

Modular Enclosures



E Modular Enclosures

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PB100412



10205

PB100413



10206

Function

The Micro Pragma is a multi-function enclosure.

It is used indoors, in housing and in commercial building sector, for new and renovated installations.

Description

Technical data

- Material:
 - Self-extinguishing insulating material
 - Fire and abnormal heat withstand: 650°C / 30s as per IEC 60695-2-1
 - colour: white Ral 9003
- Compliance with standards:
 - complies with IEC 60439-3 (EN 60-439-3)
 - IMQ approved as per italian standard IEC 23-48.
- Degree of protection:
 - as per IEC 60529: IP 40 (protection against solids and liquids penetration)
 - as per EN 50-102: IK 07 (protection against mechanical impacts).

Composition

The Micro Pragma is made up of:

- A back including a symmetrical DIN rail
- Pre-punchouts on the 4 sides
- A sealable reversible cover equipped with built-in blanking plates.

Catalogue numbers

Numbers of rows	Capacity		Dimensions (mm)			Cat. no.
	in modules of 9 mm	modules of 18 mm	H	W	D	
1	4	2	130	51	60	10205
1	8	4	130	88	60	10206
1	12	6	165	140	72	10207
1	16	8	200	198	72	10208

Modular Enclosures

Pragma mini-enclosures

Mini Pragma

Surface mounting enclosures

Offer: with earth + neutral terminal block



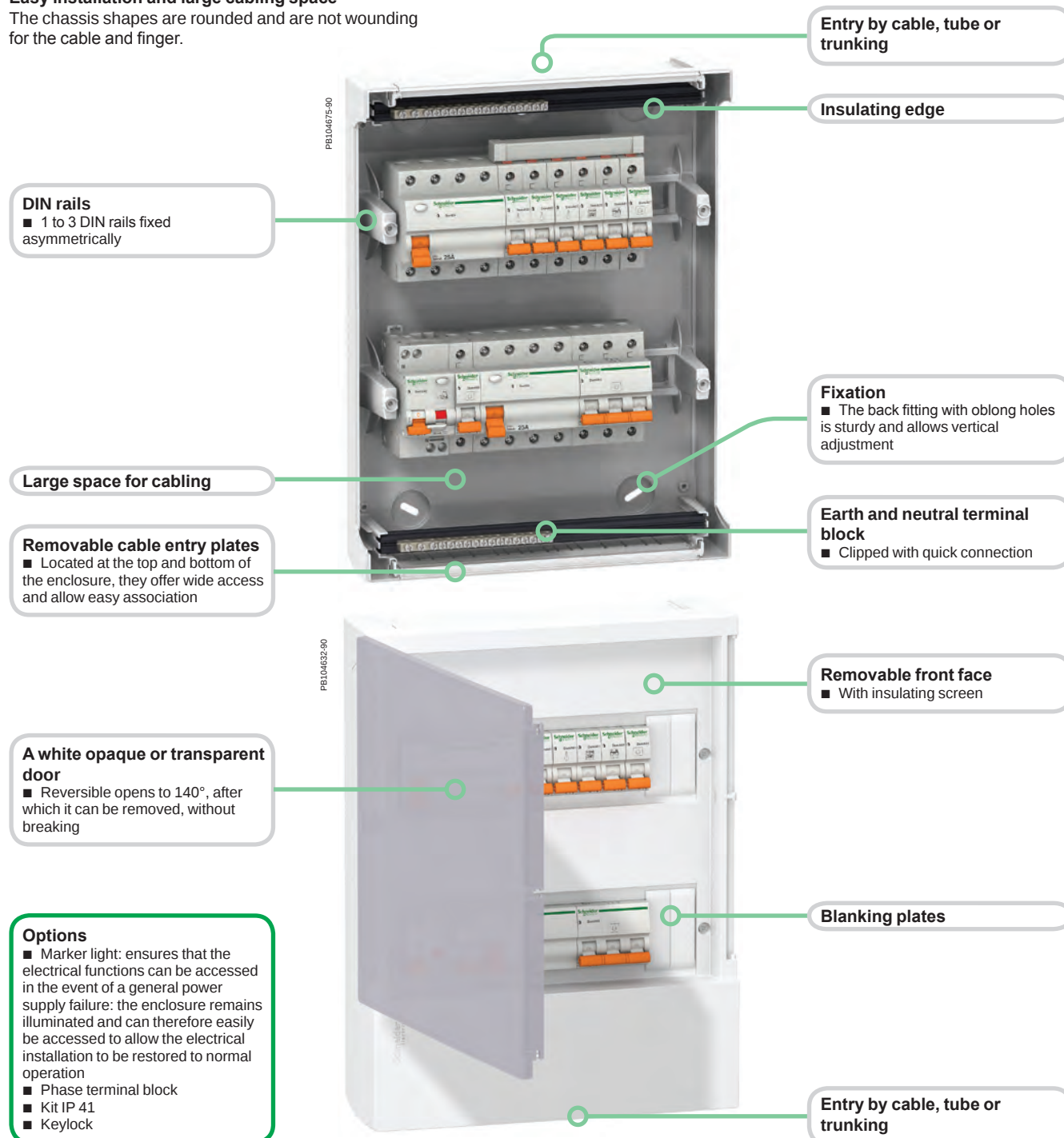
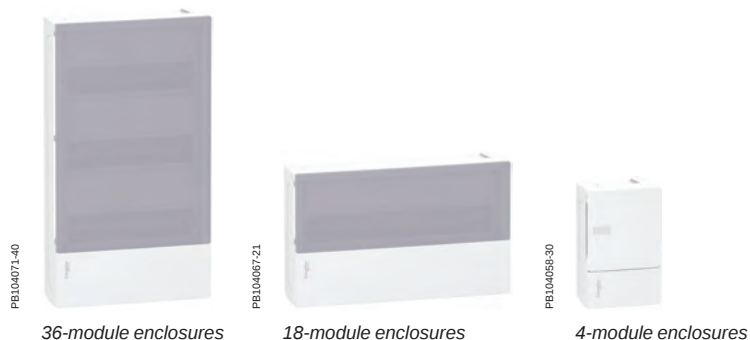
Mini Pragma is a robust modular enclosure (IK 07), aesthetic with innovative design; it is highly suitable for a living environment integration. It offers great security (IP 40, IP 41, with accessory) thanks to the front face with a white opaque or transparent door models on all models.

The surface mounting enclosures

The range consists of enclosures with a width of 4, 6, 8, 12, 18, 24 or 36- module of 18 mm, of 1, 2 or 3-row ready-to-use; designed for electricians: ergonomic design and flexibility of installation.

Easy installation and large cabling space

The chassis shapes are rounded and are not wounding for the cable and finger.





A range of 18 mm, 1, 2 or 3-row 4, 6, 8, 12, 18, 24 or 36-module ready-to-use enclosures designed for electricians: ergonomic design and flexibility of installation.

Function

This distribution or sub-distribution enclosure, up to 63 A, is designed for installing electrical switchboards in new or renovated installations in the housing sector.

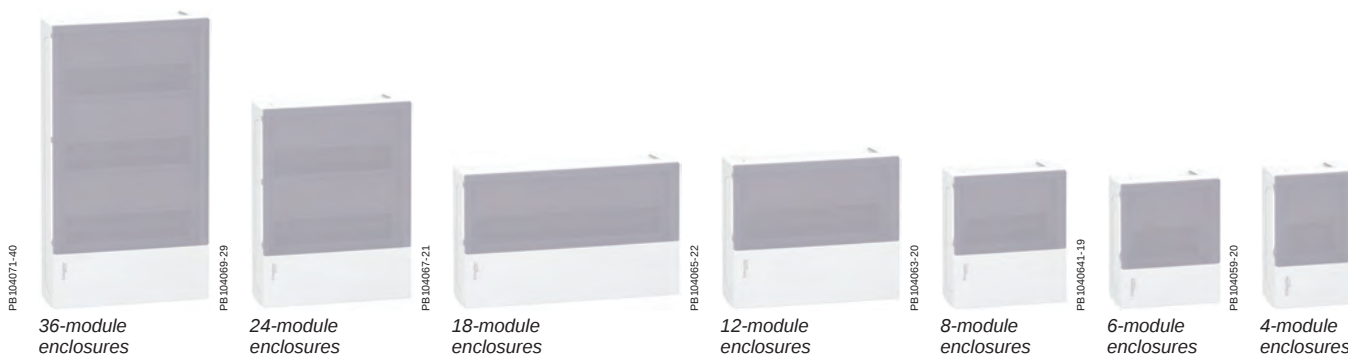
Description

The surface mounting Mini Pragma consists of:

- a back with:
 - a centered slot to facilitate installation
 - fixing holes for vertical adjustment.
- the necessitate for entry cables:
 - two removable cable entry plates at the top and bottom
 - punch-outs
 - a large area for drilling (crown saw, punches)
- 1 to 3 DIN rails fixed asymmetrically onto the back
- a reversible front face, fitted with pre-cutout blanking plates
- a white opaque or transparent door.
- an earth terminal block and a neutral terminal block

Enclosure colour: White RAL 9003.

This enclosure can be equipped with a marker light, available in accessories. It allows locating the enclosure in the dark during a power failure.



Smoked transparent door.



White door.

Technical data

Enclosures

Compliance with standards		IEC 60439-3, IEC 60529, IEC 60695-2-11, EN 50102, IEC 60670-24
Rated current (In)	4-module enclosure	50 A
	6 to 36-module enclosures	63 A
Rated insulation voltage (Ui)		< 400 V
Insulation		Class 2 (to IEC 60439-3)
Degree of protection	To IEC 60529	IP 40
	Against mechanical impacts	IK 07
Materials		Self-extinguishing technoplastic (1): resistant to fire and abnormal heat 650°C to IEC 60695-2-11

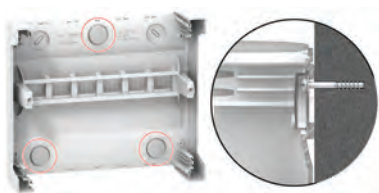
(1) Technoplastic material specially developed by Schneider Electric.

PB104059-35



MIP12104T

PB104650-30



Insulating plug

PB104657-37



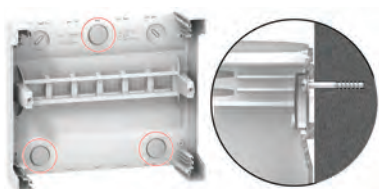
MIP99030

PB104059-35



MIP10104T

PB104650-30



Insulating plug

Catalogue numbers offer: with earth + neutral terminal block

White enclosures				Cat. no.	
Number of rows	Number of modules per row	Capacity in 18 mm modules	Rated current In (A)	With solid white door	With smoked transparent door
1	4	4	50	MIP12104	MIP12104T
	6	6	63	MIP12106	MIP12106T
	8	8	63	MIP12108	MIP12108T
	12	12	63	MIP12112	MIP12112T
	18	18	63	MIP12118	MIP12118T
2	12	24	63	MIP12212	MIP12212T
3	12	36	63	MIP12312	MIP12312T

Components delivered with each enclosure

Type	
Insulating plug (pack of 4)	To be placed over the back fixing screws to obtain class 2 insulation
Identification strip for each row	To be glued onto the front panel
Two terminal block supports	
Two earth/neutral terminal blocks	Supplied with the 4 or 6-module enclosure 2 x (1 x 16 [□] + 2 x 10 [□] + 1 x 6 [□])
	Supplied with the 8 or 12-module enclosure 2 x (1 x 16 [□] + 4 x 10 [□] + 3 x 6 [□])
	Supplied with the 18 or 24-module enclosure 2 x (2 x 16 [□] + 8 x 10 [□] + 6 x 6 [□])
	Supplied with the 36-module enclosure 2 x (2 x 16 [□] + 9 x 10 [□] + 9 x 6 [□])
Blanking plates (packs of 10)	Clipped on the front face

Catalogue numbers offer: without earth + neutral terminal block

White enclosures				Cat. no.	
Number of rows	Number of modules per row	Capacity in 18 mm modules	Rated current In (A)	With solid white door	With smoked transparent door
1	4	4	50	MIP10104	MIP10104T
	6	6	63	MIP10106	MIP10106T
	8	8	63	MIP10108	MIP10108T
	12	12	63	MIP10112	MIP10112T
	18	18	63	MIP10118	MIP10118T
2	12	24	63	MIP10212	MIP10212T
3	12	36	63	MIP10312	MIP10312T

Components delivered with each enclosure

Type	
Insulating plug (pack of 4)	To be placed over the back fixing screws to obtain class 2 insulation
Identification strip for each row	To be glued onto the front panel
Blanking plates (packs of 10)	Clipped on the front face

Modular Enclosures

Pragma mini-enclosures

Mini Pragma

Flush mounting enclosures

Offer: with earth + neutral terminal block



Mini Pragma is a robust modular enclosure (IK 07), aesthetic with innovative design; it is highly suitable for a living environment integration. It offers great security (IP 40, IP 41, with accessory) thanks to the front face with a white opaque or transparent door models on all models.

The flush mounting enclosures

The range consists of enclosures with a width of 4, 6, 8, 12, 18, 24 or 36- module of 18 mm, of 1, 2 or 3-row ready-to-use; designed for electricians: ergonomic design and flexibility of installation.

Easy installation and large cabling space

The chassis shapes are rounded and are not wounding for the cable and finger.



36-module enclosures



18-module enclosures



4-module enclosures

Base

- With pre-holes on the 4 sides for entry tubes
- Clamping leg for hollow partition
- Carton protection for installation in masonry

Entry by cable, tube or trunking

Removable chassis

- For table-top installation, as well as the possibility of adjustment for correct horizontal and vertical positioning (flush-mounted version)

Large space for cabling

Earth and neutral terminal block

- Clipped with quick connection

A white opaque or transparent door

- Reversible opens to 140°, after which it can be removed, without breaking

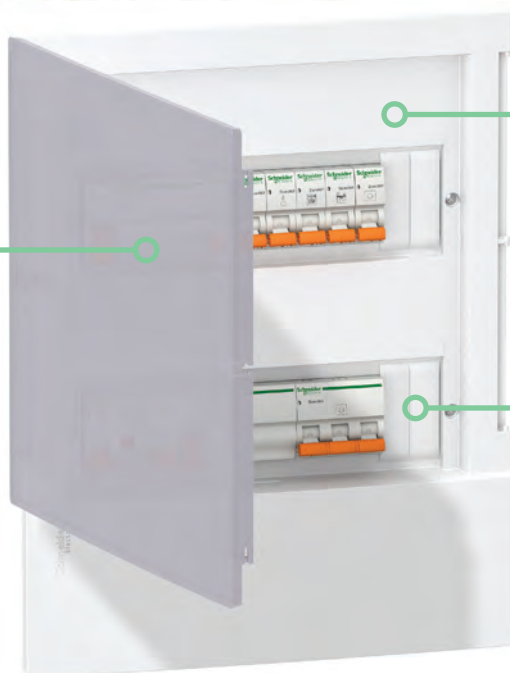
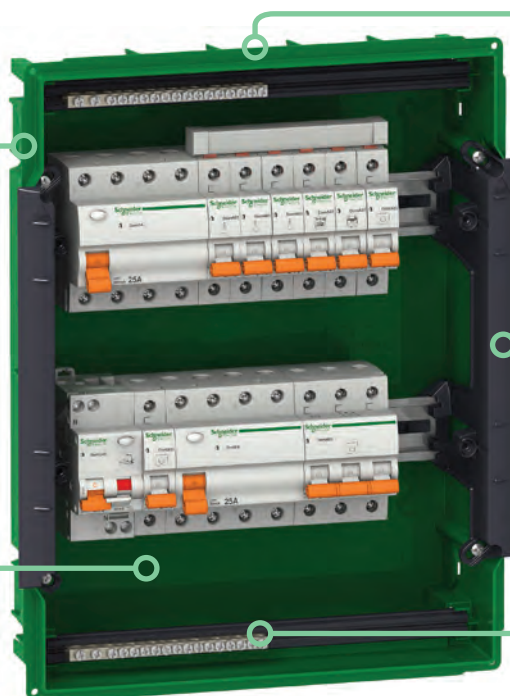
Removable front face

- With insulating screen
- 5 colours available:
 - ☐ white
 - ☐ ivory
 - ☐ garnet red
 - ☐ pistachio green
 - ☐ misty grey

Options

- Marker light: ensures that the electrical functions can be accessed in the event of a general power supply failure: the enclosure remains illuminated and can therefore easily be accessed to allow the electrical installation to be restored to normal operation
- Phase terminal block
- Kit IP 41
- Keylock

Blanking plates



A range of 18 mm, 1, 2 or 3-row 4, 6, 8, 12, 18, 24 or 36-module ready-to-use enclosures designed for electricians: ergonomic design and flexibility of installation.

Function

This distribution or sub-distribution enclosure, up to 63 A, is designed for installing electrical switchboards in new or renovated installations in the housing sector.

Description

Two choices are possible:

Offer to compose

This offer can compose the enclosures according to their own preference, based on a choice of 5 colours of different front face and a large number of accessories.

OR

Offer composed

This offer allows having for a single reference a complete enclosure equipped with:

- a symmetrical back box
- robust
- depth adapted to the walls of reduced thickness
- with pre-holes for entry tubes on the 4 sides
- 1 to 3 rails DIN, chassis allows the cabling outside the back box
- a rigid and reversible white (RAL 9003) front face, fitted with pre-cutout blanking plates with white opaque or transparent door
- an earth and neutral terminal block

This enclosure can be equipped with a marker light, available in accessories. It allows locating the enclosure in the dark during a power failure.



36-module enclosures

24-module enclosures

18-module enclosures

12-module enclosures

8-module enclosures

6-module enclosures

4-module enclosures



Smoked transparent door.



White door.

