	5/3
Switchboards for industrial applications with blank front	5/11

Tertiary/industrial application



FLC08810

Switchboards

Europa Series switchboards for industrial applications

Technical characteristics

- protection degree **IP 65**
- insulation class II 
- available in the versions with opaque and transparent, smoky vertically hinged doors
- available in **RAL 7035 grey**
- in **polycarbonate** material, self-extinguishing and resistant to abnormal heat and fire up to 960 °C (glow wire flammability index) in compliance with IEC 60695-2-11 Standard
- installation temperature from -25 °C to +60 °C
- resistant to heat: ball thermopressure up to +125 °C in compliance with EN 60695-10-2 Standard
- shock resistance 20 Joules (**IK level 10**)
- 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, code 12 866
- designed for the insertion of an extractable frame with pre-drilled panelling for mounting 100, 125 and 160 A circuit breakers
- all models (except for code 12 764 and 12 784) are fitted with one rigid and one bi-material flange to facilitate insertion of conduits and cables
- switchboards made and produced in compliance with CEI 23-49 (1996) + V1 + V2, CB certificate IEC 60670-24 Standards
- switchboards are supplied complete with:
 - 4 screw-cover caps to guarantee 
 - accessories for hinging the front part
 - 1 certification plate
 - instruction sheet
- use 3.5x9.5 self-tapping screws to fix the components on the back



FLC09809

IMQ mark



Europa Series switchboards for industrial applications obtained the IMQ mark of approval

Switchboards

Europa Series switchboards for industrial applications

140x220x140 mm

205x220x140 mm

275x220x140 mm

Opaque, vertically hinged door

RAL 7035 grey



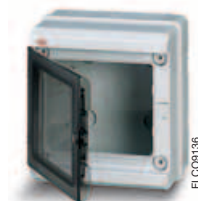
Code	Dimensions (mm) WxHxD	Box/pack No items
12 764	140x220x140	1/14

Code	Dimensions (mm) WxHxD	Box/pack No items
12 768	205x220x140	1/9

Code	Dimensions (mm) WxHxD	Box/pack No items
12 772	275x220x140	1/6

Transparent, smoky vertically hinged door

RAL 7035 grey



Code	Dimensions (mm) WxHxD	Box/pack No items
12 784	140x220x140	1/14

Code	Dimensions (mm) WxHxD	Box/pack No items
12 788	205x220x140	1/9

Code	Dimensions (mm) WxHxD	Box/pack No items
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



Code	Dimensions (mm) WxHxD	Box/pack No items
12 774	275x370x140	1/4



Code	Dimensions (mm) WxHxD	Box/pack No items
12 776	275x570x140	1/2



Code	Dimensions (mm) WxHxD	Box/pack No items
12 778	380x570x140	1/2

5

Transparent, smoky vertically hinged door

RAL 7035 grey



Code	Dimensions (mm) WxHxD	Box/pack No items
12 794	275x370x140	1/4



Code	Dimensions (mm) WxHxD	Box/pack No items
12 796	275x570x140	1/2



Code	Dimensions (mm) WxHxD	Box/pack No items
12 798	380x570x140	1/2

Switchboards

Accessories for Europa Series switchboards for industrial applications

Kit for modular circuit breakers

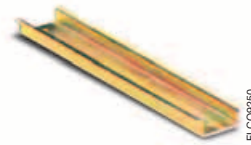
Circuit breakers 100, 125 160 A on DIN rail



Code	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

DIN section bars

Completed with screws



Code	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	50/200
	12 774 – 12 794	
	12 776 – 12 796	
12 856	12 778 – 12 798	50/200

5

Base plates

In aluminium-plated metal



Code	For switchboards type	Box/pack No items
12 842	12 764 – 12 784	10/120
12 844	12 768 – 12 788	10/10
12 845	12 772 – 12 792	10/10
12 846	12 774 – 12 794	5/5
12 847	12 776 – 12 796	5/5
12 848	12 778 – 12 798	5/5

Base plates

In insulating material



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

Inner doors

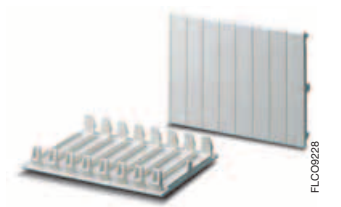


Code	For switchboards type	Box/pack No items
12 825	12 774 – 12 794	1/10
12 826	12 776 – 12 796	1/10
12 827	12 778 – 12 798	1/10

Switchboards

Accessories for Europa Series switchboards for industrial applications

Module covers



Code	Colour	No modules	Box/pack No items
12 861	RAL 7035 grey	1	50/1500
12 863	RAL 7035 grey	4	25/300

Wall brackets



Code	Description	Box/pack No items
12 858	in insulating material	20/240

Key lock



Code	Description	Box/pack No items
12 866	coded type	10/300

Universal cutter

For drill



Code	Box/pack No items
12 894	1/30

To use for side branch connections.

Switchboards

Accessories for Europa Series switchboards for industrial applications

Spare doors



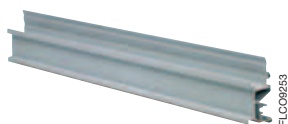
Opaque RAL 7035 grey	Transparent smoky	For switchboards type	Box/pack
12 568	12 578	12 764 – 12 784	8/32
12 569	12 579	12 768 – 12 788	10/20
12 570	12 580	12 772 – 12 792	8/16
12 571	12 581	12 774 – 12 794	5/10
12 572	12 582	12 776 – 12 796	10/10
12 573	12 583	12 778 – 12 798	8/8

Semi-flush-mounting frames



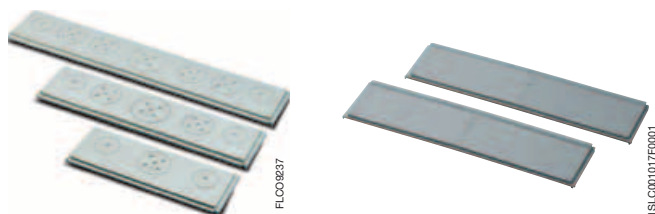
Code	For switchboards type	Box/pack
12 590	12 764 – 12 784	5/20
12 591	12 768 – 12 788	5/20
12 592	12 772 – 12 792	5/20
12 593	12 774 – 12 794	5/20
12 594	12 776 – 12 796	5/5
12 595	12 778 – 12 798	5/5

Plastic spacer



Code	Dimensions (mm)	Box/pack
12 851	20 modules H30	10/60

Spare flanges



Code	For switchboards type	Box/pack No items
12 600	12 768 – 12 788, bi-material	30/120
12 601	12 772 – 12 792, bi-material	20/80
	12 774 – 12 794, bi-material	
	12 776 – 12 796, bi-material	
12 602	12 778 – 12 798, bi-material	20/80
1SL0550A00	rigid flange 8 modules per row	30/120
1SL0551A00	rigid flange 12 modules per row	20/80
1SL0552A00	rigid flange 18 modules per row	20/80

Switchboards

Accessories for Europa Series switchboards for industrial applications

Terminal blocks

The complete terminal blocks are composed of a combination of terminal holders and terminal bars as indicated in the description, with the terminal bars already mounted on terminal holders.

Configuration of the complete terminal block is standard. For different requirements (customized terminal block), the terminal holders and bars must be procured separately in the versions indicated in the table.



Code	Description	Box/pack No items
12 490	for switchboards 12764 e 12784 – composed of 12538x2 + 12531x2	10/60
12 491	for switchboards 12768 e 12788 – composed of 12539x2 + 12531x2	10/60
12 492	for switchboards 12772 e 12792 – composed of 12540x1 + 12531x1 + 12532x1	10/40
12 494	for switchboards 12774 e 12794 – composed of 12540x2 + 12533x2	10/40
12 493	for switchboards 12776 e 12796 – composed of 12540x2 + 12534x2	10/40
12 497	for switchboards 12778 e 12798 – composed of 12543x2 + 12535x2	10/40

5

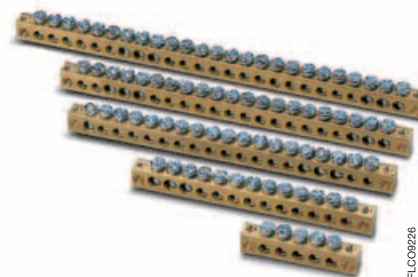
Terminal holders



Code	For switchboards type	Box/pack No items
12 538	12764 - 12784	12/360
12 539	12768 - 12788	12/360
12 540	12772 - 12774 - 12776 - 12792 12794 - 12796	12/144
12 543	12778 - 12798	12/108

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

Terminal bars



Code	Description No of holes x Ø holes (mm) + No of holes x mm ²	Box/pack No items
12 531	5x16	20/240
12 532	10x16 + 3x25	20/240
12 533	16x16 + 3x25	20/240
12 534	15x16 + 6x25	20/240
12 535	19x16 + 6x25	20/240

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

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.

Tertiary/industrial application



FLC09858

Switchboards

Switchboards for industrial applications with blank front

Technical characteristics

- protection degree 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 flammability index) in compliance with IEC 60695-2-11 Standard
- installation temperature from -25 °C to +60 °C
- resistant to heat: ball thermopressure up to +125 °C in compliance with EN 60695-10-2 Standard
- shock resistance 20 Joules (IK level 10)
- 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, code 12 866 (page 5/7)
- all models (except for code 13 200) are fitted with one rigid and one bi-material flange for the facilitated insertion of conduits and cables
- switchboards made and produced in compliance with CEI 23-49 (1996) + V1 + V2, CB certificate IEC 60670-24 Standards
- switchboards are supplied complete with:
 - 4 screw-cover caps to guarantee ☐
 - accessories for hinging the front part
 - 1 self-adhesive indicator strip per row
 - 1 certification plate
 - instruction sheet
- use 3.5x9.5 self-tapping screws to fix the components on the back



1SLC001029F0001

Switchboards

Switchboards for industrial applications with blank front

4 modules

12 modules

12 modules

Transparent, smoky door

RAL 7035 grey



Code	Dimensions (mm) WxHxD	Box/pack No items
13 200	136x540x110	1/8

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

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

12 modules

18 modules

Transparent, smoky door

RAL 7035 grey



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

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

Switchboards

Accessories for switchboards for industrial applications with blank front

Terminal blocks

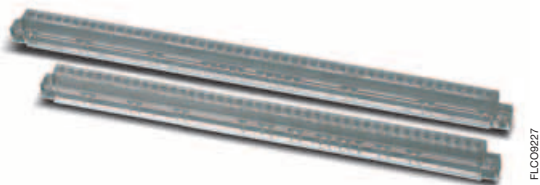
The complete terminal blocks are composed of a combination of terminal holders and terminal bars as indicated in the description, with the terminal bars already mounted on terminal holders.

Configuration of the complete terminal block is standard. For different requirements (customized terminal block), the terminal holders and bars must be procured separately in the versions indicated in the table.



Code	Description	Box/pack No items
12 492	for 12 modules – composed of 12540x1 + 12531x1 + 12532x1	10/40
12 498	for 18 modules – composed of 12543x1 + 12531x1 + 12535x1	10/40

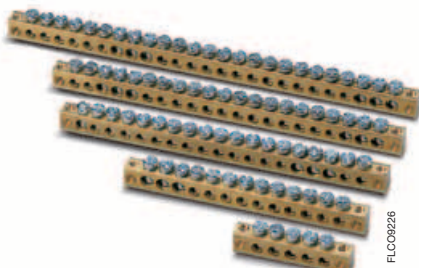
Terminal holders



Code	Description	F boards 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 block is completed by combining the necessary terminal bars to the terminal holders, taking care to keep the terminal bars separate from each other.

Terminal bars



Code	Description No of holes x Ø holes (mm) + No of holes x mm ²	Box/pack No items
12 531	5x16	20/240
12 532	10x16 + 3x25	20/240
12 533	16x16 + 3x25	20/240
12 534	15x16 + 6x25	20/240
12 535	19x16 + 6x25	20/240

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.

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.

Switchboards

Accessories for switchboards for industrial applications with blank front

Semi-flush-mounting frames



Code	For switchboards	
Box/pack		
12 598	13 200	5/20
12 593	13 204	5/20
12 599	13 205	5/5
12 594	13 206	5/5
12 595	13 208	5/5

Universal cutter



Code	Box/pack
	No items
12 894	1/30

To use for side branch connections.

Wall brackets

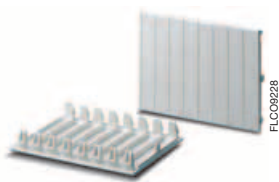


Code	Description	Box/pack
		No items
12 858	in insulating material	20/240

Switchboards

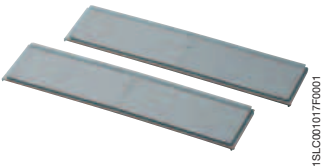
Accessories for switchboards for industrial applications with blank front

Module covers



Code	Description	No modules	Box/pack No items
12 861	RAL 7035 grey	1	50/1500
12 863	RAL 7035 grey	4	25/300

Spare flanges



Code	For switchboards type	Box/pack No items
12 601	13 204 – 13 205 – 13 206, bi-material	20/80
12 602	13 208, bi-material	20/80
1SL0551A00	rigid flange 12 modules per row	20/80
1SL0552A00	rigid flange 18 modules per row	20/80

Key lock



Code	Description	Box/pack No items
12 866	coded type	10/300



Index

IP 44 and IP 55 boxes

IP44 and IP55 junction boxes in thermoplastic material with press-on lid6/3

IP 44, IP 55 and IP 65 boxes

IP 44, IP 55 and IP 65 junction boxes in thermoplastic material.....6/5

IP 65 boxes

IP 65 junction boxes in polycarbonate.....6/13

Empty enclosures IP 40 and IP 65

IP 40 and IP 55 equipment and empty enclosures6/19

Tertiary/industrial application



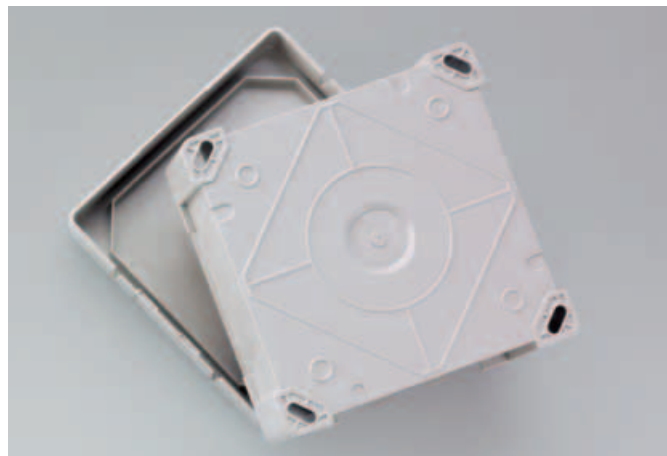
FLO09811

Boxes, equipment and various components

IP44 and IP55 junction boxes in thermoplastic material with press-on lid

Technical characteristics

- Protection degree
 - IP44 for press-on lid boxes with cable glands
 - IP55 for screw-on lid boxes with cable glands
 - IP55 for screw-on lid box with smooth sides
- Available in RAL 7035 grey
- IP44 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 flammability index) in compliance with IEC 60695-2-11 Standard
- IP55 boxes with press-on lids and cable glands 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 flammability index) in compliance with IEC 60695-2-11 Standard
- IP55 boxes with press-on lids and smooth sides in halogen free thermoplastic material, self-extinguishing in compliance with UL 94 HB Standard and resistant to abnormal heat and fire up to 650°C (glow wire flammability index) in compliance with IEC 60695-2-11 Standard
- Installation temperature from -25°C to +60°C
- Resistant to heat:
 - ball thermopressure up to +85°C
- Shock resistant:
 - IK08 for IP55 and IP65 boxes with 650°C GWT
- High resistance to heat and chemical and atmospheric agents
- Boxes with protection degree IP55 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-trunking by using special connectors ABB
- When fitted with special housings, the base of the box can be equipped with terminals and various accessories
- Junction boxes made in compliance with IEC 60670-1 and IEC 60670-22 Standards
- Use 3,5x9,5 self-tapping screws to fix the components on the back
- All the boxes are RoHS compliance



6

IMQ mark



IP 44 and IP 55 junction boxes in thermoplastic material obtained the IMQ mark of approval

Boxes, equipment and various components

IP44 and IP55 junction boxes in thermoplastic material with press-on lid

Box 100x100x50

With press-on lids 100x100x50

With press-on lids 100x100x50



Code	Degree of protection	Description
1SL0811A00	IP44	with cable glands
1SL0890A00	IP55	with cable glands

Code	Degree of protection	Description
1SL0891A00	IP55	with smooth sides

Boxes, equipment and various components

IP44, IP55 and IP65 junction boxes in thermoplastic material

Technical characteristics

- Protection degree
 - IP44 for press-on lid boxes with cable glands
 - IP55 for screw-on lid boxes with cable glands
 - IP65 for screw-on lid box with smooth sides
 - Available in RAL 7035 grey
 - IP44 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 flammability index) in compliance with IEC 60695-2-11 Standard
 - IP44 boxes with press-on lids in thermoplastic material, self-extinguishing in compliance with UL 94 V2 Standard and resistant to abnormal heat and fire up to 960°C (glow wire flammability index) in compliance with IEC 60695-2-11 Standard
 - IP55 boxes with screw-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 flammability index) in compliance with IEC 60695-2-11 Standard
 - IP55 boxes with screw-on lids in thermoplastic material, self-extinguishing in compliance with UL 94 V2 Standard and resistant to abnormal heat and fire up to 960°C (glow wire flammability index) in compliance with IEC 60695-2-11 Standard
 - IP65 boxes with screw-on lids in **halogen free** thermoplastic material, self-extinguishing in compliance with UL 94 HB Standard and resistant to abnormal heat and fire up to 650°C (glow wire flammability index) in compliance with IEC 60695-2-11 Standard
 - IP65 boxes with screw-on lids in thermoplastic material, self-extinguishing in compliance with UL 94 V2 Standard and resistant to abnormal heat and fire up to 960°C (glow wire flammability index) in compliance with IEC 60695-2-11 Standard
- and resistant to abnormal heat and fire up to 960°C (glow wire flammability index) in compliance with IEC 60695-2-11 Standard
- Installation temperature from -25°C to +60°C
 - Resistant to heat:
 - ball thermopressure up to +85°C for IP44 boxes with 650°C and 960°C GWT
 - ball thermopressure up to +85°C for IP55 and IP65 boxes with 650°C GWT
 - ball thermopressure up to +120°C for IP55 and IP65 boxes with 960°C GWT
 - Shock resistant:
 - IK07 for IP44 boxes
 - IK08 for IP55 and IP65 boxes with 650°C GWT
 - IK09 for IP55 and IP65 boxes with 960°C GWT
 - High resistance to heat and chemical and atmospheric agents
 - 3 lid types:
 - press-on
 - with steel screws
 - with plastic screws with a ¼ turn closing
 - Boxes with protection degree IP55 and IP65 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-trunking by using special connectors ABB
 - 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 code 12858
 - Junction boxes made in compliance with IEC 60670-1 and IEC 60670-22 Standards
 - Use 3,5x9,5 self-tapping screws to fix the components on the back
 - All the boxes are RoHS compliance



IMQ mark



IP 44 and IP 55 junction boxes in thermoplastic material obtained the IMQ mark of approval

Boxes, equipment and various components

IP 44, IP 55 and IP 65 junction boxes in thermoplastic material

IP 44 boxes - GWT 650 °C

With cable glands and press-on lid



Code	Internal dimensions (mm)	Box/pack No items
00 800	Ø 60 - H 35	240/240
00 802	Ø 80 - H 40	144/144
00 808	65x65x32	168/168
00 810	80x80x40	100/100

6

IP 55 waterproof boxes with plastic 1/4 turn screws - GWT 650 °C

With cable glands and low screw-on lid RAL 7035



Code	Internal dimensions (mm)	Box/pack No items
1SL0816A00	100x100x50	1/54
1SL0820A00	105x70x50	1/70
1SL0821A00	100x100x80	1/40
1SL0822A00	153x110x66	1/32
1SL0824A00(*)	160x135x77	1/18
1SL0826A00(*)	220x170x80	1/12
1SL0828A00(*)	310x240x110	1/6

(*) Can be wall-mounted using wall brackets code 12 858.

IP 65 waterproof boxes with plastic 1/4 turn screws - GWT 650 °C halogen free

With smooth sides and low screw-on lid RAL 7035



Code	Internal dimensions (mm)	Box/pack No items
1SL0846A00	100x100x50	1/60
1SL0850A00	105x70x50	1/100
1SL0851A00	100x100x80	1/40
1SL0852A00	153x110x66	1/32
1SL0854A00(*)	160x137x77	1/24
1SL0856A00(*)	220x170x80	1/12
1SL0858A00(*)	310x240x110	1/6

(*) Can be wall-mounted using wall brackets code 12 858.

With smooth sides and transparent low screw-on lid



Code	Internal dimensions (mm)	Box/pack No items
1SL0872A00	153x110x66	1/34
1SL0874A00(*)	160x135x77	1/24
1SL0876A00(*)	220x170x80	1/12
1SL0878A00(*)	310x240x110	1/6

(*) Can be wall-mounted using wall brackets code 12 858.

Boxes, equipment and various components

IP 44, IP 55 and IP 65 junction boxes in thermoplastic material

IP 55 waterproof boxes with steel screws - GWT 650 °C

With cable glands and high screw-on lid RAL 7035



Code	Internal dimensions (mm)	Box/pack No items
00 816	100x100x50	1/54
00 820	105x70x50	1/70
00 821	100x100x80	1/40
00 822	153x110x66	1/32

IP 65 waterproof boxes with steel screws - GWT 650 °C halogen free

With smooth sides and high screw-on lid RAL 7035



Code	Internal dimensions (mm)	Box/pack No items
00 846	100x100x50	1/60
00 850	105x70x50	1/100
00 851	100x100x80	1/40
00 852	153x110x66	1/34

With smooth sides and transparent high screw-on lid



Code	Internal dimensions (mm)	Box/pack No items
00 872	151x110x66	1/34

6

IP 55 waterproof boxes with plastic 1/4 turn screws - GWT 650 °C

With cable glands and high screw-on lid RAL 7035



Code	Internal dimensions (mm)	Box/pack No items
1SL0830A00	160x135x150	1/16
1SL0832A00	220x170x150	1/8
1SL0834A00	310x240x160	1/4

IP 65 waterproof boxes with plastic 1/4 turn screws - GWT 650 °C halogen free

With smooth sides and high screw-on lid RAL 7035



Code	Internal dimensions (mm)	Box/pack No items
1SL0860A00	160x135x150	1/16
1SL0862A00	220x170x150	1/8
1SL0864A00	310x240x160	1/4

With smooth sides and transparent high screw-on lid



Code	Internal dimensions (mm)	Box/pack No items
1SL0880A00(*)	160x135x150	1/16
1SL0882A00(*)	220x170x150	1/8
1SL0884A00(*)	310x240x160	1/4

*) Can be wall-mounted using wall brackets code 12 858.

Boxes, equipment and various components

IP 44, IP 55 and IP 65 junction boxes in thermoplastic material

IP 44 boxes - GWT 960 °C

With cable glands and press-on lid



Code	Internal dimensions (mm)	Box/pack No items
1SL0900A00	Ø 60 - H 35	240/240
1SL0901A00	Ø 80 - H 40	144/144
1SL0902A00	65x65x32	168/168
1SL0903A00	80x80x40	100/100

6

IP 55 waterproof boxes with plastic 1/4 turn screws - GWT 960 °C

With cable glands and low screw-on lid RAL 7035



Code	Internal dimensions (mm)	Box/pack No items
1SL0916A00	100x100x50	1/54
1SL0920A00	105x70x50	1/70
1SL0921A00	100x100x80	1/40
1SL0922A00	153x110x66	1/32
1SL0924A00(*)	160x135x77	1/18
1SL0926A00(*)	220x170x80	1/12
1SL0928A00(*)	310x240x110	1/6

(*) Can be wall-mounted using wall brackets code 12 858.

IP 65 waterproof boxes with plastic 1/4 turn screws - GWT 960 °C

With smooth sides and low screw-on lid RAL 7035

With smooth sides and transparent low screw-on lid



Code	Internal dimensions (mm)	Box/pack No items
1SL0946A00	100x100x50	1/60
1SL0950A00	105x70x50	1/100
1SL0951A00	100x100x80	1/40
1SL0952A00	153x110x66	1/32
1SL0954A00(*)	160x137x77	1/24
1SL0956A00(*)	220x170x80	1/12
1SL0958A00(*)	310x240x110	1/6

(*) Can be wall-mounted using wall brackets code 12 858.



Code	Internal dimensions (mm)	Box/pack No items
1SL0972A00	153x110x66	1/34
1SL0974A00(*)	160x135x77	1/24
1SL0976A00(*)	220x170x80	1/12
1SL0978A00(*)	310x240x110	1/6

(*) Can be wall-mounted using wall brackets code 12 858.

Boxes, equipment and various components

IP 44, IP 55 and IP 65 junction boxes in thermoplastic material

IP 55 waterproof boxes with steel screws - GWT 960 °C

With cable glands and high screw-on lid RAL 7035



Code	Internal dimensions (mm)	Box/pack No items
1SL0904A00	100x100x50	1/54
1SL0905A00	105x70x50	1/70
1SL0906A00	100x100x80	1/40
1SL0907A00	153x110x66	1/32

IP 65 waterproof boxes with steel screws - GWT 960 °C

With smooth sides and high screw-on lid RAL 7035



Code	Internal dimensions (mm)	Box/pack No items
1SL0908A00	100x100x50	1/60
1SL0909A00	105x70x50	1/100
1SL0910A00	100x100x80	1/40
1SL0911A00	153x110x66	1/34

With smooth sides and transparent high screw-on lid



Code	Internal dimensions (mm)	Box/pack No items
1SL0912A00	151x110x66	1/34

6

IP 55 waterproof boxes with plastic 1/4 turn screws - GWT 960 °C

With cable glands and high screw-on lid RAL 7035



Code	Internal dimensions (mm)	Box/pack No items
1SL0930A00	160x135x150	1/16
1SL0932A00	220x170x150	1/8
1SL0934A00	310x240x160	1/4

IP 65 waterproof boxes with plastic 1/4 turn screws - GWT 960 °C

With smooth sides and high screw-on lid RAL 7035



Code	Internal dimensions (mm)	Box/pack No items
1SL0960A00	160x135x150	1/16
1SL0962A00	220x170x150	1/8
1SL0964A00	310x240x160	1/4

With smooth sides and transparent high screw-on lid



Code	Internal dimensions (mm)	Box/pack No items
1SL0980A00(*)	160x135x150	1/16
1SL0982A00(*)	220x170x150	1/8
1SL0984A00(*)	310x240x160	1/4

(*) Can be wall-mounted using wall brackets code 12 858.

Boxes, equipment and various components

Accessories for IP 44, IP 55 and IP 65 junction boxes in thermoplastic material

Cable glands and nuts - PG pitch



Code		Pitch	Torque values N x m	Cable clamp Box/pack No items	For cables diameter		Nuts x cable Box/pack No items
cable gland	nut x cable gland				Min. (mm)	Max. (mm)	
00 931	00 941	9	3.75	100/500	6.5	8.5	100/3000
00 932	00 942	11	3.75	100/500	8	10	100/3000
00 933	00 943	13.5	3.75	50/500	8	11	50/1500
00 934	00 944	16	5	50/300	11	14	50/1500
00 935	00 945	21	7.5	50/300	14.5	18	50/1500
00 936	00 946	29	7.5	25/150	19	26	50/600
00 937	00 947	36	7.5	25/75	30	34	25/300
00 938	00 948	42	7.5	15/60	30	38	25/300

In compliance with CEI EN 50262 Standard.

Cable glands and nuts - metric pitch



Code		Pitch	Torque values N x m	Cable diameter		Box/pack No items	Cable clamp Box/pack No items
cable gland	nut	M		Min. (mm)	Max. (mm)		
00 951	00 961	12 x 1.5	2.7	3.5	7	100/1200	100/3000
00 952	00 962	16 x 1.5	5	5.5	10	100/500	100/3000
00 953	00 963	20 x 1.5	7	7	13	100/500	50/1500
00 954	00 964	25 x 1.5	7.5	10	17	50/250	50/1500
00 955	00 965	32 x 1.5	8	12	21	25/150	50/500
00 956(*)	00 966	40 x 1.5	8	19	28	25/75	25/300
00 957(*)	00 967	50 x 1.5	10	27	35	15/60	25/300
00 958(*)	00 968	63 x 1.5	10	34	45	10/40	20/100

(*) Cable clamps and M40, M50 and M63 nuts are available on request.

In compliance with CEI EN 50262 Standard.

Technical characteristics of metric cable clamps

Protection degree IP 68

Material: polyamide 6.6, self-extinguishing material according to UL94 V2 Standard and resistant to abnormal heat and to fire up to 750 °C (glow wire test) according to IEC 60695-2-11 Standard

Operational temperature: from -20 °C up to +120 °C (short period of time)

Colour: RAL 7035 grey

Thread pitch: 1.5 mm

Thread angle: 60°

Neoprene seal

Tightening with a plate crown on the whole diameter of cable (excluded the possibility to damage the cable itself)

Possibility to recover the cable clamp without compromising its efficiency.

Technical characteristics nuts of with metric pitch collar

Material: polyamide 6.6, self-extinguishing material according to UL94 V2 Standard and resistant to abnormal heat and to fire up to 750 °C (glow wire test) according to IEC 60695-2-11 Standard

Operational temperature: from -20 °C up to +120 °C (continuous)

from -20 °C up to +120 °C (short period of time)

Colour: RAL 7035 grey

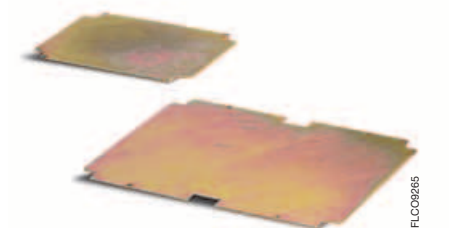
Thread pitch: 1.5 mm

Thread angle: 60°.

Boxes, equipment and various components

Accessories for IP 44, IP 55 and IP 65 junction boxes
in thermoplastic material

Metal base plates



Code	Dimensions (mm)	Box/pack No items
00 900	160 x 135 x 77	1/10
00 902	220 x 170 x 80	1/5
00 904	310 x 240 x 110	1/5

All metal base plates listed above are equipped with fixing screws type 3.5x9.5.

Cable clamps

Protection degree: IP 55



Code	For conduit Ø (mm)	Box/pack No items
00 908	20	100/1500
00 910	25	100/1000
00 912	32	50/400

Conduit clamps - Box connector

Protection degree: IP 67



Code	For conduit Ø (mm)	Box/pack No items
00 430	16	500/500
00 431	20	300/300
00 432	25	150/150
00 433	32	100/100
00 434	40	50/50
00 435	50	50/50

Unions

Protection degree: IP 55



Code	Ø (mm)	Box/pack No items
13 874	23	10/500
13 875	28.5	100/400
13 876	37	100/200

Tertiary/industrial application



FLOD9812

Boxes, equipment and various components

IP 65 junction boxes in polycarbonate

Technical characteristics

- protection degree 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 60695-2-11 Standard
- installation temperature from -25 °C to +60 °C
- resistant to heat: ball thermopressure up to +125 °C in compliance with EN 60695-10-2 Standard
- rated insulation voltage: 1000 V AC; 1500 V DC
- shock resistance 20 Joules (IK level 10)
- 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
- boxes code 12 808, 12 812, 12 814, 12 816 and 12 818 fitted with one rigid and one bi-material flange for facilitated input of conduits and cables
- junction boxes produced in compliance with CEI 23-49 (1996) + V1 + V2, CB certificate IEC 60670-24 Standards
- boxes are supplied complete with:
 - 4 screw-cover caps to guarantee 
 - accessories for attaching the hinges on the front
 - 1 certification plate
 - instruction sheet
- use 3.5x9.5 self-tapping screws to fix the components on the back



IMQ mark



IP 65 junction boxes in polycarbonate material obtained the IMQ mark of approval

Boxes, equipment and various components

IP 65 junction boxes in polycarbonate

140x220x140 mm



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

205x220x140 mm



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

275x220x140 mm



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

6

275x370x140 mm



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

275x570x140 mm



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

380x570x140 mm



Code	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



Code	For boxes type	Box/pack No items
12 842	12 804	10/120
12 844	12 808	10/10
12 845	12 812	10/10
12 846	12 814	5/5
12 847	12 816	5/5
12 848	12 818	5/5

Base plates

Protection degree: IP 67



Code	For boxes type	Box/pack No items
12 832	12 804	10/10
12 834	12 808	10/10
12 835	12 812	10/10
12 836	12 814	5/5
12 837	12 816	5/5
12 838	12 818	5/5

6

DIN metal section bars

Complete with screws



Code	For boxes type	Box/pack No items
12 852	12 804	50/600
12 854	12 808	30/360
12 855	12 812 – 12 814 – 12 816	50/200
12 856	12 818	50/200

Wall brackets



Code	Description	Box/pack No items
12 858	in insulating material	20/240

Boxes, equipment and various components

Accessories for IP 65 junction boxes in polycarbonate

Terminal blocks

The complete terminal blocks are composed of a combination of terminal holders and terminal bars as indicated in the description, with the terminal bars already mounted on terminal holders.

Configuration of the complete terminal block is standard. For different requirements (customized terminal block), the terminal holders and bars must be procured separately in the versions indicated in the table.



Code	Description	Box/pack No items
12 490	for box 12804 – composed of 12538x2 + 12531x2	10/60
12 491	for box 12808 – composed of 12539x2 + 12531x2	10/60
12 492	for box 12812 – composed of 12540x1 + 12531x1 + 12532x1	10/40
12 494	for box 12814 – composed of 12540x2 + 12533x2	10/40
12 493	for box 12816 – composed of 12540x2 + 12534x2	10/40
12 497	for box 12818 – composed of 12543x2 + 12535x2	10/40

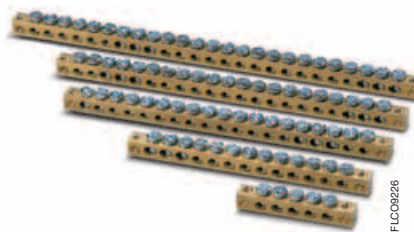
Terminal holders



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

Terminal bars



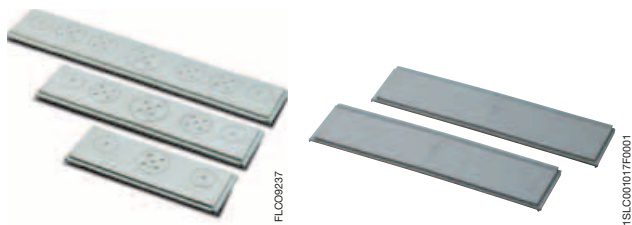
Code	Description No of holes x Ø holes (mm) + No of holes x mm ²	Box/pack No items
12 531	5x16	20/240
12 532	10x16 + 3x25	20/240
12 533	16x16 + 3x25	20/240
12 534	15x16 + 6x25	20/240
12 535	19x16 + 6x25	20/240

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.

Boxes, equipment and various components

Accessories for IP 65 junction boxes in polycarbonate

Spare flanges



Code	For boxes type	Box/pack No items
12 600	12 808, bi-material	30/120
12 601	12 812 – 12 814 – 12 816, bi-material	20/80
12 602	12 818, bi-material	20/80
1SL0550A00	rigid flange, 8 modules per row	30/120
1SL0551A00	rigid flange, 12 modules per row	20/80
1SL0552A00	rigid flange, 18 modules per row	20/80

Semi-flush-mounting frames



Code	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



Code	Box/pack No items
12 894	1/30

To be used for side branch connections.

Residential/tertiary/industrial application



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 cable gland on the top
- equipment and empty enclosures designed to be installed with conduits and, using special accessories, with mini-trunkings ABB
- empty enclosures suitable for:
 - wiring accessories in the Élos Soft/Élos Smart series
 - wiring accessories in the Chiara series
- protection degree IP 40
- 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 60695-2-11 Standard
- installation temperature from -25 °C to +60 °C
- resistant to heat: ball thermopressure up to +85 °C in compliance with EN 60695-10-2 Standard
- empty enclosures made in compliance with CEI 23-48 and IEC 670 Standards
- enclosures equipped with control devices made in compliance with CEI 23-9 Standard
- enclosures equipped with bypass sockets made in compliance with CEI 23-50 Standard

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 that controls can be used even when the lid is closed
- equipment and empty enclosures with cable gland on the top
- equipment and empty enclosures designed to be installed with conduits and, using special accessories, with mini-trunkings ABB
- empty enclosures suitable for:
 - wiring accessories in the Élos Soft/Élos Smart series
 - wiring accessories in the Chiara series
- protection degree IP 55
- containers 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 60695-2-11 Standard
- installation temperature from -25 °C to +60 °C
- resistant to heat: ball thermopressure up to +85 °C in compliance with EN 60695-10-2 Standard
- 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 23-50 Standard
- lid/cover opening angle: 120°



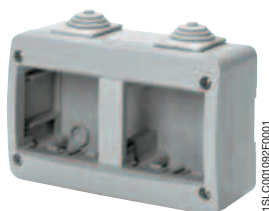
Boxes, equipment and various components

IP 40 and IP 55 equipment and empty enclosures

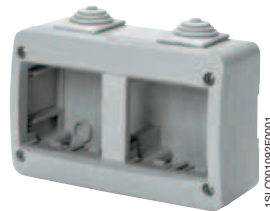
IP 40 equipment

For ABB Élos Soft/Smart wiring accessories series

For ABB Chiara wiring accessories series



Code	Description	Box/pack No items
2CSE2240EL	2 compartments enclosure	10/40
2CSE2340EL	3 compartments enclosure	10/30
2CSE2440EL	4 compartments enclosure	10/20
2CSE2840EL	8 compartments enclosure	5/10



Code	Description
2CSK2140CH	1 compartment enclosure, 2 modules
2CSK2240CH	2 compartments enclosure, 2 modules
2CSK2340CH	3 compartments enclosure, 3 modules
2CSK2440CH	4 compartments enclosure, 4 modules

6

IP 55 equipment

For ABB Élos Soft/Smart wiring accessories series

For ABB Chiara wiring accessories series



Code	Description	Box/pack No items
2CSE2255EL	2 compartments enclosure	10/40
2CSE2355EL	3 compartments enclosure	10/30
2CSE2455EL	4 compartments enclosure	10/20
2CSE2855EL	8 compartments enclosure	5/10



Code	Description
2CSK2155CH	1 compartment enclosure, 2 modules
2CSK2255CH	2 compartments enclosure, 2 modules
2CSK2355CH	3 compartments enclosure, 3 modules
2CSK2455CH	4 compartments enclosure, 4 modules



Index

Enclosures and boxes for light prefabrication.....	7/3
Wiring accessories and junction boxes in thermoplastic material	7/7

Residential/tertiary application



1SLC001041F0001

Wiring accessories and junction boxes

Enclosures and boxes for light prefabrication

Technical characteristics

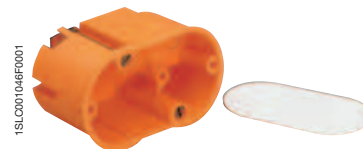
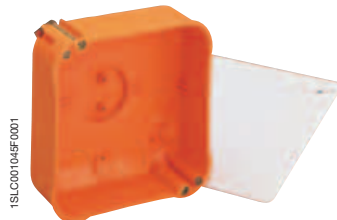
- execution in self-extinguishing thermoplastic material
- IP 40
- installation on plastered panels, of masonite, and so on, of 7- 35 mm thickness



Wiring accessories and junction boxes

Enclosures and boxes for light prefabrication

Junction boxes



Code	Description	Box/pack No items
10 801	wiring accessories box Ø 60 mm, P 45 mm(*)	1/75
10 807	wiring accessories box Ø 60 mm, P 35 mm(*)	1/100
10 802	wiring accessories and junction box Ø 60 mm, P 61 mm(*)	1/50
10 803	junction box increased with lid Ø 74 mm, P 50 mm(*)	1/60

Code	Description	Box/pack No items
10 808	junction box with lid W 100 mm x H 100 mm x D 45 mm(*)	1/36
10 811	box lid 10808, with 2 fixing screws	10/540

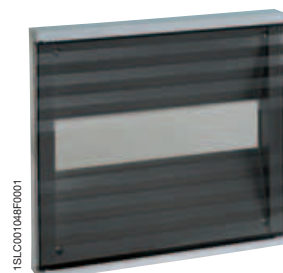
Code	Description	Box/pack No items
10 804	wiring accessories modular box W 100 mm x H 62 mm x D 40 mm(*)	1/85
10 805	wall light box with lid W 65 mm x H 35 mm x D 40 mm(*)	1/100

(*) To make the holes, use ABB cutters:

- cutter code 10840 for boxes code 10808 and 10805
- cutter code 10841 for boxes item code 10801, 1807 and 10802
- cutter code 10842 for boxes code 10803
- cutter code 10843 for boxes code 10804

7 Boxes for consumer units

Fronts for consumer units with polycarbonate transparent smoky



Code	Description	Box/pack No items
10 821	box for consumer units 8 modules W 160 mm x H 160 mm x D 65 mm	1/10
10 822	box for consumer units 12 modules W 235 mm x H 205 mm x D 70 mm	1/7
10 831	lid in plastic material for box 10821, with 4 fixing screws	10/200
10 832	lid in plastic material for box 10822, with 4 fixing screws	5/100

Code	Description	Box/pack No items
10 833	RAL 7035 grey fronts for consumer unit 8 modules with DIN rail and fixing screws	1/20
10 834	RAL 7035 grey fronts for consumer unit 12 modules with DIN rail and fixing screws	1/12

Wiring accessories and junction boxes

Accessories for enclosures and boxes for light prefabrication

Cutters



Code	Description	Box/pack No items
10 840	cutter with marginal countersink Ø 35 mm, H adjustable (*)	1
10 841	cutter with marginal countersink Ø 68 mm, H adjustable (*)	1
10 842	cutter with marginal countersink Ø 74 mm, H adjustable (*)	1
10 843	cutter with marginal countersink Ø 62 mm, H 18 mm	1

(*) Adjustable for execution of holes in panels of 7 – 20 mm in thickness.

Spare ribs for cutters



Code	Description	Box/pack No items
10 844	spare rib for cutter 10840, H 18 mm	10/120
10 845	spare rib for cutter 10841, H 18 mm	9/108
10 846	spare rib for cutter 10842, H 18 mm	9/108

Spare marginal countersinks for cutters



Code	Description	Box/pack No items
10 847	marginal countersink for cutter 10840	10/120
10 848	marginal countersink for cutter 10841	10/120
10 849	marginal countersink for cutter 10842	10/120
10 850	marginal countersink for cutter 10843	10/120

Helicoidal point



Code	Description	Box/pack No items
10851	helical point with hexagonal queue Ø 8 mm	1/10

Residential/tertiary application



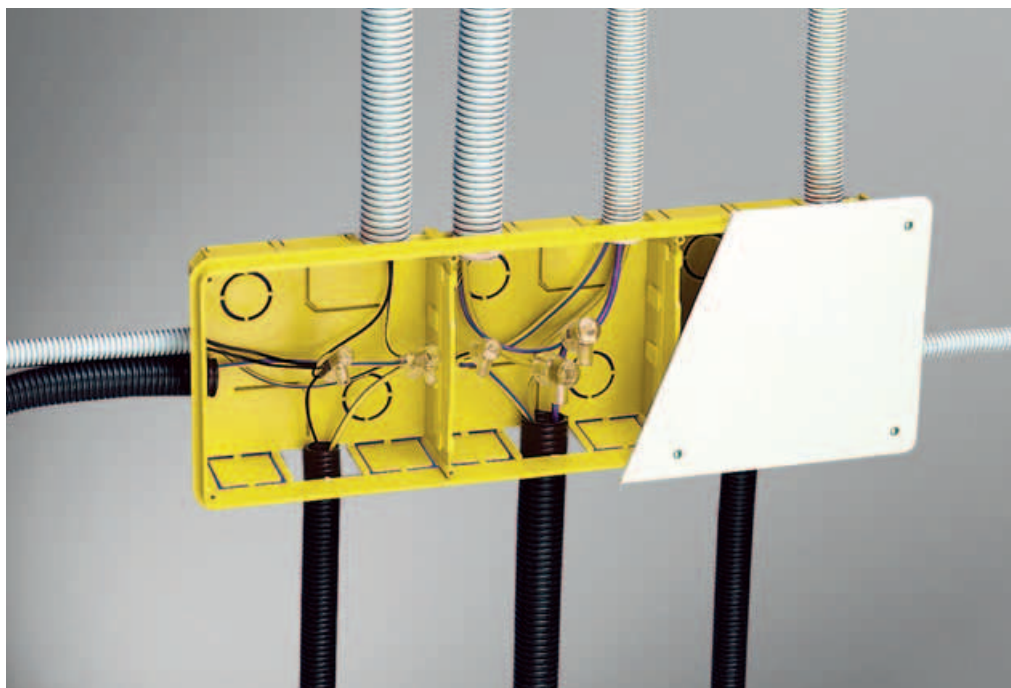
FLO09845

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 60695-2-11 Standard
- large push-in windows
- lid in RAL 9016 with self-threaded screws included in the supply
- operating temperature from -5 °C to +60 °C
- wiring accessories and junction boxes made in compliance with CEI EN 60670-1 and CEI EN 60670-22 Standards
- new enlarged box for 3 modules with new accessories (mortar cover, spacer, separator)



FLC09915

Wiring accessories and junction boxes

Wiring accessories and junction boxes in thermoplastic material

Truncated-conical box for wiring



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

Round box for wiring accessories



Code	Description	Box/pack No items
00 051	round box Ø 85 mm	230/230

Rectangular for wiring accessories



Code	Description	Box/pack No items
1SL0060A00	rectang. box 3 wiring accessories MAXI inter. 83.5 mm	10/400
1SL0061A00	protective cover for box 1SL0060A00	20/90
1SL0062A00	spacer for box 1SL0060A00	20/200
1SL0063A00	separator for box 1SL0060A00	100/100
00 052	rectang. box 3 wiring accessories inter. 83.5 mm	500/500
00 053	rectang. box 4 wiring accessories inter. 108 mm	150/150
1SL0064A00	rectang. box 6 wiring accessories inter. 100 mm	1/200

Box for telephone jack



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

(*) Complete with lid.

Junction boxes



Code	Dimensions (mm) WxHxD	Box/pack No items
00 070	92x92x45	1/105
00 071	120x100x50	1/72
00 072	120x100x70	1/48
00 073	152x100x70	1/42
00 074	160x130x70	1/32

Code	Dimensions (mm) WxHxD	Box/pack No items
00 075	196x152x70	1/19
00 076	294x152x70	1/15
00 077	392x152x70	1/11
00 078	480x160x70	1/10

The separator code 00 090 can be inserted for all articles.

Wiring accessories and junction boxes

Accessories for wiring accessories and junction boxes in thermoplastic material

Spare lids for wiring accessories boxes



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



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

Spare covers for junction boxes



Code	For boxes type	Box/pack No items
00 091	00 070	20/200
00 092	00 071 – 00 072	20/160
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

All codes complete with self-tapping screws.

Separator for junction boxes



Code	Box/pack No items
00 090	100/400



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 trivalent passivation with minimum zinc thickness (6/8 microns) in accordance with new RoHS Standards
- axial dimples on the rails without holes, to facilitate the drilling of installation holes
- strict control of the dimensions as required by the Standard EN 60715
- application area: industrial

Top hat section rail

TH 35 - 7.5



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

Top hat section rail

TH 35 - 15



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

"G" section rail

G 32



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

Top hat section rail

TH 35 - 7.5 with holes



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

Top hat section rail

TH 35 - 15 with holes



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

(*) B = external base; b = internal base; H = height of rail; S = thickness of rail.

"G" section rail

G 32 with holes



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

Installation material

Accessories for metal rails

Supporting bracket for metal rails



Code	Box/pack No items
12 892	50/300

Plastic base for wiring ducts



Code	Box/pack No items
05 210	100/200

Universal plastic connector



Code	Box/pack No items
12 893	50/3000

Universal metal connector



12 829



12 828

Code	Box/pack No items
12 828	50/1500
12 829	50/1500

Installation material

Cable-ties and spirals

Technical characteristics

Polyamide cable-ties 6/6

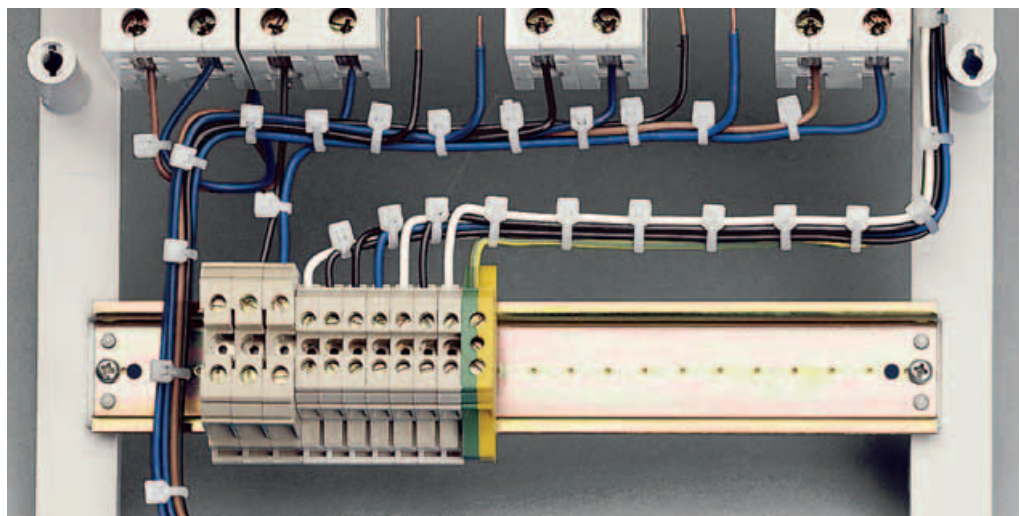
- available in two versions:
 - **transparent**
 - **carbon black**, UV resistant
- operating temperature from -40 °C to +85 °C
- mounting temperature: from -10 °C to +60 °C
- maximum admissible point +110 °C (for short periods)
- melting temperature +256 °C
- oxygen limit index (LOI) 27%
- absorption of humidity 2.7% (23 °C – 50% R.H.)
- self-extinguishing class according to UL 94: V2
- dielectric rigidity 50,000 V/mm
- strong resistance to bases, greases, hydrocarbons, acetone and chlorates
- not resistant to phenolic and formic acids
- limited resistance to concentrated acids
- according to EN 50146 Standard
- 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
- available in boxes of 100 to 1000 items
- particularly suited to the cabling of control panels
- type approval Italian Naval Register ELE/256607/CS
- application area: tertiary/industrial

Polyamide cable-ties

- available in **black**, UV resistant
- operating temperature from -45 °C to +85 °C
- mounting temperature: from -10 °C to +60 °C
- maximum admissible point +110 °C (for short periods)
- melting temperature +256 °C
- oxygen limit index (LOI) 27%
- absorption of humidity <1% (23 °C – 50% R.H.)
- made in UV resistant material
- self-extinguishing class according to UL 94: HB
- strong resistance to bases, greases, hydrocarbons, acetone and chlorates
- not resistant to phenolic and formic acids
- limited resistance to concentrated acids
- 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
- available in boxes of 100 items
- particularly suited to external use
- 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



Type approval Italian Naval
Register ELE/256607/CS

FLM8012

Installation material

Cable-ties and spirals

6/6 transparent polyamide cable-ties



Code	Dimensions (mm) WxL	Resistance to tensile strength (N) ^(*)	Ø tightening min.(mm) max.(mm)	No items	Box/pack
18 010	98X2.5	80	1 21	100	1/80
18 011	135X2.5	80	1 32	100	1/60
18 013	160X2.6	80	1 40	100	1/50
18 012	140X3.6	130	2 35	100	1/50
18 014	200X3.6	130	2 50	100	1/40
18 017	290X3.6	130	2 80	100	1/30
18 015	178X4.8	220	2 45	100	1/30
18 018	290X4.8	220	3.5 79	100	1/25
18 020	360X4.8	220	3.5 103	100	1/15
18 024	240X7.8	540	3.5 63	100	1/20
18 026	300X7.8	540	4 80	100	1/10
18 028	365x7.8	533	5 102	100	1/20
18 034	450X7.8	540	35 130	100	1/20
18 036	540X7.8	540	35 158	100	1/20
18 038	780X9	700	32 233	100	1/8
18 060	98X2.5	80	1 21	1000	1/15
18 061	135X2.5	80	1 32	1000	1/15
18 063	160X2.6	80	1 40	1000	1/10
18 062	140X3.6	130	2 35	1000	1/10
18 064	200X3.6	130	2 50	1000	1/5

^(*) N = Newton

Polyamide cable-ties for external use



Code	Dimensions (mm) WxL	Resistance to tensile strength (N) ^(*)	Ø tightening min.(mm) max.(mm)	No items	Box/pack
18 210	115X6	280	5 25	100	1/30
18 212	180X6	280	9 45	100	1/20
18 218	132X9	390	8 27	100	1/20
18 220	180X9	390	10 40	100	1/20
18 222	260X9	540	26 62	100	1/10
18 224	360X9	540	26 93	100	1/8

^(*) N = Newton

6/6 black polyamide cable-ties



Code	Dimensions (mm) WxL	Resistance to tensile strength (N) ^(*)	Ø tightening min.(mm) max.(mm)	No items	Box/pack
18 110	98X2.5	80	1 21	100	1/80
18 111	135X2.5	80	1 32	100	1/60
18 113	160X2.6	80	1 40	100	1/50
18 112	140X3.6	130	2 35	100	1/50
18 114	200X3.6	130	2 50	100	1/40
18 117	290X3.6	130	2 80	100	1/30
18 115	178X4.8	220	2 45	100	1/30
18 118	290X4.8	220	3.5 79	100	1/25
18 120	360X4.8	220	3.5 103	100	1/15
18 124	240X7.8	540	3.5 63	100	1/20
18 126	300X7.8	540	4 80	100	1/10
18 128	365X7.8	540	8 100	100	1/20
18 134	450X7.8	540	35 130	100	1/20
18 136	540X7.8	540	35 158	100	1/20
18 138	780X9	700	32 233	100	1/8
18 160	98X2.5	80	1 21	1000	1/15
18 161	135X2.5	80	1 32	1000	1/15
18 163	160X2.6	80	1 40	1000	1/10
18 162	140X3.6	130	2 35	1000	1/10
18 164	200X3.6	130	2 50	1000	1/5

^(*) N = Newton

Spirals



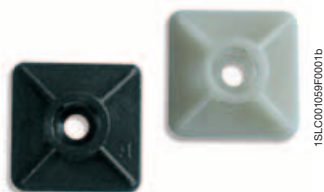
Code	Dimensions (mm) ^(*) Ø x a	For bundle of cables Ø min. (mm) max. (mm)	No items	Box/pack
In transparent polyethylene				
18 370	3x5	2 12	25	1/10
18 372	6x8	5 56	25	1/12
18 374	10x11	12 100	25	1/4
18 376	12x13	14 130	25	1/4
In self-extinguishing polyethylene				
18 380	3x5	2 12	50	1/10
18 382	6x8	5 56	50	1/12
18 384	10x11	12 100	50	1/4
18 386	12x13	14 130	50	1/4

^(*) Ø = diameter
a = width of spiral

Installation material

Accessories for cable-ties

Self-adhesive supports for cable-ties



Code	Description	No items	Box/pack
18 250	transparent plate	50	1/30
18 251	black plate	50	1/30

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 be fixed with a central Ø 4 mm screw.

Screw supports for cable-ties



Code	Description	No items	Box/pack
18 252	transparent plate	100	1/60
18 253	black plate	100	1/60

For cable-ties 2.4-4.8 mm wide.
Made in 6/6 transparent or black polyamide.
Fix with Ø 4 mm o screw or Ø 2 mm.

Pincer for cable-ties



Code	Box/pack No items
18 270	1/10

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.

Screw supports for external cable-ties



Code	Description	No items	Box/pack
18 280	black plate	25	1/60

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



Code	Description	No items	Box/pack
18 282	black plate	25	1/60

For cable-ties 6-9 mm wide.
Made in 6/6 black polyamide.

Pincer for external cable-ties



Code	Box/pack	No items
18 290	10/30	

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 °C and +90 °C
- suitable for use with various materials (from cement to wood) with a high holding level

Technical detailspage 9/1

Overall dimensionspage 10/44

Wall plugs



Code	Colour	Dimensions (mm) diam.x L	No items	Box/pack
18 405	grey	5x25	200	1/60
18 406	grey	6x30	100	1/60
18 408	grey	8x40	100	1/30
18 410	grey	10x50	50	1/30

Wall plugs with screws



Code	Colour	Dimensions (mm) wall plug diam.	screws diam. x L	No items	Box/pack
18 415	grey	5	3.5 x 25	100	1/30
18 416	grey	6	4 x 30	100	1/30
18 418	grey	8	5 x 40	50	1/30
18 420	grey	10	6 x 50	50	1/30

Wall plugs with nail/screw



Code	Colour	Dimensions (mm) wall plug diam.	screws diam. x L	No items	Box/pack
18 430	white	5	3.5 x 27	100	1/30
18 432	white	6	4 x 35	100	1/30
18 434	white	6	4 x 55	50	1/30
18 436	white	8	5 x 70	50	1/30
18 440	white	8	5 x 72	50	1/30

For quick fixing.
Expansion with hammering of the nail/screw, can be unscrewed.
With a neck to hold the element to be fastened.

Wall plugs with hooks



Code	Colour	Description	No items	Box/pack
18 450	grey	screw M4	50	1/30
18 452	grey	short angled hook M4	50	1/30
18 454	grey	medium angled hook M4	50	1/30
18 456	grey	open angled hook M4	50	1/12
18 458	grey	closed angled hook M4	50	1/12

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.)

Technical details.....page 9/1

Overall dimensionspage 10/44

Wall plugs with hooks

With washer



Code	Description	No items	Box/pack
18 460	screw with M4 Philips countersunk head	50	1/30
18 461	screw with M5 Philips countersunk head	50	1/30
18 464	short angled hook M4	50	1/30
18 465	short angled hook M5	25	1/30
18 466	medium angled hook M4	50	1/30
18 467	medium angled hook M5	25	1/30
18 470	hook with open eyelet M4	50	1/30
18 471	open angled hook M5	25	1/30
18 472	hook with closed eyelet M4	50	1/30
18 473	hook with closed eyelet M5	25	1/30

Wall plugs with hooks

With washer



Code	Description	No items	Box/pack
18 476	flat hook M4	50	1/30
18 477	flat hook M5	25	1/30
18 478	medium angled hook M4	25	1/30
18 479	medium angled hook M5	25	1/30

8

Wall anchors

Thread M4 – hole Ø14



Code	Description	No items	Box/pack
18 490	screw with M4 Philips countersunk head	10	1/30
18 492	M4 head	10	1/30
18 494	hook with open eyelet M4	10	1/30
18 496	hook with closed eyelet M4	10	1/30

Screws with wall plugs



Code	Description	No items	Box/pack
18 486	screw with hexagonal head M6x50	20	1/30
18 487	screw with hexagonal head M8x55	10	1/30
18 488	screw with hexagonal head M10x60	10	1/30
18 489	screw with hexagonal head M10x70	5	1/30

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 60695-2-11 Standard
- thermo-plastic fastening elements with operating conditions from -30 °C to +70 °C
- application area: tertiary/residential

Technical detailspage 9/1

Overall dimensionspage 10/44

Snap-on conduit holders



Code	Colour	For conduits Ø (mm)	No items	Box/pack
05 700	grey	16	100	1/12
05 701	grey	20	100	1/12
05 702	grey	25	50	1/12
05 703	grey	32	25	1/12
05 704	grey	40	25	1/12

Self-extinguishing thermo-plastic.
Fixed to the wall using a wall-plug or a suitable guide.

Collar conduit holders



Code	Colour	For conduits Ø (mm)	No items	Box/pack
05 720	grey	16	100	1/12
05 721	grey	20	50	1/12
05 722	grey	25	50	1/12
05 723	grey	32	25	1/12

Self-extinguishing thermo-plastic.
Fixed to the wall using a wall-plug or a suitable guide.

U-bolt conduit holders



Code	Colour	For conduits Ø (mm)	No items	Box/pack
05 694	grey	12–16	50	1/12
05 695	grey	16–25	50	1/12
05 696	grey	25–32	20	1/12
05 697	grey	32–40	15	1/12
05 698	grey	40–50	10	1/12

Self-extinguishing thermo-plastic.
Fixed to the wall using a wall-plug or a suitable guide.

Strap holders



Code	Colour	For straps BxH (mm)	No items	Box/pack
05 760	grey	6x3.5	200	1/60
05 761	grey	8x3.5	200	1/60
05 762	grey	11x5	100	1/60
05 763	white	6x3.5	200	1/60
05 764	white	8x3.5	200	1/60
05 765	white	11x5	100	1/60

Self-extinguishing thermo-plastic.

Installation material

Fastening elements

Conduit clamps



Code	For conduits Ø (mm)	No items	Box/pack
05 730	10	100	1/30
05 731	12	100	1/30
05 732	13	100	1/30
05 733	14	100	1/30
05 734	16	50	1/30
05 735	19–20	50	1/30
05 736	22	50	1/30
05 737	25–26	50	1/12
05 738	32	50	1/12
05 739	38	25	1/12
05 740	40	25	1/12
05 741	50	25	1/12

In galvanised steel.

Conduit clamp collars



Code	For conduits Ø (mm)	No items	Box/pack
05 745	10	50	1/30
05 746	12	50	1/30
05 747	13	50	1/30
05 748	14	50	1/30
05 749	16	50	1/30
05 750	19–20	25	1/30
05 751	22	25	1/30
05 752	25–26	25	1/30
05 753	32	25	1/12
05 754	38	25	1/12
05 755	40	25	1/12
05 756	50	25	1/12

In galvanised steel.

Rail for conduit-clamps



Code	Box/pack
05 727	1/1

Self-extinguishing thermo-plastic.
Supplied in sections of 400 pieces from 200 mm.

Insulated cable-clamps



Code	Clamping capacity (mm²)	No items	Box/pack
05 950	4	100	1/30
05 951	10	50	1/30
05 952	16	25	1/30

Self-extinguishing poly-carbonate.
Operating temperature from -30 °C to +85 °C.
Brass clamps.

Cable holders



Code	Colour	For conduits and cables Ø (mm)	No items	Box/pack
05 770	grey	4	200	1/60
05 771	grey	5	200	1/60
05 772	grey	6	200	1/60
05 773	grey	7	100	1/60
05 774	grey	8	100	1/60
05 775	grey	9	100	1/30
05 776	grey	10	100	1/30
05 777	grey	12	100	1/30
05 778	grey	13	100	1/30
05 779	grey	14	100	1/30
05 780	grey	16	50	1/30
05 781	grey	19–20	25	1/30
05 782	grey	22	25	1/30
05 783	grey	25–26	25	1/12
05 784	grey	32	25	1/12
05 788	white	4	200	1/60
05 789	white	5	200	1/60
05 790	white	6	200	1/60
05 791	white	7	100	1/60
05 792	white	8	100	1/60
05 793	white	9	100	1/60
05 794	white	10	100	1/30
05 795	white	12	100	1/30
05 796	white	13	100	1/30

Self-extinguishing thermo-plastic.



Further technical information and applications

Index

Definition of IP protection degree, IK degree of mechanical shock protection, double insulation and self-extinguishing protection degree	9/2
Consumer units for modular circuit breakers – summarised technical data	9/4
Switchboards and boxes – reaction to chemical agents	9/11
Possible configurations of terminal holders – terminal bars for consumer units	9/12
Enclosures and boxes for light prefabrication	9/15
Mounting examples and functional details	9/16
Branch connections using the bi-material flange	9/22

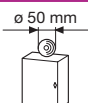
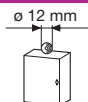
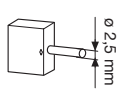
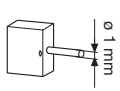
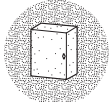
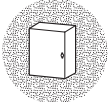
Further technical information and applications

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

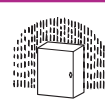
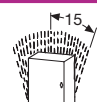
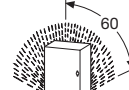
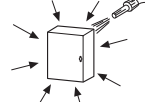
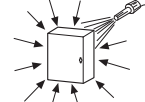
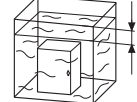
IP protection degree for enclosures*

First number: protection against the penetration of solid bodies

Second number: protection against the penetration of water

IP	Full description
0	No protection is provided
1	 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	 It must be impossible for fingers or similar objects with a maximum length of 80 mm or solid bodies with a diameter greater than 12 mm, to penetrate
3	 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	 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	 Not totally dust proof, but the quantity that penetrates is not such to prevent the material from functioning well
6	 No dust can penetrate

1st number defined by Standards CEI 70-1 - IEC 60529

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

2nd number defined by Standards CEI 70-1 - IEC 60529

* Consumer unit with IP 40 protection degree

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

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).

Further technical information and applications

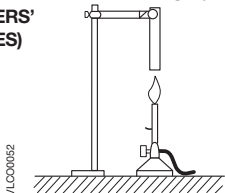
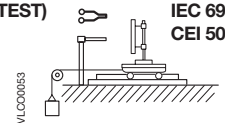
Definition of IP protection degree, IK degree of mechanical shock protection, double insulation and self-extinguishing protection degree

Degree of mechanical shock protection IK conforming to the CEI EN 62262 Standard

Text equipment used includes a spring hammer, a pendulum hammer and a vertical hammer.

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

Self-extinguishing protection degree

Test text	Equipment required	Compliance with Standards	Purpose of the test	Test results	Heat source	Test conditions Length of test	Characteristic elements
UL (UNDERWRITERS' LABORATORIES)		UL 94	A classification is given to the various types of behaviour that the materials may have following contact with the Bunsen flame	V0 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 10 sec	Flame applied for 10 seconds and for two consecutive times	Duration of combustion
(GLOW-WIRE TEST)		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 Unibox Series

CODE	1SL0500A00 ⁽¹⁾ 1SL0510A00 ⁽²⁾	1SL0501A00 ⁽¹⁾ 1SL0511A00 ⁽²⁾	1SL0502A00 ⁽¹⁾ 1SL0512A00 ⁽²⁾	1SL0503A00 ⁽¹⁾ 1SL0513A00 ⁽²⁾	1SL0504A00 ⁽¹⁾ 1SL0514A00 ⁽²⁾
NUMBER OF MODULES	8	12	24	36	54
COLOUR	RAL 9016 white	RAL 9016 white	RAL 9016 white	RAL 9016 white	RAL 9016 white
DOUBLE INSULATION	YES	YES	YES	YES	YES
RESISTANCE TO HEAT	GWT 650 °C	GWT 650 °C	GWT 650 °C	GWT 65 °C	GWT 650 °C
TYPE OF MATERIAL	Thermo-plastic	Thermo-plastic	Thermo-plastic	Thermo-plastic	Thermo-plastic
SHOCK RESISTANCE	10 Joule	10 Joule	10 Joule	10 Joule	10 Joule
INSTALLATION TEMPERATURE	-15 °C ÷ +60 °C	-15 °C ÷ +60 °C	-15 °C ÷ +60 °C	-15 °C ÷ +60 °C	-15 °C ÷ +60 °C
RESISTANCE TO HEAT	up to +85 °C	up to +85 °C	up to +85 °C	up to +85 °C	up to +85 °C
PROTECTION DEGREE	IP 40	IP 40	IP 40	IP 40	IP 40
MAX DISSIPATION POWER ⁽³⁾	22 W	29 W	35 W	50 W	58 W
EXTRACTABLE FRAME	YES	YES	YES	YES	YES

(1) With opaque door.

(2) With transparent door.

(3) Data concerning dissipation power have been obtained by following the instructions of CEI 23-49 Standard, with a temperature difference of $\Delta t = 30\text{ °C}$.

Reaction to chemical agents (*)

	Cold water	Hot water	Sulphuric acid 40%	Hydrochloric acid 35%	Acetic acid 10%	Benzole	Gasoline	Acetone	Ethyl alcohol	Ammonia liquid	Dichloromethane	Diesel oil- naphta	Mineral oils and grasses	Food oils and grasses	Perchloroethylene	Trichloroethylene	Ethylether	Ozone	Toluene	Methanol	Spirits	Milk	Fruit juices	Fluoride hydrocarbons	Lye-washes	Cleansings	Water solution
IP 40 Estetica and Europa Series flush-mounting consumer units	■	■	▲	▲	■	●	■	●	▲	■	●	■	■	■	●	●	●	■	●	▲	■	■	■	●	■	■	■

■ resistant ▲ partially resistant ● not resistant

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Further technical information and applications

Consumer units for modular circuit breakers – summarised technical data

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

CODE	1SL2024A00 - 12 037	1SL2028A00 - 12 038 1SL2040A00 - 12 026 1SL2057A00 - 12 058	1SL2032A00 - 12 042 1SL2004A00 - 12 027 1SL2061A00 - 12 062	1SL2033A00 - 12 043	1SL2034A00 - 12 044 1SL2045A00 - 12 030 1SL2063A00 - 12 064	1SL2036A00 - 12 046 1SL2048A00 - 12 031 1SL2065A00 - 12 066	1SL2052A00 - 12 035 1SL2067A00 - 12 068
NUMBER OF MODULES	4	8	12	18	24	36	54
COLOUR	RAL 9016 white RAL 7021 grey	RAL 9016 white RAL 7021 grey	RAL 9016 white RAL 7021 grey	RAL 9016 white RAL 7021 grey	RAL 9016 white RAL 7021 grey	RAL 9016 white RAL 7021 grey	RAL 9016 white
WITH TRANSPARENT DOOR	YES	YES	YES	YES	YES	YES	YES
WITH OPAQUE DOOR	-	YES	YES	-	YES	YES	YES
DOUBLE INSULATION	YES	YES	YES	YES	YES	YES	YES
RESISTANCE TO HEAT	GWT 650 °C	GWT 650 °C	GWT 650 °C	GWT 650 °C	GWT 650 °C	GWT 650 °C	GWT 650 °C
TYPE OF MATERIAL	Thermo-plastic	Thermo-plastic	Thermo-plastic	Thermo-plastic	Thermo-plastic	Thermo-plastic	Thermo-plastic
SHOCK RESISTANCE	6 Joule	6 Joule	6 Joule	6 Joule	6 Joule	6 Joule	6 Joule
INSTALLATION							
TEMPERATURE	-15 °C ÷ +60 °C	-15 °C ÷ +60 °C	-15 °C ÷ +60 °C	-15 °C ÷ +60 °C	-15 °C ÷ +60 °C	-15 °C ÷ +60 °C	-15 °C ÷ +60 °C
RESISTANCE TO HEAT	up to +85 °C	up to +85 °C	up to +85 °C	up to +85 °C	up to +85 °C	up to +85 °C	up to +85 °C
PROTECTION DEGREE	IP 40	IP 40	IP 40	IP 40	IP 40	IP 40	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

(1) Data concerning dissipative power have been obtained by following the instructions in CEI 23-49 Standard, with a temperature difference of $\Delta t = 30\text{ °C}$.

Further technical information and applications

Consumer units for modular circuit breakers – summarised technical data

Wall-mounting consumer units IP 40 Unibox Series without door

CODE	12 208	12 212	12 214	12 216	12 217
NUMBER OF MODULES ⁽¹⁾	8 + 1	12 + 1	24 + 2	36 + 3	54 + 3
COLOUR	RAL 9016 white	RAL 9016 white	RAL 9016 white	RAL 9016 white	RAL 9016 white
WITHOUT DOOR	YES	YES	YES	YES	YES
DOUBLE INSULATION	YES	YES	YES	YES	YES
RESISTANCE TO HEAT	GWT 650 °C	GWT 650 °C	GWT 650 °C	GWT 650 °C	GWT 650 °C
TYPE OF MATERIAL	Thermo-plastic	Thermo-plastic	Thermo-plastic	Thermo-plastic	Thermo-plastic
SHOCK RESISTANCE	10 Joule (IK 09)	10 Joule (IK 09)	10 Joule (IK 09)	10 Joule (IK 09)	10 Joule (IK 09)
INSTALLATION TEMPERATURE	-25 °C ÷ +60 °C	-25 °C ÷ +60 °C	-25 °C ÷ +60 °C	-25 °C ÷ +60 °C	-25 °C ÷ +60 °C
RESISTANCE TO HEAT	up to +85 °C	up to +85 °C	up to +85 °C	up to +85 °C	up to +85 °C
PROTECTION DEGREE	IP 40	IP 40	IP 40	IP 40	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 Ø 25÷32 mm TRUNKINGS up to 200X60 mm	CONDUITS Ø 25÷32 mm TRUNKINGS up to 200X60 mm	CONDUITS Ø 25÷32 mm TRUNKINGS up to 200X60 mm	CONDUITS Ø 25÷32 mm TRUNKINGS up to 200X60 mm	CONDUITS Ø 25÷32 mm TRUNKINGS up to 200X60 mm
EXTRACTABLE FRAME	-	-	YES	YES	YES

(1) Extra modules see characteristics on page 2/23.

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

Wall-mounting consumer units IP 40 Unibox Series with door

CODE	12 238 12 258	12 242 12 262	12 244 12 264	12 246 12 266	12 247 12 267
NUMBER OF MODULES	8 + 1	12 + 1	24 + 2	36 + 3	54 + 3
COLOUR	RAL 9016 white	RAL 9016 white	RAL 9016 white	RAL 9016 white	RAL 9016 white
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	GWT 650 °C	GWT 650 °C	GWT 650 °C	GWT 650 °C	GWT 650 °C
TYPE OF MATERIAL	Thermo-plastic	Thermo-plastic	Thermo-plastic	Thermo-plastic	Thermo-plastic
SHOCK RESISTANCE	10 Joule (IK 09)	10 Joule (IK 09)	10 Joule (IK 09)	10 Joule (IK 09)	10 Joule (IK 09)
INSTALLATION TEMPERATURE	-25 °C ÷ +60 °C	-25 °C ÷ +60 °C	-25 °C ÷ +60 °C	-25 °C ÷ +60 °C	-25 °C ÷ +60 °C
RESISTANCE TO HEAT	up to +85 °C	up to +85 °C	up to +85 °C	up to +85 °C	up to +85 °C
PROTECTION DEGREE	IP 40	IP 40	IP 40	IP 40	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 Ø 25÷32 mm TRUNKINGS up to 200X60 mm	CONDUITS Ø 25÷32 mm TRUNKINGS up to 200X60 mm	CONDUITS Ø 25÷32 mm TRUNKINGS up to 200X60 mm	CONDUITS Ø 25÷32 mm TRUNKINGS up to 200X60 mm	CONDUITS Ø 25÷32 mm TRUNKINGS up to 200X60 mm
EXTRACTABLE FRAME	-	-	YES	YES	YES

(1) Extra modules see characteristics on page 2/23.