Technical data

Enclosures

Compliance with standards		IEC 60439-3, IEC 60529, IEC 60695-2-11, EN 50102, IEC 60670-24
Rated current (In)	4-module enclosure	50 A
	6 to 36-module enclosures	63 A
Rated insulation voltage (Ui)		< 400 V
Insulation		Class 2 (to IEC 60439-3)
Degree of protection	To IEC 60529	IP 40
	Against mechanical impacts	IK 07
Materials		Self-extinguishing technoplastic (1): resistant to fire and abnormal heat 650°C to IEC 60695-2-11

(1) Technoplastic material specially developed by Schneider Electric.

Mini Pragma

Flush mounting enclosures

Offer: with earth + neutral terminal block



PE104087-35



MIP30104T

PB104088-35



MIP40104T

PB104089-35



MIP50104T

PB104090-35



MIP60104T

PB104091-35



MIP70104T

Offer to compose

Front face*			Cat. no.		+ Base
Number of rows	Number of modules per row	Capacity in 18 mm modules	With solid white door	With smoked transparent door	With earth + neutral terminal block
White					
1	4	4	MIP30104	MIP30104T	MIP82104
	6	6	MIP30106	MIP30106T	MIP82106
	8	8	MIP30108	MIP30108T	MIP82108
	12	12	MIP30112	MIP30112T	MIP82112
	18	18	MIP30118	MIP30118T	MIP82118
2	12	24	MIP30212	MIP30212T	MIP82212
3	12	36	MIP30312	MIP30312T	MIP82312
Ivory					
1	4	4	-	MIP40104T	MIP82104
	6	6	-	MIP40106T	MIP82106
	8	8	-	MIP40108T	MIP82108
	12	12	-	MIP40112T	MIP82112
	18	18	-	MIP40118T	MIP82118
2	12	24	-	MIP40212T	MIP82212
3	12	36	-	MIP40312T	MIP82312
Garnet red					
1	4	4	-	MIP50104T	MIP82104
	6	6	-	MIP50106T	MIP82106
	8	8	-	MIP50108T	MIP82108
	12	12	-	MIP50112T	MIP82112
	18	18	-	MIP50118T	MIP82118
2	12	24	-	MIP50212T	MIP82212
3	12	36	-	MIP50312T	MIP82312
Pistachio green					
1	4	4	-	MIP60104T	MIP82104
	6	6	-	MIP60106T	MIP82106
	8	8	-	MIP60108T	MIP82108
	12	12	-	MIP60112T	MIP82112
	18	18	-	MIP60118T	MIP82118
2	12	24	-	MIP60212T	MIP82212
3	12	36	-	MIP60312T	MIP82312
Misty grey					
1	4	4	-	MIP70104T	MIP82104
	6	6	-	MIP70106T	MIP82106
	8	8	-	MIP70108T	MIP82108
	12	12	-	MIP70112T	MIP82112
	18	18	-	MIP70118T	MIP82118
2	12	24	-	MIP70212T	MIP82212
3	12	36	-	MIP70312T	MIP82312

(*) Chassis and DIN rails delivered with the front face.

N.B.: Each part of the above references can be ordered separately

PB104073-36



MIP22104T

Composed offer is for white
color enclosures only

PB104073-36



MIP20104T

Offer composed with earth + neutral terminal block

White enclosures				Cat. no.	
Number of rows	Number of modules per row	Capacity in 18 mm modules	Rated current In (A)	With solid white door	With smoked transparent door
1	4	4	50	MIP22104	MIP22104T
	6	6	63	MIP22106	MIP22106T
	8	8	63	MIP22108	MIP22108T
	12	12	63	MIP22112	MIP22112T
	18	18	63	MIP22118	MIP22118T
2	12	24	63	MIP22212	MIP22212T
3	12	36	63	MIP22312	MIP22312T

Components delivered with each enclosure

Type	
Identification strip for each row	To be glued onto the front panel
Two terminal block supports	
Two earth/neutral terminal blocks	Supplied with the 4 or 6-module enclosure 2 x (1 x 16 ^{mm} + 2 x 10 ^{mm} + 1 x 6 ^{mm})
	Supplied with the 8 or 12-module enclosure 2 x (1 x 16 ^{mm} + 4 x 10 ^{mm} + 3 x 6 ^{mm})
	Supplied with the 18 or 24-module enclosure 2 x (2 x 16 ^{mm} + 8 x 10 ^{mm} + 6 x 6 ^{mm})
	Supplied with the 36-module enclosure 2 x (2 x 16 ^{mm} + 9 x 10 ^{mm} + 9 x 6 ^{mm})
Blanking plates (packs of 10)	Clipped on the front face

Offer composed without earth + neutral terminal block

White enclosures				Cat. no.	
Number of rows	Number of modules per row	Capacity in 18 mm modules	Rated current In (A)	Solid white door	Smoked transparent door
1	4	4	50	MIP20104	MIP20104T
	6	6	63	MIP20106	MIP20106T
	8	8	63	MIP20108	MIP20108T
	12	12	63	MIP20112	MIP20112T
	18	18	63	MIP20118	MIP20118T
2	12	24	63	MIP20212	MIP20212T
3	12	36	63	MIP20312	MIP20312T

Components delivered with each enclosure

Type	
Identification strip for each row	To be glued onto the front panel
Blanking plates (packs of 10)	Clipped on the front face

Accessories for flush mounting enclosures

Installation accessories		Cat. no.
Type	Description	
IP41 kit	White sealing kit	MIP99035
Hollow partition flush mounting kit		MIP99047
Used to secure the base of the enclosure to be flush-mounted in a hollow partition.		

PB104114-07



PB104127-20



Mini Pragma

Flush mounting enclosures

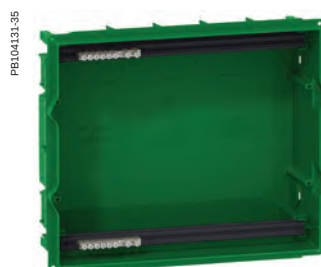
Offer: with earth + neutral terminal block



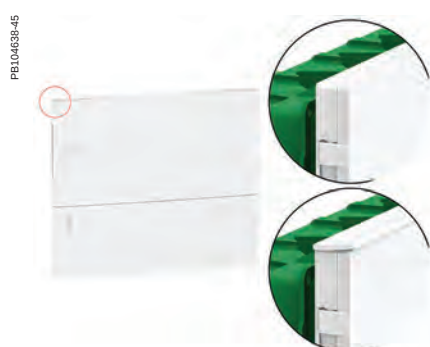
MIP80104



MIP81112



MIP82112



MIP99035

Accessories (continued)

Base only			Cat. no.
Number of rows	Number of modules per row	Capacity in 18 mm modules	
1	4	4	MIP80104
	6	6	MIP80106
	8	8	MIP80108
	12	12	MIP80112
	18	18	MIP80118
2	12	24	MIP80212
3	12	36	MIP80312

Base with earth terminal block			Cat. no.
Number of rows	Number of modules per row	Type of terminal block	
1	4	1 x 16 [□] + 2 x 10 [□] + 1 x 6 [□]	MIP81104
	6	1 x 16 [□] + 2 x 10 [□] + 1 x 6 [□]	MIP81106
	8	1 x 16 [□] + 4 x 10 [□] + 3 x 6 [□]	MIP81108
	12	1 x 16 [□] + 4 x 10 [□] + 3 x 6 [□]	MIP81112
	18	2 x 16 [□] + 8 x 10 [□] + 6 x 6 [□]	MIP81118
2	12	2 x 16 [□] + 8 x 10 [□] + 6 x 6 [□]	MIP81212
3	12	2 x 16 [□] + 9 x 10 [□] + 9 x 6 [□]	MIP81312

Base with earth/neutral terminal blocks			Cat. no.
Number of rows	Number of modules per row	Type of terminal block	
1	4	2 x (1 x 16 [□] + 2 x 10 [□] + 1 x 6 [□])	MIP82104
	6	2 x (1 x 16 [□] + 2 x 10 [□] + 1 x 6 [□])	MIP82106
	8	2 x (1 x 16 [□] + 4 x 10 [□] + 3 x 6 [□])	MIP82108
	12	2 x (1 x 16 [□] + 4 x 10 [□] + 3 x 6 [□])	MIP82112
	18	2 x (2 x 16 [□] + 8 x 10 [□] + 6 x 6 [□])	MIP82118
2	12	2 x (2 x 16 [□] + 8 x 10 [□] + 6 x 6 [□])	MIP82212
3	12	2 x (2 x 16 [□] + 9 x 10 [□] + 9 x 6 [□])	MIP82312

Other accessories

Type	Cat. no.
Flush mounting IP41 kit	MIP99035
Terminal block support (pack of 2)	MIP99036
Terminal block	1 x 16 [□] + 2 x 10 [□] + 1 x 6 [□]
	1 x 16 [□] + 4 x 10 [□] + 3 x 6 [□]
	2 x 16 [□] + 8 x 10 [□] + 6 x 6 [□]
	2 x 16 [□] + 9 x 10 [□] + 9 x 6 [□]
Earth terminal block	3 x 16 [□] + 12 x 2.5 [□]
	4 x 16 [□] + 20 x 2.5 [□]
Ph+N insulated terminal block (pack of 2)	2 x (1 x 35 [□] + 5 x 16 [□])
	2 x (1 x 35 [□] + 7 x 16 [□])
Blanking plate	5 modules
Symbol plate	Standard
	Special
Keylock	MIP99046
Hollow partition flush mounting kit	MIP99047
Marker light	MIP99050

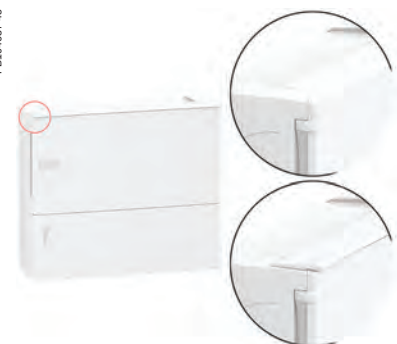
Accessories for surface mounting enclosures

Installation accessories		Cat. no.
	Kit IP41	MIP99034
	White sealing kit	

Finishing accessories		Cat. no.
Type	Description	Solid white
	4 modules	MIP99029
	6 modules	MIP99030
	8 modules	MIP99031
	12 modules	MIP99032
	18 modules	MIP99033

Accessories

Type		Cat. no.
Removable plate (pack of 2)	4 modules	MIP99029
	6 modules	MIP99030
	8 modules	MIP99031
	12 modules	MIP99032
	18 modules	MIP99033
Surface mounting IP41 kit		MIP99034
Terminal block support (pack of 2)	18 modules	MIP99036
Terminal block	1 x 16 □ + 2 x 10 □ + 1 x 6 □	MIP99037
	1 x 16 □ + 4 x 10 □ + 3 x 6 □	MIP99038
	2 x 16 □ + 8 x 10 □ + 6 x 6 □	MIP99039
	2 x 16 □ + 9 x 10 □ + 9 x 6 □	MIP99040
Earth terminal block	3 x 16 □ + 12 x 2.5 □	13409
	4 x 16 □ + 20 x 2.5 □	13410
Ph+N insulated terminal block (pack of 2)	2 x (1 x 35 □ + 5 x 16 □)	13411
	2 x (1 x 35 □ + 7 x 16 □)	13412
Blanking plate	5 modules	13387
Symbol plate	Standard	13735
	Special	13736
Keylock		MIP99046
Marker light		MIP99050



MIP99034

Mini Pragma

Surface and flush mounting enclosures



Accessories for surface and flush mounting enclosures

Connection accessories			Cat. no.
Type		Description	
Terminal block support (pack of 2)	18 modules	The terminal block support can be clipped directly onto the back at the top and bottom of the enclosure. It clips immediately into place. Moreover, an audible «click» ensures that it is in the correct position. It is sufficiently clear of the back not to impede the cable routing and to ensure easy connection. It provides: ■ a viewing angle ensuring that the cable is securely in place ■ a screwing angle ensuring that the screws are tight	MIP99036
			
Terminal block	1 x 16 □ + 2 x 10 □ + 1 x 6 □ 1 x 16 □ + 4 x 10 □ + 3 x 6 □ 2 x 16 □ + 8 x 10 □ + 6 x 6 □ 2 x 16 □ + 9 x 10 □ + 9 x 6 □	Simplifies electrical connection ■ Installation: □ clips onto the terminal block support ■ Consists of: □ captive screws supplied open □ guides making it easier to insert cables into the tunnels	MIP99037 MIP99038 MIP99039 MIP99040
			
Earth terminal block	3 x 16 □ + 12 x 2.5 □ 4 x 16 □ + 20 x 2.5 □	With screws and tool-free connection	13409 13410
			
Ph+N insulated terminal block (pack of 2)	2 x (1 x 35 □ + 5 x 16 □) 2 x (1 x 35 □ + 7 x 16 □)	Insulated up to 80 A	13411 13412
			

Accessories for enclosures (continued)

Finishing accessories		Cat. no.
Type	Description	Solid white
PB104125-20 	Used to cover empty slots ■ 5 dividable modules ■ Colour: white RAL 9003 ■ Supplied in packs of 10	13387
E45102-23 	Standard It contains self-adhesive pictograms used to identify the outgoers ■ Standard symbols: ☐ loads: power outlet, lighting, convector, etc. ☐ locations: bedroom, bathroom, etc.	13735
	Special ■ Special symbols: ☐ loads: surge arrester, gate, swimming pool, etc. ☐ locations: service room, computer room, etc.	13736
PB104126-15 	Used to protect access to the switchgear control in certain establishments, according to the regulations ■ Supplied with two metal keys ■ Fixed to the enclosure and the door after punch-out according to instructions	MIP99046
PB104073-20 	Is illuminated when the terminal block voltage of the light is 0 V. It has a continuous supercapacitor power supply that needs no battery, accumulator or maintenance ■ White LED ■ Autonomy: 20 mn ■ Light output: 5 lumens ■ Supply voltage: 240 V AC max ■ Recharge duration: 6 h ■ Service life: 15 years ■ Degree of protection: IP40, IK07 ■ Insulation class: 2 ■ Connection: 2,5 mm ² max ■ Withstand to fire and abnormal heat: 750°C	MIP99050

Modular Enclosures

Pragma mini-enclosures

Mini Pragma L Flush mounting

1 row, 8 to 12 modules

2 and 3 rows, 12 modules per row

PB101198-25



PB101199-30



PB101200-50



PB101201-70



Function

The Mini Pragma L is a distribution or subdistribution enclosure. It is used indoors, in housing and in commercial building sector, for new and renovated installations.

Description

Technical data

- Material:
 - self-extinguishing insulating material
 - fire and abnormal heat withstand: 650°C / 30 s as per IEC 60695-2-1
 - colour: white RAL 9003.
- Compliance with standards:
 - complies with IEC 60439-3 (EN 60-439-3)
 - IMQ approved as per italian standards IEC 23-48.
- Degree of protection:
 - as per IEC 60529 (protection against solids liquids penetration):
 - IP40 with door
 - IP30 without door
 - as per EN 50-102 (protection against mechanical impacts): IK07
 - protection against indirect contact: class 2 (with insulating plugs on the fixing screws).

Composition

The flush-mounted Mini Pragma L is made up of:

- A base:
 - robust
 - with depth suited to low thickness walls
- 1 to 3 metallic rails, screwed onto the back symmetrically
- a cover: reversible front face, equipped with pre-cutout blanking plates.

Accessories delivered with the enclosure

The flush-mounted Mini Pragma L is delivered with a circuit identification strip per row: to be stuck onto the front face.

Catalogue numbers

Enclosures without door

Number of rows	Capacity in modules of 9 mm	modules of 18 mm	Dimensions (mm)			Cat. no.
			H	W	D	
1	16	8	170	215	93	10675
1	24+2	12+1	185	285	93	10676
2	48	24	345	300	99	10677
3	72	36	470	300	99	10678

Accessories

Door for enclosure (Transparent - Tinted)

1 R	16	8	10334
1 R	24+2	12+1	10335
2 R	48	24	10305
3 R	72	36	10307

Blanking plates

Set of 10 blanking plates	13229
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Terminal blocks

2 terminal blocks 4 holes for Mini Pragma L flush 8 modules	10317
2 terminal blocks 8 holes for Mini Pragma L flush 12 modules	10318
2 terminal blocks 10 holes for Mini Pragma L flush 24 modules	10337
2 terminal blocks 12 holes for Mini Pragma L flush 36 modules	10338

Mini Pragma L

Surface mounting

1 row, 8 to 12 modules
2 and 3 rows, 12 modules per row



Function

The Mini Pragma L is a distribution or subdistribution enclosure. It is used indoors, in housing and in commercial building sector, for new and renovated installations.

Description

Technical data

- Material:
 - self-extinguishing insulating material
 - colour: white RAL 9003.
- compliance with standards:
 - complies with IEC (60-439-3)
 - IMQ approved as per italian standards IEC 23-48.
- Degree of protection:
 - as per IEC 60529 (protection against solids and liquids penetration):
 - IP 40 with door
 - IP 30 without door
 - as per EN 50-102 (protection against mechanical impacts): IK 07
 - protection against indirect contact: class 2 (with insulating plugs on the fixing screws).

Composition

The surface-mounted Mini Pragma L is made up of:

- A back with:
 - a centered oblong opening to simplify fitting
 - oblong fixing holes used to adjust verticality
 - all that is needed for cable inlets:
 - pre-punchouts on 4 sides for 1-row enclosures
 - a large surface area for drilling (bell shaped saw, punches) at the top and bottom of the 2-and 3-row enclosures
- 1 to 3 metallic rails, screwed onto the back symmetrically
- a cover: reversible front face, equipped with pre-cutout blanking plates.

Accessories delivered with the enclosure

The surface-mounted Mini Pragma L is delivered with:

- Insulating plugs: to be fitted on the back fixing screws to ensure class 2 insulation
- A circuit identification strip per row: to be stuck onto the front face.