(2) Data concerning dissipative 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 (*)

	Cold water	Hot water	Sulphuric acid 40%	Hydrochloric acid 35%	Acetic acid 10%	Benzole	Gasoline	Acetone	Ethyl alcohol	Ammonia liquid	Dichloromethane	Diesel oil- naphta	Mineral oils and grases	Food oils and grases	Perchloroethylene	Trichloroethylene	Ethylether	Ozone	Toluene	Methanol	Spirits	Milk	Fruit juices	Fluoride hydrocarbons	Lye-washes	Cleansings	Water solution
IP 40 Unibox and Europa Series wall-mounting consumer units and IP 40 wall-mounting covers	■	■	▲	▲	■	●	■	●	▲	■	●	■	■	■	●	●	●	■	●	▲	■	■	■	●	■	■	■

■ 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

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

CODE	1SL2402A00 12 422	1SL2404A00 12 424	1SL2406A00 12 426	1SL2408A00 12 428	1SL2412A00 12 432	1SL2414A00 12 434	1SL2416A00 12 436	1SL2417A00 12 437
NUMBER OF MODULES	2	4	6	8	12	24	36	54
COLOUR	RAL 9016 white RAL 7035 grey	RAL 9016 white RAL 7035 grey	RAL 9016 white RAL 7035 grey	RAL 9016 white RAL 7035 grey	RAL 9016 white RAL 7035 grey	RAL 9016 white RAL 7035 grey	RAL 9016 white RAL 7035 grey	RAL 9016 white RAL 7035 grey
WITHOUT DOOR	YES	YES	YES	YES	YES	YES	YES	YES
DOUBLE INSULATION	YES	YES	YES	YES	YES	YES	YES	YES
RESISTANCE TO HEAT	GWT 650 °C	GWT 650 °C	GWT 650 °C	GWT 650 °C	GWT 650 °C	GWT 650 °C	GWT 650 °C	GWT 650 °C
TYPE OF MATERIAL	Thermo-plastic	Thermo-plastic	Thermo-plastic	Thermo-plastic	Thermo-plastic	Thermo-plastic	Thermo-plastic	Thermo-plastic
SHOCK RESISTANCE	6 Joule	6 Joule	6 Joule	6 Joule	6 Joule	6 Joule	6 Joule	6 Joule
INSTALLATION TEMPERATURE	-25 °C ÷ +60 °C	-25 °C ÷ +60 °C	-25 °C ÷ +60 °C	-25 °C ÷ +60 °C	-25 °C ÷ +60 °C	-25 °C ÷ +60 °C	-25 °C ÷ +60 °C	-25 °C ÷ +60 °C
RESISTANCE TO HEAT	up to +85 °C	up to +85 °C	up to +85 °C	up to +85 °C	up to +85 °C	up to +85 °C	up to +85 °C	up to +85 °C
PROTECTION DEGREE	IP 40	IP 40	IP 40	IP 40	IP 40	IP 40	IP 40	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 Ø 25÷32 mm	CONDUITS Ø 25÷32 mm	CONDUITS Ø 25÷32 mm	CONDUITS Ø 25÷32 mm	Direct branch connection Conduits-cables Ø 5÷35 mm
DESIGNED FOR MOULDED-CASE CIRCUIT BREAKERS	-	-	-	-	-	-	YES	YES
DESIGNED FOR RAPID CABLING	-	-	-	-	-	-	-	UNIFIX L

(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.

Wall-mounting consumer units IP 40 Europa Series with door

CODE	1SL2438A00 – 12 448 12 458 – 12 468	1SL2442A00 – 12 452 12 462 – 12 472	1SL2444A00 – 12 454 12 464 – 12 474	1SL2446A00 – 12 456 12 466 – 12 476	1SL2447A00 – 12 457 12 467 – 12 477
NUMBER OF MODULES	8	12	24	36	54
COLOUR	RAL 9016 white RAL 7035 grey	RAL 9016 white RAL 7035 grey	RAL 9016 white RAL 7035 grey	RAL 9016 white RAL 7035 grey	RAL 9016 white RAL 7035 grey
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	GWT 650 °C	GWT 650 °C	GWT 650 °C	GWT 650 °C	GWT 650 °C
TYPE OF MATERIAL	Thermo-plastic	Thermo-plastic	Thermo-plastic	Thermo-plastic	Thermo-plastic
SHOCK RESISTANCE	6 Joule	6 Joule	6 Joule	6 Joule	6 Joule
INSTALLATION TEMPERATURE	-25 °C ÷ +60 °C	-25 °C ÷ +60 °C	-25 °C ÷ +60 °C	-25 °C ÷ +60 °C	-25 °C ÷ +60 °C
RESISTANCE TO HEAT	up to +85 °C	up to +85 °C	up to +85 °C	up to +85 °C	up to +85 °C
PROTECTION DEGREE	IP 40	IP 40	IP 40	IP 40	IP 40
MAX DISSIPATION POWER ⁽¹⁾	19 W	27 W	31 W	45 W	56 W
DESIGNED FOR INPUT	CONDUITS Ø 25÷32 mm	CONDUITS Ø 25÷32 mm	CONDUITS Ø 25÷32 mm	CONDUITS Ø 25÷32 mm	Direct branch connections Conduits-cables Ø 5÷35 mm
DESIGNED FOR MOULDED-CASE CIRCUIT BREAKERS	-	-	-	YES	YES
DESIGNED FOR RAPID CABLING	-	-	-	-	UNIFIX L

(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.

Reaction to chemical agents (*)

	Cold water	Hot water	Sulphuric acid 40%	Hydrochloric acid 35%	Acetic acid 10%	Benzole	Gasoline	Acetone	Ethyl alcohol	Ammonia liquid	Dichloromethane	Diesel oil- naphtha	Mineral oils and grases	Food oils and grases	Perchloroethylene	Trichloroethylene	Ethylether	Ozone	Toluene	Methanol	Spirits	Milk	Fruit juices	Fluoride hydrocarbons	Lye-washes	Cleansings	Water solution
IP 40 Europa Polycarbonate Series wall-mounting consumer units	■	▲	■	▲	■	●	■	■	■	■	●	●	■	■	●	●	●	■	●	●	■	■	■	●	▲	▲	■

■ resistant
 ▲ partially resistant
 ● not resistant

VLC000056

(*) 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 40 Europa Series

CODE	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
DOUBLE INSULATION	YES	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	GWT 960 °C
TYPE OF MATERIAL	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate
SHOCK 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)
INSTALLATION TEMPERATURE	-25 °C ÷ +60 °C	-25 °C ÷ +60 °C	-25 °C ÷ +60 °C	-25 °C ÷ +60 °C	-25 °C ÷ +60 °C	-25 °C ÷ +60 °C	-25 °C ÷ +60 °C
RESISTANCE TO HEAT	up to +85 °C	up to +85 °C	up to +85 °C	up to +85 °C	up to +85 °C	up to +85 °C	up to +85 °C
PROTECTION DEGREE	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 Ø 5÷35 mm	COND. AND TRUNK Ø 5÷35 mm	COND. AND TRUNK Ø 5÷35 mm	COND. AND TRUNK Ø 5÷35 mm	COND. AND TRUNK Ø 5÷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	UNIFIX L	UNIFIX L	UNIFIX L	UNIFIX L

(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.

Wall-mounting consumer units IP 55 Europa Series

CODE	12 644	12 646	12 650	12 652	12 654
NUMBER OF MODULES	4	6	10	20	10
COLOUR	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey
WITH TRANSPARENT DOOR	YES	YES	YES	YES	YES
DOUBLE INSULATION	YES	YES	YES	YES	YES
RESISTANCE TO HEAT	GWT 650 °C	GWT 650 °C	GWT 650 °C	GWT 650 °C	GWT 650 °C
TYPE OF MATERIAL	Thermo-plastic	Thermo-plastic	Thermo-plastic	Thermo-plastic	Thermo-plastic
SHOCK RESISTANCE	6 Joule	6 Joule	6 Joule	6 Joule	6 Joule
INSTALLATION TEMPERATURE	-25 °C ÷ +60 °C	-25 °C ÷ +60 °C	-25 °C ÷ +60 °C	-25 °C ÷ +60 °C	-25 °C ÷ +60 °C
RESISTANCE TO HEAT	up to +85 °C	up to +85 °C	up to +85 °C	up to +85 °C	up to +85 °C
PROTECTION DEGREE	IP 55	IP 55	IP 55	IP 55	IP 55
MAX DISSIPATION POWER ⁽¹⁾	13 W	17 W	20 W	35 W	35 W
DESIGNED FOR INPUT	Ø 16 ÷ 40 mm	Ø 16 ÷ 40 mm	Ø 16 ÷ 40 mm	Ø 16 ÷ 40 mm	Ø 16 ÷ 40 mm

(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.

Reaction to chemical agents (*)

	Cold water	Hot water	Sulphuric acid 40%	Hydrochloric acid 35%	Acetic acid 10%	Benzole	Gasoline	Acetone	Ethyl alcohol	Ammonia liquid	Dichloromethane	Diesel oil- naphta	Mineral oils and grases	Food oils and grases	Perchloroethylene	Trichloroethylene	Ethylether	Ozone	Toluene	Methanol	Spirits	Milk	Fruit juices	Fluoride hydrocarbons	Lye-washes	Cleansings	Water solution
IP 55 Europa Series wall-mounting consumer units	■	■	▲	▲	■	●	■	●	▲	■	●	■	■	■	●	●	●	■	●	▲	■	■	■	●	■	■	■

■ 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 65 Fly Series

CODE	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
WITH TRANSPARENT DOOR	YES	YES	YES	YES	YES
WITH OPAQUE DOOR	YES	-	-	-	-
DOUBLE INSULATION	YES	YES	YES	YES	YES
TYPE OF MATERIAL	Thermo-plastic	Thermo-plastic	Thermo-plastic	Thermo-plastic	Thermo-plastic
SHOCK RESISTANCE	6 Joule (IK 08)	6 Joule (IK 08)	6 Joule (IK 08)	6 Joule (IK 08)	6 Joule (IK 08)
RESISTANCE TO HEAT	up to +85 °C	up to +85 °C	up to +85 °C	up to +85 °C	up to +85 °C
INSTALLATION TEMPERATURE	-25 °C ÷ +60 °C	-25 °C ÷ +60 °C	-25 °C ÷ +60 °C	-25 °C ÷ +60 °C	-25 °C ÷ +60 °C
RESISTANCE TO HEAT	GWT 650 °C	GWT 650 °C	GWT 650 °C	GWT 650 °C	GWT 650 °C
PROTECTION DEGREE	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	-	COND. AND TRUNK Ø 5÷35 mm	COND. AND TRUNK Ø 5÷35 mm	COND. AND TRUNK Ø 5÷35 mm	COND. AND TRUNK Ø 5÷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 dissipative power have been obtained by following the instructions in CEI 23-49 Standard, with a temperature difference of Dt = 30 °C.

Wall-mounting consumer units IP 65 Europa Series

CODE	12 724 – 12 744	12 728 – 12 748	12 732 – 12 752	12 733 – 12 753	12 734 – 12 754	12 735 – 12 755 12 736 – 12 756	12 738 – 12 758
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
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	GWT 650 °C	GWT 650 °C	GWT 650 °C	GWT 650 °C	GWT 650 °C	GWT 650 °C	GWT 650 °C
TYPE OF MATERIAL	Thermo-plastic	Thermo-plastic	Thermo-plastic	Thermo-plastic	Thermo-plastic	Thermo-plastic	Thermo-plastic
SHOCK RESISTANCE	6 Joule (IK 08)	6 Joule (IK 08)	6 Joule (IK 08)	6 Joule (IK 08)	6 Joule (IK 08)	6 Joule (IK 08)	6 Joule (IK 08)
INSTALLATION TEMPERATURE	-25 °C ÷ +60 °C	-25 °C ÷ +60 °C	-25 °C ÷ +60 °C	-25 °C ÷ +60 °C	-25 °C ÷ +60 °C	-25 °C ÷ +60 °C	-25 °C ÷ +60 °C
RESISTANCE TO HEAT	up to +85 °C	up to +85 °C	up to +85 °C	up to +85 °C	up to +85 °C	up to +85 °C	up to +85 °C
PROTECTION DEGREE	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	-	COND. AND TRUNK Ø 5÷35 mm	COND. AND TRUNK Ø 5÷35 mm	COND. AND TRUNK Ø 5÷35 mm	COND. AND TRUNK Ø 5÷35 mm	COND. AND TRUNK Ø 5÷35 mm	COND. AND TRUNK Ø 5÷35 mm
EXTRACTABLE	YES	YES	YES	YES	YES	YES	YES
MOULDED-CASE							
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 dissipative 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 (*)

	Cold water	Hot water	Sulphuric acid 40%	Hydrochloric acid 35%	Acetic acid 10%	Benzole	Gasoline	Acetone	Ethyl alcohol	Ammonia liquid	Dichloromethane	Diesel oil- naphta	Mineral oils and grases	Food oils and grases	Perchloroethylene	Trichloroethylene	Ethylether	Ozone	Toluene	Methanol	Spirits	Milk	Fruit juices	Fluoride hydrocarbons	Lye-washes	Cleansings	Water solution
IP 65 Fly and Europa Series wall-mounting consumer units	■	■	▲	▲	■	●	■	●	▲	■	●	■	■	■	●	●	●	■	●	▲	■	■	■	●	■	■	■

■ 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

IP 65 Marostica Series switchboards for industrial application with blank front

CODE	13 200	13 204	13 205	13 206	13 208
NUMBER OF MODULES	4	12	12	12	18
DIMENSIONS (mm)	136x540x110	275x370x140	275x455x140	275x570x140	380x570x140
COLOUR	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey
WITH TRANSPARENT DOOR	YES	YES	YES	YES	YES
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
SHOCK RESISTANCE	20 Joule (IK 10)	20 Joule (IK 10)	20 Joule (IK 10)	20 Joule (IK 10)	20 Joule (IK 10)
INSTALLATION TEMPERATURE	-25 °C ÷ +60 °C	-25 °C ÷ +60 °C	-25 °C ÷ +60 °C	-25 °C ÷ +60 °C	-25 °C ÷ +60 °C
RESISTANCE TO HEAT	up to +125 °C	up to +125 °C	up to +125 °C	up to +125 °C	up to +125 °C
PROTECTION DEGREE	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 Ø 5÷35 mm	COND. AND TRUNK Ø 5÷35 mm	COND. AND TRUNK Ø 5÷35 mm	COND. AND TRUNK Ø 5÷35 mm

(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.

IP 65 Europa Series switchboard for industrial applications

CODE	12 764-12 784	12 768-12 788	12 772-12 792	12 774-12 794	12 776-12 796	12 778-12 798
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
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
SHOCK 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)
INSTALLATION TEMPERATURE	-25 °C ÷ +60 °C	-25 °C ÷ +60 °C	-25 °C ÷ +60 °C	-25 °C ÷ +60 °C	-25 °C ÷ +60 °C	-25 °C ÷ +60 °C
PROTECTION DEGREE	IP 65	IP 65	IP 65	IP 65	IP 65	IP 65
MAX DISSIPATION POWER ⁽¹⁾	10 W	19 W	25 W	40 W	61 W	75 W
FLANGE FOR DIRECT BRANCH	-	COND. AND TRUNK Ø 5÷35 mm	COND. AND TRUNK Ø 5÷35 mm	COND. AND TRUNK Ø 5÷35 mm	COND. AND TRUNK Ø 5÷35 mm	COND. AND TRUNK Ø 5÷35 mm
FIT FOR INSTALLING MCBs	-	-	-	YES	YES	YES
MOUNTING KIT	-	-	-	-	-	-
FIT FOR INSTALLING BASE PLATE	YES	YES	YES	YES	YES	YES
FIT FOR INSTALLING FIXED COUNTER-DOOR	-	-	-	YES	YES	YES

(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

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	Gasoline	Acetone	Ethyl alcohol	Ammonia liquid	Dichloromethane	Diesel oil- naphta	Mineral oils and grases	Food oils and grases	Perchloroethylene	Trichloroethylene	Ethylether	Ozone	Toluene	Methanol	Spirits	Milk	Fruit juices	Fluoride 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 junction boxes in polycarbonate	■	▲	■	▲	■	●	■	●	■	●	●	▲	■	■	●	●	●	■	●	●	■	■	■	●	▲	▲	■
Wiring accessories boxes	■	■	▲	▲	■	●	●	●	■	■	●	▲	▲	■	●	●	●	■	●	■	■	■	■	●	■	■	■

■ resistant ▲ partially resistant ● not resistant

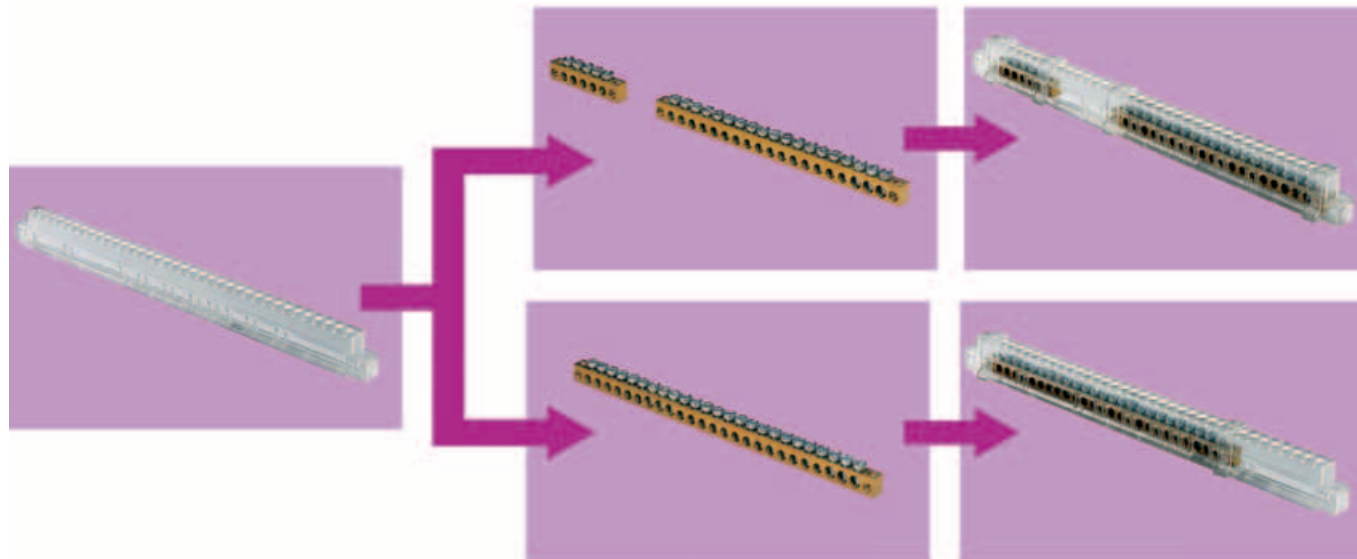
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Further technical information and applications

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 container 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 flush and wall-mounting consumer units

IP 40 Europa Series wall-mounting consumer units

For consumer units Number of modules	Terminal holder Code	Terminal bars Code 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	12 541	12 531x1
	12 541	12 531x2
	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 modules x 3 rows)	12 541	12 532x1
	12 541	12 532x2
	12 541	12 533x1
	12 541	12 534x1
	12 541	12 535x1
	12 542	12 531x1
18	12 542	12 531x2
	12 542	12 531x1 with 12 532x1
	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

For consumer units Number of modules	Terminal holder Code	Terminal bars Code 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	12 541	12 531x1
	12 541	12 531x2
	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 modules x 3 rows)	12 541	12 532x1
	12 541	12 532x2
	12 541	12 533x1
	12 541	12 534x1
	12 541	12 535x1
	12 543	12 531x1
54	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
	12 543	12 535x1
	12 543	12 535x1

Further technical information and applications

Possible configurations of terminal holders – terminal bars for consumer units

IP 40 Europa Series wall-mounting consumer units

IP 65 Europa Series wall-mounting consumer units

IP 65 Fly Series wall-mounting consumer units

For consumer units Number of modules	Terminal holder Code	Terminal bars Code x q.ty
4	12 538	12 531x1
8	12 539	12 531x1
12	12 540	12 531x1
24	12 540	12 531x2
36	12 540	12 531x1 with 12 532x1
(12 mod. x 3 rows)	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
18	12 543	12 531x1 with 12 534x1
	12 543	12 531x1 with 12 535x1
36	12 543	12 532x1
(18 mod.x 2 rows)	12 543	12 532x2
	12 543	12 532x1 with 12 533x1
	12 543	12 532x1 with 12 534x1
54	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

Europa Series consumer units for industrial applications

For boxes dimensions	Terminal holder Code	Terminal bars Code x q.ty
140x220x140	12 538	12 531x1
205x220x140	12 539	12 531x1
	12 540	12 531x1
	12 540	12 531x2
275x220x140	12 540	12 531x1 with 12 532x1
275x370x140	12 540	12 532x1
275x570x140	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
	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

Possible configurations of terminal holders – terminal bars for consumer units

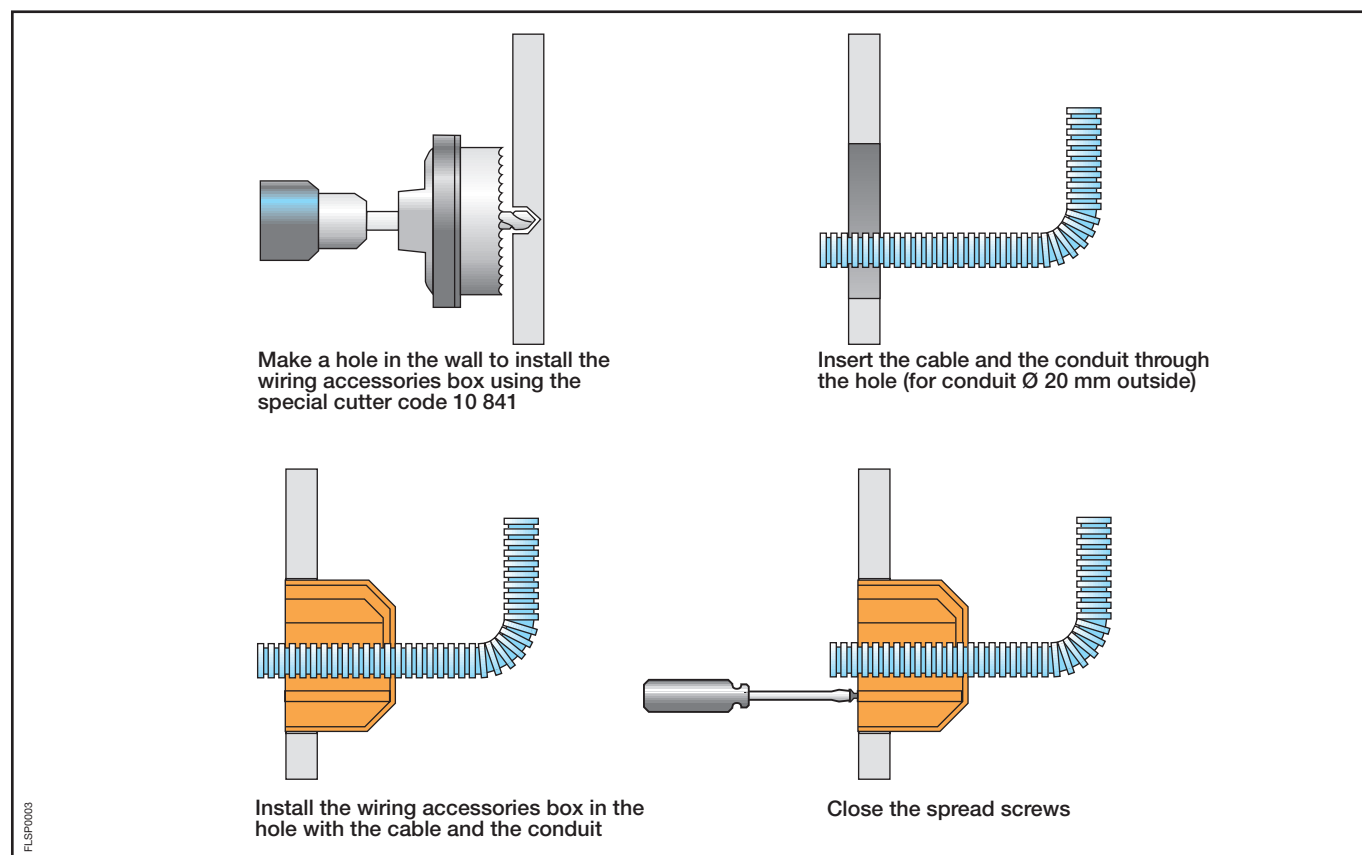
IP65 junction boxes in polycarbonate

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

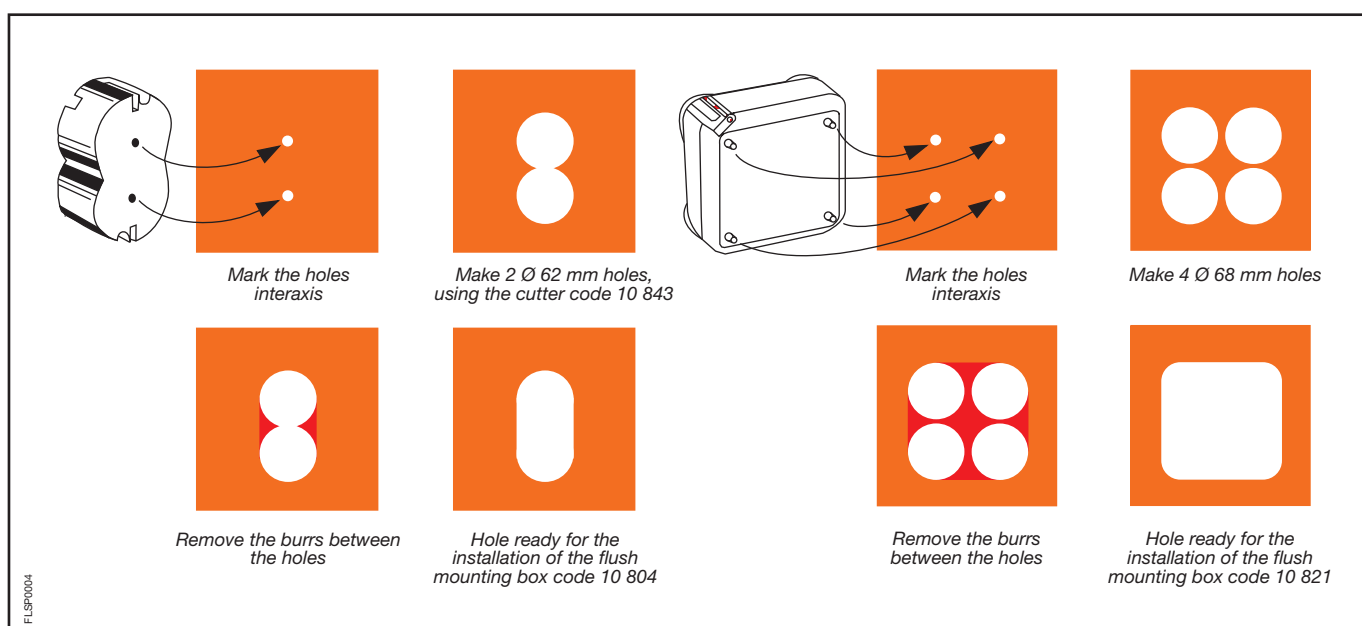
Further technical information and applications

Enclosures and boxes for light prefabrication

To install the wiring accessories boxes in light prefabricated walls, a wide range of special cutters is available; the mounting sequence is indicated as follows.



The same cutters can be used to install wiring accessories modular boxes and boxes for operating consumer units, as shown in the following pictures.



Further technical information and applications

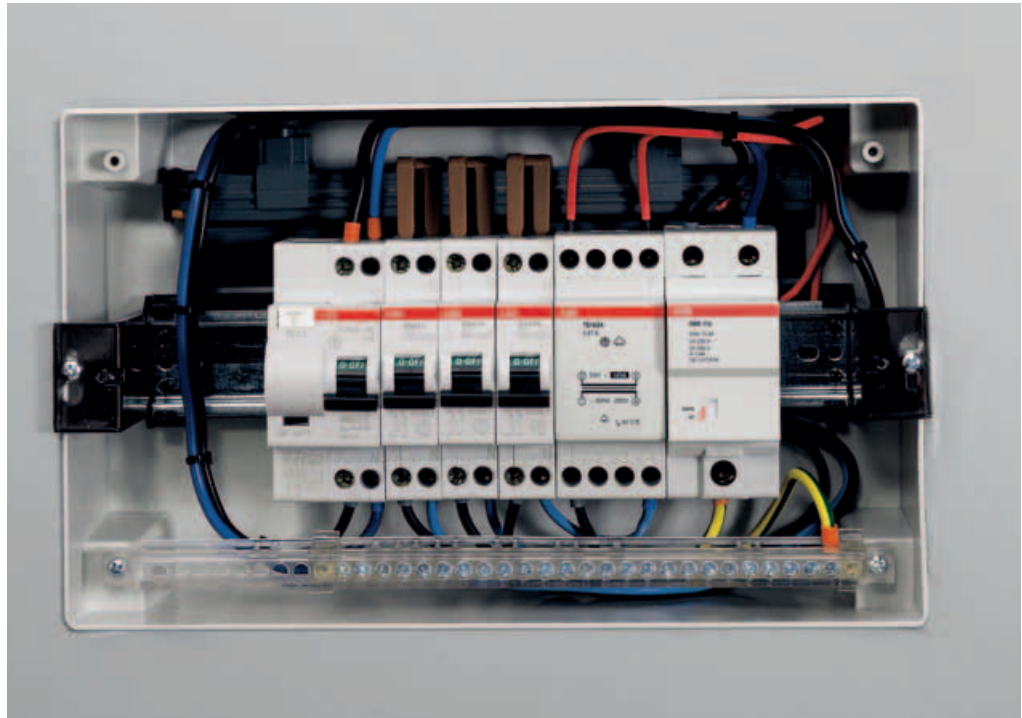
Mounting examples and functional details

Flush-mounting Unibox, Europa and Estetica Series

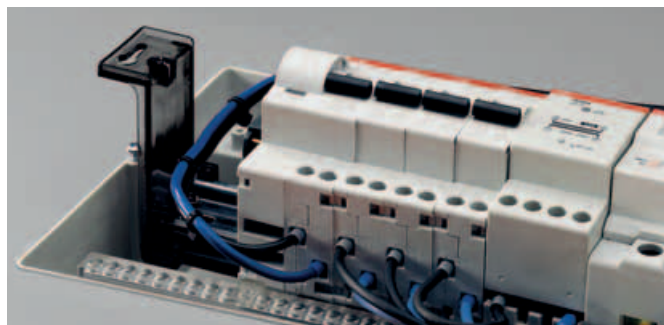


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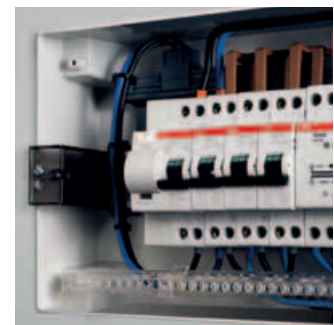
▲ By combining the copper terminal bars to the corresponding plastic terminal holders, according to the configuration, the consumer unit terminal can be fitted with Neutral (N) or Earth (E).



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



▲ 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.

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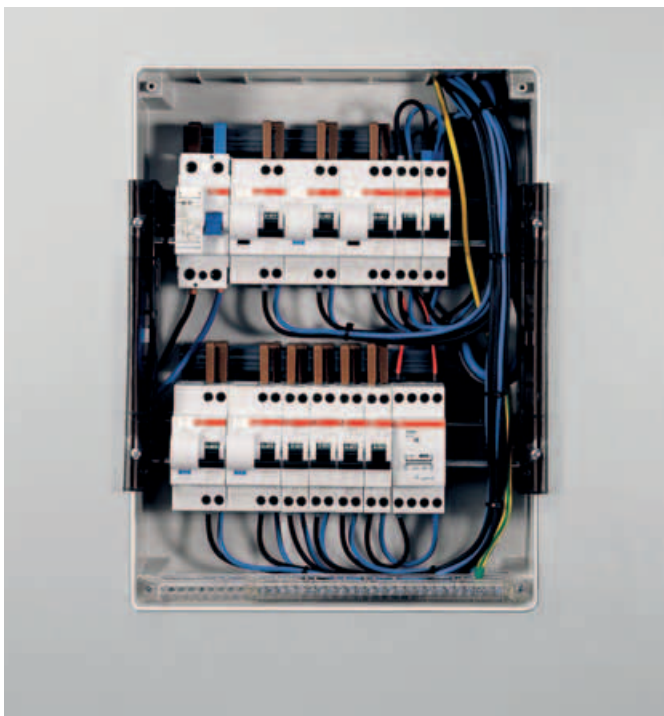
Further technical information and applications

Mounting examples and functional details

Flush-mounting Europa Series



▲ The extractable DIN rail frame makes bench cabling easy.



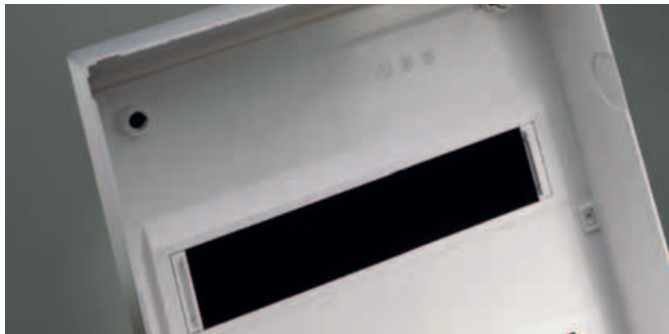
▲ The two housings on the sides of the front ensure that the door is completely reversible and therefore it can be mounted on the right or on the left according to specific requirements.

◀ The roomy interiors make cabling easy and simple.

Further technical information and applications

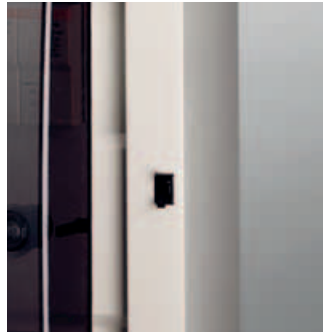
Mounting examples and functional details

Wall-mounting 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.

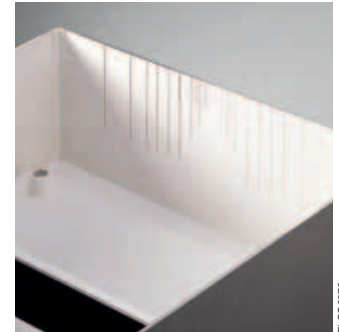
The cover is fitted using rapid pitch ▶ screws in insulating thermo-plastic that can be lead-sealed if necessary.



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



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



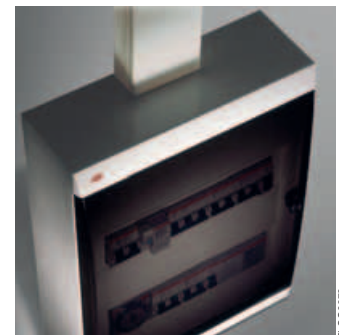
▲ The knockouts in the cover give maximum flexibility in trunking branch connections.



▲ 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 possible to make branch connections with conduits with a maximum diameter of 40 mm.



Further technical information and applications

Mounting examples and functional details

Wall-mounting Unibox Series



FLC09819



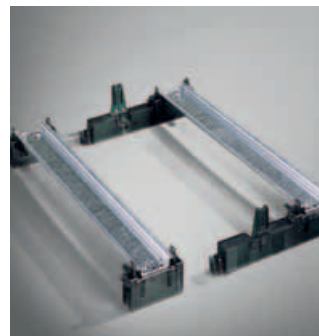
FLC09839

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



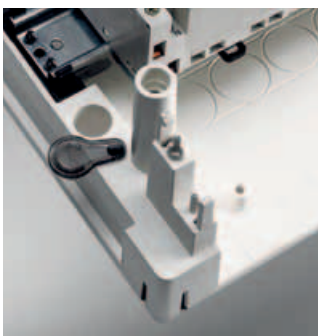
FLC09872

▲ A characteristic of consumer units in the UNIBOX Series is the frame, which can be kept in an angled position thanks to practical wires, making it easier to work on the connection cables.



FLC09873

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



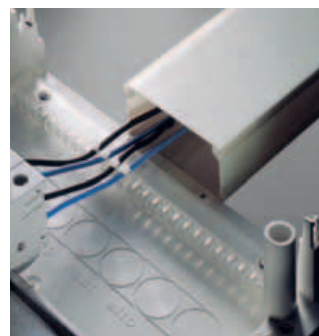
FLC09837

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



FLC09875

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



FLC09880

▲ 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



1SLC001088F0001

▲ 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 protection degree is guaranteed, also making it impossible to lose the seal itself.

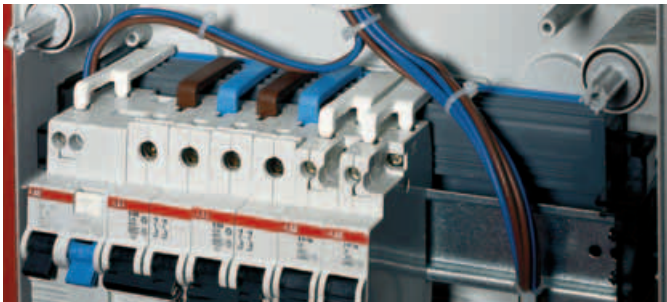


FLC09824

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

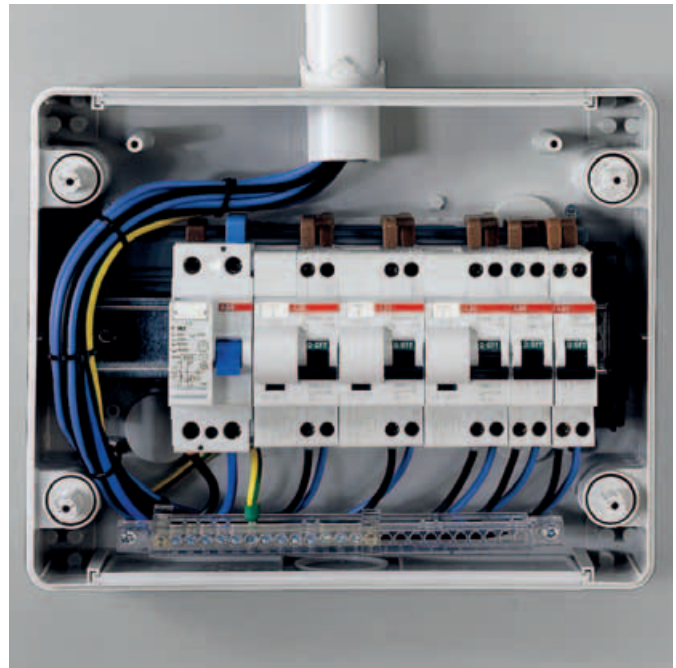


1SLC001069F0001



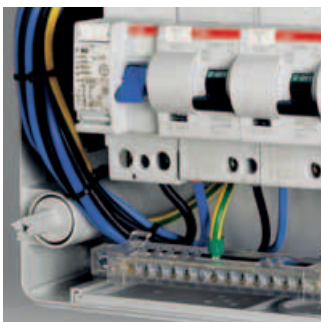
FLC09821

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



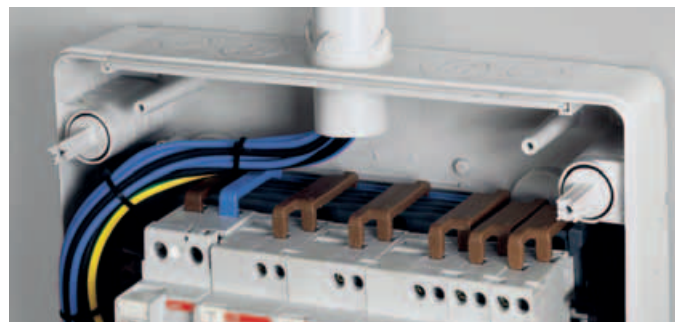
1SLC001070F0001

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).