Catalogue numbers

Enclosures without door

number of rows	Capacity in modules		Dimension (mm)			Cat. no.
	of 9 mm	of 18 mm	H	W	D	
1	16	8	168	215	94	10665
1	24+2	12+1	185	283	94	10666
2	48	24	326	256	101	10667
3	72	36	451	256	101	10668

Accessories

Door for enclosure (Transparent - Tinted)

1 R	16	8	10334
1 R	24+2	12+1	10335
2 R	48	24	10336
3 R	72	36	10324

Blanking plates

Set of 10 blanking plates	13229
---------------------------	-------

Terminal blocks

2 terminal blocks 4 holes for Mini Pragma L surface 8 modules	10339
2 terminal blocks 8 holes for Mini Pragma L surface 12 modules	10347
2 terminal blocks 10 holes for Mini Pragma L surface 24 modules	10348
2 terminal blocks 12 holes for Mini Pragma L surface 36 modules	10349

Modular Enclosures

Pragma enclosures

Pragma presentation

Offer: earth + neutral version

Pragma is the first modular enclosure combining ergonomics, attractive design and robustness at top level. This new enclosure, available in surface and flush-mounted versions, has class II total insulation.

The surface-mounted enclosure

The range consists of enclosures with a width of 13, 18 or 24 modules of 1 to 6 rows and interfaces of 1 to 3 rows. The entire range can be associated horizontally or vertically.

Easy installation and large cabling space

The chassis shapes are rounded and are cable friendly and finger safe.

PB101361-30



Enclosure.

PB101362-15



Interface

PB101653-32



Customisable transparent enclosure door.

Cable or tube entry

Mounting lugs

Allow rapid wall mounting.

Cut-out plates

In technoplastic, allow rear entry of cables.

Split neutral terminal block

Allows installation of a neutral terminal block between 2 rows near an RCD.

Multi-position DIN rail

2 heights and 2 depths.

Removable chassis

Simplifies the contractor's work by allowing cabling on table.

Hinges

Simple and robust, they are mounted easily on the front face of the enclosure by rotation.

NG160 switch or circuit-breaker

Installed in 24-module enclosures. Can be equipped with a Vigi module and associated with the Polybloc 160.

Asymmetrical front plate

Used to adapt to the multi-position DIN rail and offers a large marking area.

Removable cable entry plates

Located on the 4 sides of the enclosure, they offer wide access and allow easy association.

Modular earth/neutral terminal blocks with quick connection:

- on chassis
- transformable into an incoming splitter block up to 125 A
- on the back in particular in the interface
- on DIN rail.

Insulating screen

Association kit

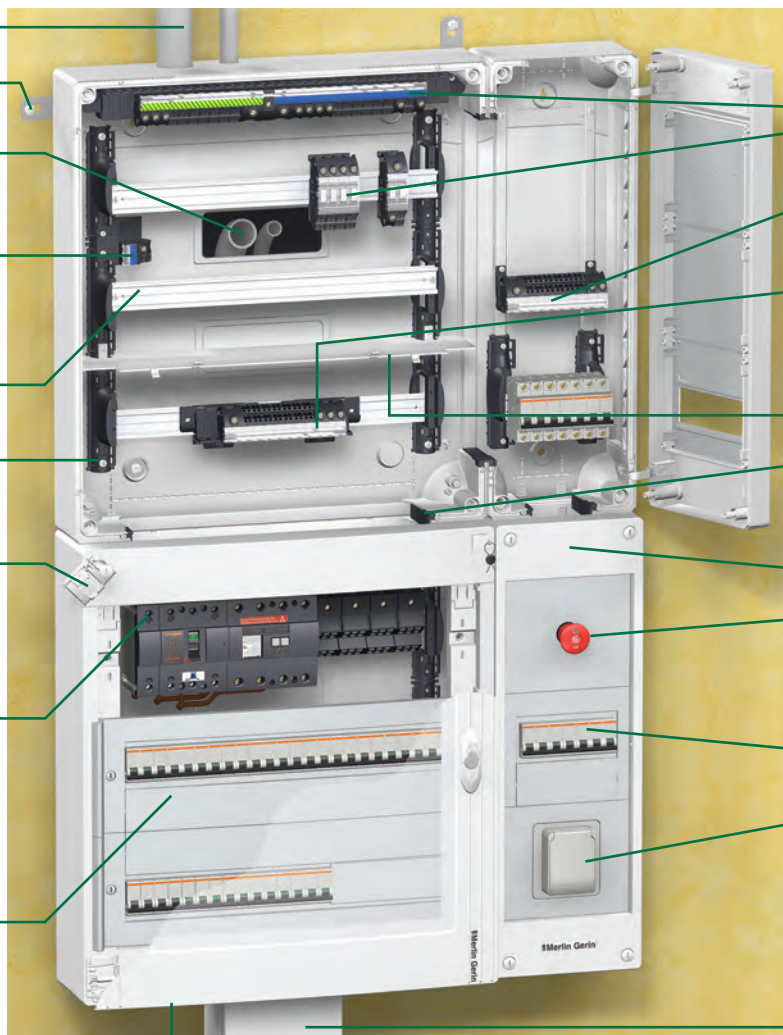
Interface

Emergency stop button and other types of buttons and indicator lights.

Modular switchgear up to 7 modules.

Plate for mounting wiring devices or industrial power outlets.

Entry by trunking



Example of 2 enclosures with a width of 24 modules of 3 rows and 2 interfaces of 3 rows, vertically associated.

The flush-mounted enclosure

The range consists of enclosures with a width of 13, 18 or 24 modules of 1 to 6 rows. The entire range can be associated horizontally or vertically.

Easy installation and large cabling space

The chassis shapes are rounded and are cable friendly and finger safe.



Enclosures.



Customisable transparent enclosure door.

Gypsum board mounting kit

Wall-mounted adjustable chassis

The chassis can be adjusted horizontally and in depth. The front face of the enclosure is always horizontal, whatever the position of the rear part flush-mounted in the wall.

Split neutral terminal block

Allows installation of a neutral terminal block between 2 rows near an RCD.

Multi-position DIN rail

2 heights and 2 depths.

Side pre-cutouts

Allow entry of cables or tubes.

Insulating screen

NG160 switch or circuit-breaker

Installed in 24-module enclosures thanks to a dedicated mounting plate. Can be equipped with a Vigi module and associated with the Polybloc 160.

Removable cable entry plates

Pre cut out for entry of cables or tubes.



Cable or tube entry

Mounting lugs

Allow flush mounting without cement.

Modular earth/neutral terminal blocks with quick connection:

- on chassis
- transformable into an incoming splitter block up to 125 A
- on DIN rail.

Association kit

Allows entry of cables after flush mounting of two associated enclosures.

Hinges

Simple and robust, they are mounted easily on the front face of the enclosure by rotation.

Asymmetrical front plate

Used to adapt to the multi-position DIN rail and offers a large marking area.

Example of 2 enclosures with a width of 24 modules of 3 rows, vertically associated.

Pragma

Surface mounted enclosures

Offer: earth + neutral version

A range of ready-to-use enclosures devised for electricians: ergonomics and flexibility of installation. The Pragma offer is particularly robust, especially the 24-module enclosures thanks to their metal structure and their reinforced front face.



24-module enclosures



Description

18-module enclosures



13-module enclosures



Interfaces



Customisable transparent door



Modular terminal blocks with screwless quick connections for small cables



Earth and neutral terminal blocks.



Neutral terminal blocks easy to split to adapt to earth leakage protection.



Possibility to transform the terminal block into an incoming splitter block up to 125 A, thanks to the support PRA90048.

Function

This distribution enclosure is intended for top of the range residential and tertiary sectors. An interface, dedicated to the end-user, allows installation of modular and specific switchgear: wiring devices, industrial power outlets, emergency stop and other buttons and indicator lights, etc. The 24-module enclosures can accommodate the NG160 incoming circuit-breaker or switch, equipped if necessary with an earth leakage protection module.

Technical data of enclosures and interfaces

- 13-, 18-module enclosures and interfaces: technoplastic ⁽¹⁾, metal grey and titanium white.
 - 24-module enclosures: metal and technoplastic ⁽¹⁾, metal grey and titanium white.
 - Transparent doors:
 - for 13- and 18-module enclosures: technoplastic ⁽¹⁾, crystal
 - for 24-module enclosures: metal and glass, titanium white and crystal
 - Opaque doors:
 - for 13- and 18-module enclosures: technoplastic ⁽¹⁾, titanium white
 - for 24-module enclosures: metal, titanium white
 - for interfaces: technoplastic ⁽¹⁾, titanium white.
 - Withstand to fire and abnormal heat at 650 °C as per IEC 60695-2-11/EN 60695-2-11
 - Total insulation class II: conform to IEC 60439-3/EN 60439-3 § 7.4.3.2.2.
- Advantage:** thanks to its design, the entire Pragma range has "total insulation": no components on the enclosure, interface or door need be earthed.
- Degree of protection as per IEC 60529:
 - without door: IP30
 - with door: IP40
 - Degree of protection against mechanical impacts as per IEC 62262:
 - without door: IK08
 - with door: IK09
 - Operating temperature: -25 °C to +60 °C.

(1) Technoplastic material specially developed by Merlin Gerin.

Components delivered with each enclosure and interface

	Enclosure	Interface
Marking strips + label-guard	■	
Blanking plate strip	■	
Earth and neutral terminal blocks: see cat. no. table	■	
Identification label	■	■
Front face and back connection		■
1 plain plate per row		■

Technical data of terminal blocks

- Rated insulation voltages U_i : 800 V, U_{imp} : 8 kV
 - Complies with IEC 60947-7-1.
- The terminal blocks can also be mounted in Prisma Plus switchboards. The connections of the terminal blocks (either spring or screw connections), specially developed by Merlin Gerin, allow connection of flexible or rigid wires without ferrule as per IEC 60947-1 § 8.2.4., IEC 60998-1 (connection of wires with ferrule is also possible).

Catalogue numbers

Enclosures without door												Cat. no.		
Number of modules per row	Number of rows	Capacity in modules of 18 mm	Rated current In	Neutral terminal block			Earth terminal block			Without door			with customisable transparent door	with opaque door
				Number of connections: total	50mm ²	25mm ²	6mm ²	Number of connections: total	50mm ²	25mm ²	6mm ²			
13 modules	1	13	63 A	11	-	3	2 x 4	13	-	1	3 x 4	PRA20113	PRA29113	PRA30113
	2	26	63 A	19	-	3	4 X 4	17	-	1	4 X 4	PRA20213	PRA29213	PRA30213
	3	39	90 A	23	-	3	5 X 4	22	-	2	5 X 4	PRA20313	PRA29313	PRA30313
	4	52	90 A	27	-	3	6 X 4	26	-	2	6 X 4	PRA20413	PRA29413	PRA30413
18 modules	1	18	90 A	15	-	3	3 X 4	17	-	1	4 X 4	PRA20118	PRA29118	PRA30118
	2	36	90 A	24	1	3	5 X 4	26	1	1	6 X 4	PRA20218	PRA29218	PRA30218
	3	54	125 A	24	1	3	5 X 4	26	1	1	6 X 4	PRA20318	PRA29318	PRA30318
	4	72	125 A	28	1	3	6 X 4	30	1	1	7 X 4	PRA20418	PRA29418	PRA30418
24 modules	1	24	125 A	23	1	2	5 X 4	22	1	1	5 X 4	PRA20124	PRA29124	PRA30124
	2	48	125 A	29	1	4	6 X 4	27	1	2	6 X 4	PRA20224	PRA29224	PRA30224
	3	72	160 A	29	1	4	6 X 4	27	1	2	6 X 4	PRA20324	PRA29324	PRA30324
	4	96	160 A	35	1	6	7 X 4	32	1	3	7 X 4	PRA20424	PRA29424	PRA30424
	5	120	160 A	35	1	6	7 X 4	32	1	3	7 X 4	PRA20524	PRA29524	PRA30524
	6	144	160 A	35	1	6	7 X 4	32	1	3	7 X 4	PRA20624	PRA29624	PRA30624

Enclosure / interface association table (1)

Enclosures	Interfaces
 PB101502-15	13 modules 1 row PRA06118
	18 modules 2 rows PRA06218
	3 rows PRA06318
	4 rows PRA06118 + PRA06218
 PB101503-15	24 modules 1 row PRA06124
	2 rows PRA06224
	3 rows PRA06324
	4 rows PRA06124 + PRA06224
	5 rows PRA06224 + PRA06224
	6 rows PRA06224 + PRA06324
(1) Provide an association kit <i>PRA90001</i> per interface.	

(1) Provide an association kit PRA90001 per interface.

Interface (see association table opposite)

Number of rows	Capacity in modules of 18 mm	Association with enclosures:	Cat. no.
1	7	13 modules	PRA06118
2	14	18 modules	PRA06218
3	21		PRA06318
1	7	24 modules	PRA06124
2	14		PRA06224
3	21		PRA06324

Accessories

Accessories	Cat. no.
Opaque door for interfaces (delivered with key lock 405)	
1 row	PRA07118
2 rows	PRA07218
3 rows	PRA07318

Mounting in interfaces

Kit for mounting modular switchgear up to 7 modules	PRA90065
Plain plate allowing mounting of buttons, indicator lights and in particular emergency stop	PRA90066
Kit for mounting industrial power outlets	PRA90067
Kit for mounting Unica wiring devices	PRA90071
Kit for mounting Altira wiring devices	PRA90074

Door for enclosures		Customisable transparent	Opaque
13 modules	1 row	PRA15113	PRA16113
	2 rows	PRA15213	PRA16213
	3 rows	PRA15313	PRA16313
	4 rows	PRA15413	PRA16413
18 modules	1 row	PRA15118	PRA16118
	2 rows	PRA15218	PRA16218
	3 rows	PRA15318	PRA16318
	4 rows	PRA15418	PRA16418
24 modules	1 row	PRA15124	PRA16124
	2 rows	PRA15224	PRA16224
	3 rows	PRA15324	PRA16324
	4 rows	PRA15424	PRA16424
	5 rows	PRA15524	PRA16524
	6 rows	PRA15624	PRA16624

Other accessories

See pages E22 to E24

Modular Enclosures

Pragma enclosures

Pragma

Flush mounted enclosures

Offer: earth + neutral version

A range of ready-to-use enclosures devised for electricians: ergonomics and flexibility of installation. The Pragma offer is particularly robust, especially the 24-module enclosures thanks to their metal structure and their reinforced front face.



Customisable transparent door



A whole host of flush mounting options



Removable entry plates.



Gypsum board mounting kit PRA90011



Mounting lugs allow wall-mounting without cement.

Wall-mounted chassis adjustable horizontally and in depth



The front face of the enclosure is always horizontally, whatever the position of the rear part flush-mounted in the wall.

Function

This distribution enclosure is flush-mounted in masonry or in gypsum partition. It is intended for the top of the range residential and tertiary sectors. The 24-module enclosures can accommodate the NG160 incoming circuit-breaker or switch, equipped if necessary with an earth leakage protection module.

Description

24-module enclosures

18-module enclosures

13-module enclosures



Technical data of enclosures

- 13, 18-module enclosures: technoplastic ⁽¹⁾, metal grey and titanium white.
 - 24-module enclosures: metal and technoplastic ⁽¹⁾, metal grey and titanium white.
 - Transparent doors:
 - for 13- and 18-module enclosures: technoplastic ⁽¹⁾, crystal
 - for 24-module enclosures: metal and glass, titanium white and crystal
 - Opaque doors:
 - for 13- and 18-module enclosures: technoplastic ⁽¹⁾, titanium white
 - for 24-module enclosures: metal, titanium white
 - Withstand to fire and abnormal heat (650 °C) as per IEC 60695-2-11/ EN 60695-2-11.
 - Total insulation Class II: conform to IEC 60439-3/EN 60439-3 § 7.4.3.2.2.
- Advantage:** thanks to its design, the entire Pragma range has "total insulation": no components on the enclosure or door need be earthed.
- Degree of protection as per IEC 60529:
 - without door: IP30
 - with door: IP40
 - Degree of protection against mechanical impacts as per IEC 62262:
 - without door: IK08
 - with door: IK09
 - Operating temperature: -25 °C to +60 °C.
- (1) Technoplastic material specially developed by Merlin Gerin.*

Components delivered with each enclosure

- Marking strips + label-guard
- Blanking plate strip
- Identification label
- Earth and neutral terminal blocks: see p.E14.