1SLC001071F0001

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.

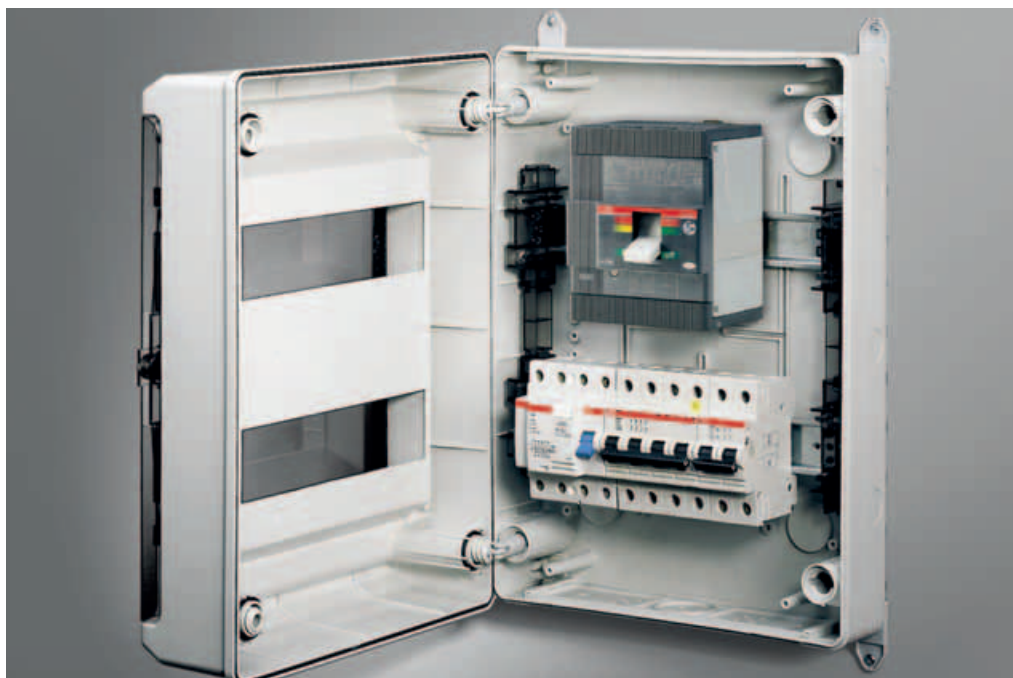


1SLC001072F0001

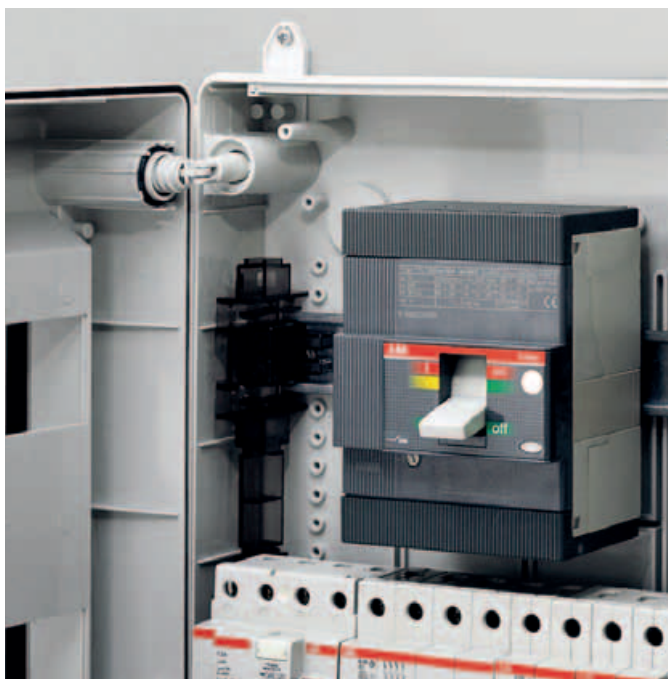
Further technical information and applications

Mounting examples and functional details

IP 65 Fly and Europa Series



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



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



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



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

◀ The snap-on, extractable DIN rail frame simplifies and speeds up bench cabling operations.

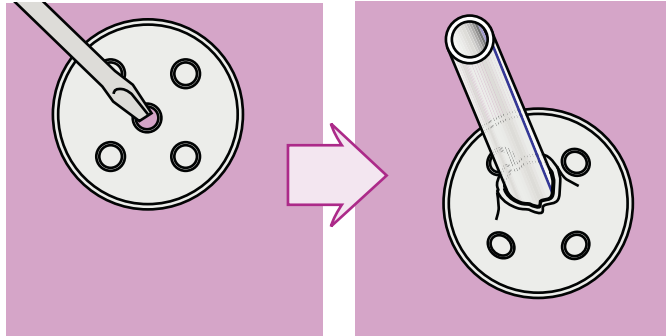
Further technical information and applications

Branch connections using the bi-material flange

DIRECT APPLICATION WITH CONDUIT OR CABLE

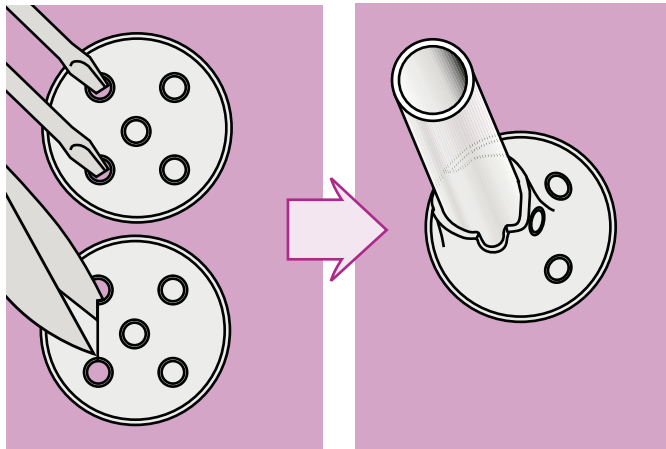
from 5 to 16 mm

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



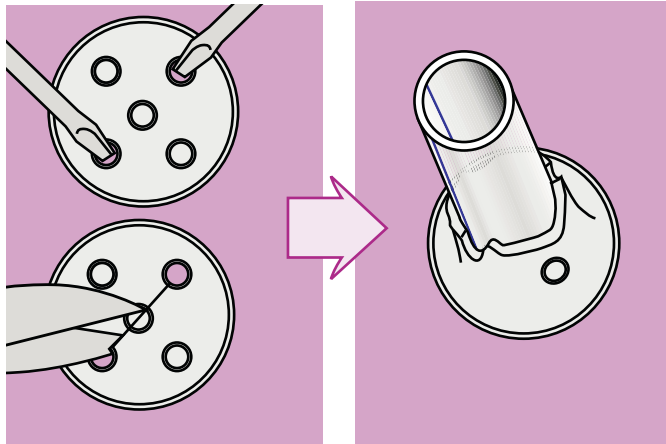
from 17 to 20 mm

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



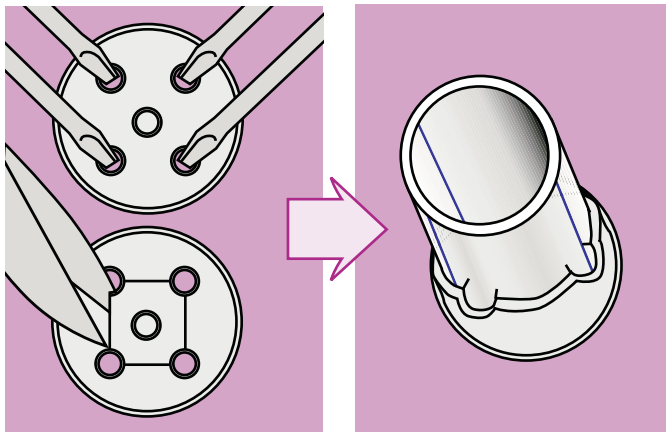
from 21 to 24 mm

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

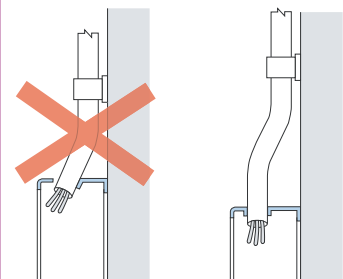


from 25 to 35 mm

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



How to insert cables and conduits.



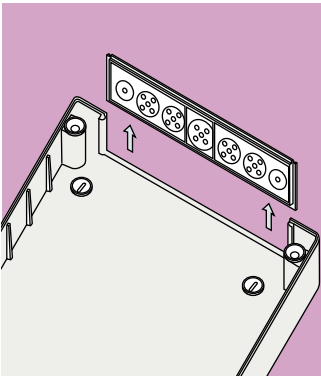
Further technical information and applications

Branch connections using the bi-material flange

APPLICATION WITH CONDUIT OR CABLE CLAMPS

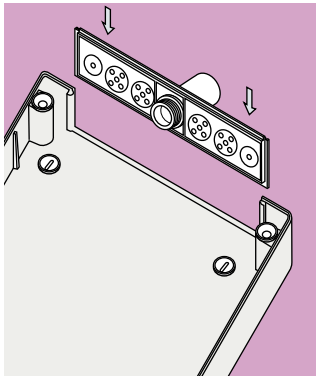
1

Possible extraction of the flange



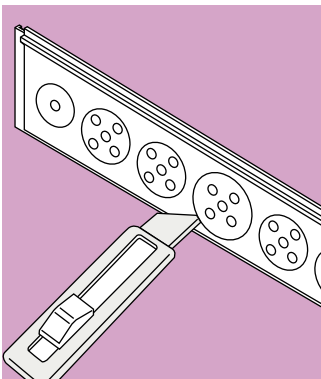
4

Inserting the flange into the base of the enclosure



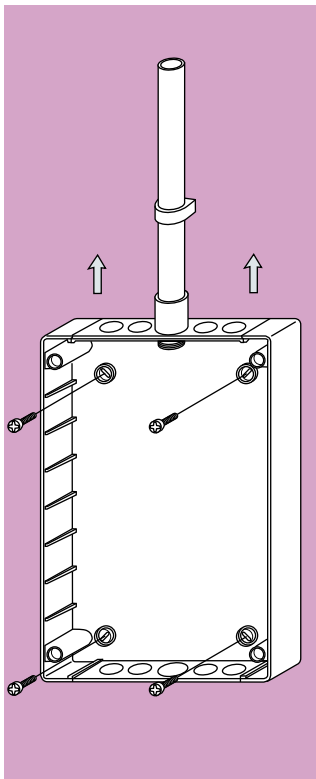
2

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



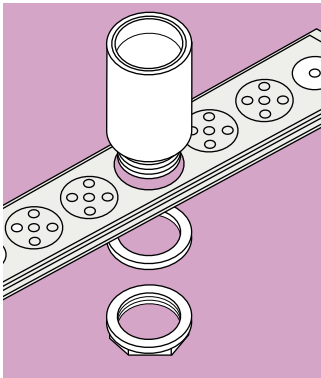
5

Fixing the base of the enclosure to the wall



3

Branch connection using the conduit/cable clamp box connector



9

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

Inlets for flange [mm]	Cable-gland [mm]	Conduit clamp - box connector [mm]
Ø 23.5	00 934 – 00 944 PG 16 (Ø 13/16)	00 431 Ø 20
Ø 30	00 935 – 00 945 PG 21 (Ø 17/29)	00 432 Ø 25
Ø 37.5	00 936 – 00 946 PG 29 (Ø 21/26)	00 433 Ø 32



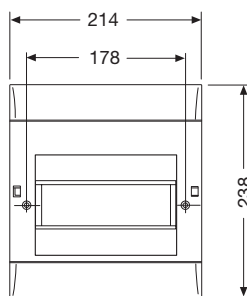
Index

IP 40 Unibox Series flush-mounting consumer units	10/2
IP 40 Estetica Series flush-mounting consumer units.....	10/4
IP 40 Europa Series flush-mounting consumer units	10/6
IP 40 Unibox Series wall-mounting consumer units	10/8
IP 40 Europa Series wall-mounting consumer units	10/10
IP 40 Europa Polycarbonate Series wall-mounting consumer units	10/12
IP 40 wall-mounting covers.....	10/14
IP 55 Europa Series wall-mounting consumer units	10/16
IP 65 Fly Series wall-mounting consumer units	10/18
IP 65 Europa Series wall-mounting consumer units	10/20
IP 40 panel fronts	10/22
IP 55 panel fronts	10/23
Livorno Series flush and wall-mounting emergency consumer units.....	10/24
Europa Series switchboards for industrial applications	10/26
Switchboards for industrial applications with blank front	10/28
IP 44 and IP 55 junction boxes in thermoplastic material.....	10/30
IP 65 junction boxes in polycarbonate	10/33
IP 40 equipment and empty enclosures.....	10/35
IP 55 equipment and empty enclosures.....	10/36
Various components.....	10/37
Enclosures and boxes for light prefabrication.....	10/38
Wiring accessories and junction boxes in thermoplastic material	10/40
Installation material	10/42
Accessories	10/46

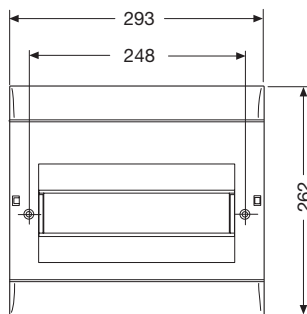
Overall dimensions

IP 40 Unibox Series flush-mounting consumer units

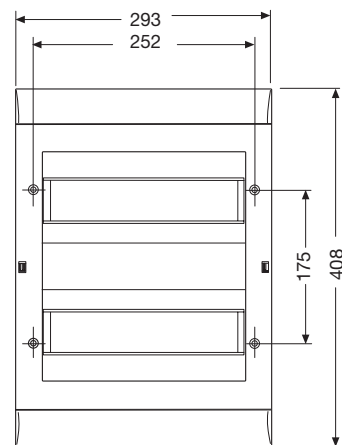
Front view



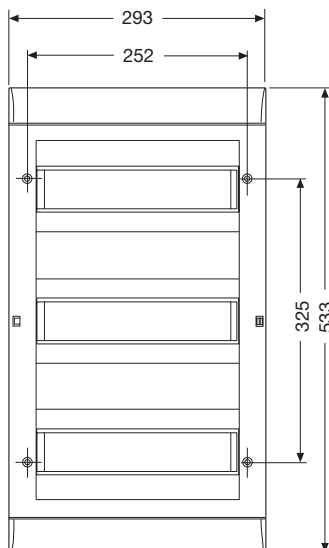
8 modules



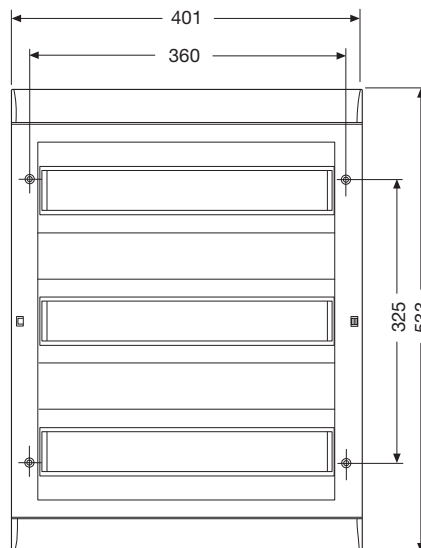
12 modules



24 modules

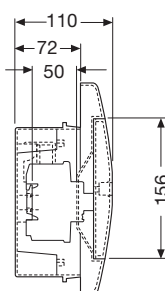


36 modules

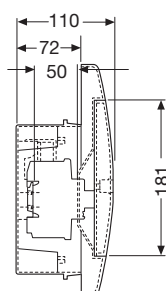


54 modules

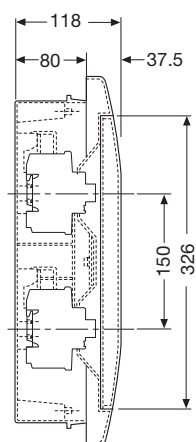
Side view



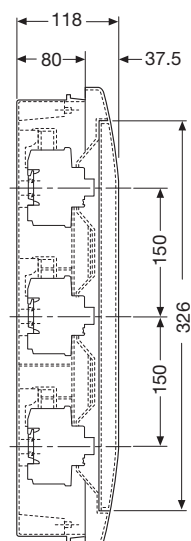
8 modules



12 modules



24 modules

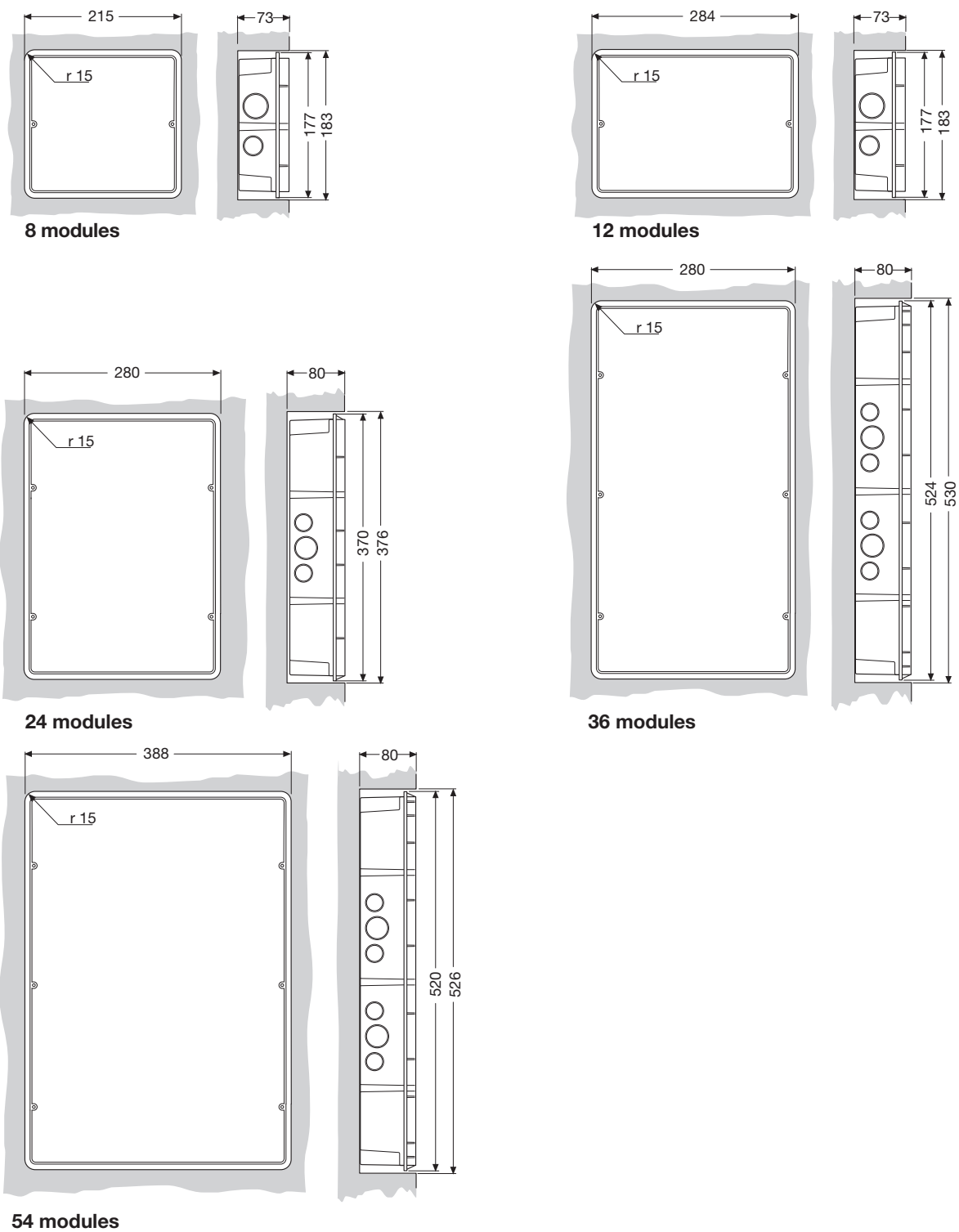


36/54 modules

Overall dimensions

IP 40 Unibox Series flush-mounting consumer units

Drilling sheets

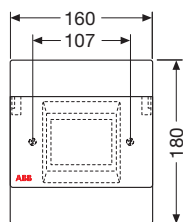


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12 modules	1SL0511A00 - 1SL0522A00 - 1SL0536A00 - 1SL0501A00 - 1SL0522A00 - 1SL0537A00 - 1SL0511A06 - 1SL0501A06
24 modules	1SL0512A00 - 1SL0502A00 - 1SL0512A06 - 1SL0502A06
36 modules	1SL0513A00 - 1SL0503A00 - 1SL0513A06 - 1SL0503A06
54 modules	1SL0514A00 - 1SL0504A00 - 1SL0514A06 - 1SL0504A06

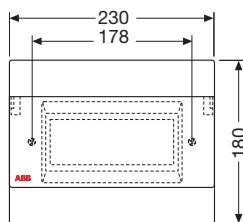
Overall dimensions

IP 40 Estetica Series flush-mounting consumer units

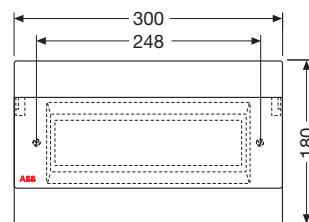
Front view



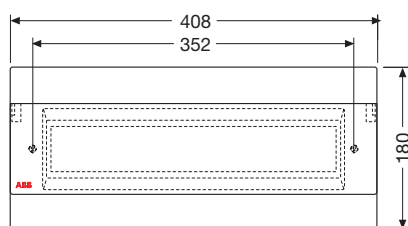
4 modules



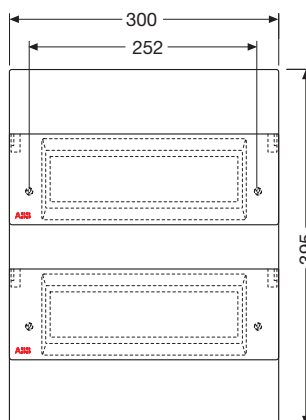
8 modules



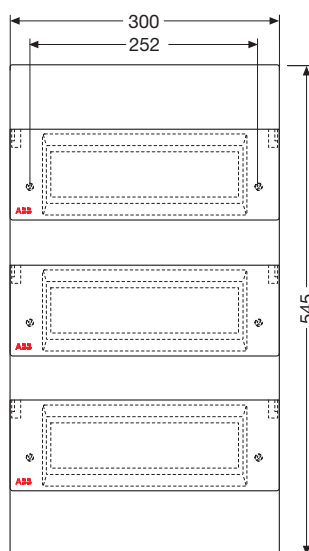
12 modules



18 modules

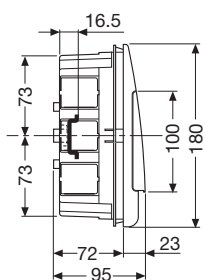


24 modules

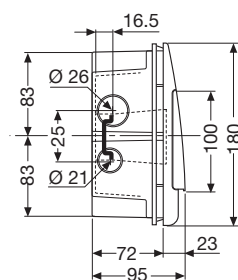


36 modules

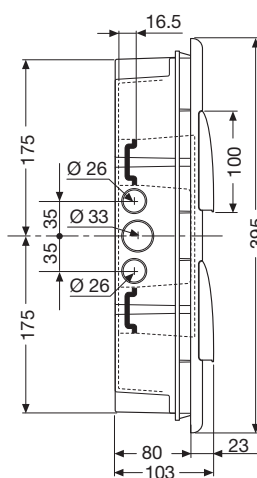
Side view



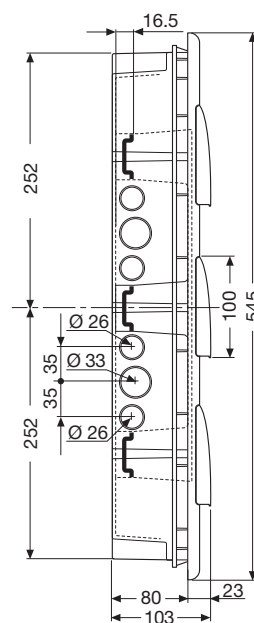
4 modules



8/12/18 modules



24 modules

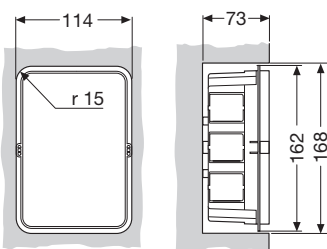


36 modules

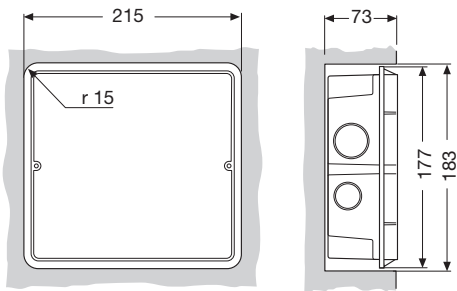
Overall dimensions

IP 40 Estetica Series flush-mounting consumer units

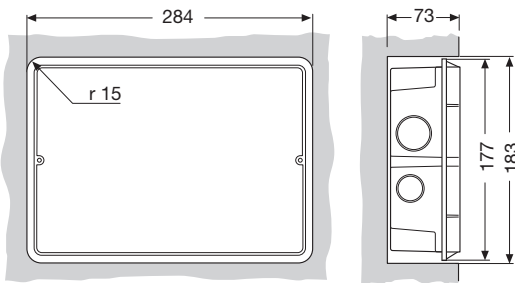
Drilling sheet



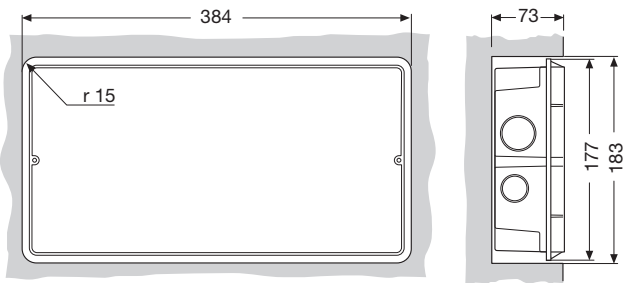
4 modules



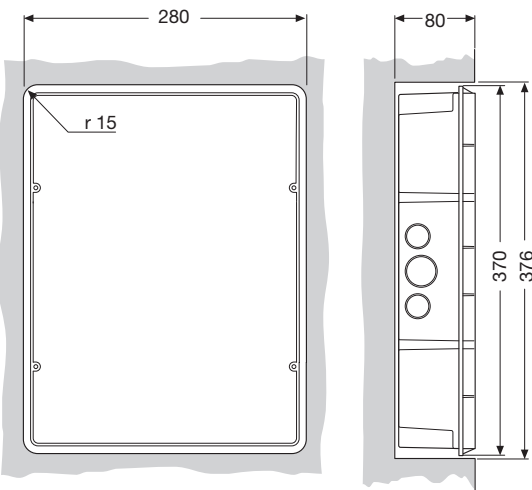
8 modules



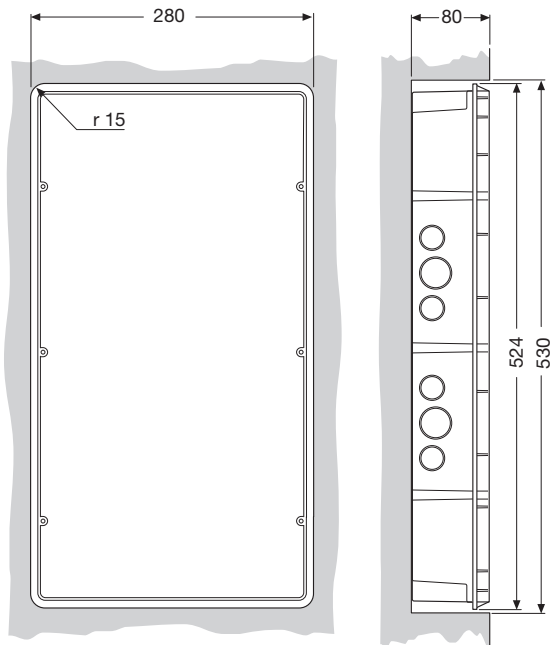
12 modules



18 modules



24 modules



36 modules

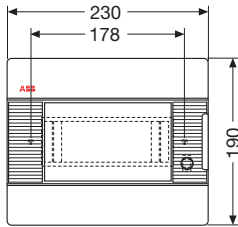
modules	code
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8 modules	1SL2028A00 - 12 038 - 1SL0535A00 - 1SL0554A00
12 modules	1SL2032A00 - 12 042 - 1SL0539A00 - 1SL0555A00
18 modules	1SL2033A00 - 12 043 - 1SL0541A00 - 1SL0556A00
24 modules	1SL2034A00 - 12 044
36 modules	1SL2036A00 - 12 046

VLC00002

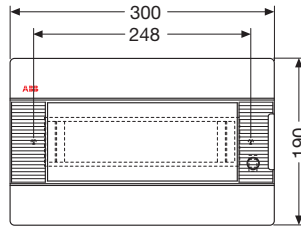
Overall dimensions

IP 40 Europa Series flush-mounting consumer units

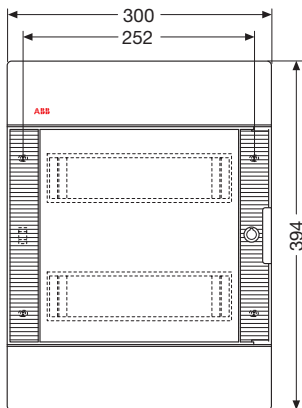
Front view



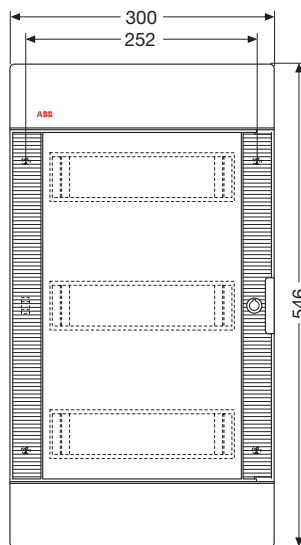
8 modules



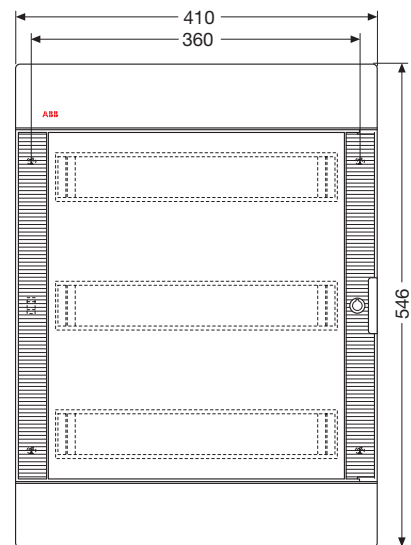
12 modules



24 modules

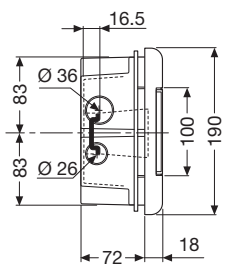


36 modules

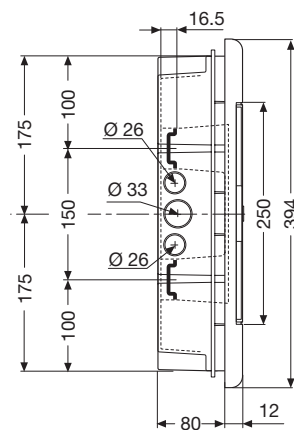


54 modules

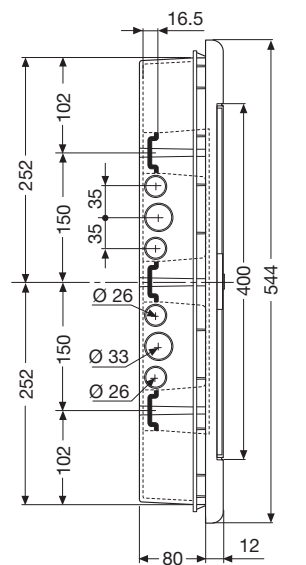
Side view



8/12 modules



24 modules



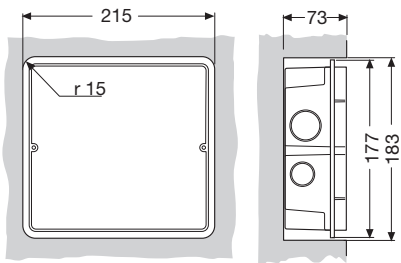
36/54 modules

VLO00003

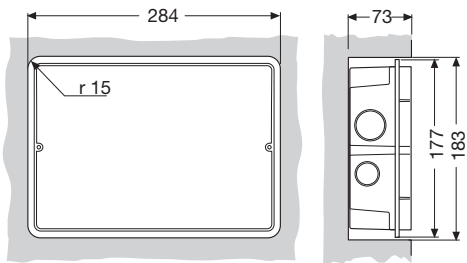
Overall dimensions

IP 40 Europa Series flush-mounting consumer units

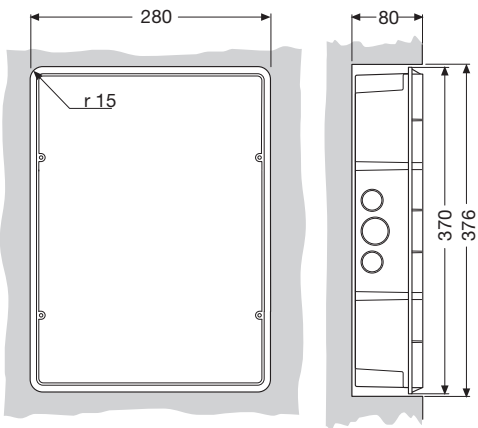
Drilling sheets



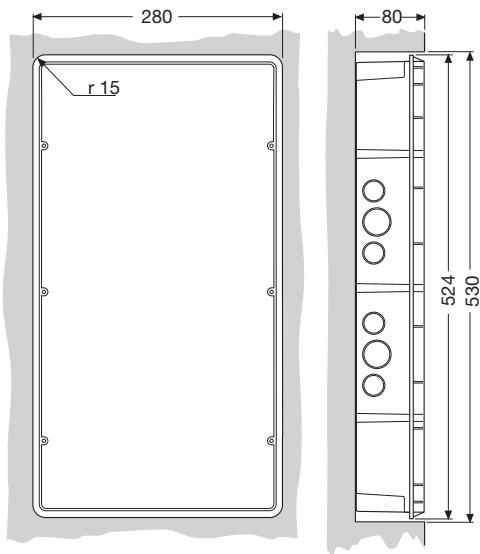
8 modules



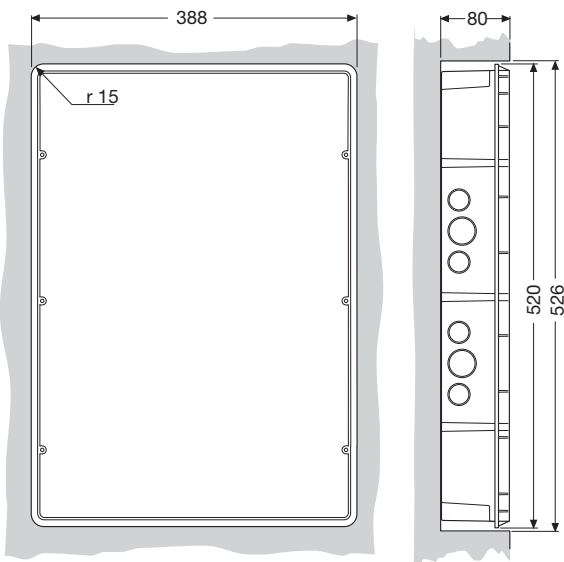
12 modules



24 modules



36 modules



54 modules

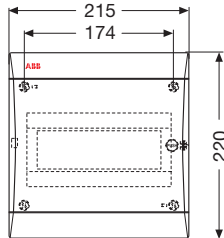
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24 modules	1SL2045A00 - 12 030 - 1SL2063A00 - 12 064 - 1SL2045A13 - 1SL2063A13
36 modules	1SL2048A00 - 12 031 - 1SL2065A00 - 12 066 - 1SL2048A14 - 1SL2065A14
54 modules	1SL2052A00 - 12 035 - 1SL2067A00 - 12 068 - 1SL2052A06 - 1SL2067A06