Catalogue numbers

Enclosures without door												Cat. no.		
Number of modules per row	Number of rows	Capacity in modules of 18 mm	Rated current In	Neutral terminal block				Earth terminal block				Without door	with customisable transparent door	with opaque door
				Number of connections:				Number of connections:						
				total	50mm²	25mm²	6mm²	total	50mm²	25mm²	6mm²			
13 modules	1	13	63 A	11	-	3	2X4	13	-	1	3X4	PRA25113	PRA24113	PRA31113
	2	26	63 A	19	-	3	4X4	17	-	1	4X4	PRA25213	PRA24213	PRA31213
	3	39	90 A	23	-	3	5X4	22	-	2	5X4	PRA25313	PRA24313	PRA31313
	4	52	90 A	23	-	3	5X4	22	-	2	5X4	PRA25413	PRA24413	PRA31413
18 modules	1	18	90 A	15	-	3	3X4	17	-	1	4X4	PRA25118	PRA24118	PRA31118
	2	36	90 A	24	1	3	5X4	26	1	1	6X4	PRA25218	PRA24218	PRA31218
	3	54	125 A	24	1	3	5X4	26	1	1	6X4	PRA25318	PRA24318	PRA31318
	4	72	125 A	28	1	3	6X4	30	1	1	7X4	PRA25418	PRA24418	PRA31418
24 modules	1	24	125 A	23	1	2	5X4	22	1	1	5X4	PRA25124	PRA24124	PRA31124
	2	48	125 A	29	1	4	6X4	27	1	2	6X4	PRA25224	PRA24224	PRA31224
	3	72	160 A	29	1	4	6X4	27	1	2	6X4	PRA25324	PRA24324	PRA31324
	4	96	160 A	35	1	6	7X4	32	1	3	7X4	PRA25424	PRA24424	PRA31424
	5	120	160 A	35	1	6	7X4	32	1	3	7X4	PRA25524	PRA24524	PRA31524
	6	144	160 A	35	1	6	7X4	32	1	3	7X4	PRA25624	PRA24624	PRA31624

Accessories		Cat. no.	
Door for enclosures		Customisable transparent	Opaque
13 modules	1 row	PRA15113	PRA16113
	2 rows	PRA15213	PRA16213
	3 rows	PRA15313	PRA16313
	4 rows	PRA15413	PRA16413
18 modules	1 rows	PRA15118	PRA16118
	2 rows	PRA15218	PRA16218
	3 rows	PRA15318	PRA16318
	4 rows	PRA15418	PRA16418
24 modules	1 rows	PRA15124	PRA16124
	2 rows	PRA15224	PRA16224
	3 rows	PRA15324	PRA16324
	4 rows	PRA15424	PRA16424
	5 rows	PRA15524	PRA16524
	6 rows	PRA15624	PRA16624

Other accessories

See pages E15 to E17

Modular terminal blocks with screwless quick connections for small cables



Earth and neutral terminal blocks.



Neutral terminal block easy to split to adapt to earth leakage protection.



Possibility of transforming the terminal block into an incoming splitter block up to 125 A thanks to the support PRA90048.

Technical data of terminal blocks

- Rated insulation voltage U_i : 800 V.
- Impulse withstand voltage U_{imp} : 8 kV.
- Complies with IEC 60947-7-1.

The terminal blocks can also be mounted in Prisma Plus switchboards.

The connections of the terminal blocks (either spring or screw connections), specially developed by Merlin Gerin, allow connection of flexible or rigid wires without ferrule as per IEC 60947-1 § 8.2.4., IEC 60998-1 and IEC 60998-2-11 (connection of wires with ferrule is also possible).

Installation accessories for enclosures

Mounting accessories				
Designation	Description	Cat. no. for enclosures:		
		13 modules	18 modules	24 modules
Association kit	For surface-mounted enclosures			
	Internal association kit	PRA90001	PRA90001	PRA90001
	Metal reinforcement for external association	-	-	PRA90003
External mounting lugs	For flush-mounted enclosures	PRA90004	PRA90005	PRA90005
	For surface-mounted enclosures 4 metal lugs	PRA90009	PRA90009	PRA90009
Gypsum wall mounting kit	For flush-mounted enclosures	PRA90011	PRA90011	PRA90011
Accessories for switchgear installation and finishing				
Plain individual front plate	For surface- and flush-mounted enclosures	PRA90016	PRA90017	PRA90018
Blanking plates	Batch consisting of 6 strips: 2x13 modules + 2x18 modules + 2x24 modules	PRA90020	PRA90020	PRA90020
Identification sheets	Batch of 10 sheets of 3 strips x 13 modules A4 format for laser or inkjet printer	PRA90024	PRA90024	PRA90024
Drawing holder		PRA90082	PRA90082	PRA90082
DIN rail depth adapter	For surface-mounted enclosures	-	-	04227
Plain mounting plate	For surface- and flush-mounted enclosures H = 1 row	PRA90032	PRA90033	PRA90034
Row separator	IPXXB separator supplied with its supports	PRA90006	PRA90007	PRA90008
Locking accessories				
Lock for enclosure door	Keylock 405 (supplied with 2 keys)	PRA90039	PRA90039	PRA90039
	Keylock 455/1242E/2433A (supplied with 2 keys of each type)	PRA90055	PRA90055	PRA90055
	Male 7 mm triangle/square and 3 mm double bar lock	PRA90056	PRA90056	PRA90056
Kit for sealing the front face for enclosures and interfaces		PRA90083	PRA90083	PRA90083

Installation accessories for interfaces

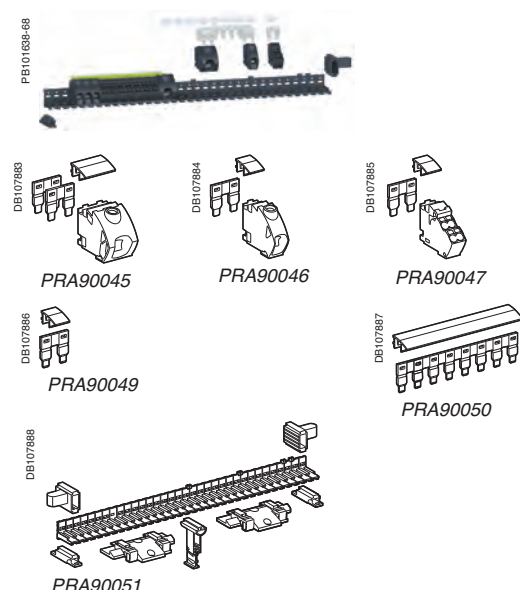
Mounting accessories		
Designation	Description	Cat. no. for associations with enclosures:
		13 modules 18 modules 24 modules
Association kit	Internal association kit	PRA90001
	Metal reinforcement for external association	-
External mounting lugs	4 metal lugs	PRA90009
Accessories for switchgear installation and finishing		
Plain mounting plate	For mounting push buttons, indicator lamps and emergency stop switch	PRA90066
Blanking plates	Batch consisting of 6 strips: 2X13 modules + 2x18 modules + 2x24 modules	PRA90020
Identification sheets	Batch of 10 sheets of 3 strips x 13 modules A4 format for laser or inkjet printer	PRA90024
7- module kit	For installation of modular switchgear up to 7 modules H = 1 row	PRA90065

Electrical accessories: modular terminal blocks

- Rated insulation voltage U_i : 800 V.
- Impulse withstand voltage U_{imp} : 8 kV.
- Complies with IEC standard 60947-7-1.

The connections of the terminal blocks (either spring or screw connections), specially developed by Merlin Gerin, allow connection of flexible or rigid wires without ferrule as per IEC 60947-1 § 8.2.4., IEC 60998-1 and IEC 60998-2-1 (connection of wires with ferrule is also possible).

Terminal block components



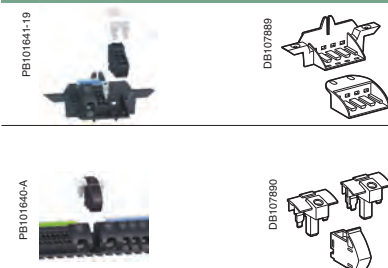
These components can be used to implement and install a terminal block:

- on the chassis near the conductor entry
 - on a DIN rail mounted on the enclosure chassis
 - on the back of the enclosure or interface
 - in the Prisma Plus switchboards on the functional uprights
- Permissible current:

- 50 mm² terminal block kit: 160 A max. at 40 °C
- 25 mm² terminal block kit: 90 A max. at 40 °C
- 6 x 4 mm² terminal block kit: 63 A max. at 40 °C
- 8-block junction kit:
 - 90 A with 1 junction
 - 160 A with 2 parallel-mounted junctions
- 2-block junction kit: 90 A.

Terminal blocks			Cat. no.
50 mm ² terminal block kit	W = 2 blocks	Batch of 2	PRA90045
25 mm ² terminal block kit	W = 1 block	Batch of 5	PRA90046
4 X 6 mm ² terminal block kit	W = 1 block	Batch of 10	PRA90047
Terminal block junction			
8-block junction kit	W = 8 blocks	Batch of 1	PRA90050
2-block junction kit	W = 2 blocks	Batch of 10	PRA90049
Terminal block support			
Terminal block support kit	W = 34 blocks maximum	Batch of 1	PRA90051

Accessories for neutral terminal blocks



Split neutral terminal block support

Support kit	W = 4 blocks	Batch of 1	PRA90053
Allows installation of a neutral terminal block between 2 rows near an RCD in a surface-mounted or flush-mounted enclosure			

Earth and neutral connector

Connector kit	W = 1 block	Batch of 1	PRA90052
Allows reliable connection between the earth terminal block and the neutral terminal block, where necessary (transition from TN-C to TN-S earthing system)			
With this exclusive connector, the disconnection between the 2 terminal blocks as an isolation measure is fully visible.			

Use as incoming splitter block



Incoming splitter block kit	W = 1 block	Batch of 4	PRA90048
For converting terminal block kits PRA90045/PRA90046/PRA90047 into an incoming splitter block up to 125 A and 50 mm ² .			
Permissible current:			
■ entry via PRA90046 (1 x 25 mm ² - 1 block): 80 A			
■ entry via PRA90045 (1 x 50 mm ² - 2 block): 125 A			
U_i : 400 V and U_{imp} : 6 kV			

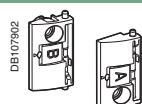
Spare parts

Accessories for enclosures

Designation	Description	Cat. no. for enclosures:		
		13 modules	18 modules	24 modules
Label-guard	Batch of 5, supplied with papermarking strip	PRA90027	PRA90028	PRA90029
Window type individual front plate	For surface- and flush-mounted enclosures Supplied with marking strip and label-guard	PRA90013	PRA90014	PRA90015
Entry flanges	For surface-mounted enclosures (Batch of 2)	PRA90040	PRA90041	PRA90042
Chassis	For surface-mounted enclosures Kit for 1 row	PRA90057	PRA90057	PRA90058

Door accessories

Hinge	(Batch of 2)	PRA90043	PRA90043	PRA90043
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Installation accessories for enclosures

Mounting accessories				
Designation	Description	Cat. no. for enclosures:		
		13 modules	18 modules	24 modules
FL21 entry flange support	For surface-mounted enclosures For mounting FL21 entry flanges: 08881/ 08891/ 08892/ 08895/ 08896/ 08897	-	-	PRA90023
Accessories for switchgear installation and finishing				
White individual front plate		PRA91013	PRA91014	PRA91015
Plain white individual front plate		PRA91016	PRA91017	PRA91018
White blanking plates	Batch consisting of 6 strips: 2 X 13 modules + 2 x 18 modules + 2 x 24 modules	PRA91020	PRA91020	PRA91020
NG 160 mounting plate	For flush-mounted enclosures	-	-	PRA90031
Tube entry plate	For surface-mounted enclosures	PRA90084	PRA90085	-
White blanking plate		PRA91020	-	-

Installation accessories for interfaces

Accessories for switchgear installation and finishing				
Designation	Description	Cat. no. for enclosures:		
		13 modules 18 modules	24 modules	
Plain white mounting plate	For mounting push buttons, indicator lamps and emergency stop switch	PRA91066	PRA91066	
White blanking plate	Batch consisting of 6 strips: 2 x 13 modules + 2 x 18 modules + 2 x 24 modules	PRA91020	PRA91020	
7-module white kit	For installation of modular switchgear up to 7 modules H = 1 row	PRA91065	PRA91065	
Kit for mounting wiring devices	H = 1 row	PRA90070	PRA90070	
White kit for mounting wiring devices	H = 1 row	PRA91070	PRA91070	
Kit for mounting Unica wiring devices	H = 1 row	PRA90071	PRA90071	
Kit for mounting Altira wiring devices	H = 1 row	PRA90074	PRA90074	
White kit for mounting Altira wiring devices	H = 1 row	PRA91074	PRA91074	
Kit for mounting Merlin Gerin industrial power outlets	H = 1 row	PRA90067	PRA90067	
White kit for mounting Merlin Gerin industrial power outlets	H = 1 row	PRA91067	PRA91067	
Compact mounting kit	Can only be installed in interfaces PRA06224/ PRA06324 associated with the 24-module enclosures H = 2 rows	-	PRA90068	
Vigicompact mounting kit	Can only be installed in the three-row PRA06324 interface associated with 24-module enclosures H = 3 rows	-	PRA90069	

Electrical accessories: modular terminal blocks

Earth terminal blocks				
Designation	Description	Cat. no. for enclosures:		
		13 modules	28 modules	24 modules
Earth terminal blocks	17 points	PRA90086	-	-
	22 points	PRA90087	-	-
	26 points	-	PRA90088	-
	30 points	-	PRA90089	-
	27 points	-	-	PRA90090
	32 points	-	-	PRA90091

Modular Enclosures

Kaedra weatherproof enclosures

Kaedra Presentation

Multi-function weatherproof enclosures with power outlets

The first range of weatherproof enclosures combining 3 functions

With Kaedra, it is easy to perform the 3 functions of an electrical installation:

- **distribute:** the 3 to 72 module enclosures for modular switchgear accommodate the elements for protection of circuits and people
- **supply:** the flush-mounted power outlets of various sizes are installed in the enclosures for power outlets or with interface
- **control:** emergency stop, control and signalling buttons are directly accessible on the front face.

39 catalogue numbers for a whole host of configurations up to 125 A

Combination of distribution, supply and control functions is possible:

- in a single enclosure (enclosure for modular switchgear with interface)
- by horizontally and/or vertically associating enclosures.

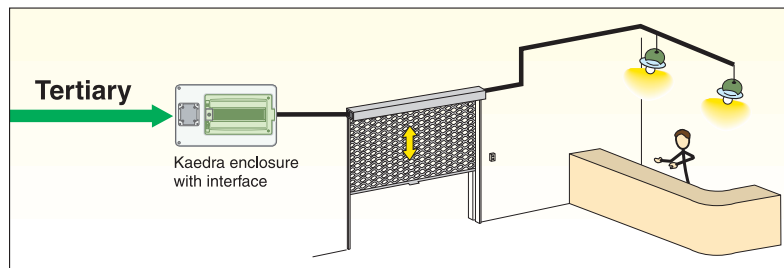
In this way, Kaedra can be adapted and upgraded for problem-free production of all installation types.

059466

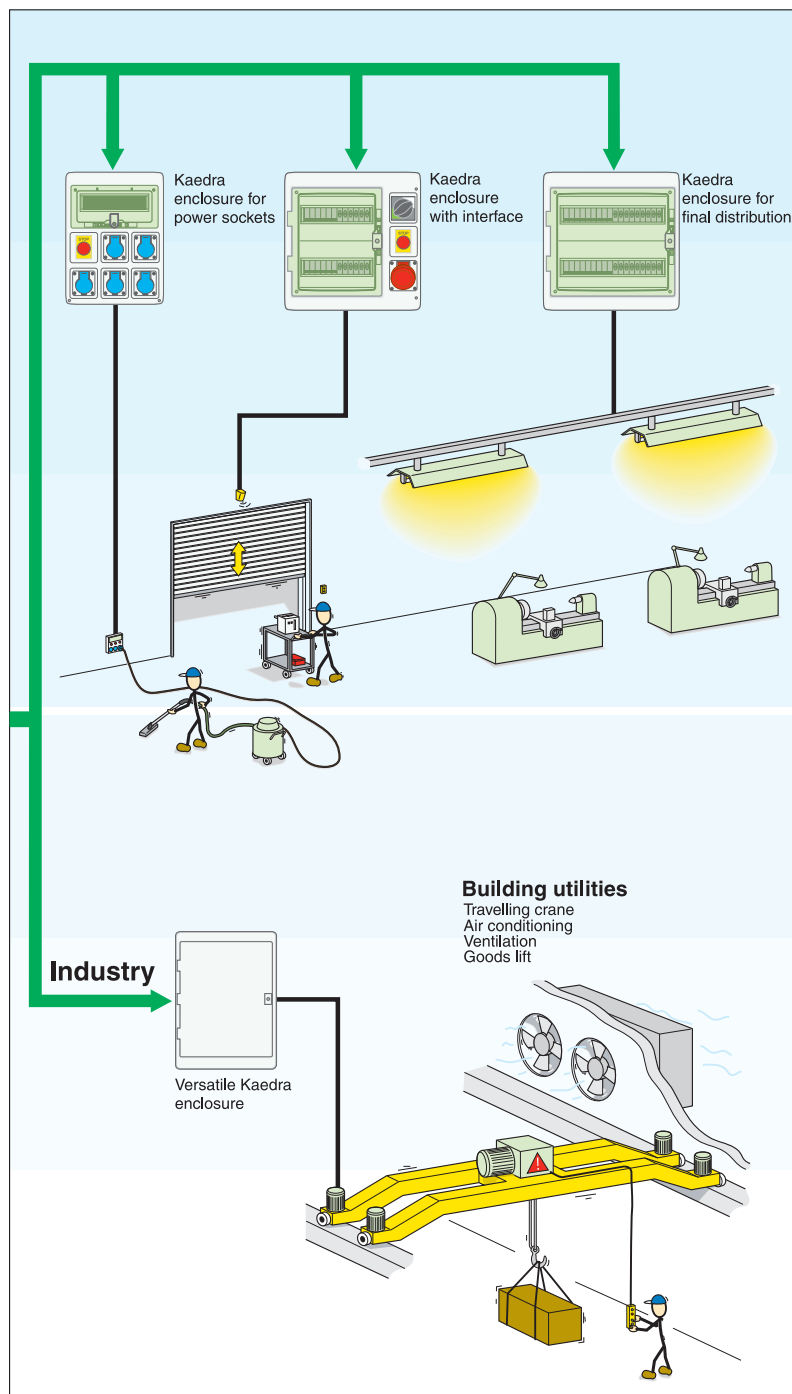


A large assembling capacity.