VLCO0004

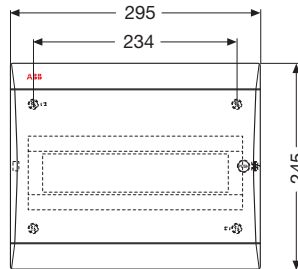
Overall dimensions

IP 40 Unibox Series wall-mounting consumer units

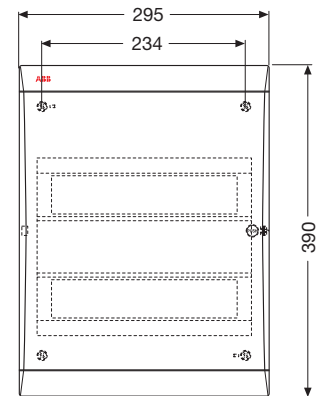
Front view



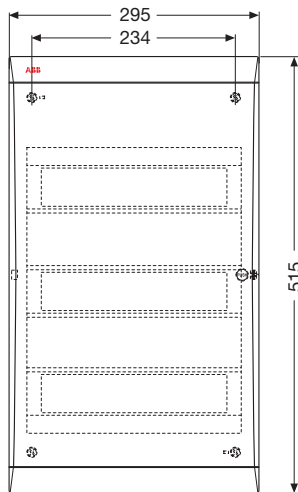
8 modules



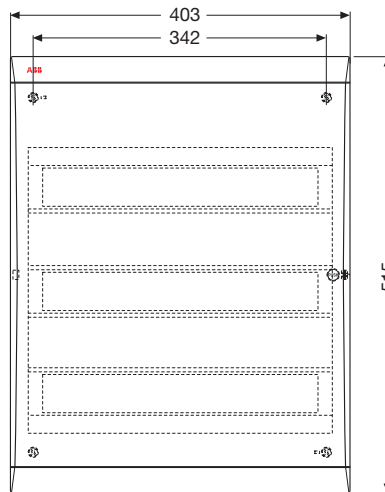
12 modules



24 modules

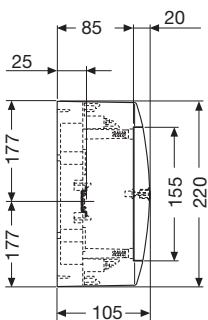


36 modules

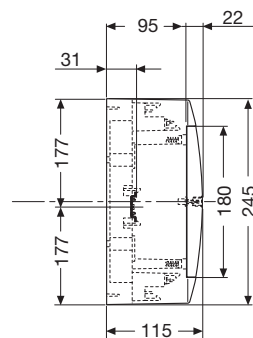


54 modules

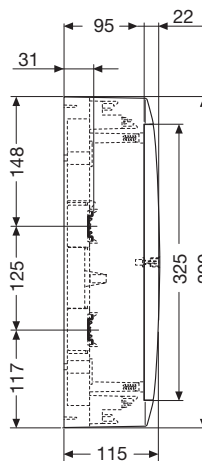
Side view



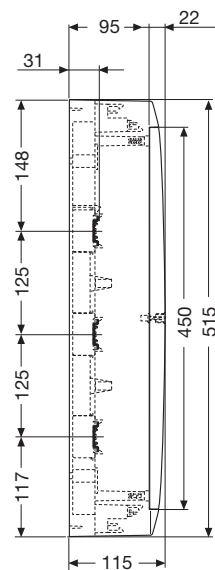
8 modules



12 modules



24 modules

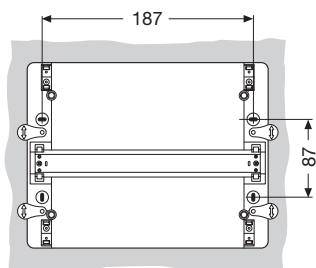


36-54 modules

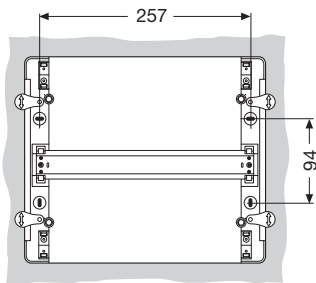
Overall dimensions

IP 40 Unibox Series wall-mounting consumer units

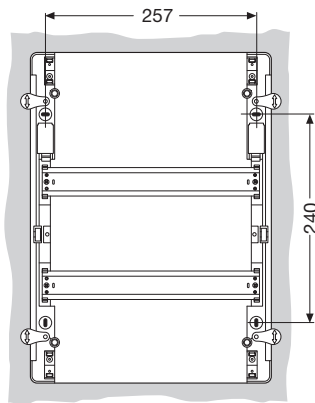
Drilling sheets



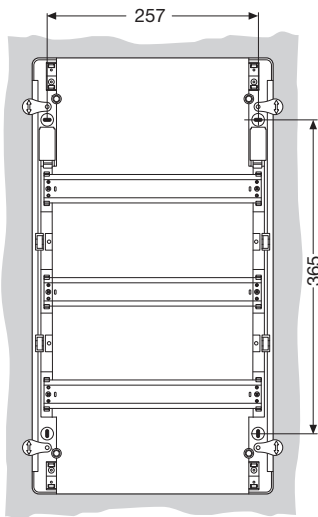
8 modules



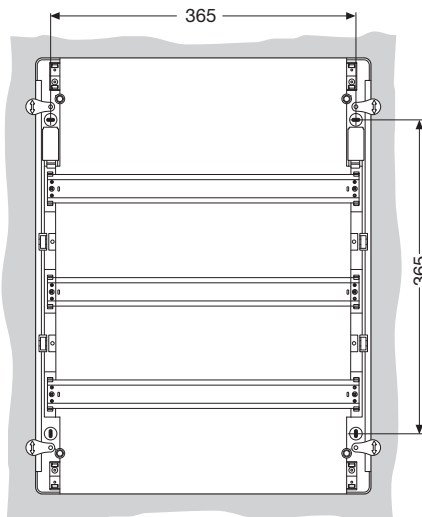
12 modules



24 modules



36 modules



54 modules

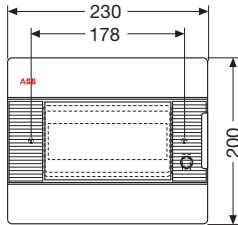
modules	code
8 modules	12 208 - 12 238 - 12 258 - M12238000U - M12258000U
12 modules	12 212 - 12 242 - 12 262 - M12242000A - M12262000A
24 modules	12 214 - 12 244 - 12 264 - M12244000U - M12264000U
36 modules	12 216 - 12 246 - 12 266 - M12246000U - M12266000U
54 modules	12 217 - 12 247 - 12 267 - M12247000U - M12267000U

VLCO0006

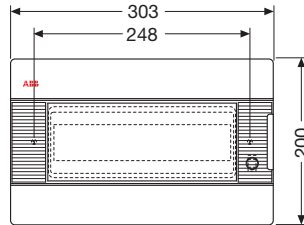
Overall dimensions

IP 40 Europa Series wall-mounting consumer units

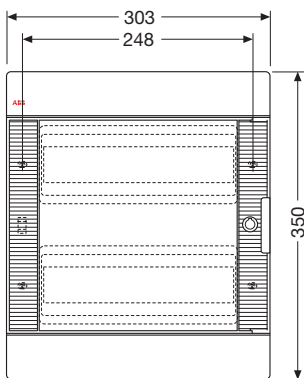
Front view



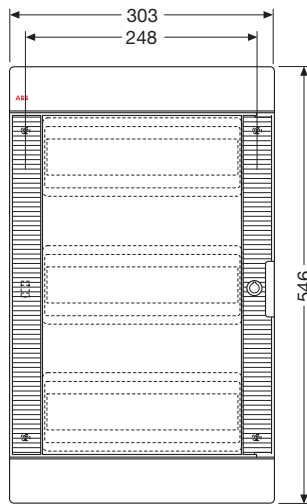
8 modules



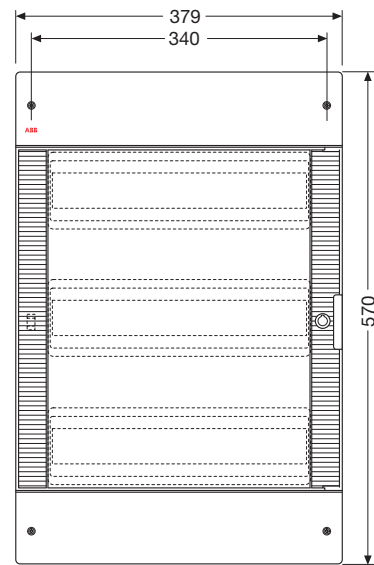
12 modules



24 modules

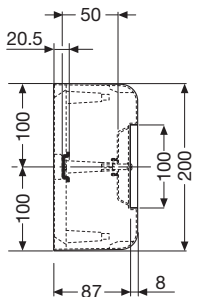


36 modules

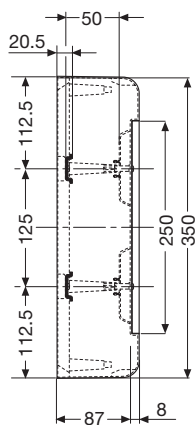


54 modules

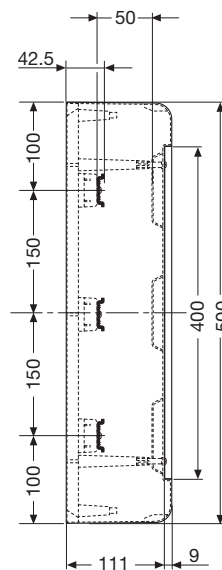
Side view



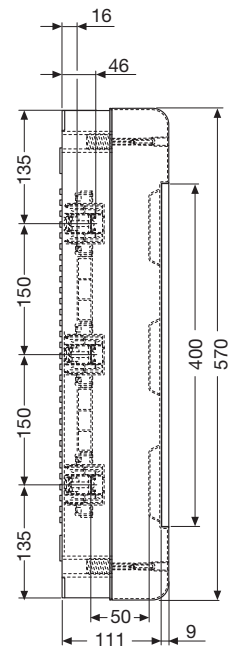
8/12 modules



24 modules



36 modules



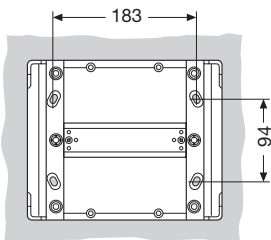
54 modules

VLC00007

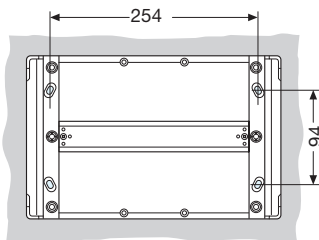
Overall dimensions

IP 40 Europa Series wall-mounting consumer units

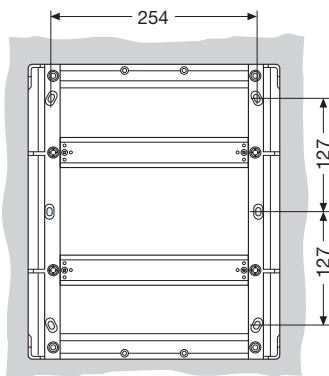
Drilling sheets



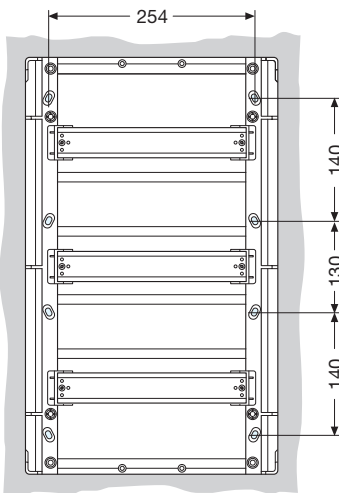
8 modules



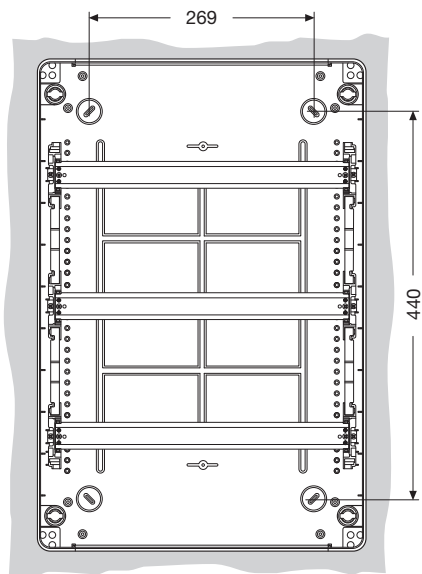
12 modules



24 modules



36 modules



54 modules

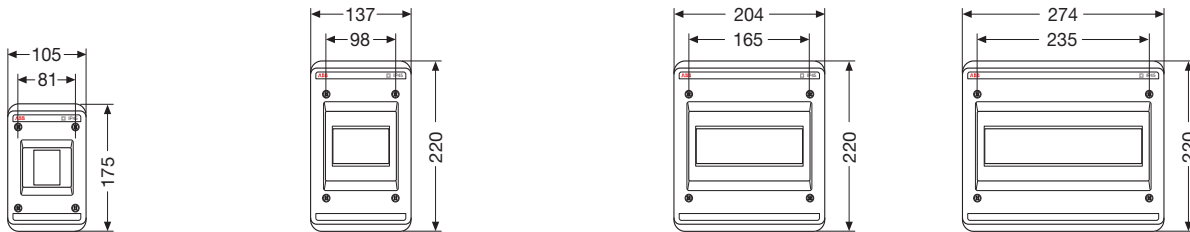
VL000008

modules	code
8 modules	1SL2408A00 – 12 428 – 1SL2438A00 – 12 448 – 1SL2458A00 – 12 468 – 1SL2438A06 – 1SL2458A06
12 modules	1SL2412A00 – 12 432 – 1SL2442A00 – 12 452 – 1SL2462A00 – 12 472 – 1SL2442A06 – 1SL2462A06
24 modules	1SL2414A00 – 12 434 – 1SL2444A00 – 12 454 – 1SL2464A00 – 12 474 – 1SL2444A13 – 1SL2464A13
36 modules	1SL2416A00 – 12 436 – 1SL2446A00 – 12 456 – 1SL2466A00 – 12 476 – 1SL2446A14 – 1SL2466A14
54 modules	1SL2417A00 – 12 437 – 1SL2447A00 – 12 457 – 1SL2467A00 – 12 477 – 1SL2447A07 – 1SL2467A07

Overall dimensions

IP 40 Europa Polycarbonate Series wall-mounting consumer units

Front view

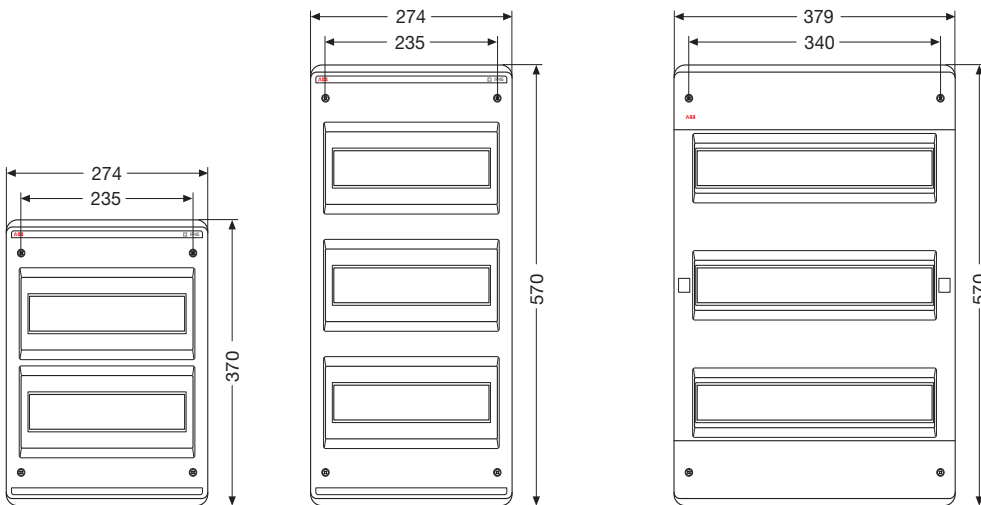


2-4 modules

4 modules

8 modules

12 modules

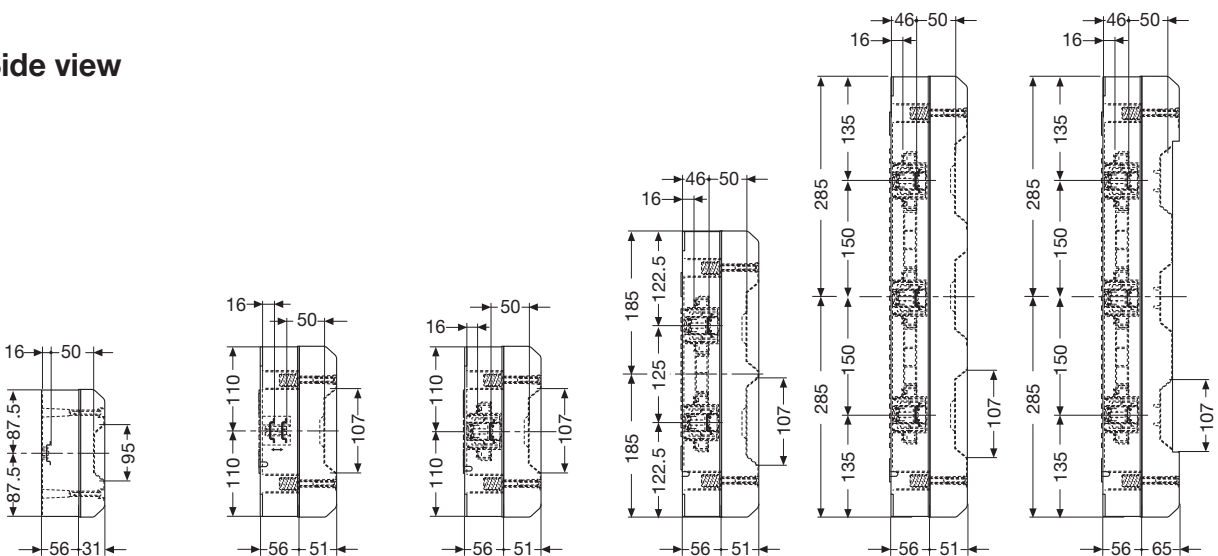


24 modules

36 modules

54 modules

Side view



2-4 modules

4 modules

8-12 modules

24 modules

36 modules

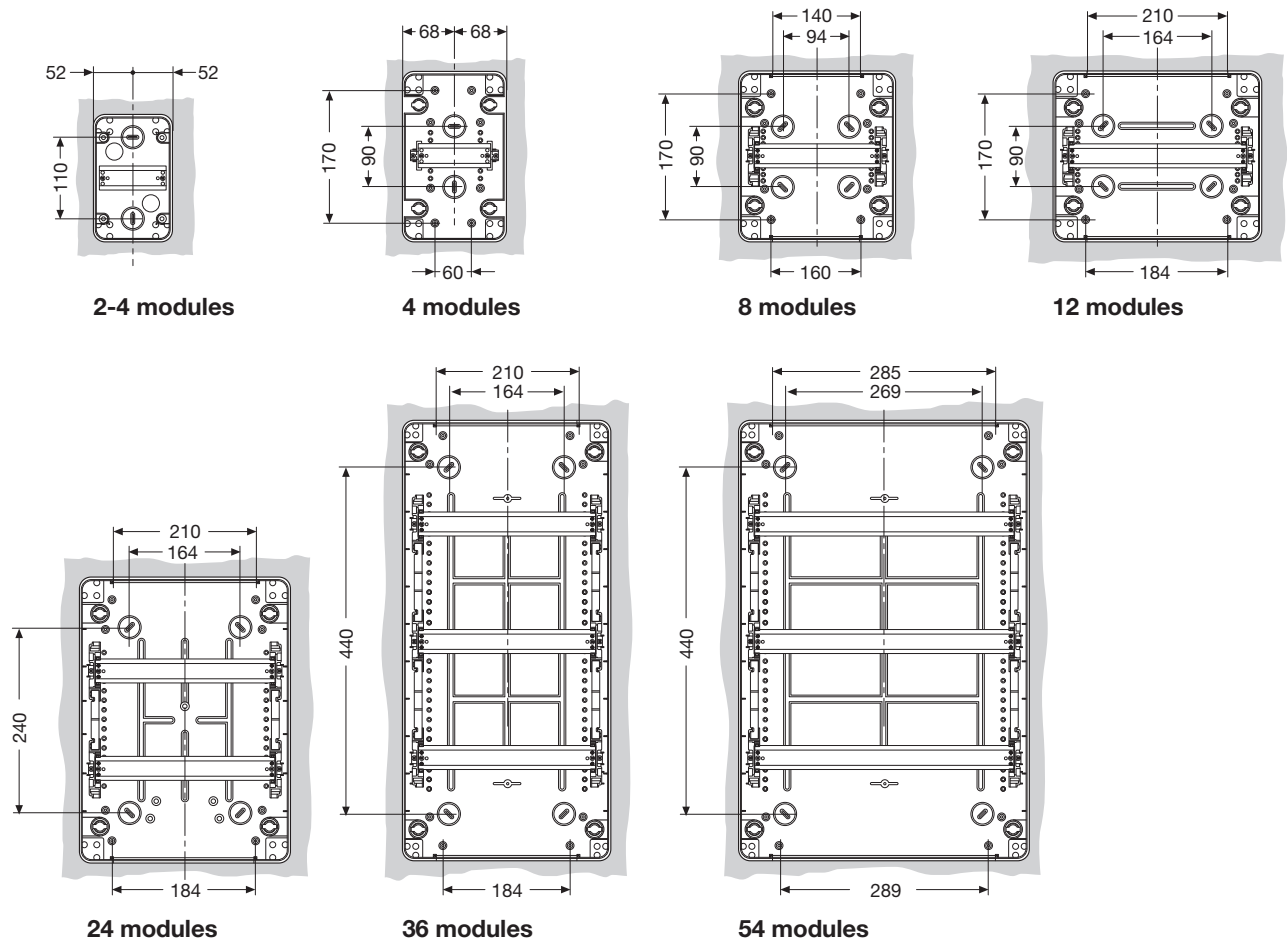
54 modules

VLC00009

Overall dimensions

IP 40 Europa Polycarbonate Series wall-mounting consumer units

Drilling sheets



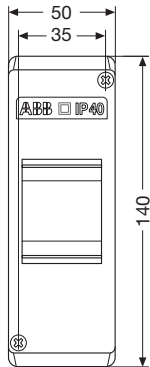
modules	code
2-4 modules	12 702
4 modules	12 704
8 modules	12 708
12 modules	12 712
24 modules	12 714
36 modules	12 716
54 modules	12 718

VL000010

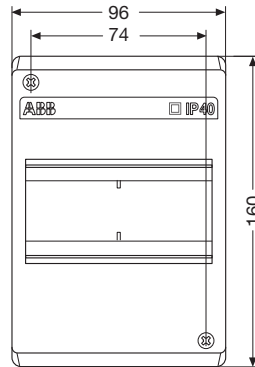
Overall dimensions

IP 40 wall-mounting covers

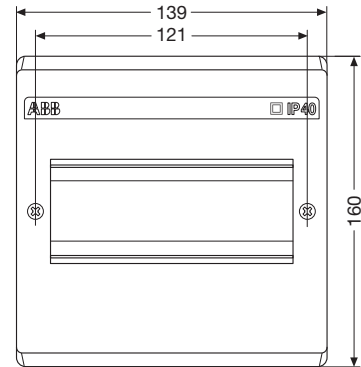
Front view



2 modules

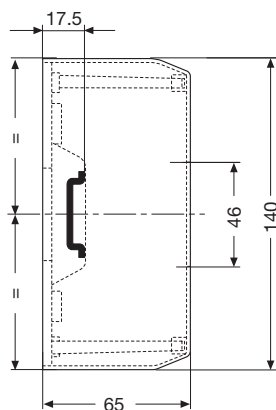


4 modules

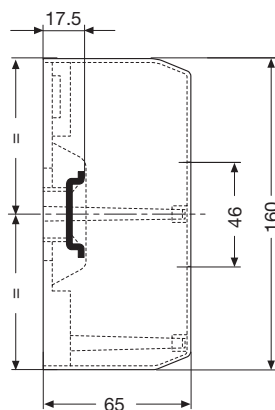


6 modules

Side view



2 modules

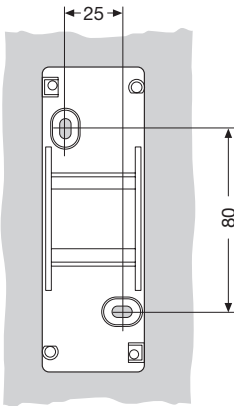


4-6 modules

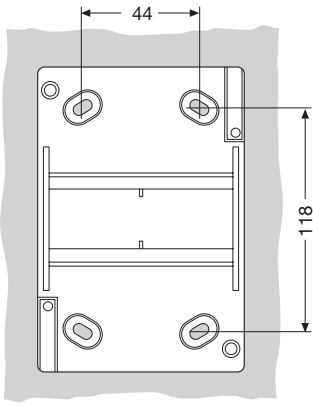
Overall dimensions

IP 40 wall-mounting covers

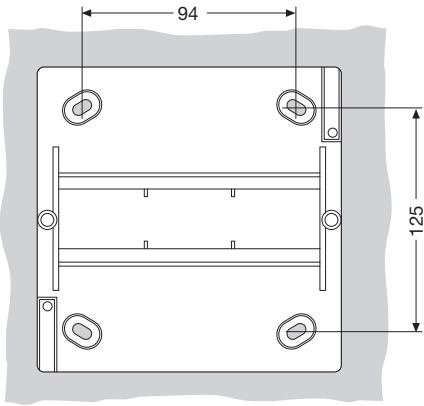
Drilling sheets



2 modules



4 modules



6 modules

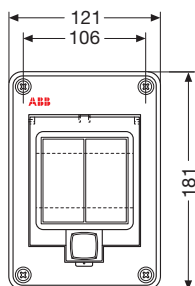
modules	code
2 modules	1SL2402A00 – 12 422
4 modules	1SL2404A00 – 12 424
6 modules	1SL2406A00 – 12 426

VLC00012

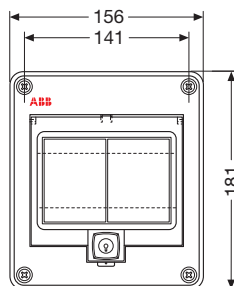
Overall dimensions

IP 55 Europa Series wall-mounting consumer units

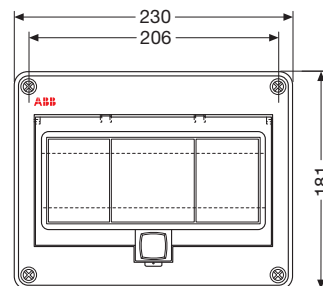
Front view



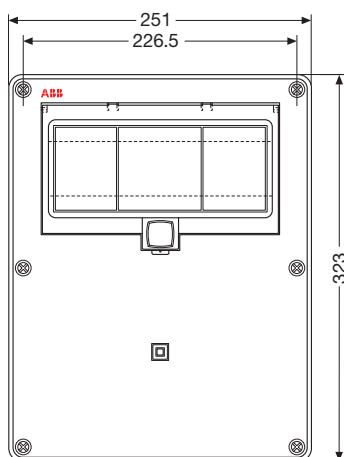
4 modules



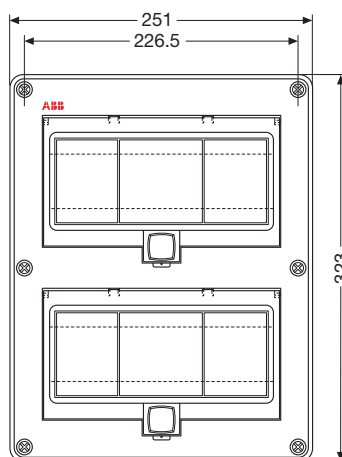
6 modules



10 modules

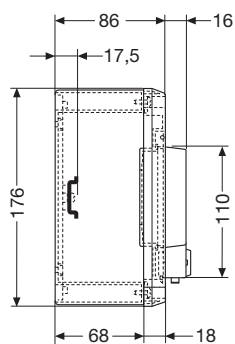


10 special modules

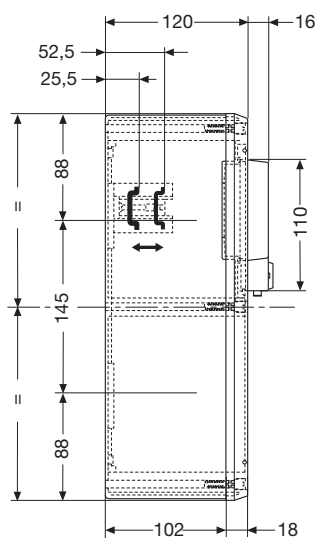


20 modules

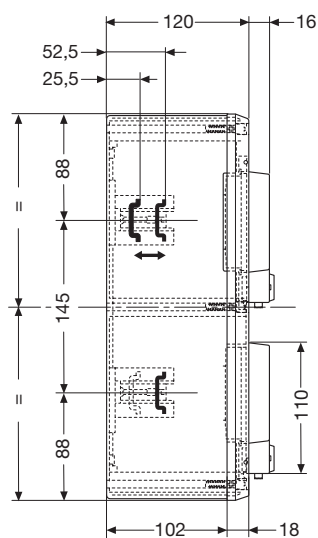
Side view



4-6-10 modules



10 modules



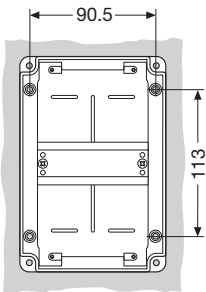
20 modules

VLC00013

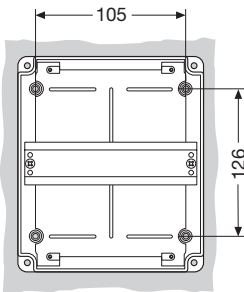
Overall dimensions

IP 55 Europa Series wall-mounting consumer units

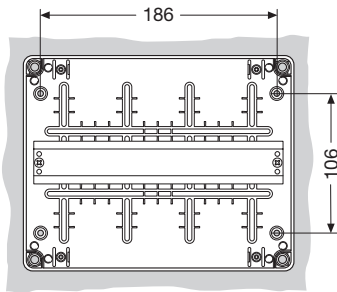
Drilling sheets



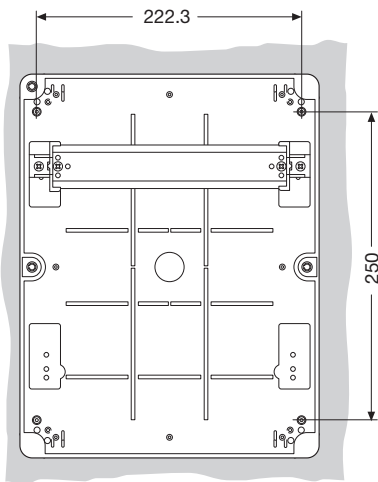
4 modules



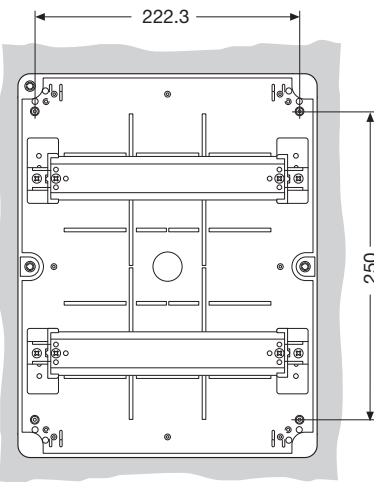
6 modules



10 modules



10 modules



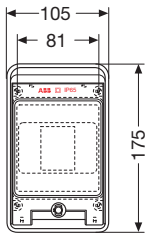
20 modules

modules	code
4 modules	12 644
6 modules	12 646
10 modules	12 650 – 12 654
20 modules	12 652

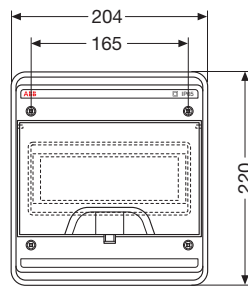
Overall dimensions

IP 65 Fly Series wall-mounting consumer units

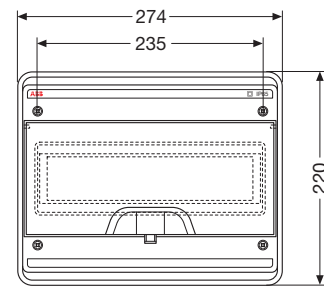
Front view



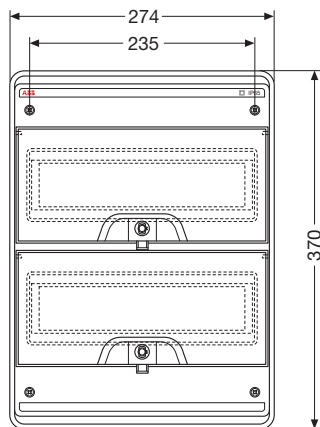
2-4 modules



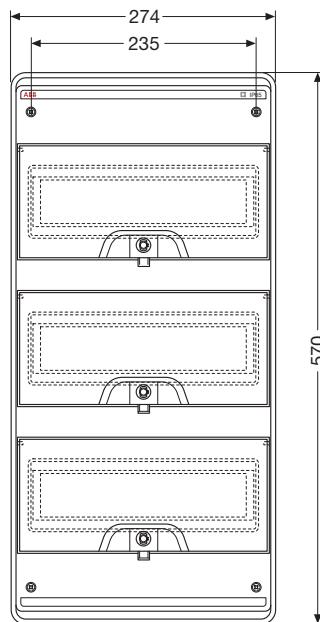
8 modules



12 modules

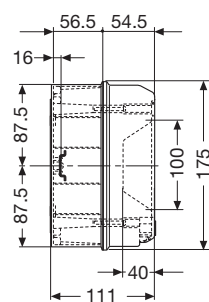


24 modules

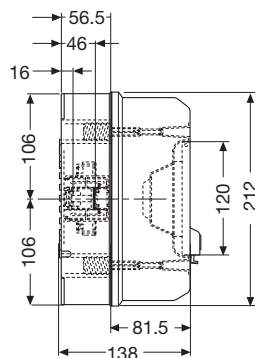


36 modules

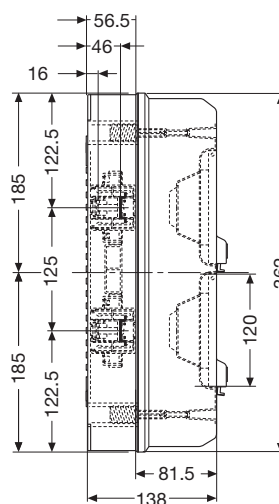
Side view



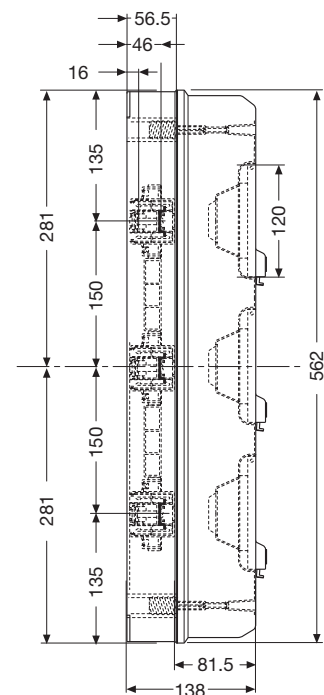
2-4 modules



8-12 modules



24 modules

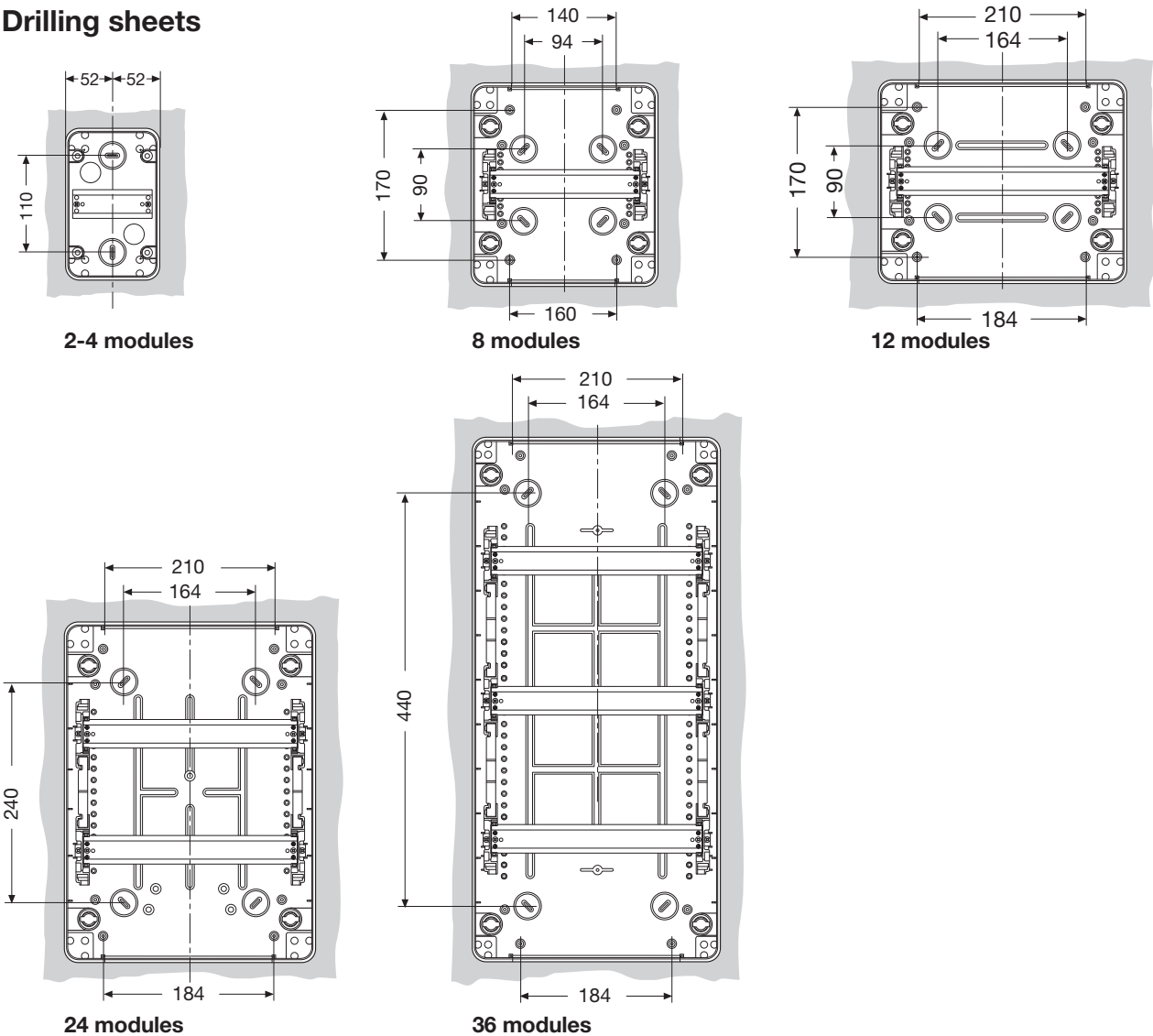


36 modules

Overall dimensions

IP 65 Fly Series wall-mounting consumer units

Drilling sheets



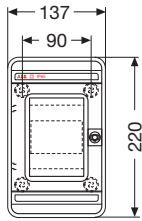
VLC00016

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

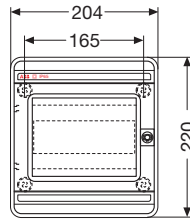
Overall dimensions

IP 65 Europa Series wall-mounting consumer units

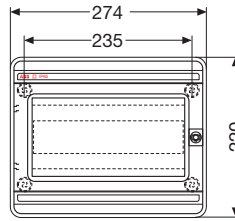
Front view



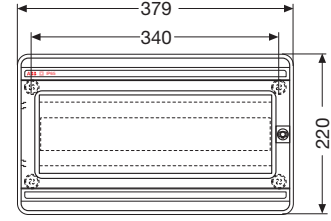
4 modules



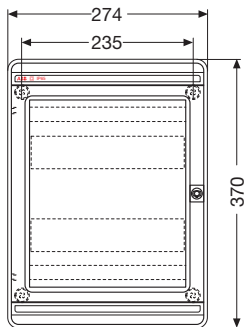
8 modules



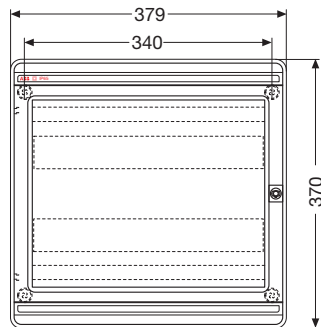
12 modules



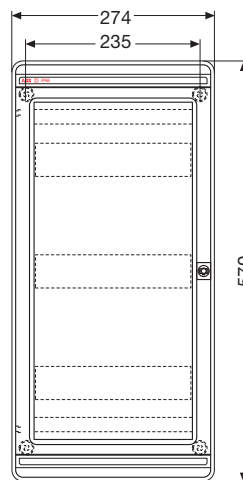
18 modules



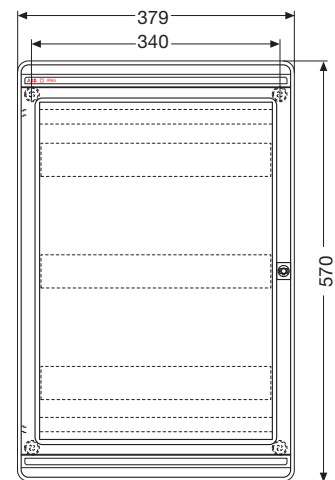
24 modules



36 modules

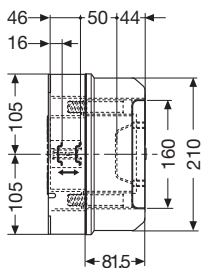


36 modules

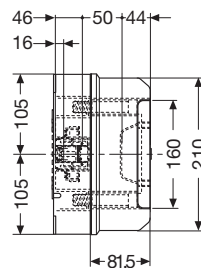


54 modules

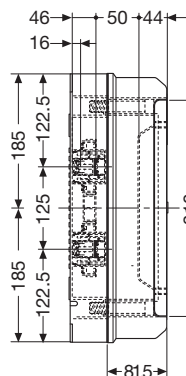
Side view



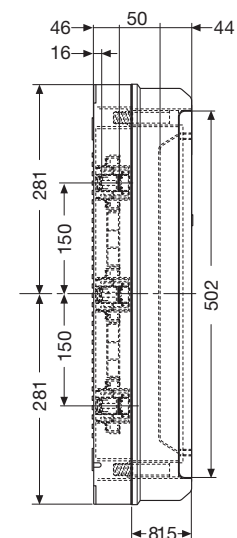
4-8-12 modules



18 modules



24 modules

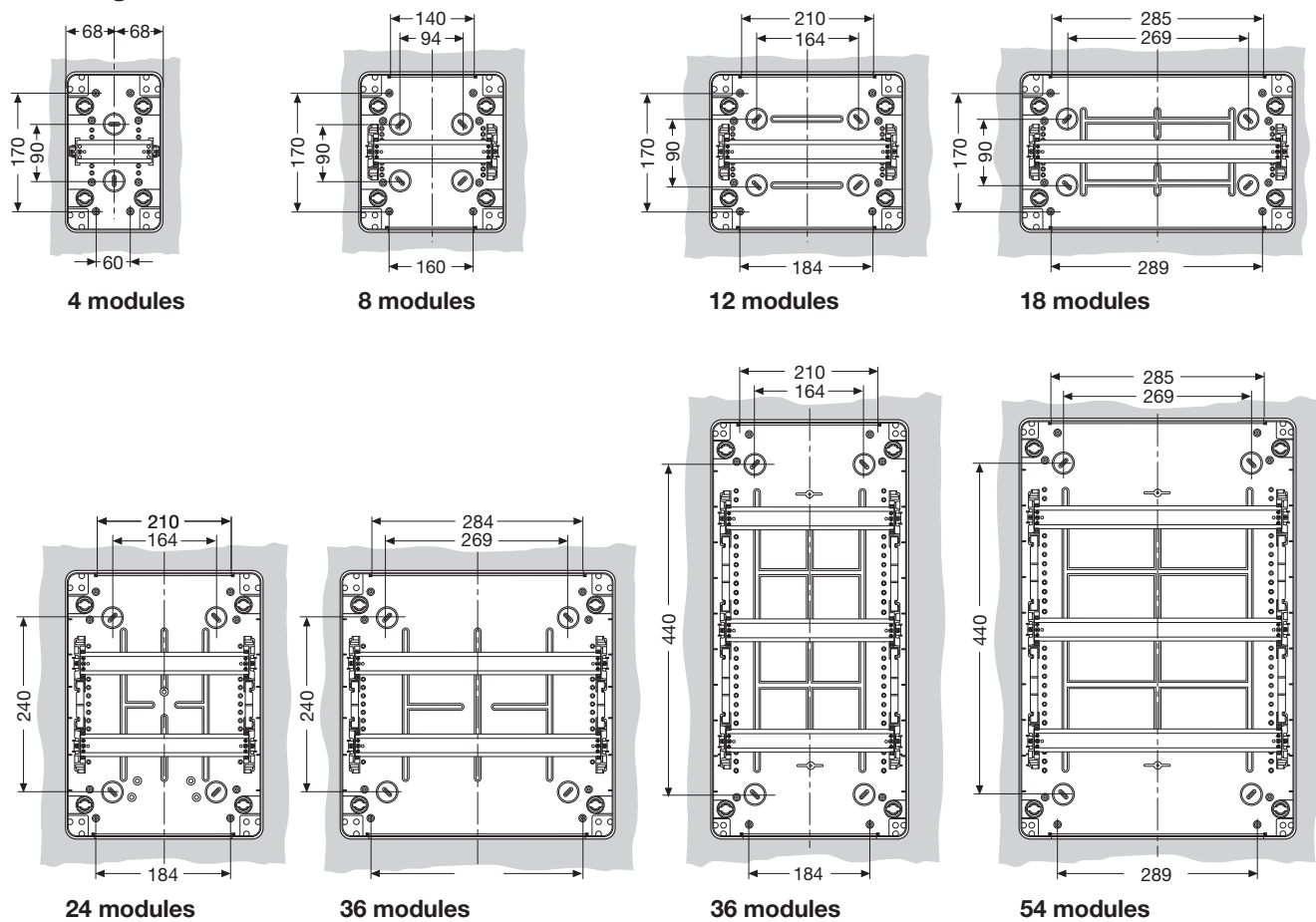


36-54 modules

Overall dimensions

IP 65 Europa Series wall-mounting consumer units

Drilling sheets



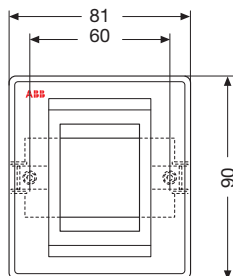
modules	code
4 modules	12 724 – 12 744
8 modules	12 728 – 12 748
12 modules	12 732 – 12 752
18 modules	12 733 – 12 753
24 modules	12 734 – 12 754
36 modules (18x2)	12 735 – 12 755
36 modules (12x3)	12 736 – 12 756
54 modules	12 738 – 12 758

MLC00016

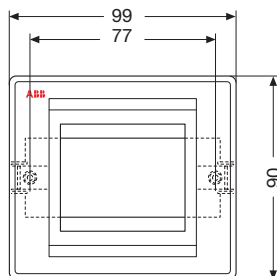
Overall dimensions

IP 40 panel fronts

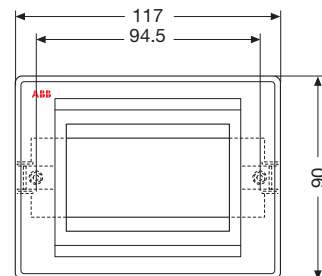
Front view



2 modules

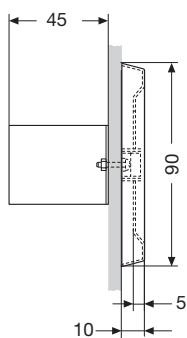


3 modules

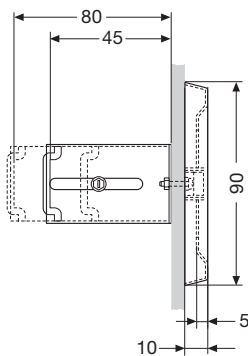


4 modules

Side view

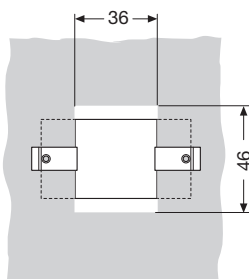


2-3 modules

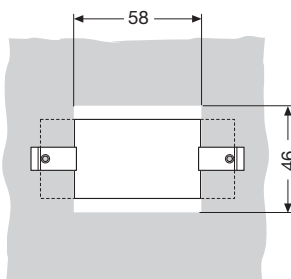


4 modules

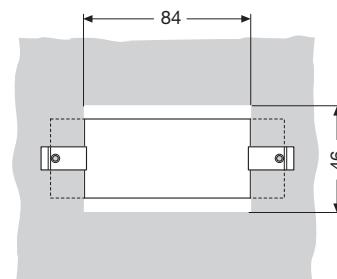
Drilling sheets



2 modules



3 modules



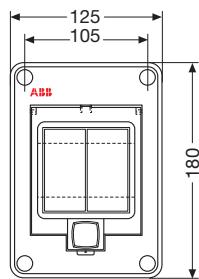
4 modules

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

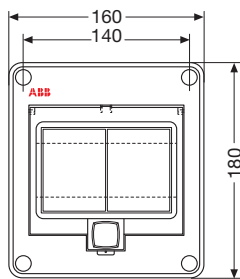
Overall dimensions

IP 55 panel fronts

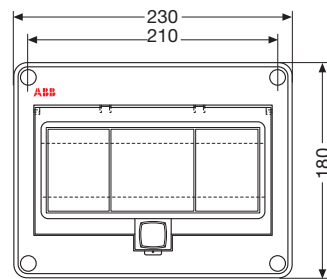
Front view



4 modules

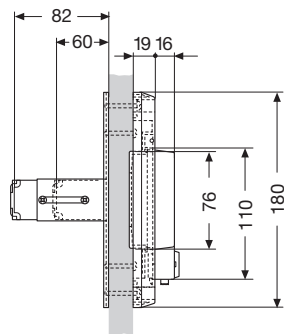


6 modules



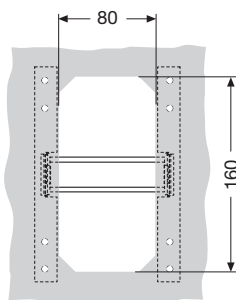
10 modules

Side view

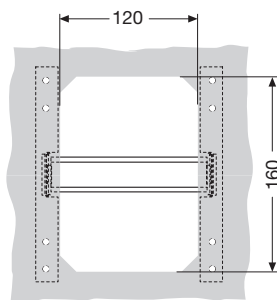


4-6-10 modules

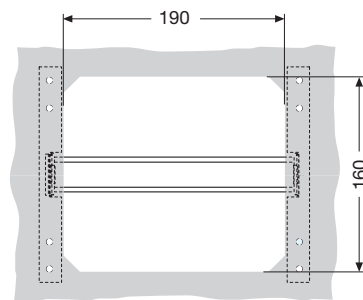
Drilling sheets



4 modules



6 modules



10 modules

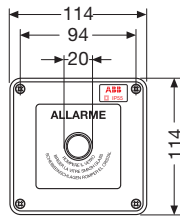
modules	code
4 modules	12 658
6 modules	12 659
10 modules	12 660

ML000020

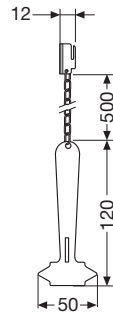
Overall dimensions

Livorno Series flush- and wall- mounting emergency consumer units

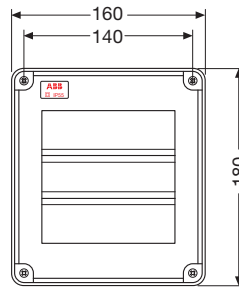
Front view



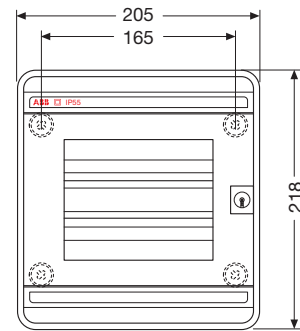
13 180 – 13 183



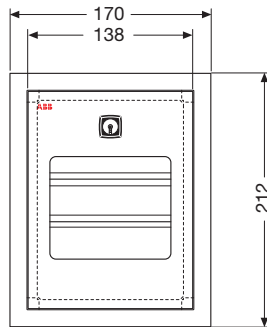
13 186



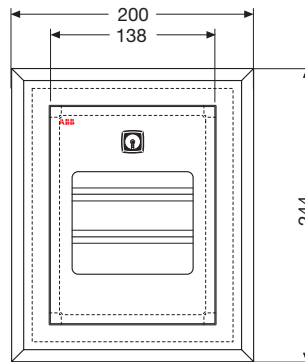
13 161 – 13 165
13 160 – 13 164



13 171 – 13 175
13 170 – 13 174

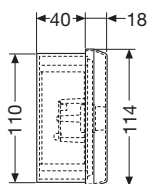


13 141 – 13 151
13 140 – 13 150

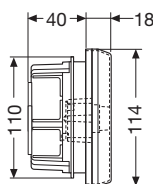


13 144 – 13 154
13 143 – 13 153

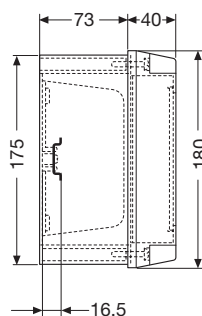
Side view



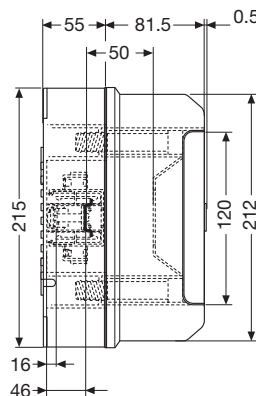
13 180



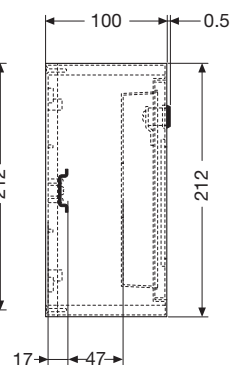
13 183



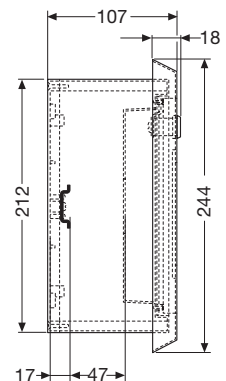
13 161 – 13 165
13 160 – 13 164



13 171 – 13 175
13 170 – 13 174



13 141 – 13 151
13 140 – 13 150

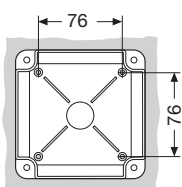


13 144 – 13 154
13 143 – 13 153

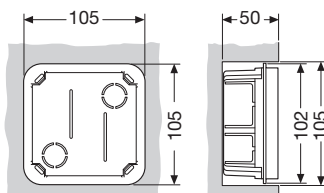
Overall dimensions

Livorno Series flush- and wall- mounting emergency consumer units

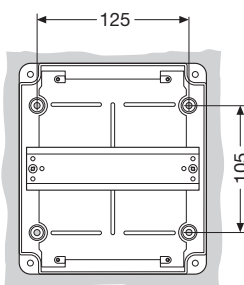
Drilling sheets



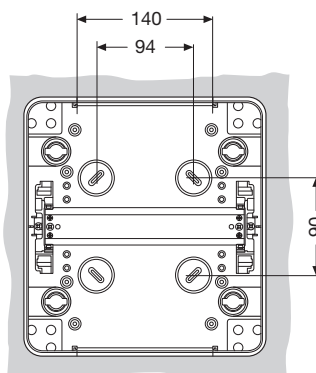
13 180



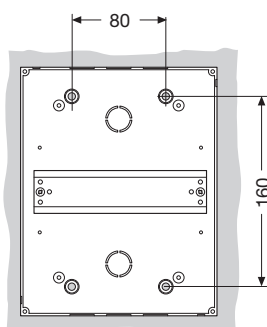
13 183



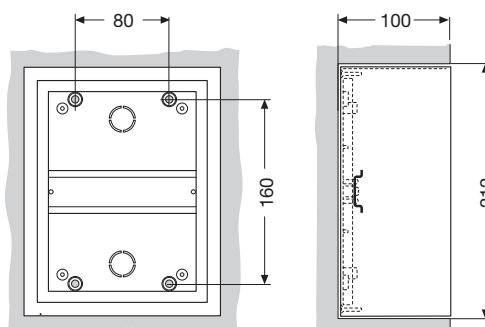
**13 161 – 13 165
13 160 – 13 164**



**13 171 – 13 175
13 170 – 13 174**



**13 141 – 13 151
13 140 – 13 150**

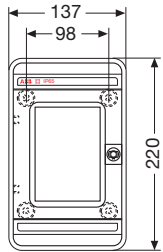


**13 144 – 13 154
13 143 – 13 153**

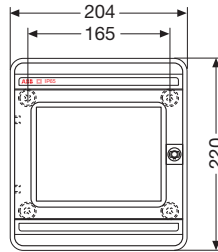
Overall dimensions

Europa Series switchboards for industrial applications

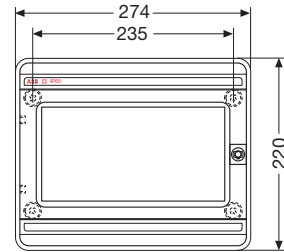
Front view



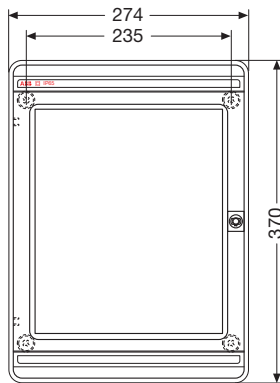
12 764 – 12 784



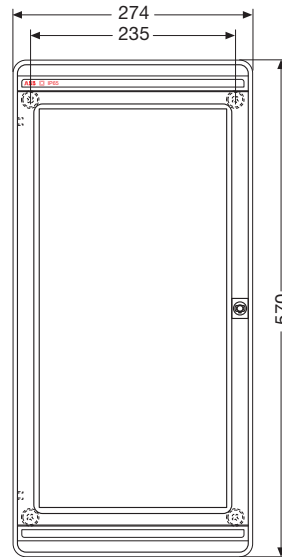
12 768 – 12 788



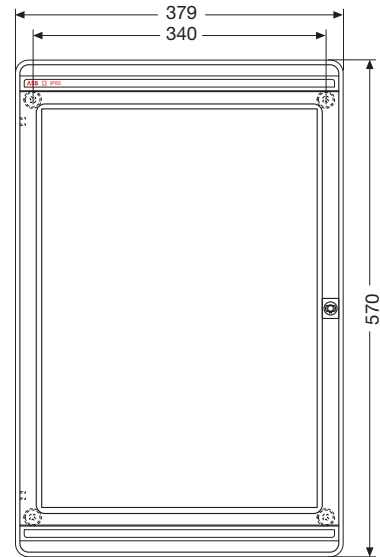
12 772 – 12 792



12 774 – 12 794

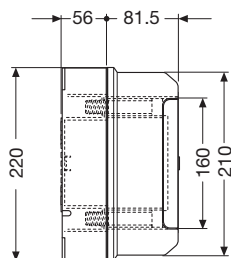


12 776 – 12 796

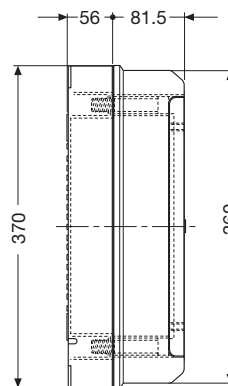


12 778 – 12 798

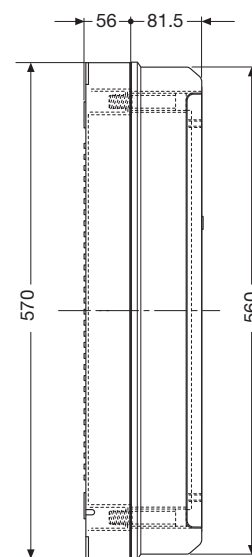
Side view



12 768 – 12 788
12 764 – 12 784
12 772 – 12 792



12 776 – 12 796



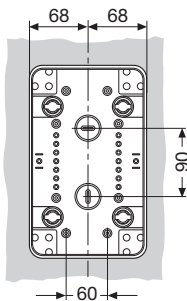
12 778 – 12 798

V4C00023

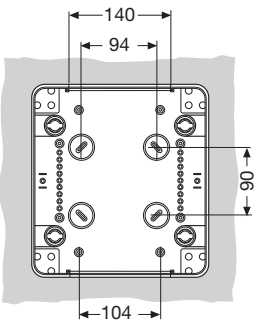
Overall dimensions

Europa Series switchboards for industrial applications

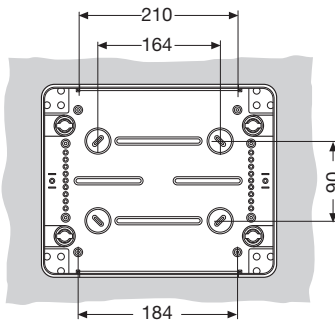
Drilling sheets



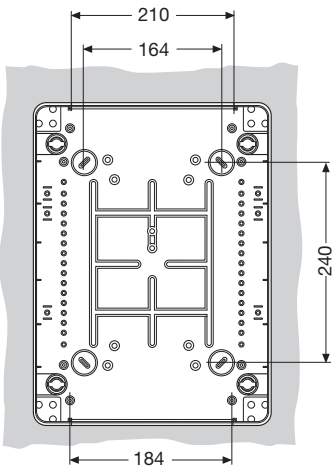
12 764 - 12 784



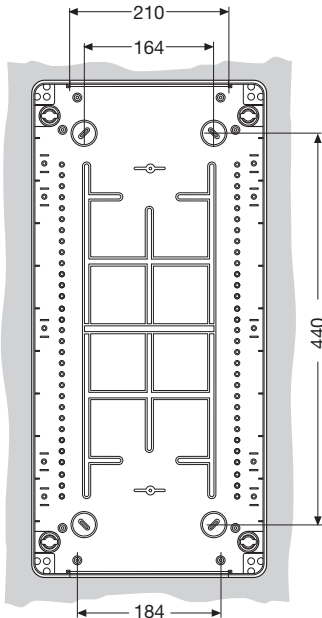
12 768 - 12 788



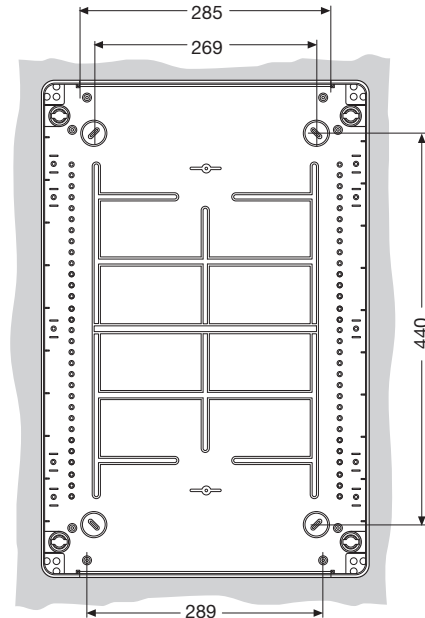
12 772 - 12 792



12 774 - 12 794



12 776 - 12 796

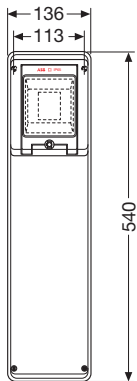


12 778 - 12 798

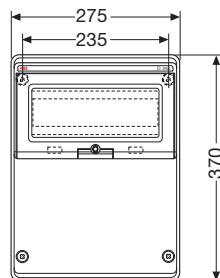
Overall dimensions

Switchboards for industrial applications with blank front

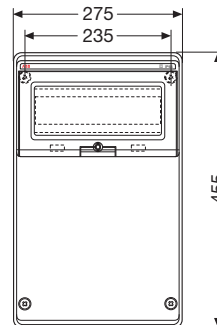
Front view



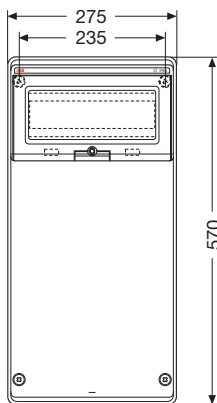
13 200



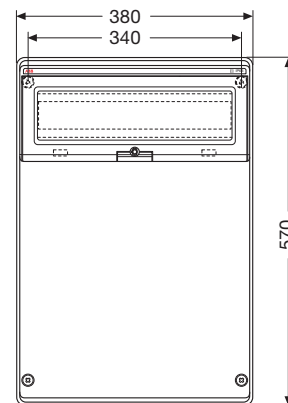
13 204



13 205

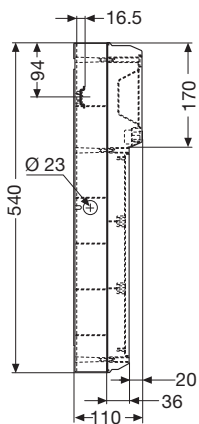


13 206

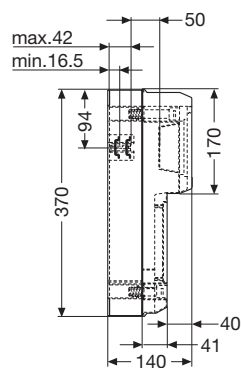


13 208

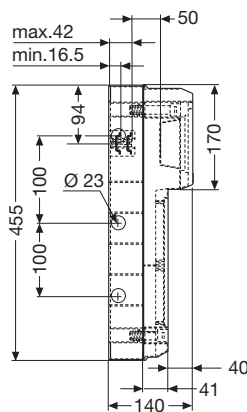
Side view



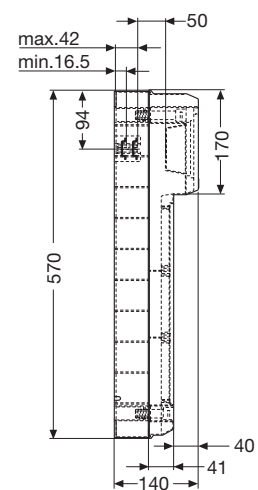
13 200



13 204



13 205

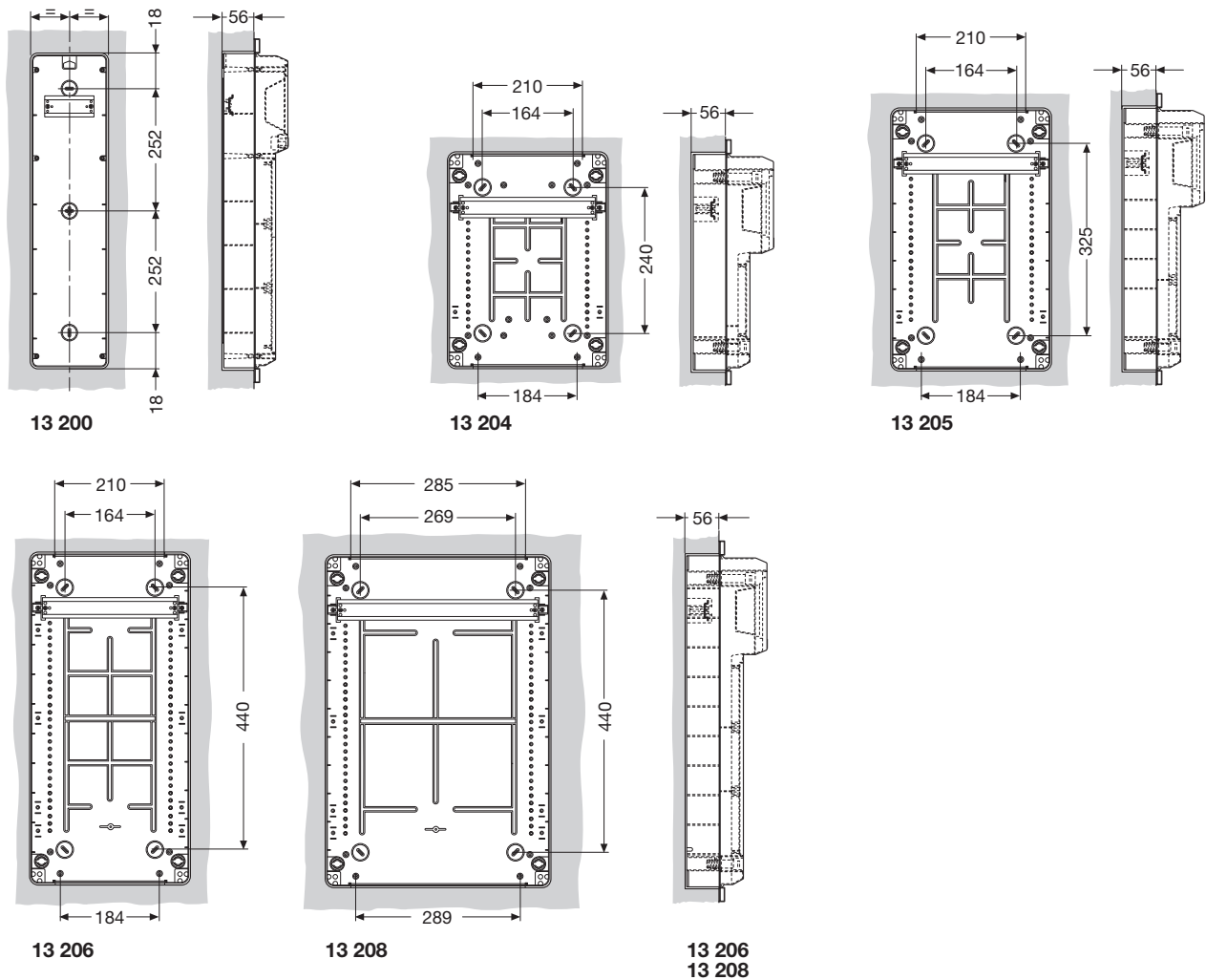


13 206 - 13 208

Overall dimensions

Switchboards for industrial applications with blank front

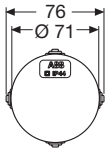
Drilling sheets



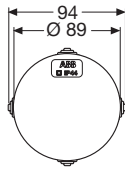
Overall dimensions

IP 44 and IP 55 junction boxes in thermoplastic material

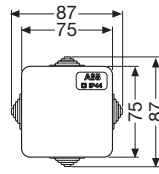
Front view



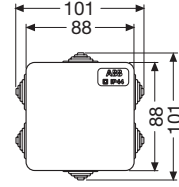
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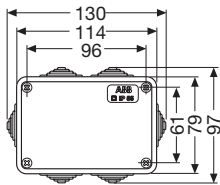
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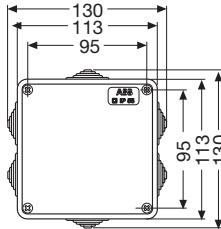
00 808
1SL0902A00



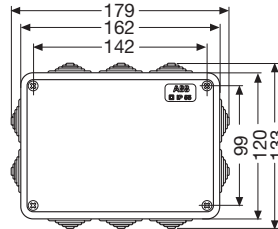
00 810
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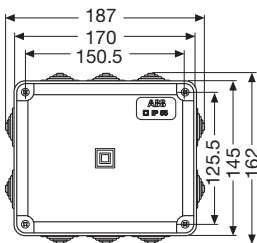
00 820 - 00 850
1SL0820A00 - 1SL0850A00
1SL0905A00 - 1SL0909A00
1SL0920A00 - 1SL0950A00



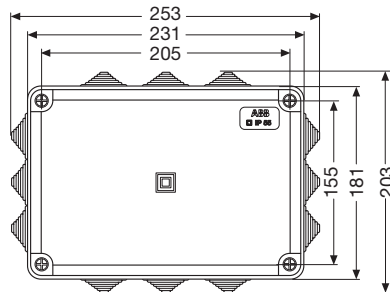
00 816 - 00 821
00 846 - 00 851
1SL0816A00 - 1SL0821A00
1SL0846A00 - 1SL0851A00
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1SL0908A00 - 1SL0910A00
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1SL0946A00 - 1SL0951A00



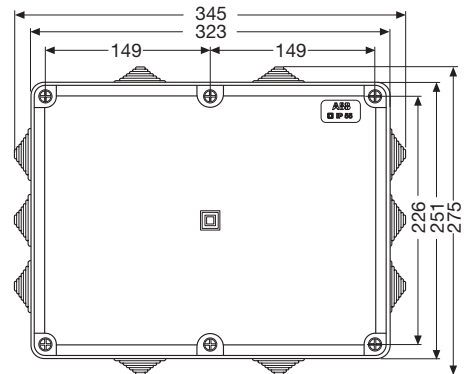
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1SL0872A00 - 1SL0907A00
1SL0911A00 - 1SL0912A00
1SL0922A00 - 1SL0985A00
1SL0972A00



1SL0830A00 - 1SL0824A00
1SL0874A00 - 1SL0854A00
1SL0860A00 - 1SL0880A00
1SL0930A00 - 1SL0924A00
1SL0974A00 - 1SL0954A00
1SL0960A00 - 1SL0980A00



1SL0826A00 - 1SL0832A00
1SL0876A00 - 1SL0856A00
1SL0862A00 - 1SL0884A00
1SL0926A00 - 1SL0932A00
1SL0976A00 - 1SL0956A00
1SL0962A00 - 1SL0984A00

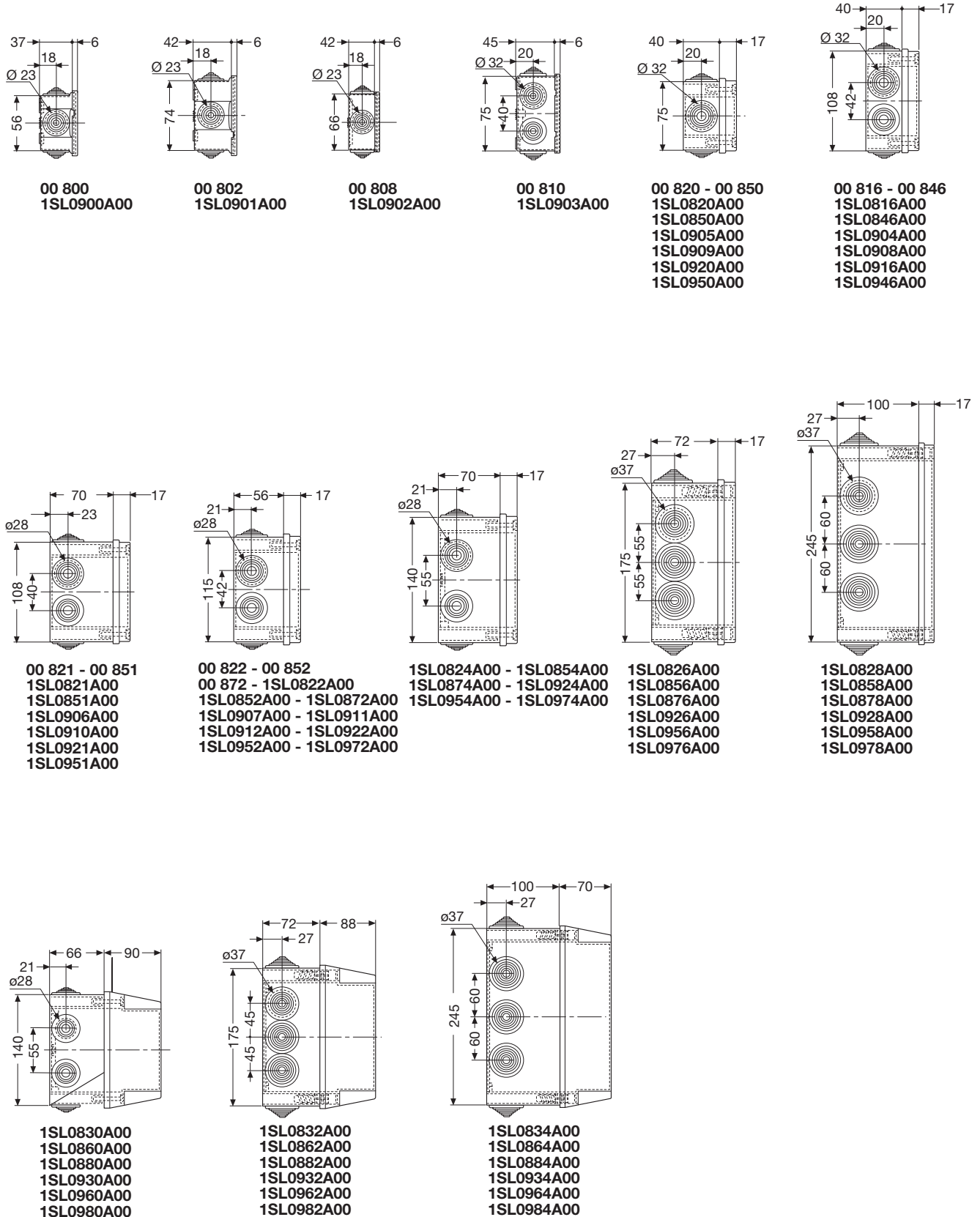


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Overall dimensions

IP 44 and IP 55 junction boxes in thermoplastic material

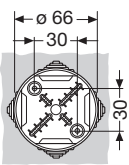
Side view



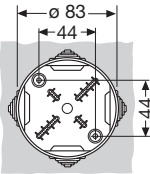
Overall dimensions

IP 44 and IP 55 junction boxes in thermoplastic material

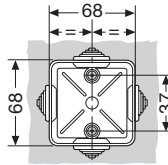
Drilling sheets and internal dimensions



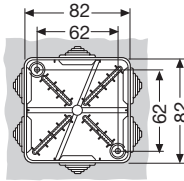
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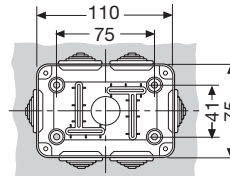
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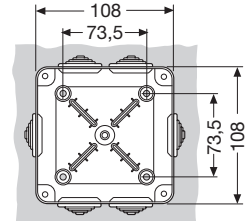
00 808
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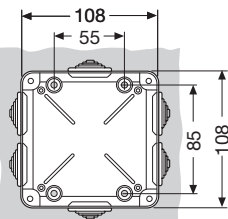
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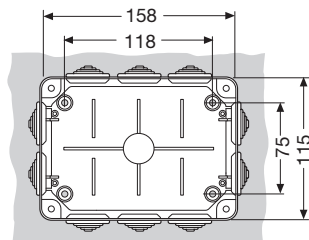
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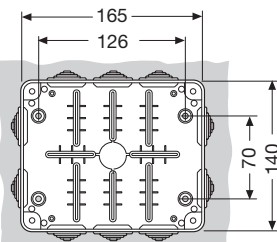
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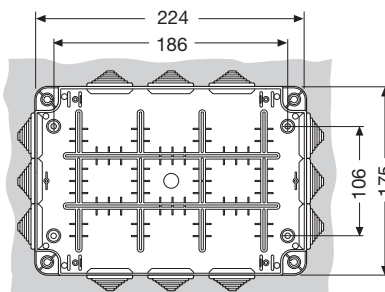
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1SL0951A00