E88731



E88732



Modular Enclosures

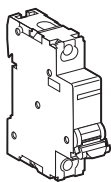
Kaedra weatherproof enclosures

Kaedra Presentation

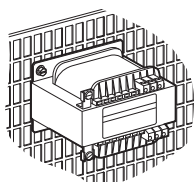
Multi-function weatherproof enclosures
3x more upgradeable

Enclosures adaptable to all situations

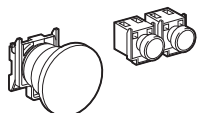
Modular switchgear



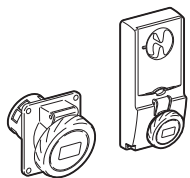
Non-modular switchgear



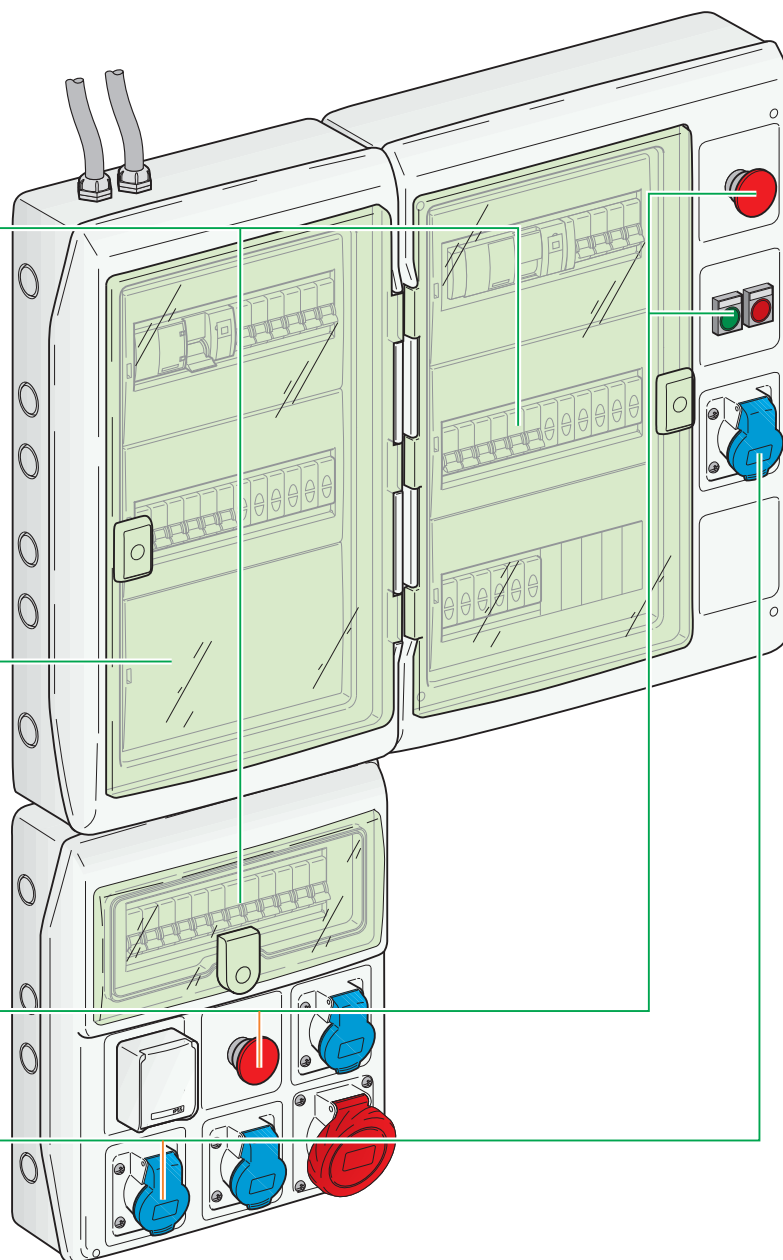
Interface switchgear



PK power outlet base



DB106723



Modular Enclosures

Kaedra weatherproof enclosures

Kaedra Presentation

Multi-function weatherproof enclosures **3x** easier



A design, choice and ordering aid tool

The assistance software lets you:

- automate choice of components
- design a set of associated enclosures
- use the many mounting possibilities.

Genuine cabling convenience on site or in the workshop

The enclosures provide the space you require for insertion of hands or wiring routing:

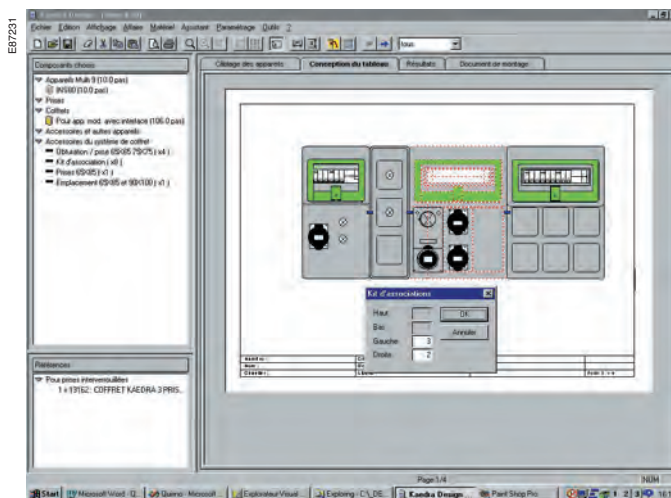
- in the side corridors
 - under the amply spaced out rails at the bottom.
- Dovetails arranged along the walls and on the chassis are use to organise wiring by clipping on of straps or small terminal blocks to ensure clear, neat cabling.

Enclosures for every day use

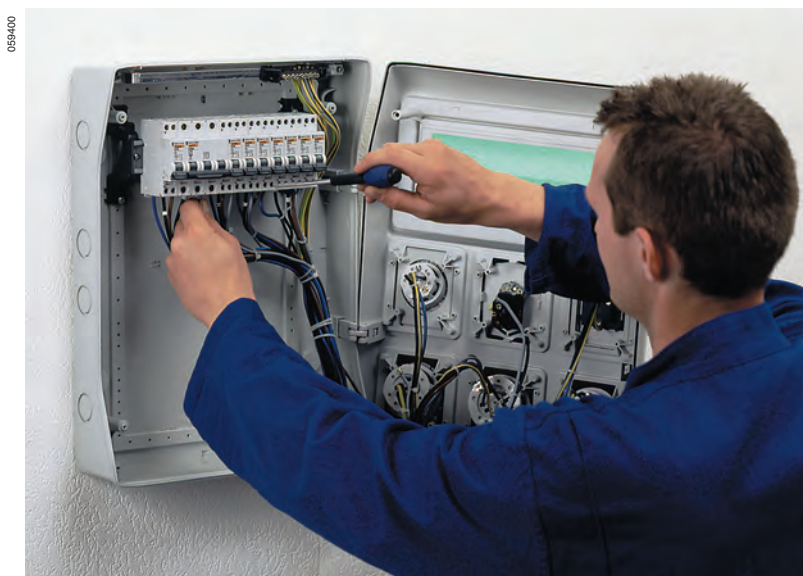
Kaedra enclosures satisfy all the requirements for every use with:

- transparent doors for optimum visibility of devices
- secured closing thanks to the multiple latching points of the espagnolette bolt
- a sober, elegant design.

Installing Kaedra is child's play.



A design, selection and control software.



2 hinges to hold the front face in position.



Espagnolette bolt: 2 or 4 latching points, only 1 handle.

Modular Enclosures

Kaedra weatherproof enclosures

Kaedra Presentation

Multi-function weatherproof enclosures

3x easier

Tricks to save time

A large number of easy associations

Kaedra enclosures are easy to associate: besides the numerous possible configurations, there is a high degree of extension flexibility.

Association allows insertion of cables, guarantees IP withstand and mechanical withstand.

Adjustable distance between rail axes and depth

Each rail can assume 4 positions (2 in height and 2 in depth), thereby giving priority to a cabling area.

A removable chassis...

The chassis can be equipped and cabled with ease on a table. It is easily reassembled by means of oblong openings which hold it in place and allow it to be freely screwed into place.

... and cleavable

To allow mounting of non-modular switchgear on a plate, the chassis can be cut.

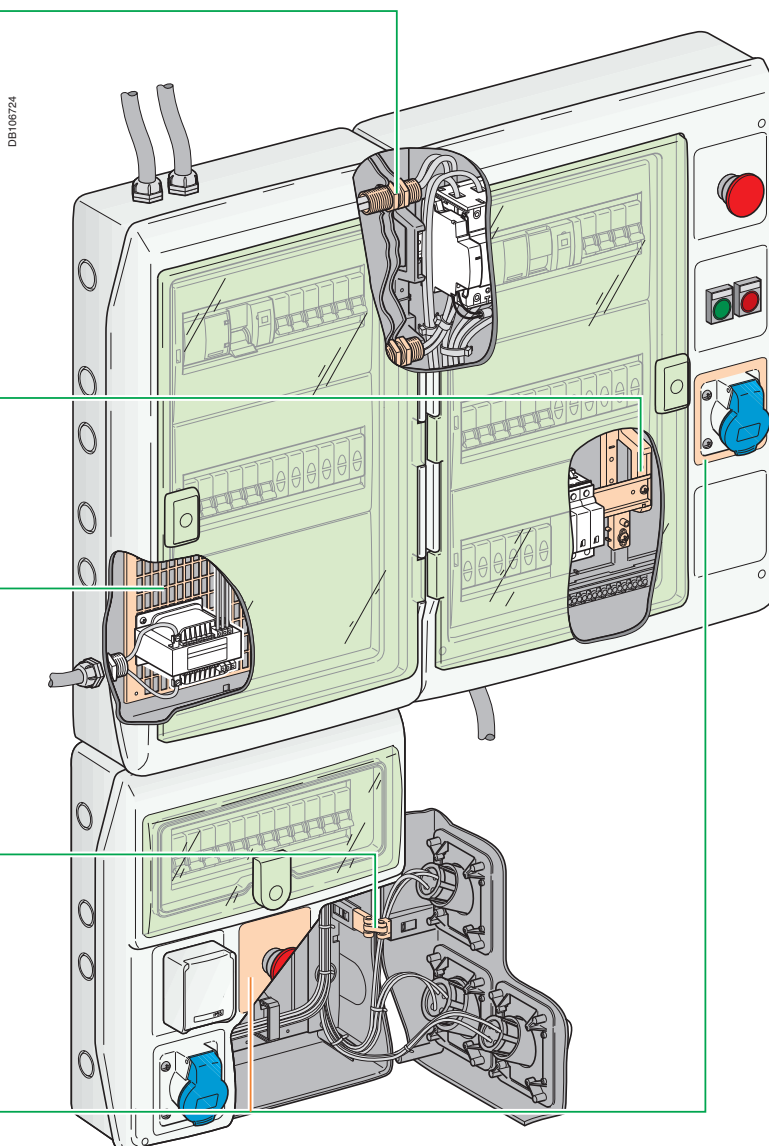
Front face / back hinges

These hinges are clipped onto the left or right, thus simplifying the cabling of enclosures accommodating power outlets on the front face.

The reversability of front faces lets you choose the direction of opening of the door for enclosures for modular switchgear.

Functional plates

These allow mounting of power outlet bases of various sizes (or other devices) in the same opening.



Modular Enclosures

Kaedra weatherproof enclosures

Kaedra Presentation

Multi-function weatherproof enclosures **3x** more attractive



Increased safety

Kaedra withstands harsh environments:

- IP65: protection against ingress of solid and liquid bodies
 - IK09: protection against shocks.
- It is made of insulating material, class 2, and can be sealed and/or locked (key-lock or insert).
It complies with standard IEC 60439-3.

Completely safe maintenance

To simplify and increase safety of operation, access to the devices can be differentiated:

- protection devices are clearly visible behind the door, if necessary locked to prevent access
- control and signalling devices are accessible directly on the front face (emergency stop, control button, etc.).

Enclosures that blend in perfectly

Its colour and sobriety make Kaedra suitable for most industrial, small contracting and tertiary premises. Many elements ensure installation with a careful finish:

- a carefully organised, spaced out and easy-to-modify cabling
- the front plates, blanking plates and functional plates blend harmoniously with the enclosure shape
- clear, neat marking by means of the removable labels protected by a transparent cover.

With Kaedra, robustness assumes the shapes and colours of beauty.

EB7248



EB7249



EB7250



Modular Enclosures

Kaedra weatherproof enclosures

Kaedra Presentation

Multi-function weatherproof enclosures

3x more attractive

A consistent range of enclosures



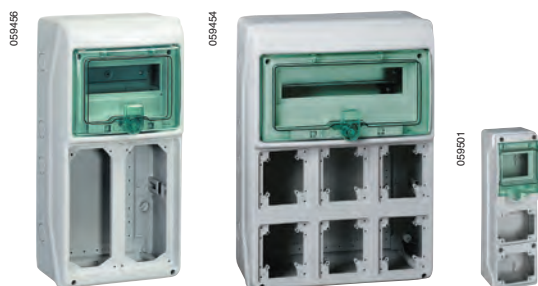
Enclosures for modular switchgear.



Enclosures for modular switchgear with interface.



Interface enclosures.



Enclosures for power outlets.



Versatile enclosures.

059372



Kaedra

The most comprehensive enclosure range

Enclosure for modular switchgear.

Enclosures for modular switchgear with interface.

Enclosures for power outlets.

Versatile enclosures.

For the production of electrical switchboards incorporating protection, control and distribution

- modular protection devices
- power outlets
- pushbuttons and indicator lights, etc.
- non-modular switchgear (transformer, motor control, etc.).

For tertiary, small contracting and industrial sectors

For environments requiring optimum protection of persons and electrical switchgear.

Kaedra is thus a comprehensive and consistent solution for the installation of all Schneider Electric switchgear, incorporating safety, functionality, ergonomics and attractive design.

059445



Safety

Kaedra switchboards guarantee a high degree of protection and increased dependability thanks to:

- their degree of protection (IP65)
- their high impact strength (IK09) and resistance to chemical and atmospheric agents, UVs, etc.
- class 2 insulating material
- optional locking of the door and sealing of the front face and front plates
- conformity with IEC 670 standard for empty enclosures and with IEC 439-3 standard for equipped switchboards.

Ergonomics

Kaedra switchboards offer remarkable cabling space.

Both the cable inlet and internal distribution is simplified.

The transparent doors enable permanent, immediate checking of operating conditions.

The interface zone offer quick access to power outlets and control devices.

The functional openings allow rapid installation of all devices directly or using matching plates.

The frame and all its possibilities guarantee assembly time savings.

Attractive design

Their modern, rounded shape, result of in-depth design and ergonomic studies, make the Kaedra switchboards ideal for use even in places visible to the general public.

Their innovating colours ensure enhanced integration, while at the same time guaranteeing the basic requirements of visibility and inspection of switchgear.

Modular Enclosures

Kaedra weatherproof enclosures

Kaedra offer overview

Enclosures for modular switchgear

Available in 7 versions from 3 to 72 modules.

They allow installation of modular switchgear up to 125 A, as well as non-modular switchgear on slotted mounting plate.

059446

Enclosures for modular switchgear with interface

Available in 3 versions of 12, 24 and 36 modules. The interface zone offers the possibility, thanks to the functional plates, of installing on the switchboard front face, control or protection devices, indicator lights and PK series power outlets of the domestic or industrial type. They thus ensure completely safe use.

Interface enclosures

Available in 2 versions with 2 or 3 openings.

They can be used by themselves, horizontally or vertically, or associated with other enclosures as cable trunking or interface zone (control devices, indicator lights, power outlets, etc.).

Versatile enclosures

Available in 5 sizes.

They are designed for production of control and monitoring switchboards with non-modular type devices.

Enclosures for power outlets

90 x 100 mm openings

Available in versions with 1 to 8 openings.

They are characterised for the new functional feature with openings allowing installation of all PK power socket outlets or the incorporation of control and indicator light functions.

059447

103 x 225 mm opening

Available in versions with 1 to 4 openings.

They can accommodate the new PK Unika interlockable power outlets.

Versatile (smooth surface to be drilled)

Available in 5 sizes.

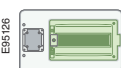
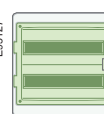
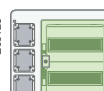
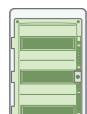
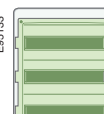
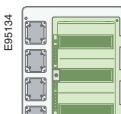
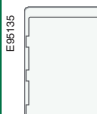
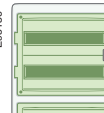
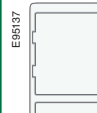
They allow mounting of flush-mountable power socket outlets up to 125 A.