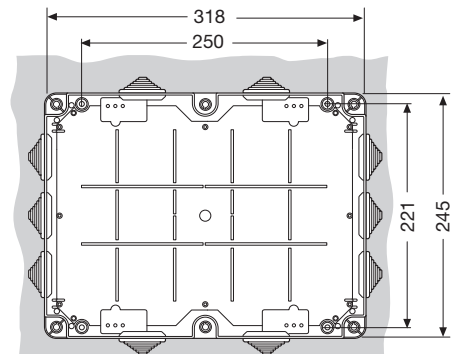
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1SL0824A00 - 1SL0830A00
1SL0874A00 - 1SL0854A00
1SL0860A00 - 1SL0880A00
1SL0924A00 - 1SL0930A00
1SL0974A00 - 1SL0954A00
1SL0960A00 - 1SL0980A00



1SL0826A00 - 1SL0832A00
1SL0876A00 - 1SL0856A00
1SL0862A00 - 1SL0884A00
1SL0926A00 - 1SL0932A00
1SL0976A00 - 1SL0956A00
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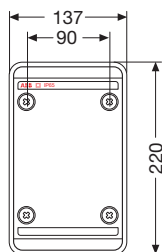


1SL0828A00 - 1SL0834A00
1SL0878A00 - 1SL0858A00
1SL0864A00 - 1SL0884A00
1SL0928A00 - 1SL0934A00
1SL0978A00 - 1SL0958A00
1SL0964A00 - 1SL0984A00

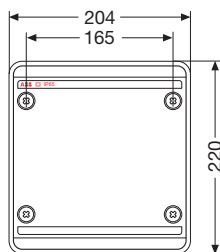
Overall dimensions

IP 65 junction boxes in polycarbonate

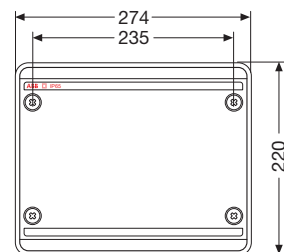
Front view



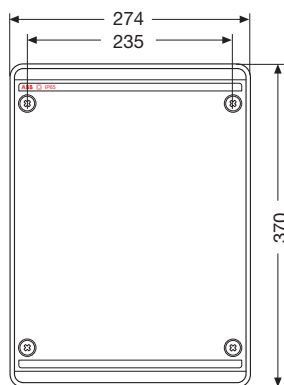
12 804



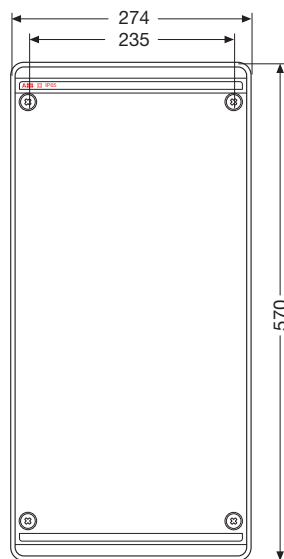
12 808



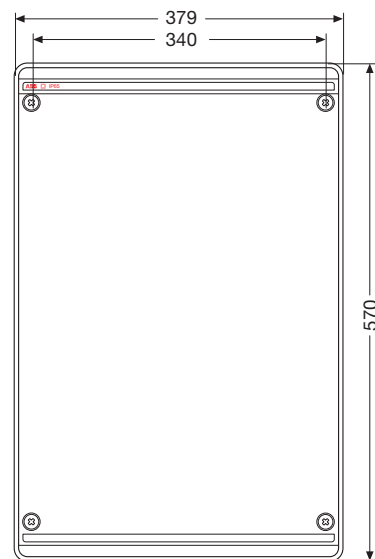
12 812



12 814

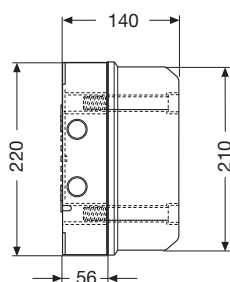


12 816

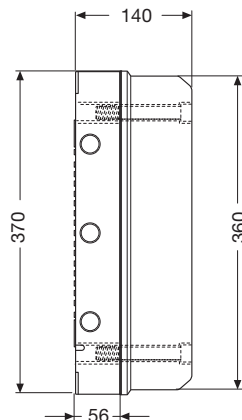


12 818

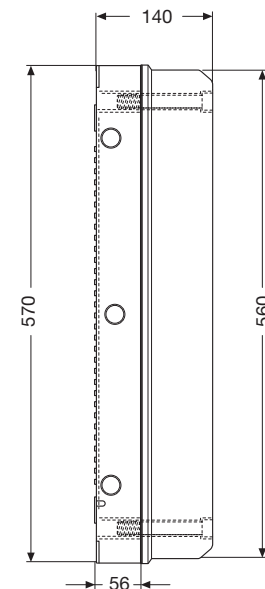
Side view



12 804 – 12 808 – 12 812



12 814



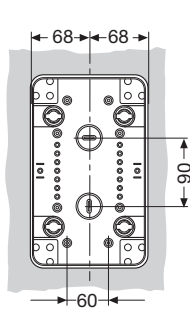
12 816 – 12 818

VLCO0031

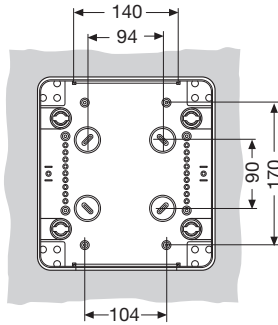
Overall dimensions

IP 65 junction boxes in polycarbonate

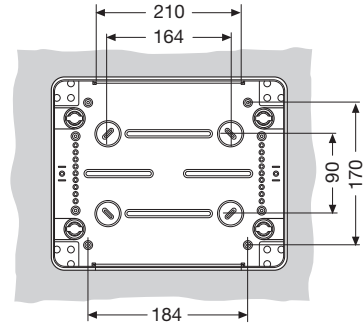
Drilling sheet



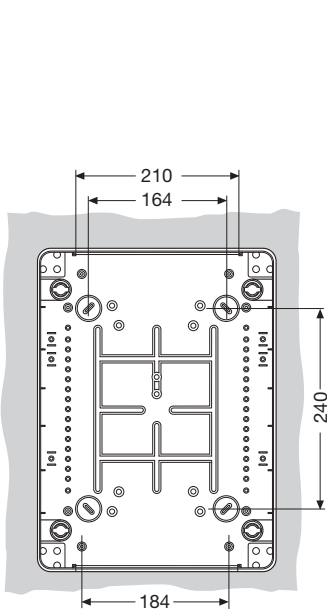
12 804



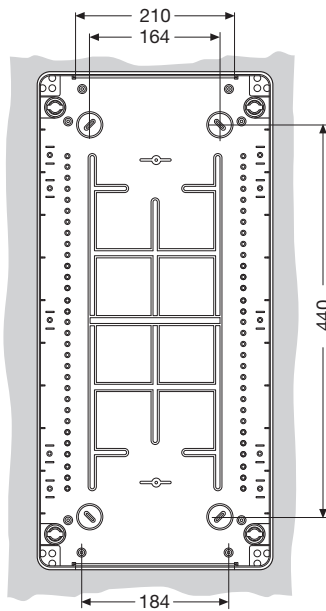
12 808



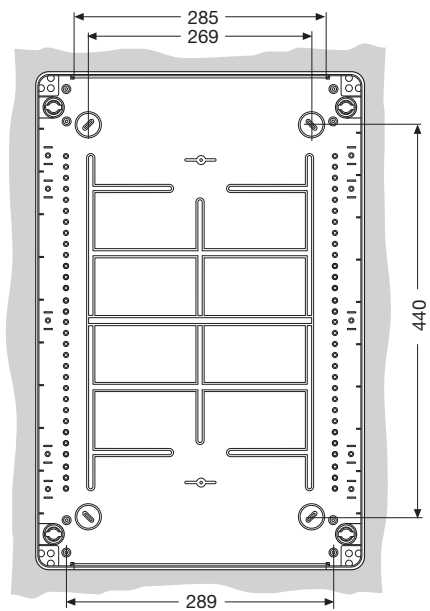
12 812



12 814



12 816



12 818

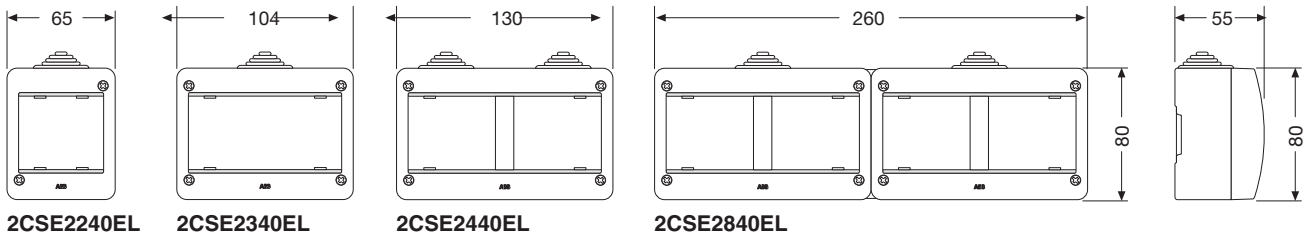
Overall dimensions

IP 40 equipment and empty enclosures

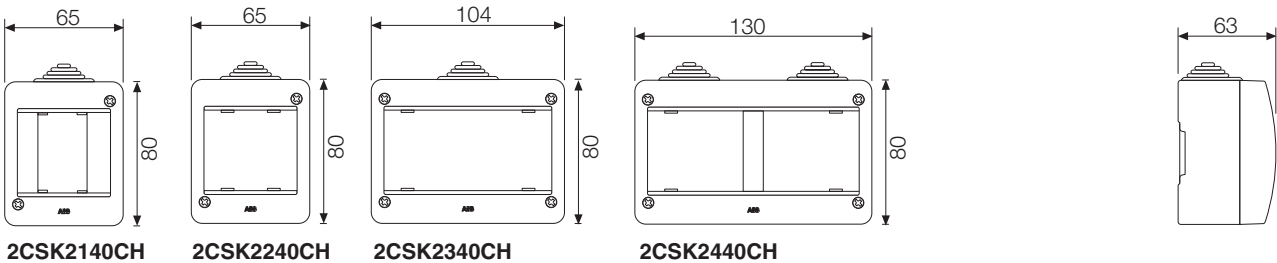
Front view

Side view

Boxes for ABB Élos Series



Boxes for ABB Chiara Series



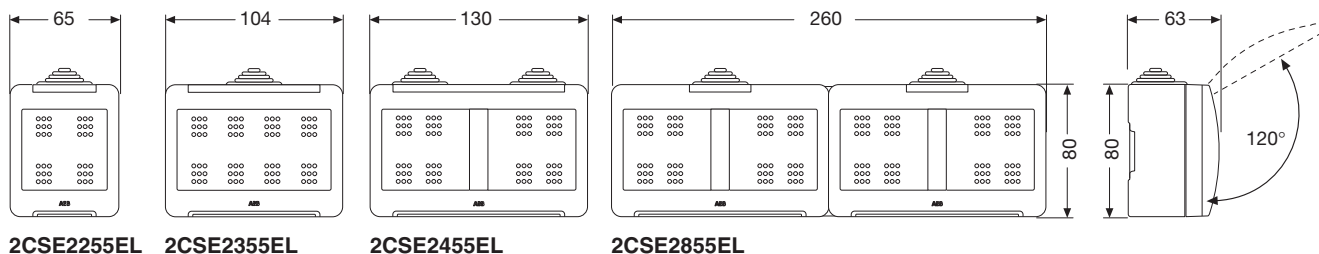
Overall dimensions

IP 55 equipment and empty enclosures

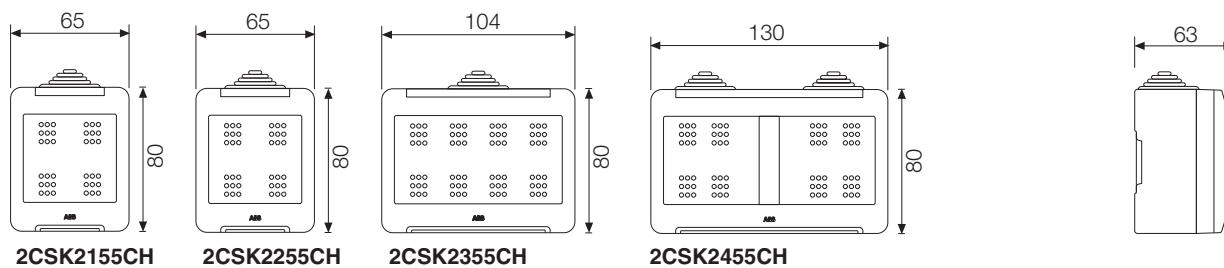
Front view

Side view

Boxes for ABB Élos Series



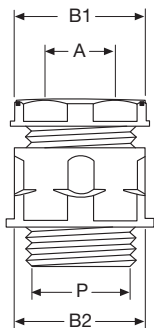
Boxes for ABB Chiara Series



Overall dimensions

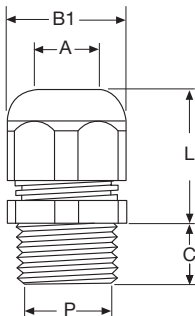
Various components

Cable glands PG



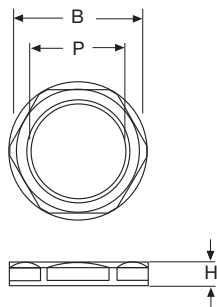
code	P	B1	Ø A
00 931	Pg 9	17	5-8
00 932	Pg 11	19	7-10
00 933	Pg 13.5	21	9-13
00 934	Pg 16	24	13-16
00 935	Pg 21	30	17-20
00 936	Pg 29	40	21-26
00 937	Pg 36	50	30-34
00 938	Pg 42	55	40-43

Metric glands clamp



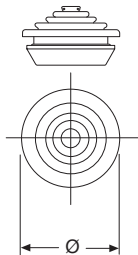
code	P	B1	Ø A	L	C
00 951	M12x1.5	15	3.5-7	18-22	8
00 952	M16x1.5	19	5.5-10	22-27	8
00 953	M20x1.5	25	7-13	24-30	9.5
00 954	M25x1.5	30	10-17	30-41	10
00 955	M32x1.5	36	12-21	33-44	10
00 956*	M40x1.5	46	19-28	36-45	10
00 957*	M50x1.5	55	27-35	43-52	12
00 958*	M63x1.5	66	34-45	45-55	12

Metric nut



code	P	B
00 961	M12x1.5	17
00 962	M16x1.5	22
00 963	M20x1.5	27
00 964	M25x1.5	32
00 965	M32x1.5	41
00 966*	M40x1.5	50
00 967*	M50x1.5	60
00 968*	M63x1.5	75

Cable clamps



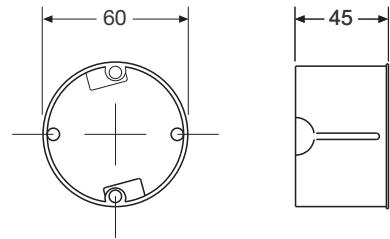
code	Ø
00 908	20
00 910	25
00 912	32

Overall dimensions

Enclosures and boxes for light prefabrication

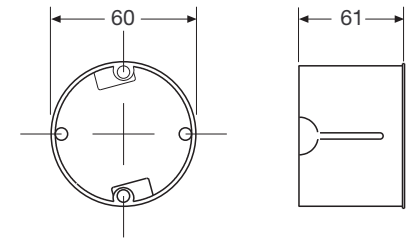
Junction box

Wiring accessories box Ø 60 mm



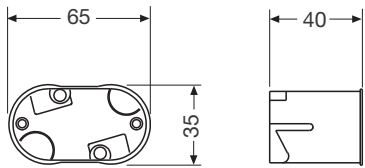
code
10 801

Wiring accessories and junction box Ø 60 mm



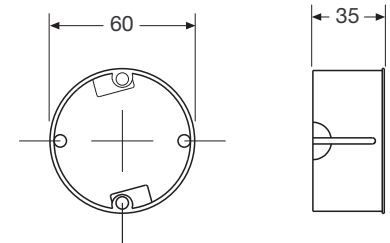
code
10 802

Wall light box 65x35 mm



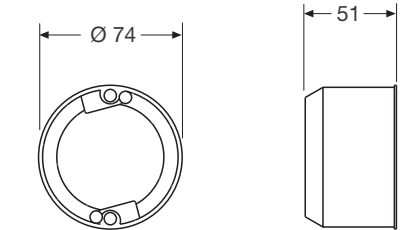
code
10 805

Wiring accessories box Ø 60 mm



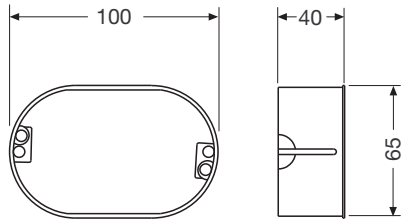
code
10 807

Increased junction box Ø 74 mm



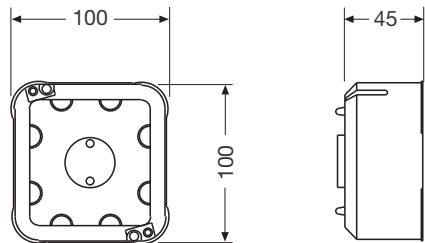
code
10 803

Wiring accessories modular box 100x62 mm



code
10 804

Junction box 100x100 mm



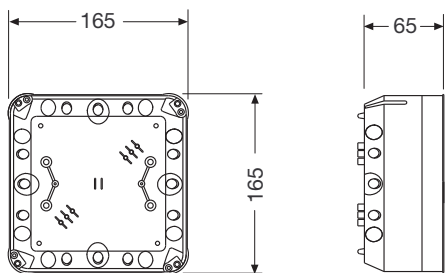
code
10 808

Overall dimensions

Enclosures and boxes for light prefabrication

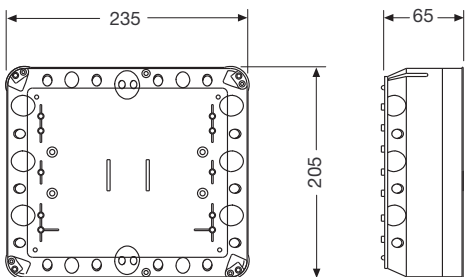
Boxes for consumer units

Box for consumer unit with 8 modules



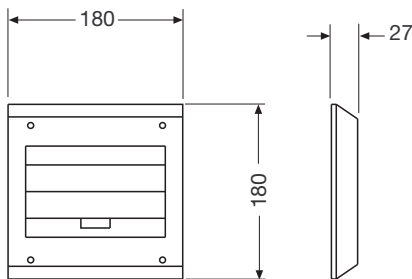
code
10 821

Box for consumer units with 12 modules



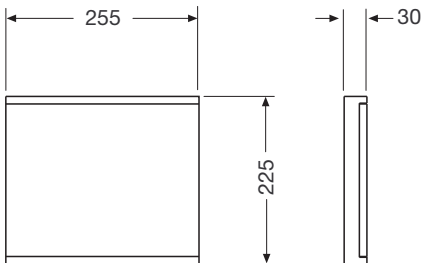
code
10 822

Front for consumer unit with 8 modules



code
10 833

Front for consumer units with 12 modules

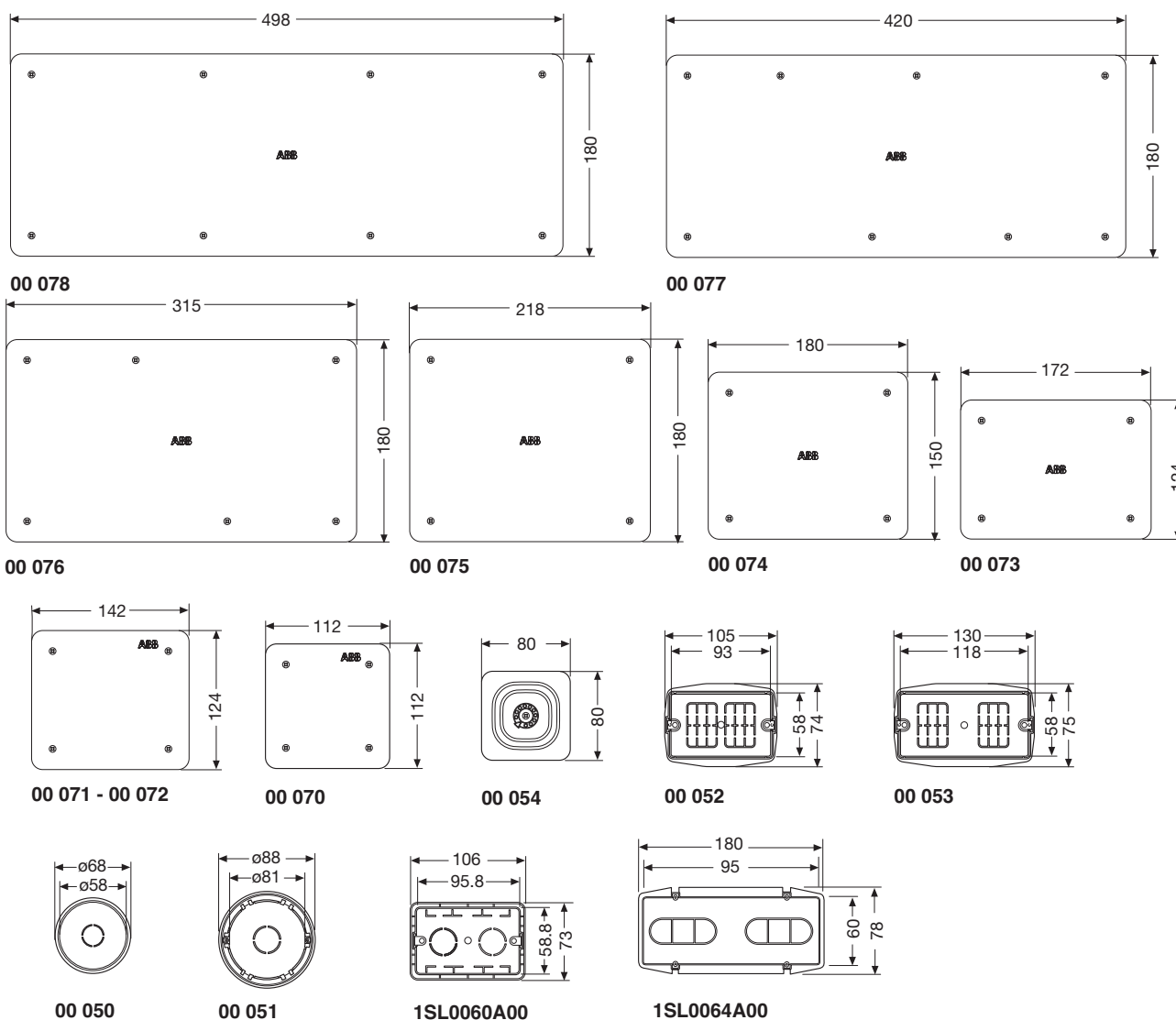


code
10 834

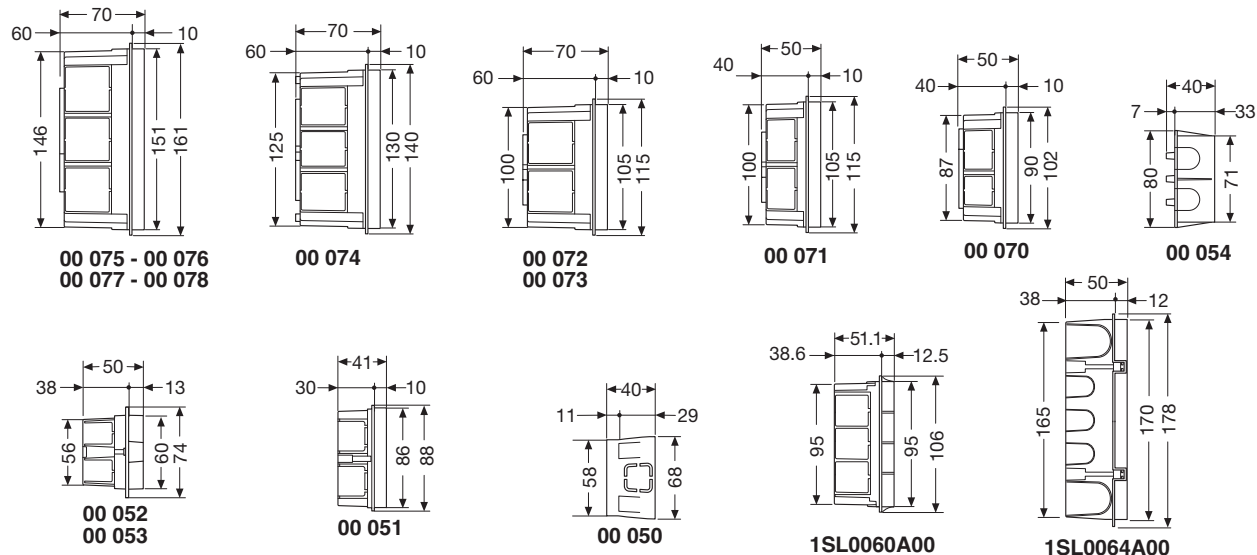
Overall dimensions

Wiring accessories and junction boxes in thermoplastic material

Front view



Side view

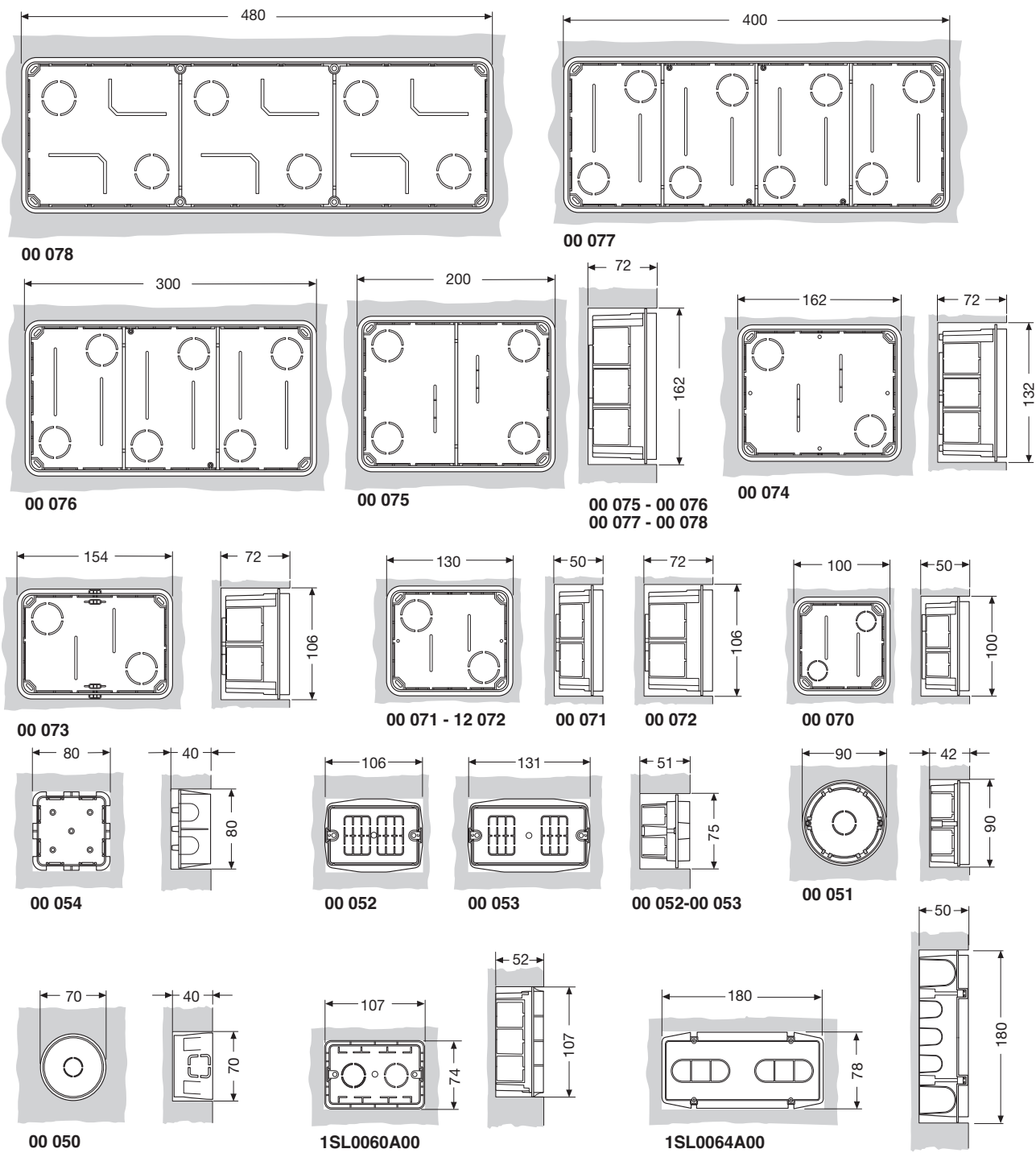


VLC00037

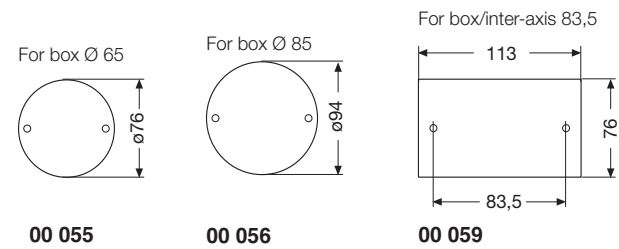
Overall dimensions

Wiring accessories and junction boxes in thermoplastic material

Drilling sheets



Covers



Spare covers

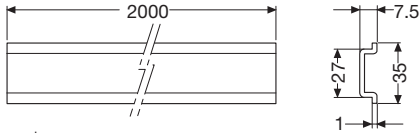
code	A	B
00 091	110	110
00 092	140	125
00 093	170	125
00 094	180	150
00 095	220	182
00 096	320	182
00 097	425	182
00 098	500	182

Overall dimensions

Installation material

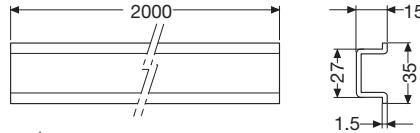
Metal rails

Top hat section rail TH 35-7.5



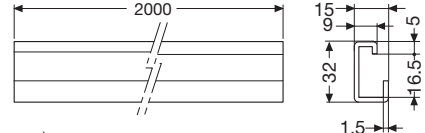
code
12 839

Top hat section rail TH 35-15



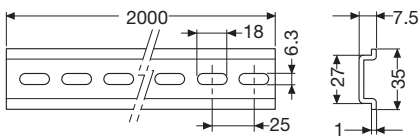
code
12 840

"G" section rail G 32



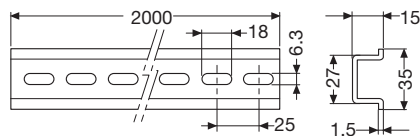
code
12 841

Top hat section rail TH 35-7.5 with holes



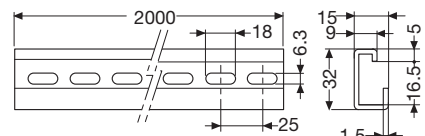
code
12 849

Top hat section rail TH 35-15 with holes



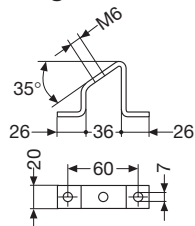
code
12 850

"G" section rail G 32 with holes



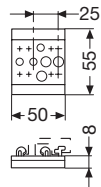
code
12 853

Supporting bracket for metal rails



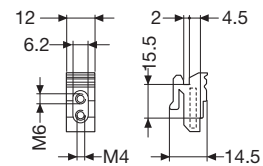
code
12 892

Plastic base for wiring ducts



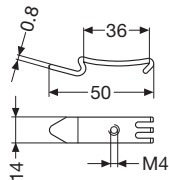
code
05 210

Universal plastic connector

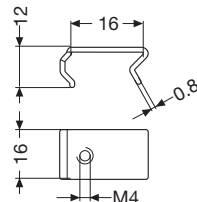


code
12 893

Universal metal connector

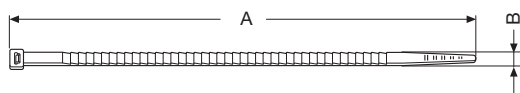


code
12 828

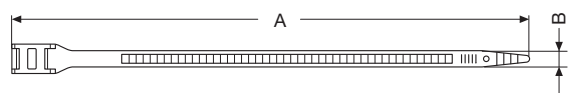


code
12 829

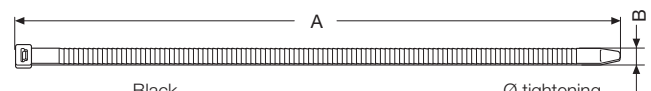
Polyamide cable-ties



Transparent polyamide	Black polyamide	A	B	Ø tightening min.	max.
18 010	18 110	98	2.5	2	24
18 013	18 113	135	2.5	2	42
18 012	18 112	140	3.6	2.5	36
18 011	18 111	160	2.6	2	35
18 014	18 114	200	3.6	2.5	55
18 015	18 115	178	4.8	3	45
18 017	18 117	290	3.6	2.5	80
18 018	18 118	290	4.8	5	76
18 020	18 120	360	4.8	5	101
18 024	18 124	240	7.8	5	51
18 026	18 126	300	7.8	4	76
18 034	18 134	450	7.8	35	130



Transparent polyamide	Black polyamide	A	B	Ø tightening min.	max.
18 036	18 136	540	7.8	35	158
18 038	18 138	780	9	32	233
18 028	18 128	365	7.8	8	100

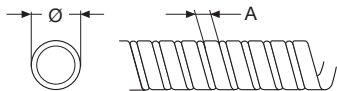


Black polyamide	A	B	Ø tightening min.	max.
18 210	115	6	5	25
18 212	180	6	9	45
18 218	132	9	8	27
18 220	180	9	10	40
18 222	260	9	26	62
18 224	360	9	26	93

Overall dimensions

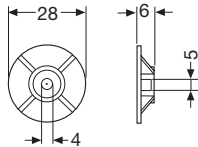
Installation material

Spirals



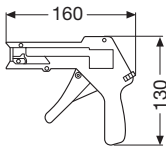
Transparent polyethylene	Self-extinguishing polyethylene	Ø	x	A
18 370	18 380	3		5
18 372	18 382	6		8
18 374	18 384	10		11
18 376	18 386	12		13

Self-adhesive supports for cable-ties



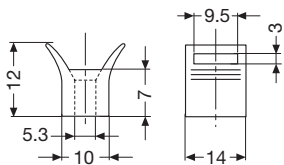
Transparent base	Black base
18 250	18 251

Pincer for cable-ties



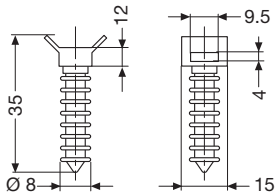
code
18 270

Screw support for external cable-ties



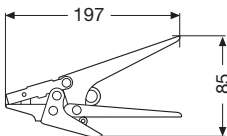
code
18 280

Pivot support for external cable-ties



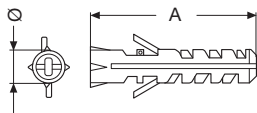
code
18 282

Pincer for external cable-ties



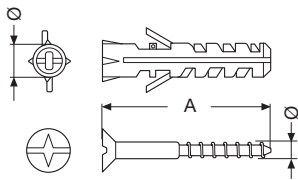
code
18 290

Wall plugs



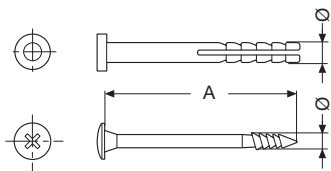
code	Ø	x	A
18 405	5		25
18 406	6		30
18 408	8		40
18 410	10		50