Range of weatherproof mini enclosures

1 row								
Part Number	13175	13176	13177	13975	13976	13977	13978	13979
Nbr of modules	4	4	4	3	4	6	8	12
Width	98	98	98	80	123	159	195	267
Height	248	310	392	150	200	200	200	200

Range of weatherproof mini enclosures

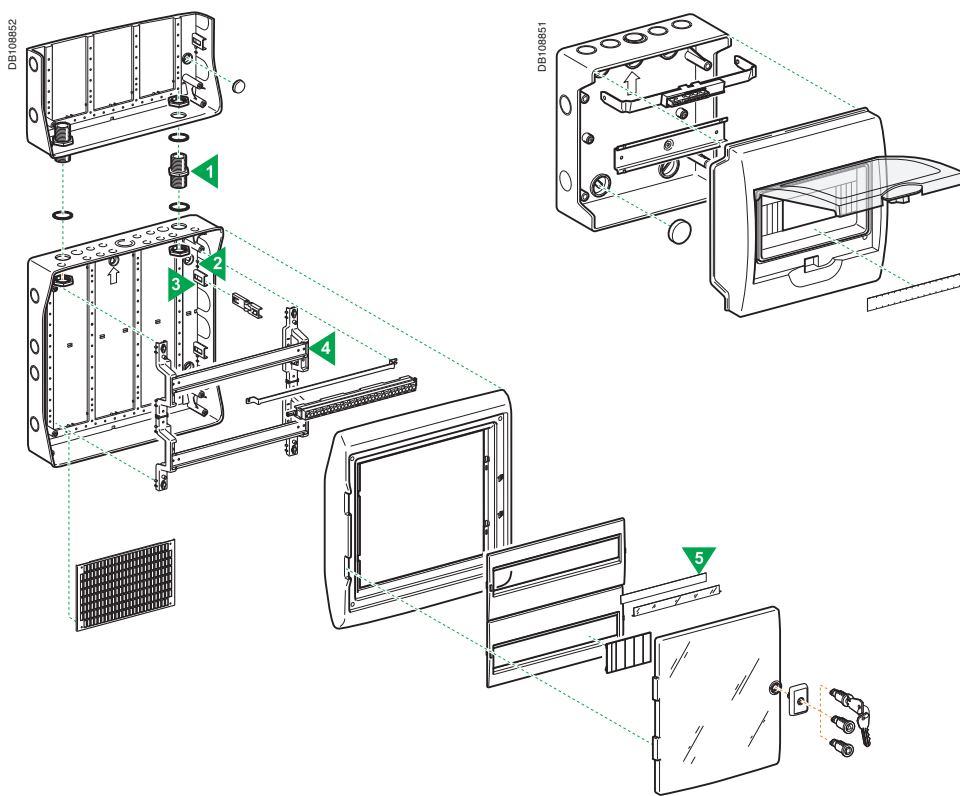
mm	138	236	340	448	
	5 modules	8 modules	12 modules per row	12 + 1 modules	18 modules per row (12 modules if interface)
280			 13981	 13982	 13990
335			 13180	 13191	
460	 13178	 13993	 13983	 13181	 13195
	 13185	 13189	 13186	 13190	 13984
				 13187	 13192
				 13991	 13182
					 13197
					 13188
					 13193
610	 13994		 13985	 13196	 13986
					 13992
					 13198
842				 13987	 13199

Modular Enclosures

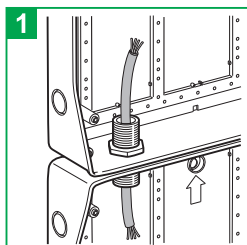
Kaedra weatherproof enclosures

Kaedra

enclosures and mini enclosures
for modular switchgear

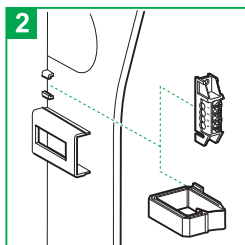


A few tricks



Add-on possibility

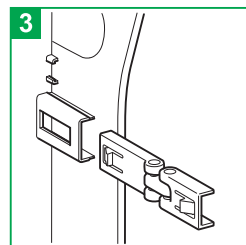
Enclosures can be horizontally or vertically associated keeping the IP65 and allowing cable insertion.



Dovetails

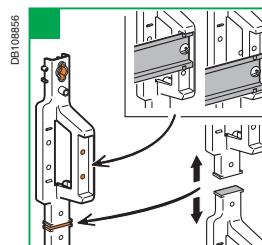
Arranged on the back and on the chassis, they can accommodate:

- 4-hole terminal blocks
- wiring straps.



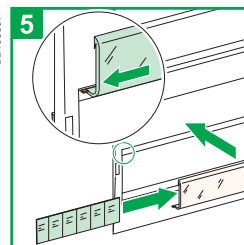
Back/front face hinges

Clipped onto the right or left, they simplify cabling and working on the interface zone.



Chassis

- DIN symmetrical rails positionable in 2 depths and 2 heights to privilege cabling room
- chassis that can be severed to install a mounting plate on the back.



Marking

Clip-on label covers ensure neat, quick and upgradeable marking.

Mechanical data

Enclosure

- reversible front face for opening of door to the left or right
- inside depth available for installation of non-modular switchgear between the slotted mounting plate and the plain front plate: 100 mm
- reversible front plate according to distance between axes of rails (125, 150, 175 mm).

Mini enclosure

- clip-on terminal block support
- back with dovetail to accommodate 4-hole terminal block and wiring strap.

Technical data

- self-extinguishing insulating material
- operating temperature: -25°C to + 60°C
- colour: light grey RAL 7035 and transparent green door
- IP65 as per IEC 60529
- IK09 as per EN 50102
- class 2: total insulation
- flame and abnormal heat resistance: 650°C as per IEC 60695-2-1
- complies with standard IEC 60439-3
- resistance to chemicals and atmospheric agents.

Modular Enclosures

Kaedra weatherproof enclosures

Kaedra

enclosures and mini enclosures for modular switchgear



3 to 12 module mini enclosures, economic and compact.

Add-on 12 to 72 module enclosures.



Kaedra enclosures and mini enclosures for modular switchgear.

Mini enclosures					
Nbr of modules	3	4	6	8	12
1 row	 13975	 13976	 13977	 13978	 13979
Enclosures					
Nbr of rows	1	2	3	4	
12 modules per row	 13981	 13983	 13985		
18 modules per row	 13982	 13984	 13986	 13987	

Enclosure catalogue numbers

Data											Accessories delivered with an enclosure catalogue number (2)										Cat. No.
Row	Total mod.	M	Pre-cutout (top and bottom) ⁽¹⁾	16	20	20	25	32	50	Dimensions (mm)	Marking kit	Wiring strap	Terminal block support	Terminal block number of holes	4	8	16	22	32		
Mini enclosures																					
1	3									80	150	98	1								13975
	4				2					123	200	112	1								13976
	6		1	1						159	200	112	1								13977
	8		2	2						195	200	112	1								13978
	12		2	2					1	267	200	112	1								13979
Enclosures																					
1	12		6		6	2	3			340	280	160	1	1	1	1	1				13981
	18				10	4	2	1		448	280	160	1	1	1	1	1				13982
2	24		6		6	2	3			340	460	160	2	2	1	1		1			13983
	36				10	4	2	1		448	460	160	2	2	1	1			1		13984
3	36		6		6	2	3			340	610	160	3	3	1	1			1		13985
	54				10	4	2	1		448	610	160	3	3	2	1		2			13986
4	72				10	4	2	1		448	842	160	4	4	2	1			2		13987

(1) Concentric pre-cutouts of the PG and ISO/metric type (EN 50262).

(2) Accessories also delivered:

■ mini enclosures: class II plugs

■ enclosures: class II plugs and blanking plates (5 modules of 18 mm per row).

Catalogue numbers of the main accessories (1)

Name	Description	Mini enclosures	Enclosures	Cat. No.
Association kit	2 sleeves + 4 nuts	■	■	13934
Wall mounting lugs		■	■	13935
Slotted mounting plate		■	■	13941
Plain plate	12 modules	■	■	13944
	18 modules	■	■	13945
Wiring strap		■	■	13946
Sealing kit		■	■	13947
Keylock		■	■	13948
Insert	triangle	■	■	13949
	square	■	■	13950

Other accessories available for these enclosures (1):

Row separator, jack-up block, junction for trunking, blanking plate, terminal block support, insulated terminal blocks, IP2 covers, cable support sleeves, cable gland, self-adhesive symbols, self-adhesive sheets.

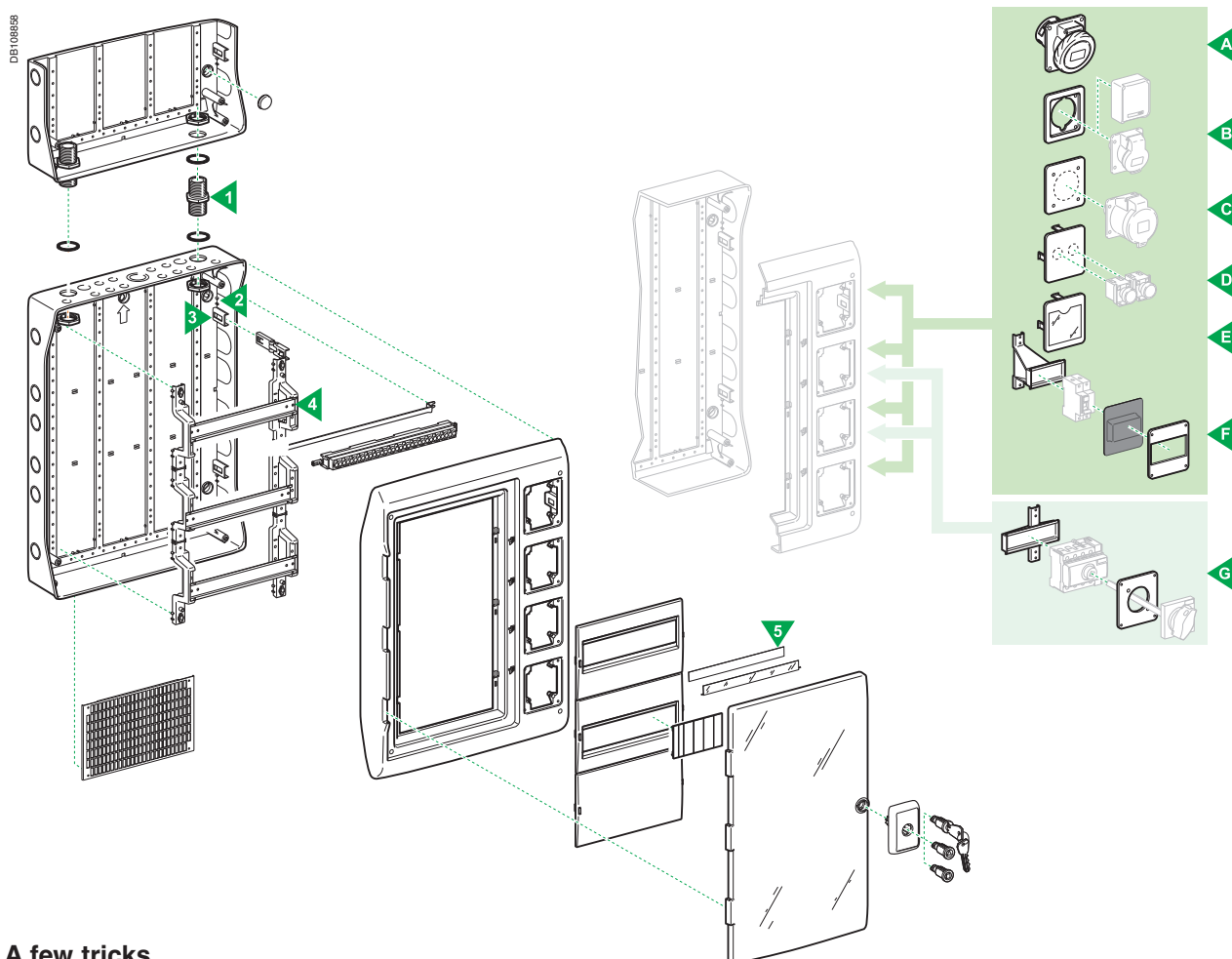
(1) the complete description of the various accessories is given on page E44 to E45.

Modular Enclosures

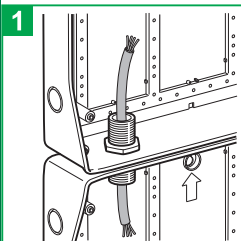
Kaedra weatherproof enclosures

Kaedra

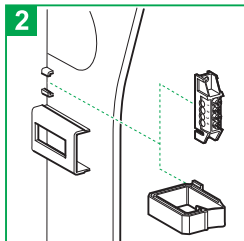
enclosures for modular switchgear with interfaces



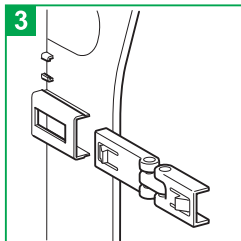
A few tricks



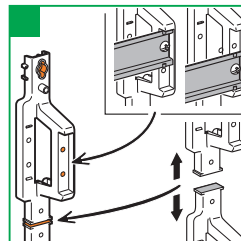
Add-on possibility
Enclosures can be horizontally or vertically associated keeping the IP65 and allowing cable insertion.



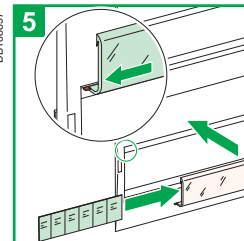
Dovetails
Arranged on the back and on the chassis, they can accommodate:
■ 4-hole terminal blocks
■ wiring straps.



Back/front face hinges
Clipped onto the right or left, they simplify cabling and working on the interface zone.



Chassis
■ DIN symmetrical rails positionable in 2 depths and 2 heights to privilege cabling room
■ chassis that can be severed to install a mounting plate on the back.



Marking
Clip-on label covers ensure neat, quick and upgradeable marking.

Everything for the interface

Direct mounting

With plate cat. no. 13136

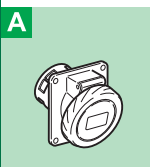
With plate cat. no. 13137

With plate cat. no. 13138

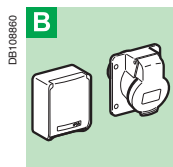
With plate cat. no. 13141

With kit cat. no. 13140

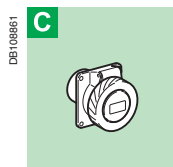
With kit cat. no. 13139



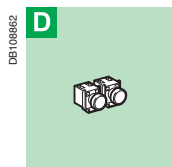
16/32 A slanting power outlets (90 x 100 mm).



Domestic and LV power outlets (65 x 85 mm).



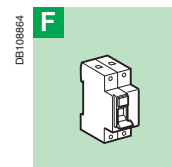
LV and ELV power outlets (65 x 65 mm and 75 x 75 mm).



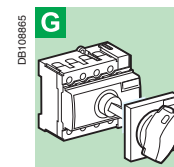
Buttons, indicator lights and switches 16 and 22 mm diameter.



Identification label



Modular switchgear up to 4 modules (e.g. residual current circuit breaker).



INS40/63/80 A.

Modular Enclosures

Kaedra weatherproof enclosures

Kaedra

enclosures for modular switchgear with interfaces



Enclosures offering:

- an interface zone always available for user and that can accommodate buttons, indicator lights, power outlets or modular switchgear
- a zone, behind the door, to install the modular switchgear.



Kaedra enclosure for modular switchgear with interface.

Number of opening modules	12	24	36
	1	3	4
	13990	13991	13992

Mechanical data

- reversible front face
- interface zone to the left or right. It is also an excellent cable duct
- door opening in either direction
- inside depth available for installation of non-modular switchgear between the slotted mounting plate and the plain front plate: 100 mm
- in enclosures with 3 or 4 openings, the kit for INS40/63/80 A must be mounted in the central openings.

Technical data

- self-extinguishing insulating material
- operating temperature: -25°C to + 60°C
- colour: light grey RAL 7035 and transparent green door
- IP65 as per IEC 60529
- IK09 as per EN 50102
- class 2: total insulation
- flame and abnormal heat resistance: 650°C as per IEC 60695-2-1
- complies with standard IEC 60439-3
- resistance to chemicals and atmospheric agents.

Enclosure catalogue numbers

Data											Accessories delivered with an enclosure catalogue number ⁽²⁾										Cat. No.
Row	Total mod.	Slot for plate	Pre-cutout ⁽¹⁾ (top and bottom)					Dimensions (mm)			Marking kit	Wiring strap	Terminal block support	Terminal block number of holes					Plates for buttons, indicator lights 13138	65 x 85 mm power outlets 13136	
			M PG	20 11	25 16	32 21	50 29/36	W	H	D				4	8	16	22	32			
1	12	1		10	4	2	1	448	280	160	1	1	1	1		1			1		13990
2	24	3		10	4	2	1	448	460	160	2	2	1	1		1			3	1	13991
3	36	4		10	4	2	1	448	610	160	3	3	1	1				1	4	1	13992

(1) Concentric pre-cutouts of the PG and ISO/metric type (EN 50262).

(2) Accessories also delivered: class II plugs and blanking plates (5 modules of 18 mm per row).

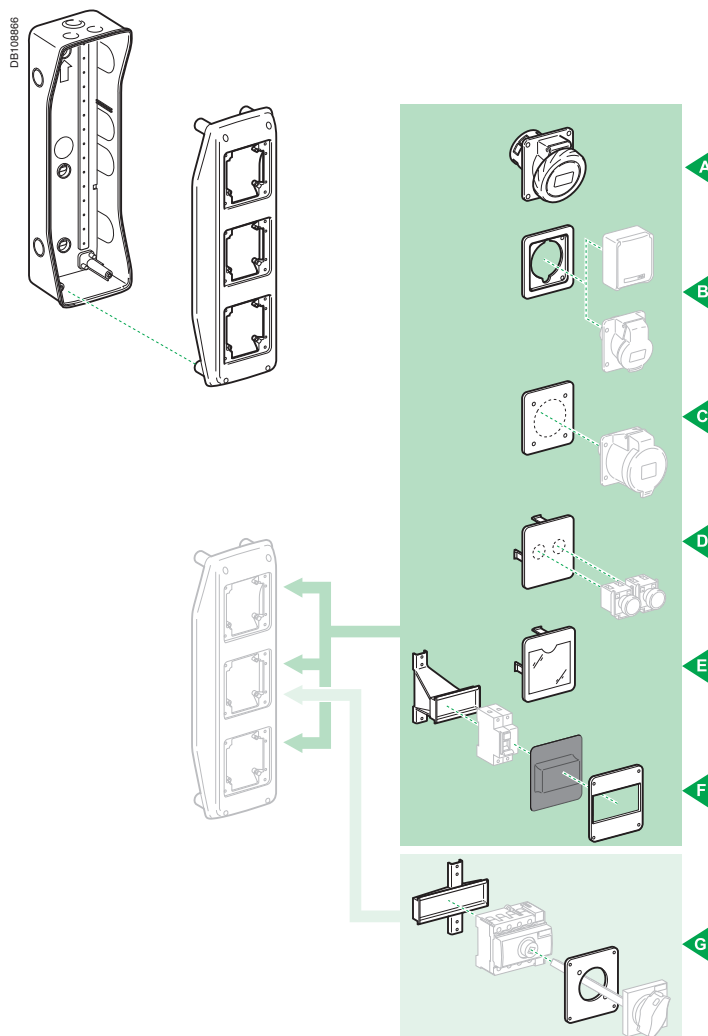
Catalogue numbers of the main accessories ⁽¹⁾

Name	Description	Cat. No.
Association kit	2 sleeves + 4 nuts	13934
Wall mounting lugs		13935
Slotted mounting plate		13941
Plain front plate	12 modules	13944
Interface plate for	65 x 85 power outlets	13136
	65 x 65 or 75 x 75 power outlets	13137
	pushbutton controls	13138
	identification	13141
Interface kit	INS40/63/80 A	13139
	modular switchgear up to 4 modules (e.g. residual current circuit breaker)	13140
Wiring strap		13946
Sealing kit		13947
Keylock		13948
Insert	triangle	13949
	square	13950

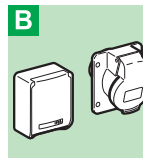
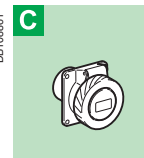
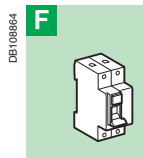
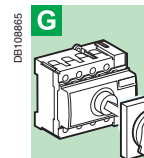
Other accessories available for these enclosures ⁽¹⁾:

Row separator, jack-up block, junction for trunking, blanking plate, terminal block support, insulated terminal blocks, IP2 covers, cable support sleeves, cable gland, self-adhesive symbols, self-adhesive sheets.

(1) the complete description of the various accessories is given on page E44 to E45.



Everything for the interface

Direct mounting	With plate cat. no. 13136	With plate cat. no. 13137	With plate cat. no. 13138	With plate cat. no. 13141	With kit cat. no. 13140	With kit cat. no. 13139
A DB108859  16/32 A slanting power outlets (90 x 100 mm).	B DB108860  Domestic and LV power outlets (65 x 85 mm).	C DB108861  LV and ELV power outlets (65 x 65 mm and 75 x 75 mm).	D DB108862  Buttons, indicator lights and switches 16 and 22 mm diameter.	E DB108863  Identification label	F DB108864  Modular switchgear up to 4 modules (e.g. residual current circuit breaker).	G DB108865  INS40/63/80 A

Modular Enclosures

Kaedra weatherproof enclosures

Kaedra

interface weatherproof enclosures



Enclosures that can be installed alone, but also as an extension of another enclosure.



Kaedra interface enclosure.

Number of 50 x 100 mm openings	3	4
	13993	13994

Mechanical data

- this enclosure can also act as a cable duct
- in enclosures with 3 or 4 openings, the kit for INS40/63/80 A must be mounted in the central openings.

Technical data

- self-extinguishing insulating material
- operating temperature: -25°C to + 60°C
- colour: light grey RAL 7035
- IP65 as per IEC 60529
- IK 09 as per EN 50102
- class 2: total insulation
- flame and abnormal heat resistance: 650°C as per IEC 60695-2-1
- complies with standard IEC 60439-3
- resistance to chemicals and atmospheric agents.

Enclosure catalogue numbers

Data								Accessories delivered with an enclosure catalogue number ⁽¹⁾		Cat. No.
Nb of op.	Dimensions			Pre-cutout ⁽¹⁾ (top and bottom)				Plates for buttons, indicator lights 13138	65 x 85 power outlets 13136	
	W	H	D	M PG	20 11	25 16	32 21			
3	138	460	160		1	1	1	3	1	13993
4	138	610	160		1	1	1	4	1	13994

⁽¹⁾ Concentric pre-cutouts of the PG and ISO/metric type (EN 50262)

⁽²⁾ Accessories also delivered: class II plugs.

Catalogue numbers of the main accessories ⁽¹⁾

Name	Description	Cat. No.
Association kit	2 sleeves + 4 nuts	13934
Wall mounting lugs		13935
Interface plate for	65 x 85 power outlets	13136
	65 x 65 or 75 x 75 power outlets	13137
	pushbuttons controls	13138
	identification	13141
Interface kit	INS40/63/80 A	13139
	modular switchgear up to 4 modules (e.g. residual current circuit breaker)	13140
Wiring strap		13946
Sealing kit		13947

Other accessories available for these enclosures⁽¹⁾:

Jack-up block, insulated terminal blocks, cable support sleeves, cable gland.

⁽¹⁾ the complete description of the various accessories is given on page E37 to E38.

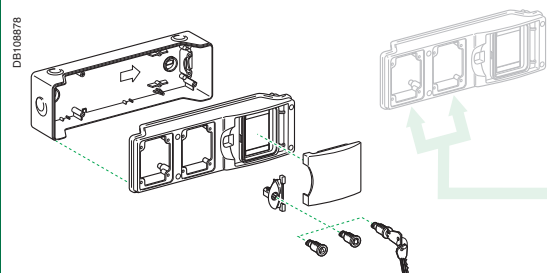
Modular Enclosures

Kaedra weatherproof enclosures

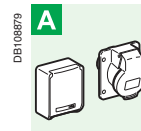
Kaedra

enclosures and mini enclosures for power outlets

Mini enclosures with 65 x 85 mm openings

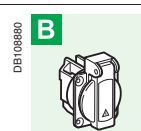


Direct
mounting



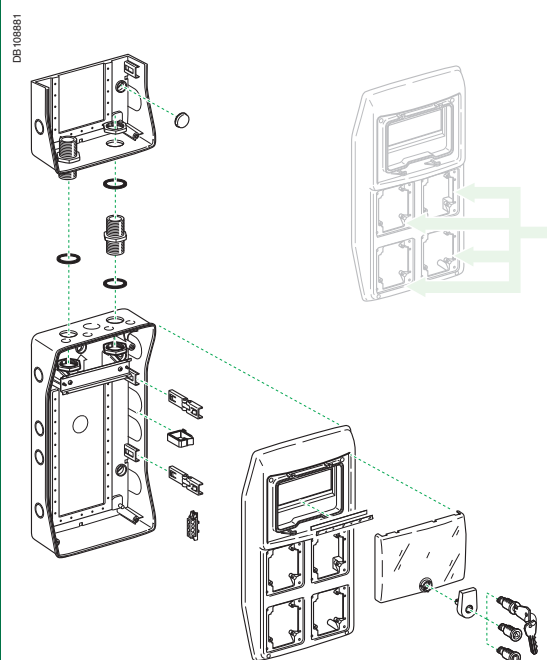
Domestic and LV power outlets (65 x 85 mm).

With plate cat. no. 13135



Power outlets (50 x 50 mm).

Enclosures with 90 x 100 mm openings

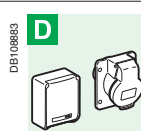


Direct
mounting



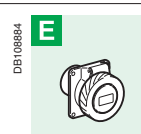
16/32 A slanting power outlets (90 x 100 mm).

With plate cat. no. 13136



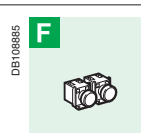
Domestic and LV power outlets (65 x 85 mm).

With plate cat. no. 13137



LV and ELV power outlets (65 x 65 mm and 75 x 75 mm).

With plate cat. no. 13138



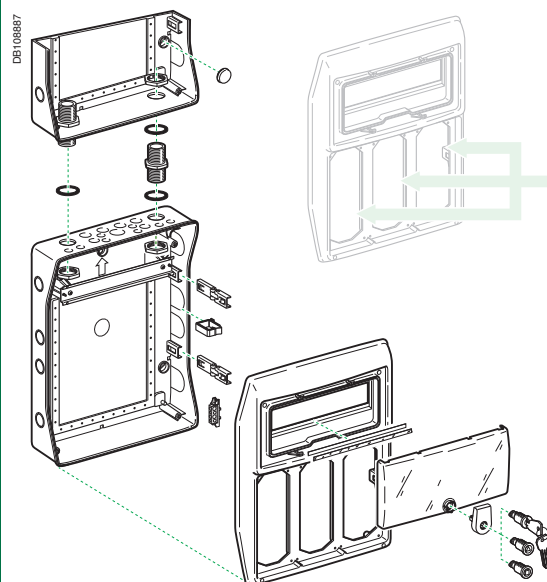
Buttons, indicator lights and switches 16 and 22 mm diameter.

With plate cat. no. 13141

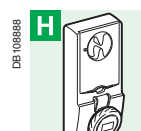


Identification label.

Enclosures with 103 x 225 mm openings

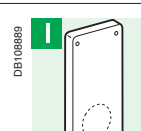


Direct
mounting



Power outlet interlocked or with safety transformer.

With plate cat. no. 13143



Blanking and adaptation plate to be drilled for 65 x 65 mm or 75 x 75 mm power outlet.

With plate cat. no. 13142

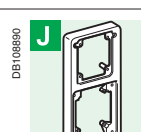
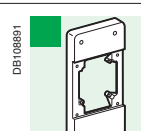


Plate with 2 openings:
■ 65 x 85 mm
■ 90 x 100 mm.

With plate cat. no. 13144



63 A LV power outlet (100 x 107 mm).

Modular Enclosures

Kaedra weatherproof enclosures

Kaedra

enclosures and mini enclosures for power outlets



Enclosures offering:

- a zone for industrial or domestic power outlets, buttons or indicator lights
- a row for modular switchgear protecting power outlets.



Enclosure and mini enclosure for power outlets

	Mini enclosures			Enclosures					See previous page
Nbr of mod.	4	4	4	5	8	12+1	12+1	18+1	0
	13175	13176	13177	13178	13179	13180	13181	13182	13993 13994

Enclosures for interlocked power outlets					Versatile enclosure
Nbr of mod.	5	8	12+1	18+1	
	13185	13186	13187	13188	See overleaf

Note: to mount other power outlets (e.g. 125 A, 100 x 114 mm), see versatile enclosures for power outlets pages E35 - E36.

Technical data

- self-extinguishing insulating material
- operating temperature: -25°C to +60°C
- colour: light grey RAL 7035 and transparent green wicket gate
- IP65 as per IEC 60529
- IK09 as per EN 50102
- class 2: total insulation
- flame and abnormal heat resistance: 650°C as per IEC 60695-2-1
- complies with standard IEC 60439-3
- resistance to chemicals and atmospheric agents.

Enclosure catalogue numbers

Data										Accessories delivered with an enclosure catalogue number ⁽²⁾								Cat. No.			
Total mod.	open	M	16	20	25	32	50	Dimensions (mm)			Wiring strap	terminal block support	terminal block number of holes	plates cat. no.							
		PG		11		16	21	29/36	W	H	D			4	8	16	13135		13136	13138	13143
Mini enclosures for power outlets (65 x 85 mm openings)																					
4	1					1			98	248	98.5			1							13175
4	2						1			98	310	98.5			1			1			13176
4	3						1			98	392	98.5			1			1			13177
Enclosures for power outlets (90 x 100 mm openings)																					
5	2				1	1	1		138	460	160			1				2	1		13178
8	4				2	2	3		236	460	160	2	1		1			4	1		13179
12+1	3		6	6	2	3			340	335	160	2	1		1			3	1		13180
12+1	6		6	6	2	3			340	460	160	2	1		1			6	2		13181
18+1	8			10	4	2	1		448	460	160	2	1			1		8	2		13182
Enclosures for interlocked power outlets (103 x 225 mm openings)																					
5	1				1	1	1		138	460	160			1							13185
8	2				2	2	3		236	460	160	2	1		1					1	13186
12+1	3		6	6	2	3			340	460	160	2	1		1					1	13187
18+1	4			10	4	2	1		448	460	160	2	1		1		1			1	13188

(1) Concentric pre-cutouts of the PG and ISO/metric type (EN 50262).

(2) Accessories also delivered:

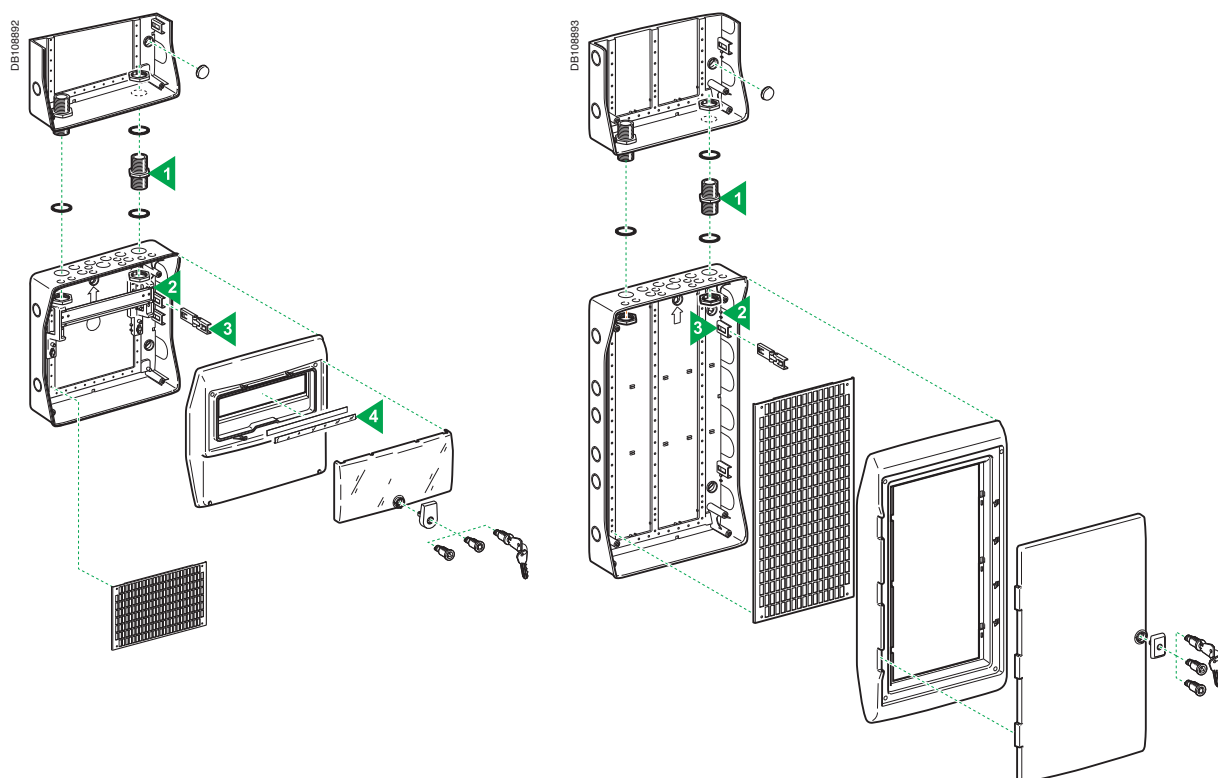
- mini enclosures: class II plugs
- enclosures: class II plugs, blanking plates (5 modules of 18 mm per row) and a marking kit.

Modular Enclosures

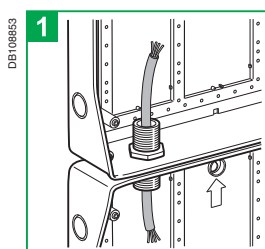
Kaedra weatherproof enclosures

Kaedra

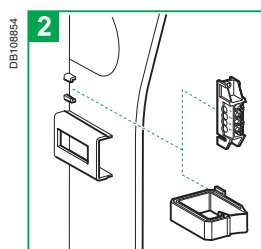
versatile weatherproof enclosures



A few tricks

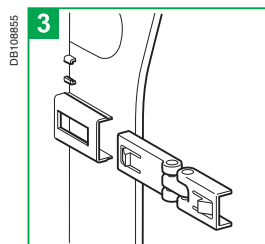


Add-on possibility
Enclosures can be horizontally or vertically associated keeping the IP65 and allowing cable insertion.

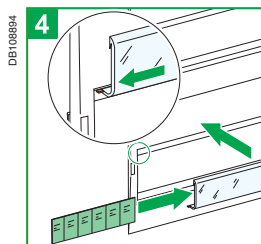


Dovetails
Arranged on the back and on the chassis, they can accommodate:

- 4-hole terminal blocks
- wiring straps.



Back/front face hinges
Clipped onto the right or left, they simplify cabling and working.



Marking
Clip-on label covers ensure neat, quick and upgradeable marking.

Modular Enclosures

Kaedra weatherproof enclosures

Kaedra

versatile weatherproof enclosures



The opaque door versatile enclosure provides a zone to install non-modular switchgear.

The versatile enclosure for power outlets provides a row for modular switchgear and a universal zone.



Opaque door Versatile Kaedra enclosure.



Versatile Kaedra enclosure for power outlets.

Opaque door versatile enclosures

340 x 460	340 x 610	448 x 460	448 x 610	448 x 842
13195	13196	13197	13198	13199

Versatile enclosures for power outlets

138 x 460 5 modules	236 x 460 8 modules	340 x 335 12+1 modules	340 x 460 12+1 modules	448 x 460 18+1 modules
13189	13190	13191	13192	13193

Mechanical data

Opaque door versatile enclosure

- delivered with a slotted mounting plate mounted at the back
- available depth for installation of non-modular switchgear on mounting plate: 130 mm
- reversible front face to change door opening direction.

Technical data

- self-extinguishing insulating material
- operating temperature: -25°C to +60°C
- colour: light grey RAL 7035
- IP65 as per IEC 60529
- IK09 as per EN 50102
- class 2: total insulation
- flame and abnormal heat resistance: 650°C as per IEC 60695-2-1
- complies with standard IEC 60439-3
- resistance to chemicals and atmospheric agents.

Note: versatile enclosures for power outlets can accommodate power outlets up to 125 A.