Wall plugs with screws



code	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



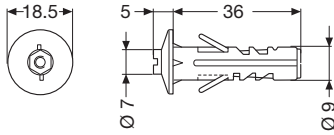
code	wall plug Ø	nail-screw Ø	x	A
18 430	5	3.5		27
18 432	6	4		35
18 434	6	4		55
18 436	8	5		70
18 440	8	5		72

VL000046

Overall dimensions

Installation material

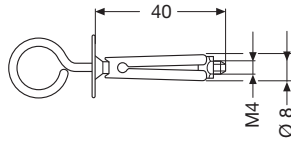
Wall plugs with hooks



code

18 450 – 18 452 – 18 454 – 18 456 – 18 548

Stainless-steel wal plugs with hooks

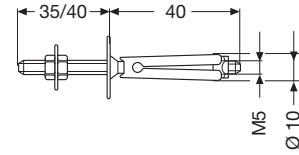


code

18 460 – 18 461 – 18 464 – 18 465 – 18 466

18 467 – 18 470 – 18 471 – 18 472 – 18 473

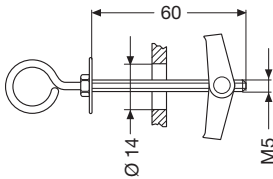
Stainless-steel wal plugs with hooks



code

18 476 – 18 477 – 17 478 – 18 479

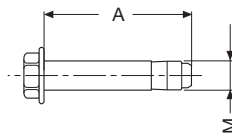
Stainless-steel wall anchor



code

18 490 – 18 492 – 17 494 – 18 496

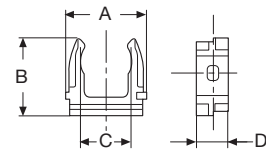
Screws with stainless-steel wall plugs



code

	M	x	A
18 486	6	50	
18 487	8	55	
18 488	10	60	
18 489	10	70	

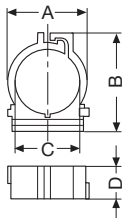
Snap-on conduit holders



code

	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

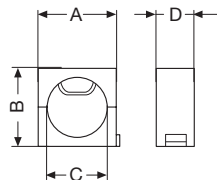
Collar conduit holders



code

	A	B	C	D
05 720	29	26	16	10
05 721	33	28	20	12
05 722	35	32	25	12
05 723	50	42	32	14

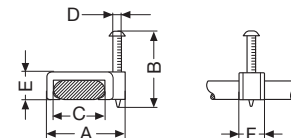
U-bolt conduit holders



code

	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



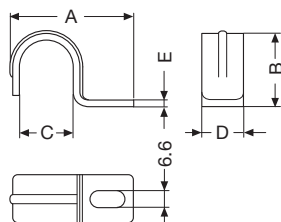
code

	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

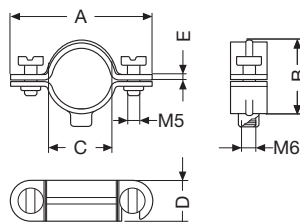
Installation material

Conduit clamps



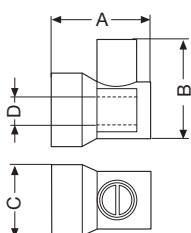
code	A	B	C	D	E
05 730	31	11.5	10	14	1.2
05 731	35	13	12	15	1.5
05 732	35	14	13	15	1.5
05 733	36	16	14	15	1.5
05 734	38	17	16	15	1.5
05 735	42	21	19-20	15	1.5
05 736	44	24	22	16	1.5
05 737	50	27	15-26	16	1.5
05 738	58	27	32	16	1.5
05 739	67	40	38	16	2
05 740	69	42	40	16	2
05 741	82	53	50	17	2

Conduit clamp collars



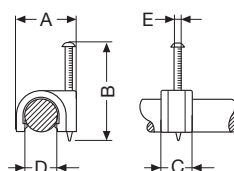
code	A	B	C	D	E
05 745	34	15	10	12	0.8
05 746	37	18	12	12	0.8
05 747	38	19	13	12	0.8
05 748	38	19	14	12	0.8
05 749	42	22	16	13	1.2
05 750	45	26	19-20	13	1.2
05 751	48	29	22	14	1.2
05 752	51	32	25-26	14	1.2
05 753	58	40	32	16	1.5
05 754	67	45	38	16	1.5
05 755	64	48	40	16	1.5
05 756	78	55	50	16	1.5

Insulated cable clamps



code	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

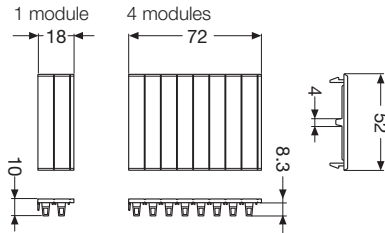


code	A	B	C	D	E
05 770-05 788	9.5	18	6	4	2
05 771-05 789	11.5	18	6	5	2
05 772-05 790	12	18	6	6	2
05 773-05 791	12	24	7.5	7	2
05 774-05 792	14	24	8.5	8	2
05 775-05 793	15	29	9.5	9	2
05 776-05 794	17	29	10	10	2
05 777-05 795	20	29	10	12	2
05 778-05 796	21	29	11	13	2
05 779	22	29	11	14	2
05 780	24	35	12	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

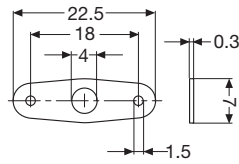
Accessories

Module covers



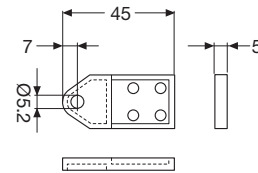
code	No modules
1SL2857A00 – 12 895 – 12 861	1
1SL2859A00 – 12 896 – 12 863 – 12 555	4

Screw lead sealing accessory



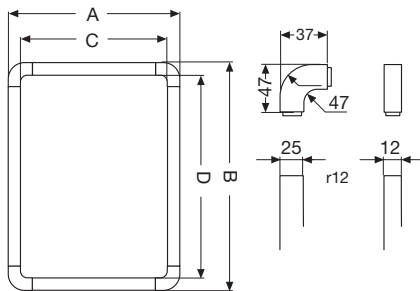
code
12 860

Brackets



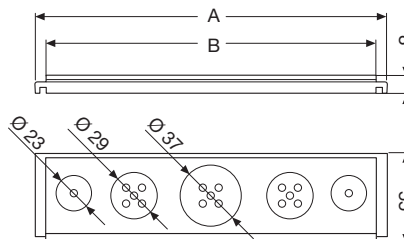
code
12 858

Semi-flush-mounting frame



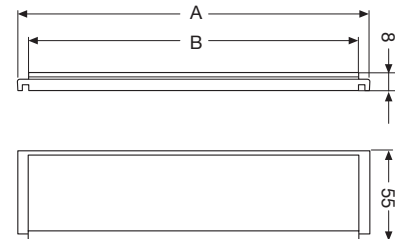
code	A	B	C	D
12 590	187	270	137	220
12 591	254	270	204	220
12 592	325	270	275	220
12 593	325	420	275	370
12 594	325	622	275	572
12 595	430	622	380	572
12 596	430	270	380	220
12 597	430	420	380	370
12 598	136	548	86	498
12 599	275	455	225	405

Bi-material flange



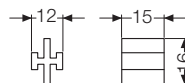
code	A	B
12 600	140	146
12 601	216	210
12 602	292	285

Rigid flange



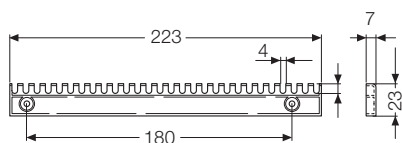
code	A	B
1SL0550A00	140	146
1SL0551A00	216	210
1SL0552 A00	292	285

Unibox Series coupling accessory



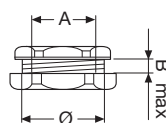
code
12 556

Unibox Series cable holder



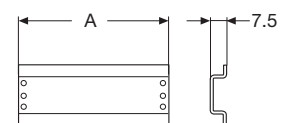
code
12 530

Plug/box unions element



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

DIN rails

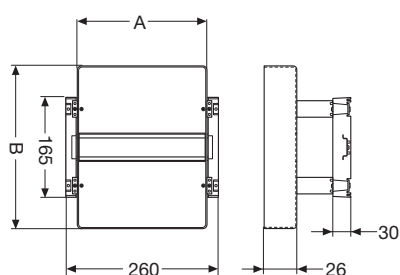


code	A
12 852	86
12 854	164
12 855	224
12 856	330

Overall dimensions

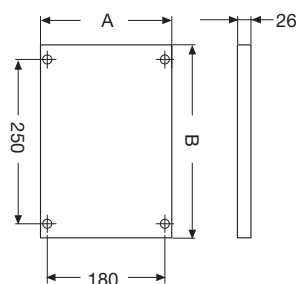
Accessories

Kit for MCBs connectors



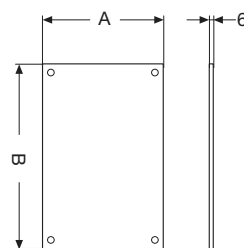
code	A	B
12 820	217	273
12 821	217	474
12 822	321	474

Fixed counter-doors



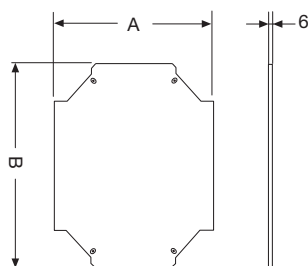
code	A	B
12 825	217	273
12 826	217	474
12 827	827	321

Insulating material base plates



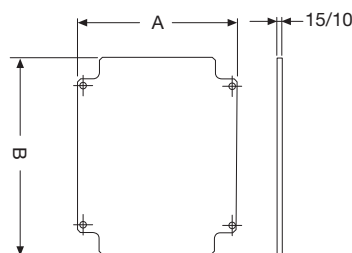
code	A	B
12 832	80	116
12 834	147	116
12 835	217	116
12 836	217	266
12 837	217	466
12 838	322	466

Metal base plates for IP 65 box



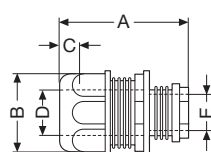
code	A	B
12 842	80	116
12 844	145	116
12 845	215	116
12 846	215	266
12 847	215	466
12 848	320	466

Metal base plates for IP 55 water-proof box

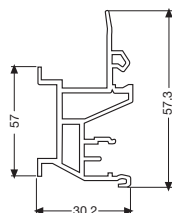


code	A	B
00 900	120	149
00 902	153	200
00 904	222	290

Conduit clamps-connector box Plastic spacer

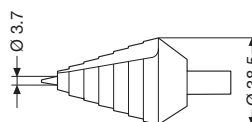


code	A	B	C	D	E
00 430	37	28	4.8	16.5	11.9
00 431	37	33.4	4.9	20.8	15.9
00 432	37.7	38.9	5	25.5	19.8
00 433	46.6	51	5.5	32.1	20.2
00 434	49.6	56.2	5.5	40.4	33.5
00 435	49.9	67.4	5.5	50.5	44



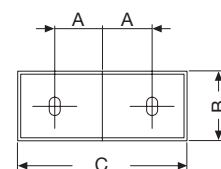
code
12 851

Universal cutter



code
12 894

Module covers

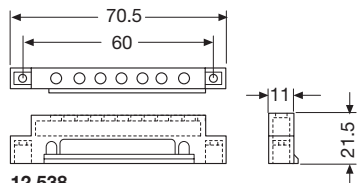


code	A	B	C
12 868	35	36	100.5
12 869	35	36	100.5

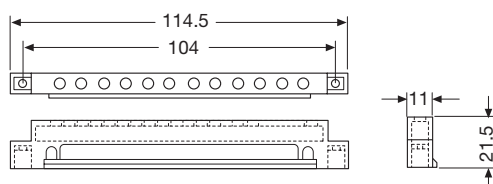
Overall dimensions

Accessories

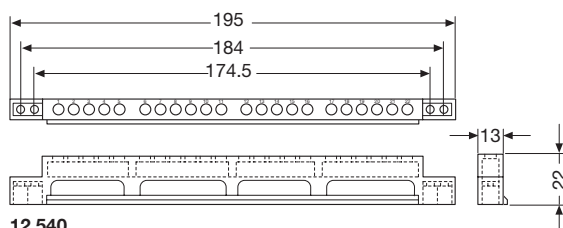
Terminal holders



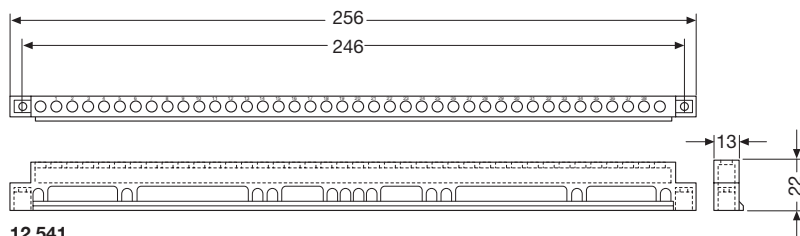
12 538



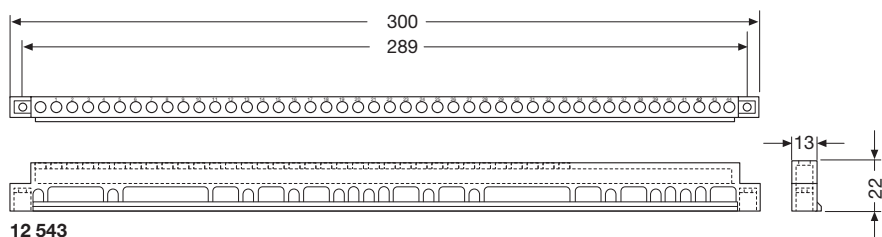
12 539



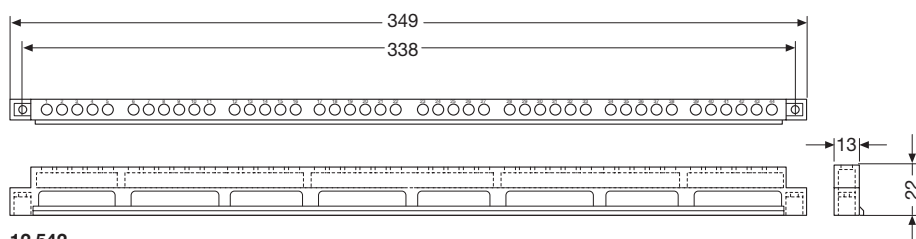
12 540



12 541



12 543

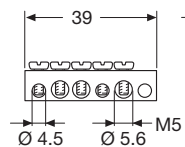


12 542

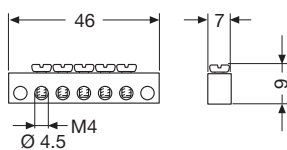
Overall dimensions

Accessories

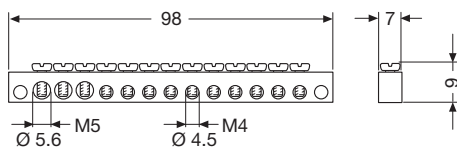
Terminal bars



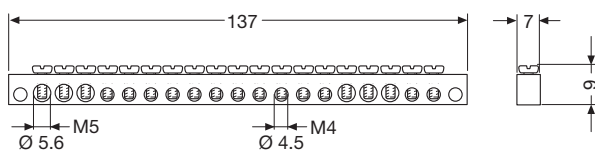
12 502



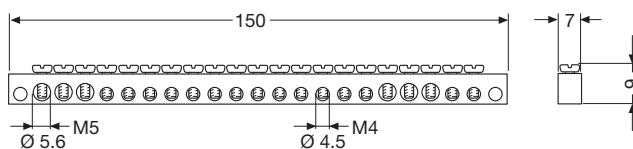
12 531



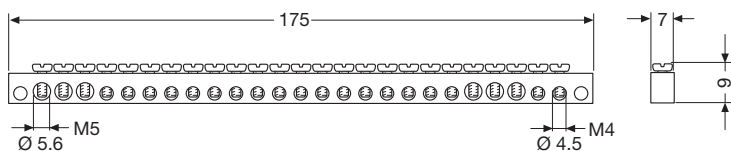
12 532



12 533



12 534



12 535



Code list

Code list

Code	Chapter/Page	Code	Chapter/Page	Code	Chapter/Page
00 050	7/8	00 904	6/11	05 720	8/10
00 051	7/8	00 908	6/11	05 721	8/10
00 052	7/8	00 910	6/11	05 722	8/10
00 053	7/8	00 912	6/11	05 723	8/10
00 054	7/8	00 931	6/10	05 727	8/11
00 055	7/9	00 932	6/10	05 730	8/11
00 056	7/9	00 933	6/10	05 731	8/11
00 059	7/9	00 934	6/10	05 732	8/11
00 070	7/8	00 935	6/10	05 733	8/11
00 071	7/8	00 936	6/10	05 734	8/11
00 072	7/8	00 937	6/10	05 735	8/11
00 073	7/8	00 938	6/10	05 736	8/11
00 074	7/8	00 941	6/10	05 737	8/11
00 075	7/8	00 942	6/10	05 738	8/11
00 076	7/8	00 943	6/10	05 739	8/11
00 077	7/8	00 944	6/10	05 740	8/11
00 078	7/8	00 945	6/10	05 741	8/11
00 090	7/9	00 946	6/10	05 745	8/11
00 091	7/9	00 947	6/10	05 746	8/11
00 092	7/9	00 948	6/10	05 747	8/11
00 093	7/9	00 951	6/10	05 748	8/11
00 094	7/9	00 952	6/10	05 749	8/11
00 095	7/9	00 953	6/10	05 750	8/11
00 096	7/9	00 954	6/10	05 751	8/11
00 097	7/9	00 955	6/10	05 752	8/11
00 098	7/9	00 956	6/10	05 753	8/11
00 430	6/11	00 957	6/10	05 754	8/11
00 431	6/11	00 958	6/10	05 755	8/11
00 432	6/11	00 961	6/10	05 756	8/11
00 433	6/11	00 962	6/10	05 760	8/10
00 434	6/11	00 963	6/10	05 761	8/10
00 435	6/11	00 964	6/10	05 762	8/10
00 800	6/6	00 965	6/10	05 763	8/10
00 802	6/6	00 966	6/10	05 764	8/10
00 808	6/6	00 967	6/10	05 765	8/10
00 810	6/6	00 968	6/10	05 770	8/11
00 816	6/7	05 210	8/3	05 771	8/11
00 820	6/7	05 694	8/10	05 772	8/11
00 821	6/7	05 695	8/10	05 773	8/11
00 822	6/7	05 696	8/10	05 774	8/11
00 846	6/7	05 697	8/10	05 775	8/11
00 850	6/7	05 698	8/10	05 776	8/11
00 851	6/7	05 700	8/10	05 777	8/11
00 852	6/7	05 701	8/10	05 778	8/11
00 872	6/7	05 702	8/10	05 779	8/11
00 900	6/11	05 703	8/10	05 780	8/11
00 902	6/11	05 704	8/10	05 781	8/11

Code list

Code	Chapter/Page	Code	Chapter/Page	Code	Chapter/Page
05 782	8/11	12 038	2/12	12 452	2/30
05 783	8/11	12 042	2/12	12 454	2/30
05 784	8/11	12 043	2/13	12 456	2/31
05 788	8/11	12 044	2/13	12 457	2/31
05 789	8/11	12 046	2/13	12 468	2/30
05 790	8/11	12 051	2/15	12 472	2/30
05 791	8/11	12 053	2/15	12 474	2/30
05 792	8/11	12 055	2/15	12 476	2/31
05 793	8/11	12 058	2/18	12 477	2/31
05 794	8/11	12 060	2/15	12 490	2/38 - 2/58 - 5/9 - 6/16
05 795	8/11	12 062	2/18	12 491	2/38 - 2/52 - 2/58 - 5/9 - 6/16
05 796	8/11	12 064	2/18	12 492	2/8 - 2/14 - 2/20 - 2/26 - 2/32
05 950	8/11	12 066	2/19		2/38 - 2/52 - 2/58 - 5/9 - 5/13
05 951	8/11	12 068	2/19		6/16
05 952	8/11	12 074	2/21 - 2/33	12 493	2/38 - 2/52 - 2/58 - 5/9 - 6/16
10 801	7/4	12 075	2/21 - 2/33	12 494	2/38 - 2/52 - 2/58 - 5/9 - 6/16
10 802	7/4	12 076	2/21 - 2/33	12 495	2/8 - 2/14 - 2/20 - 2/26 - 2/32
10 803	7/4	12 077	2/21 - 2/33	12 497	2/32 - 2/38 - 2/58 - 5/9 - 6/16
10 804	7/4	12 089	2/21	12 498	2/58 - 5/13
10 805	7/4	12 096	2/33	12 501	2/26
10 807	7/4	12 208	2/24	12 502	2/43
10 808	7/4	12 212	2/24	12 503	2/14
10 811	7/4	12 214	2/24	12 504	2/8 - 2/14 - 2/20 - 2/26 - 2/32
10 821	7/4	12 216	2/25	12 505	2/8 - 2/14 - 2/20 - 2/26 - 2/32
10 822	7/4	12 217	2/25	12 506	2/8 - 2/20
10 831	7/4	12 238	2/24	12 507	2/58
10 832	7/4	12 242	2/24	12 511	2/9 - 2/27
10 833	7/4	12 244	2/24	12 512	2/9 - 2/27
10 834	7/4	12 246	2/25	12 513	2/9 - 2/27
10 840	7/5	12 247	2/25	12 514	2/9 - 2/27
10 841	7/5	12 258	2/24	12 515	2/9 - 2/27
10 842	7/5	12 262	2/24	12 521	2/9 - 2/27
10 843	7/5	12 264	2/24	12 522	2/9 - 2/27
10 844	7/5	12 266	2/25	12 523	2/9 - 2/27
10 845	7/5	12 267	2/25	12 524	2/9 - 2/27
10 846	7/5	12 362	2/62	12 525	2/9 - 2/27
10 847	7/5	12 363	2/62	12 530	2/9 - 2/27
10 848	7/5	12 364	2/62	12 531	2/8 - 2/14 - 2/20 - 2/26 - 2/32
10 849	7/5	12 422	2/42		2/38 - 2/52 - 2/58 - 5/9 - 5/13 - 6/16
10 850	7/5	12 424	2/42	12 532	2/8 - 2/14 - 2/20 - 2/26 - 2/32
10 851	7/5	12 426	2/42		2/38 - 2/52 - 2/58 - 5/9 - 5/13 - 6/16
12 026	2/18	12 428	2/30	12 533	2/8 - 2/14 - 2/20 - 2/26 - 2/32
12 027	2/18	12 432	2/30		2/38 - 2/52 - 2/58 - 5/9 - 5/13 - 6/16
12 030	2/18	12 434	2/30	12 534	2/8 - 2/14 - 2/20 - 2/26 - 2/32
12 031	2/19	12 436	2/31		2/38 - 2/52 - 2/58 - 5/9 - 5/13 - 6/16
12 035	2/19	12 437	2/31	12 535	2/8 - 2/14 - 2/20 - 2/26 - 2/32
12 037	2/12	12 448	2/30		2/38 - 2/52 - 2/58 - 5/9 - 5/13 - 6/16

Code list

Code	Chapter/Page	Code	Chapter/Page	Code	Chapter/Page
12 538	2/38 - 2/58 - 5/9 - 6/16	12 646	2/46	12 792	5/4
12 539	2/38 - 2/52 - 2/58 - 5/9 - 6/16	12 650	2/46	12 794	5/5
12 540	2/8 - 2/14 - 2/20 - 2/26 - 2/32	12 652	2/46	12 796	5/5
	2/38 - 2/52 - 2/58 - 5/9 - 5/13 - 6/16	12 654	2/46	12 798	5/5
12 541	2/8 - 2/14 - 2/20 - 2/26 - 2/32	12 658	2/62	12 804	6/14
12 542	2/8 - 2/14 - 2/20 - 2/26	12 659	2/62	12 808	6/14
12 543	2/32 - 2/38 - 2/58 - 5/9	12 660	2/62	12 812	6/14
	5/13 - 6/16	12 696	2/47 - 2/63	12 814	6/14
12 550	2/27	12 697	2/47 - 2/63	12 816	6/14
12 556	2/27	12 698	2/47 - 2/63	12 818	6/14
12 565	2/53	12 702	2/36	12 820	5/6
12 566	2/53	12 704	2/36	12 821	5/6
12 567	2/53	12 708	2/36	12 822	5/6
12 568	2/59 - 5/8	12 712	2/36	12 825	5/6
12 569	2/59 - 5/8	12 714	2/37	12 826	5/6
12 570	2/59 - 5/8	12 716	2/37	12 827	5/6
12 571	2/59 - 5/8	12 718	2/37	12 828	8/3
12 572	2/59 - 5/8	12 722	2/50	12 829	8/3
12 573	2/59 - 5/8	12 724	2/56	12 832	5/6 - 6/15
12 577	2/53	12 728	2/56	12 834	5/6 - 6/15
12 578	2/59	12 732	2/56	12 835	5/6 - 6/15
12 579	2/59	12 733	2/56	12 836	5/6 - 6/15
12 580	2/59	12 734	2/57	12 837	5/6 - 6/15
12 581	2/59	12 735	2/57	12 838	5/6 - 6/15
12 582	2/59	12 736	2/57	12 839	8/2
12 583	2/59	12 738	2/57	12 840	8/2
12 584	2/59	12 742	2/50	12 841	8/2
12 585	2/59	12 743	2/50	12 842	5/6 - 6/15
12 586	2/59	12 744	2/56	12 844	5/6 - 6/15
12 587	2/59	12 745	2/50	12 845	5/6 - 6/15
12 590	2/39 - 2/59 - 5/8 - 6/17	12 746	2/51	12 846	5/6 - 6/15
12 591	2/39 - 2/53 - 2/59 - 5/8 - 6/17	12 747	2/51	12 847	5/6 - 6/15
12 592	2/39 - 2/53 - 2/59 - 5/8 - 6/17	12 748	2/56	12 848	5/6 - 6/15
12 593	2/39 - 2/53 - 2/59 - 5/8	12 752	2/56	12 849	8/2
	5/14 - 6/15	12 753	2/56	12 850	8/2
12 594	2/39 - 2/53 - 2/59 - 5/8	12 754	2/57	12 851	5/8
	5/14 - 6/17	12 755	2/57	12 852	5/6 - 6/15
12 595	2/39 - 2/59 - 5/8 - 5/14 - 6/17	12 756	2/57	12 853	8/2
12 596	2/59	12 758	2/57	12 854	5/6 - 6/15
12 597	2/59	12 764	5/4	12 855	5/6 - 6/15
12 598	5/14	12 768	5/4	12 856	5/6 - 6/15
12 599	5/14	12 772	5/4	12 858	2/39 - 2/47 - 2/53 - 2/59 - 3/6
12 600	2/39 - 2/53 - 2/59 - 5/8 - 6/17	12 774	5/5		5/7 - 5/14 - 6/15
12 601	2/39 - 2/53 - 2/59 - 5/8	12 776	5/5	12 860	2/9 - 2/15 - 2/21 - 2/33 - 2/39
	5/15 - 6/17	12 778	5/5		2/43 - 2/53
12 602	2/39 - 2/59 - 5/8 - 5/15 - 6/17	12 784	5/4	12 861	2/21 - 2/33 - 2/39 - 2/43 - 2/47
12 644	2/46	12 788	5/4		2/53 - 2/59 - 2/63 - 5/7 - 5/15

Code list

Code	Chapter/Page	Code	Chapter/Page	Code	Chapter/Page
12 863	2/21 - 2/33 - 2/39 - 2/43 - 2/47 2/53 - 2/59 - 2/63	13 876	6/11	18 250	8/6
12 863	5/7 - 5/15	18 010	8/5	18 251	8/6
12 864	2/33	18 011	8/5	18 252	8/6
12 865	2/47 - 2/63	18 012	8/5	18 253	8/6
12 866	2/53 - 59 - 5/7 - 5/15	18 013	8/5	18 270	8/6
12 867	2/21	18 014	8/5	18 280	8/6
12 869	2/15	18 015	8/5	18 282	8/7
12 880	2/47	18 017	8/5	18 290	8/7
12 882	2/47	18 018	8/5	18 370	8/5
12 884	2/47	18 020	8/5	18 372	8/5
12 886	2/47	18 024	8/5	18 374	8/5
12 892	8/3	18 026	8/5	18 376	8/5
12 893	8/3	18 028	8/5	18 380	8/5
12 894	5/7 - 5/14 - 6/17	18 034	8/5	18 382	8/5
12 895	2/15	18 036	8/5	18 384	8/5
12 896	2/15	18 038	8/5	18 386	8/5
13 140	3/5	18 060	8/5	18 405	8/8
13 141	3/5	18 061	8/5	18 406	8/8
13 143	3/4	18 062	8/5	18 408	8/8
13 144	3/4	18 063	8/5	18 410	8/8
13 150	3/5	18 064	8/5	18 415	8/8
13 151	3/5	18 110	8/5	18 416	8/8
13 153	3/4	18 111	8/5	18 418	8/8
13 154	3/4	18 112	8/5	18 420	8/8
13 160	3/5	18 113	8/5	18 430	8/8
13 161	3/4	18 114	8/5	18 432	8/8
13 164	3/5	18 115	8/5	18 434	8/8
13 165	3/4	18 117	8/5	18 436	8/8
13 170	3/4	18 118	8/5	18 440	8/8
13 171	3/4	18 120	8/5	18 450	8/8
13 174	3/4	18 124	8/5	18 452	8/8
13 175	3/4	18 126	8/5	18 454	8/8
13 180	3/4	18 128	8/5	18 456	8/8
13 183	3/4	18 134	8/5	18 458	8/8
13 186	3/6	18 136	8/5	18 460	8/9
13 187	3/6	18 138	8/5	18 461	8/9
13 188	3/6	18 160	8/5	18 464	8/9
13 189	3/6	18 161	8/5	18 465	8/9
13 190	3/6	18 162	8/5	18 466	8/9
13 200	5/12	18 163	8/5	18 467	8/9
13 204	5/12	18 164	8/5	18 470	8/9
13 205	5/12	18 210	8/5	18 471	8/9
13 206	5/12	18 212	8/5	18 472	8/9
13 208	5/12	18 218	8/5	18 473	8/9
13 874	6/11	18 220	8/5	18 476	8/9
13 875	6/11	18 222	8/5	18 477	8/9
		18 224	8/5	18 478	8/9

Code list

Code	Chapter/Page	Code	Chapter/Page	Code	Chapter/Page
18 479	8/9	1SL0537A00	2/6	1SL0878A00	6/6
18 486	8/9	1SL0539A00	2/12	1SL0880A00	6/7
18 487	8/9	1SL0541A00	2/13	1SL0882A00	6/7
18 488	8/9	1SL0542A00	2/6	1SL0884A00	6/7
18 489	8/9	1SL0543A00	2/6	1SL0890A00	6/4
18 490	8/9	1SL0546A00	2/13	1SL0891A00	6/4
18 492	8/9	1SL0547A00	2/13	1SL0900A00	6/8
18 494	8/9	1SL0550A00	2/39 - 2/53 - 2/59	1SL0901A00	6/8
18 496	8/9		5/8 - 6/17	1SL0902A00	6/8
1SL0060A00	7/8	1SL0551A00	2/39 - 2/53 - 2/59 - 5/8	1SL0903A00	6/8
1SL0061A00	7/8		5/15 - 6/17	1SL0904A00	6/9
1SL0062A00	7/8	1SL0552A00	2/39 - 2/59 - 5/8	1SL0905A00	6/9
1SL0063A00	7/8		5/15 - 6/17	1SL0906A00	6/9
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1SL0503A00	2/7	1SL0566A00	2/18	1SL0920A00	6/8
1SL0503A06	2/7	1SL0567A00	2/18	1SL0921A00	6/8
1SL0504A00	2/7	1SL0568A00	2/18	1SL0922A00	6/8
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1SL0510A00	2/6	1SL0816A00	6/6	1SL0926A00	6/8
1SL0510A06	2/6	1SL0820A00	6/6	1SL0928A00	6/8
1SL0511A00	2/6	1SL0821A00	6/6	1SL0930A00	6/9
1SL0511A06	2/6	1SL0822A00	6/6	1SL0932A00	6/9
1SL0512A00	2/6	1SL0824A00	6/6	1SL0934A00	6/9
1SL0512A06	2/6	1SL0826A00	6/6	1SL0946A00	6/8
1SL0513A00	2/7	1SL0828A00	6/6	1SL0950A00	6/8
1SL0513A06	2/7	1SL0830A00	6/7	1SL0951A00	6/8
1SL0514A00	2/7	1SL0832A00	6/7	1SL0952A00	6/8
1SL0514A06	2/7	1SL0834A00	6/7	1SL0954A00	6/8
1SL0520A00	2/12	1SL0846A00	6/6	1SL0956A00	6/8
1SL0521A00	2/6 - 2/12 - 2/18	1SL0850A00	6/6	1SL0958A00	6/8
1SL0522A00	2/6 - 2/12 - 2/18	1SL0851A00	6/6	1SL0960A00	6/9
1SL0523A00	2/13	1SL0852A00	6/6	1SL0962A00	6/9
1SL0524A00	2/6 - 2/13 - 2/18	1SL0854A00	6/6	1SL0964A00	6/9
1SL0527A00	2/9 - 2/15 - 2/21	1SL0856A00	6/6	1SL0972A00	6/8
1SL0528A00	2/9 - 2/15 - 2/21	1SL0858A00	6/6	1SL0974A00	6/8
1SL0529A00	2/9 - 2/15 - 2/21	1SL0860A00	6/7	1SL0976A00	6/8
1SL0531A00	2/12	1SL0862A00	6/7	1SL0978A00	6/8
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1SL0533A00	2/6	1SL0872A00	6/6	1SL0982A00	6/9
1SL0535A00	2/12	1SL0874A00	6/6	1SL0984A00	6/7
1SL0536A00	2/6	1SL0876A00	6/6	1SL2024A00	2/12

Code list

Code	Chapter/Page	Code	Chapter/Page	Code	Chapter/Page
1SL2028A00	2/12	1SL2447A00	2/31	ED3066	4/5
1SL2032A00	2/12	1SL2447A07	2/31	ED3082	4/6
1SL2033A00	2/13	1SL2458A00	2/30	ED3090	4/6
1SL2034A00	2/13	1SL2458A06	2/30	ED3101	4/6
1SL2036A00	2/13	1SL2462A00	2/30	ED3102	4/6
1SL2040A00	2/18	1SL2462A06	2/30	ED3103	4/6
1SL2040A06	2/18	1SL2464A00	2/30	ED3104	4/6
1SL2041A00	2/18	1SL2464A13	2/30	ED3108	4/5
1SL2041A06	2/18	1SL2466A00	2/31	ED3116	4/5
1SL2045A00	2/18	1SL2466A14	2/31	ED3124	4/5
1SL2045A13	2/18	1SL2467A00	2/31	ED3132	4/5
1SL2048A00	2/19	1SL2467A07	2/31	ED3272	4/5
1SL2048A14	2/19	1SL2857A00	2/9 - 2/15 - 2/21 - 2/27 2/33 - 2/43	ED3280	4/5
1SL2052A00	2/19	1SL2859A00	2/9 - 2/15 - 2/21 - 2/27 2/33 - 2/43	ED3298	4/5
1SL2052A06	2/19			ED3355	4/5
1SL2057A00	2/18			ED3363	4/5
1SL2057A06	2/18	1SL2868A00	2/15	ED3371	4/5
1SL2061A00	2/18	2CSE2240EL	6/20	ED3405	4/6
1SL2061A06	2/18	2CSE2340EL	6/20	ED3413	4/6
1SL2063A00	2/18	2CSE2440EL	6/20	ED3439	4/6
1SL2063A13	2/18	2CSE2840EL	6/20	M12238000U	2/24
1SL2065A00	2/19	2CSE2255EL	6/20	M12242000A	2/24
1SL2065A14	2/19	2CSE2355EL	6/20	M12244000U	2/24
1SL2067A00	2/19	2CSE2455EL	6/20	M12246000U	2/25
1SL2067A06	2/19	2CSE2855EL	6/20	M12247000U	2/25
1SL2078A00	2/21 - 2/33	2CSK2140CH	6/20	M12258000U	2/24
1SL2079A00	2/21 - 2/33	2CSK2240CH	6/20	M12262000A	2/24
1SL2080A00	2/21 - 2/33	2CSK2340CH	6/20	M12264000U	2/24
1SL2081A00	2/21 - 2/33	2CSK2440CH	6/20	M12266000U	2/25
1SL2088A00	2/21	2CSK2155CH	6/20	M12267000U	2/25
1SL2095A00	2/33	2CSK2255CH	6/20		
1SL2402A00	2/42	2CSK2355CH	6/20		
1SL2404A00	2/42	2CSK2455CH	6/20		
1SL2406A00	2/42	ED0025	4/5		
1SL2408A00	2/30	ED0026	4/5		
1SL2412A00	2/30	ED2944	4/5		
1SL2414A00	2/30	ED2951	4/5		
1SL2416A00	2/31	ED2969	4/5		
1SL2417A00	2/31	ED2977	4/5		
1SL2438A00	2/30	ED2985	4/5		
1SL2438A06	2/30	ED2993	4/5		
1SL2442A00	2/30	ED3009	4/5		
1SL2442A06	2/30	ED3017	4/5		
1SL2444A00	2/30	ED3025	4/5		
1SL2444A13	2/30	ED3033	4/5		
1SL2446A00	2/31	ED3041	4/5		
1SL2446A14	2/31	ED3058	4/5		

Notes

Notes

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