Enclosure catalogue numbers

Dimensions (mm)			Nbr. of modules	Pre-cutout (top and bottom) ⁽¹⁾						Cat. No. (2)
W	H	D		M	16	20	25	32	50	
				PG		11	16	21	29/36	
Opaque door versatile enclosures										
340	460	160			6	6	2	3		13195
340	610	160			6	6	2	3		13196
448	460	160				10	4	2	1	13197
448	610	160				10	4	2	1	13198
448	842	160				10	4	2	1	13199
Versatile enclosures for power outlets										
138	460	160	5			1	1	1		13189
236	460	160	8			2	2	3		13190
340	335	160	12+1		6	6	2	3		13191
340	460	160	12+1		6	6	2	3		13192
448	460	160	18+1			10	4	2	1	13193

⁽¹⁾ Concentric pre-cutouts of the PG and ISO/metric type (EN 50262).

⁽²⁾ Accessories also delivered:

- opaque door versatile enclosures: class II plugs, mounting plate
- versatile enclosures for power outlets: class II plugs, blanking plates (5 modules of 18 mm) and marking kit.

Catalogue numbers of the main accessories ⁽¹⁾

Name	Catalogue number
Association kit	13934
Wall mounting lug	13935
Jack-up block	13938
Junction for trunking	13939
Wiring strap	13946
Slotted mounting plate 150 x 250	13941

⁽¹⁾ the complete description of the various accessories is given on page E37 - E38.

Description

For enclosure implementation

- **association kit:** used for horizontal or vertical association of two enclosures with one another while preserving IP65
- **wall mounting lugs:** used to fix the enclosure to the wall without using holes in the back of the enclosure
- **row separator:** used to create IP2 insulated zones. For example: separate strong and weak current zones
- **jack-up block:** used to detach the enclosure from the wall in order to route cables behind the enclosure (2 lengths of 1 metre to be cut)
- **plain front plate:** used to hide a zone without modular switchgear
- **blanking plate:** clipped onto the front plates to conceal slots with no devices
- **junction for trunking:** allows tidy incoming of cables in a trunking.

For switchgear implementation

- **functional plates for 90 x 100 mm slot:**
 - adaptation (screwed on) for 65 x 85 mm power outlets
 - blanking or adaptation (screwed on) for 65 x 65 mm or 75 x 75 mm power outlets (slot to be punched out)
 - blanking or adaptation (clipped on) for buttons, indicator lights and switches of diameters 16 and 22 mm (1 central slot or 2 side by side to punch out).
 - blanking for identification (clipped on)
- **functional plates for 103 x 225 mm slot:**
 - adaptation (screwed on) with 2 openings: 65 x 85 mm and 90 x 100 mm.
 - blanking adaptation (screwed on) offering 1 slot for 65 x 65 mm or 75 x 75 mm power outlets (to be punched out) and a versatile zone
 - adaptation (screwed in) for 63 A 100 x 107 mm LV power outlet
- **interface kit for 90 x 100 mm slot for:**
 - INS40 to 80 A (chassis + plate)
 - Modular switchgear up to 4 modules
 - e.g. residual current circuit breaker (chassis + plate + membrane)
- **slotted plate (150 x 250 mm):** screwed onto the back of the enclosure, used to fix non-modular devices.

For electrical connection

- **terminal block support:** flat iron (12 x 2 mm), 2 versions: screwed onto the pins or onto the chassis
- **set of insulated terminal blocks with IP42 covers:**
 - 4 holes: clipped onto the terminal block supports, fixed onto walls by dovetails,
 - 8 holes: clipped onto the terminal block supports, clipped onto DIN symmetrical rail, screwed onto the back
 - 32 holes: clipped onto the terminal block supports
- **wiring strap:** used to guide cables along walls for simplified cabling (set of 5)
- **cable support sleeves:** used for incoming flexible cables
- **cable glands:** used for cable and tube incoming, guaranteeing tightness and mechanical withstand.

For identification

- **self-adhesive symbol:** allows identification of feeders by symbols:
 - currents: loads (power outlet, lighting, convactor, etc.), places (bedroom, bathroom, etc.)
 - special: loads (surge arrester, gate, swimming pool, etc.), places (technical room, computer room, etc.)
- **self-adhesive sheets for SISmarker printing:** allows printing of customised labels using the SISmarker software.

For enclosure protection

- **sealing kit:** used to seal the front face on the back (2 screws) and the front plates on the front face (4 kits)
- **keylock:** Eurolocks combination no. 850. Installed in the door
- **insert** (male square or triangle, female key supplied): installed in the door.

For enclosure maintenance

- **front plate**
- **chassis 1 row:** can be combined to obtain a multi row chassis.

Terminal block composition

Number of holes		Width in mm
Total	Cross section in mm²	
	10	16
4	2	2
8	4	4
32	16	16
		85
		85
		202

Catalogue numbers

Name	Description	Use mini enclosures										Cat. No.
												
For enclosure implementation												
Association kit	2 sleeves + 4 nuts + 4 joints											13934
Wall mounting lugs (set of 4)												13935
Row separator	12 modules wide											13936
	18 modules wide											13937
Jack-up block												13938
Junction for trunking	enclosure 340 mm wide											13939
	enclosure 448 mm wide											13929
Blanking plate (set of 10 x 5 modules)												13940
For switchgear implementation												
Plate for 85 x 65 slot for 50 x 50 power outlets												13135
Plate for 90 x 100 slot for	65 x 85 power outlets											13136
	65 x 65 and 75 x 75 power outlets											13137
	ø 16 and 22 mm pushbutton controls											13138
	blanking and identification											13141
Kit for 90 x 100 slot for	INS40/63/80 A											13139
	residual current circuit-breakers											13140
Plate for 103 x 225 slot for	one 85 x 65 + one 90 x 100 slot											13142
	blanking (blank to be slotted) (for 65 x 65 or 75 x 75 mm power outlet)											13143
	63 A LV power outlet (100 x 107 mm)											13144
Front plate	plain											13944
	12 modules											13945
	18 modules											13945
Slotted plate	150 x 250 mm											13941
For electrical connection												
Terminal blocks kit	5 x 4 holes (2 blue, 3 black)											13445
	2 black covers											
	2 green covers											
Terminal blocks kit	1 x 8 holes (blue)											13446
	1 green cover											
	1 support for 8 back mounting											
Terminal blocks kit	1 x 8 holes (blue)											13448
	1 green cover											
	1 support for 12 back mounting											
Terminal blocks kit	1 x 32 holes (blue)											13450
	1 green cover											
	1 support for 18 back mounting											
Terminal block support for mini enclosure	4 modules											13361
	6 modules											13362
	8 modules											13363
	12 modules											13364
Terminal block support for mounting on chassis	12 modules											13599
	18 modules											13595
Cable support sleeves varied diameter bag												14190
Cable gland	PG11											83992
	PG13,5											83993
	PG16											83994
	PG21											83995
	PG29											83996
	PG36											83997
Wiring strap (set of 5)												13946
For marking												
Self-adhesive symbols	standard											13735
	special											13736
Self-adhesive sheets for SISmarker printing												13260
For enclosure protection												
Sealing kit												13947
Keylock												13948
Insert	triangle											13949
	square											13950
For enclosure maintenance												
Front plate	12 modules											10200
	18 modules											10209
Chassis 1 row	12 modules											10210
	18 modules											10220

Modular Enclosures

Kaedra weatherproof enclosures

Kaedra

Multipole splitter blocks

40 to 125 A stepped splitter blocks

Can be used in all types of enclosures, for distribution:

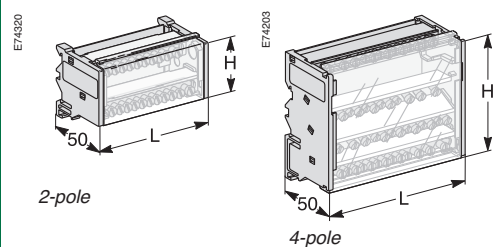
- from the incoming switchboard unit to sets
- from the incoming switchboard unit to devices
- from an incoming set to devices



2-pole

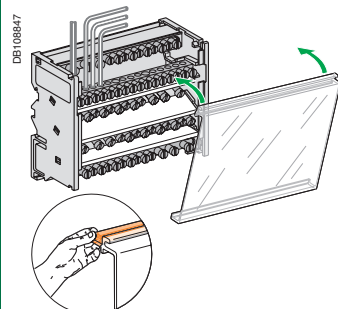
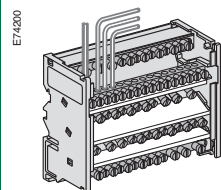
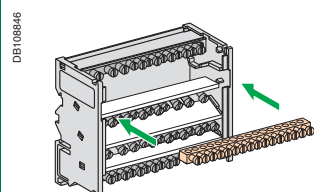


4-pole



2-pole

4-pole



Stepped splitter blocks are designed to distribute current in Pragma modular enclosures, in Prisma functional enclosures and in all types of enclosures.

- installation on DIN or Multifix rail; they can also be screwed onto a mounting plate or enclosure back
- delivered with cover and insulating back
- inter-insulated bars
- delivered with open screws (Posidriv recess + slot screws)
- incoming cable connection holes: staggered from bar to bar
- possibility of attaching Telemecanique markers on the bars' insulator for circuit identification.

Electrical data

- conform to standard EN 60947-7-1
- degree of pollution: 3
- nominal current: 40, 100 and 125 A
- permissible rated peak current I_{pk} : 20 kA
- rated short-time withstand current I_{cw} : 3.5 kA rms/1 s
- insulation voltage U_i : 500 V AC

40 to 125 A stepped splitter blocks

Type	Number/diameter (mm) of holes per phase:				Width in mod. of 9 mm	Dimensions	
		Ø 4.4	Ø 5.5	Ø 7	Ø 8.5	W (mm)	H (mm)
2-pole							
100 A	7 holes	3	3	1		7	62
125 A	13 holes	5	5	2	1	12	107
4-pole							
40 A	13 holes	11	2			10	89
100 A	7 holes	3	3	1		7	62
125 A	13 holes	5	5	2	1	12	107
125 A	17 holes	7	7	2	1	15	134

Min/max connection capacity per hole

Cable type	Ø 4.4	Ø 5.5	Ø 7	Ø 8.5
Rigid or semi-rigid	1.5.... 10 mm ²	2.5.... 16 mm ²	4.... 25 mm ²	16.... 35 mm ²
Flexible without end	1.5.... 6 mm ²	4.... 10 mm ²	6.... 16 mm ²	25 mm ²
Flexible with end	1.5.... 6 mm ²	1.5.... 10 mm ²	2.5.... 16 mm ²	10.... 25 mm ²

Nota: ends to be crimped: refer to the Telemecanique offers AZ5, DZ5, etc.

Neutral bar

To increase the number of neutral terminals, an additional neutral bar can be attached to the 4-pole terminal blocks **without increasing terminal block volume**. This bar is clipped on without tools; cut-outs need to be made in the cover in order to connect the cables (only from the top).

Catalogue numbers

100 to 125 A stepped 2-pole splitter block

100 A (2 x 7 holes)	13506
125 A (2 x 13 holes)	13507

40 to 125 A stepped 4-pole splitter block

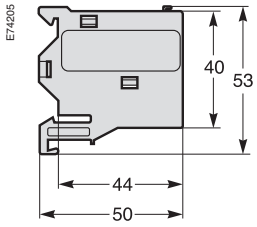
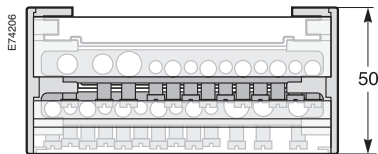
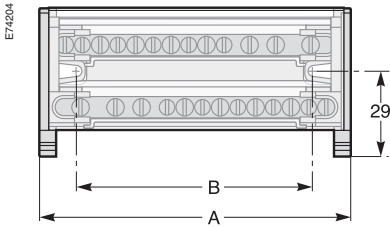
40 A (4 x 13 holes)	13508
100 A (4 x 7 holes)	13510
125 A (4 x 13 holes)	13512
125 A (4 x 17 holes)	13514

Additional neutral bar

40 A (for splitter block 13508)	13516
100 A (for splitter block 13510)	13515
125 A (for splitter block 13512)	13517
125 A (for splitter block 13514)	13518

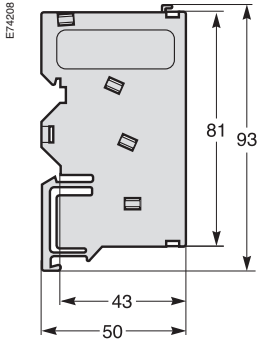
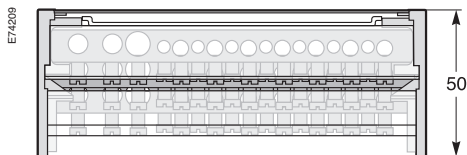
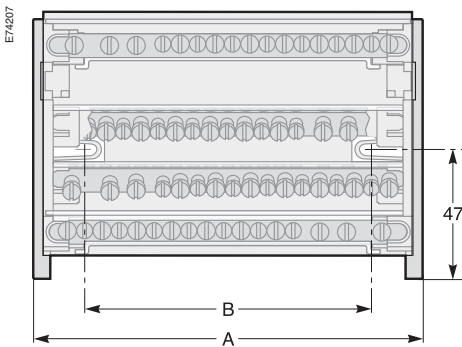
Kaedra
Multipole splitter blocks
Dimensions

40 to 125 A stepped splitter blocks
2-pole



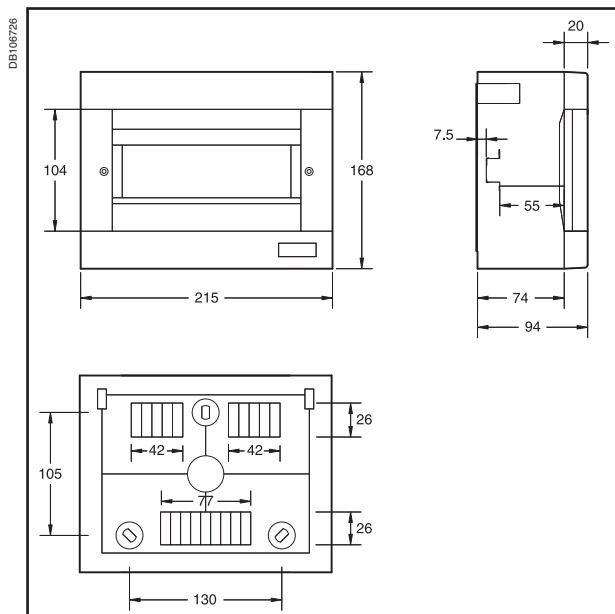
	A	B
100 A (7 holes)	62	37
125 A (13 holes)	107	82

4-pole

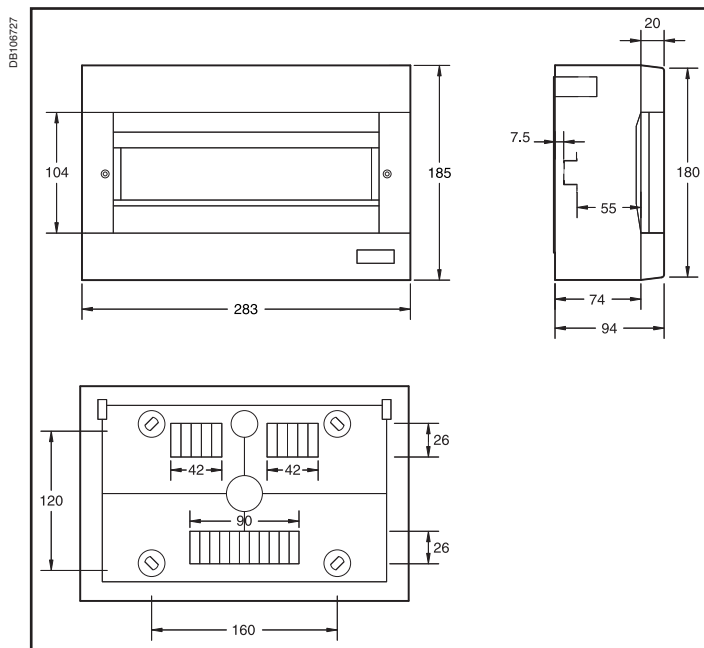


	A	B
40 A (13 holes)	89	63
100 A (7 holes)	62	37
125 A (13 holes)	107	82
125 A (17 holes)	134	109

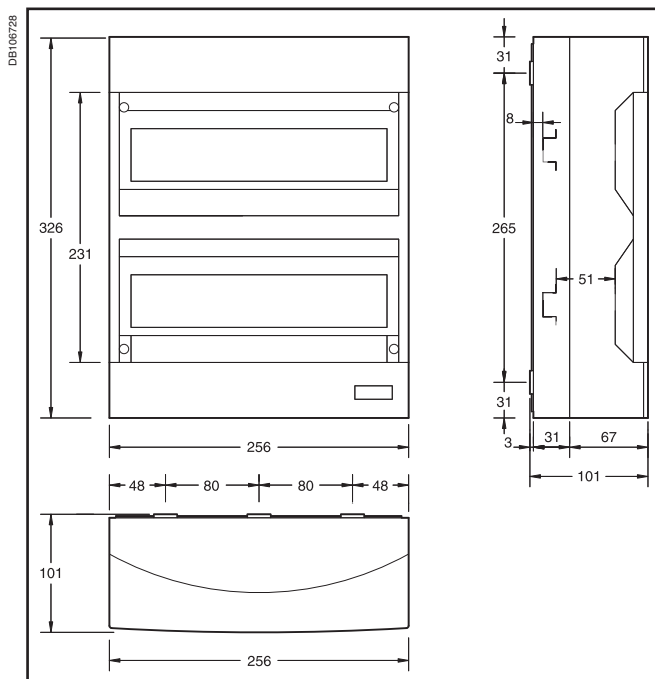
Surface mounting Mini Pragma L 1 row 8 modules



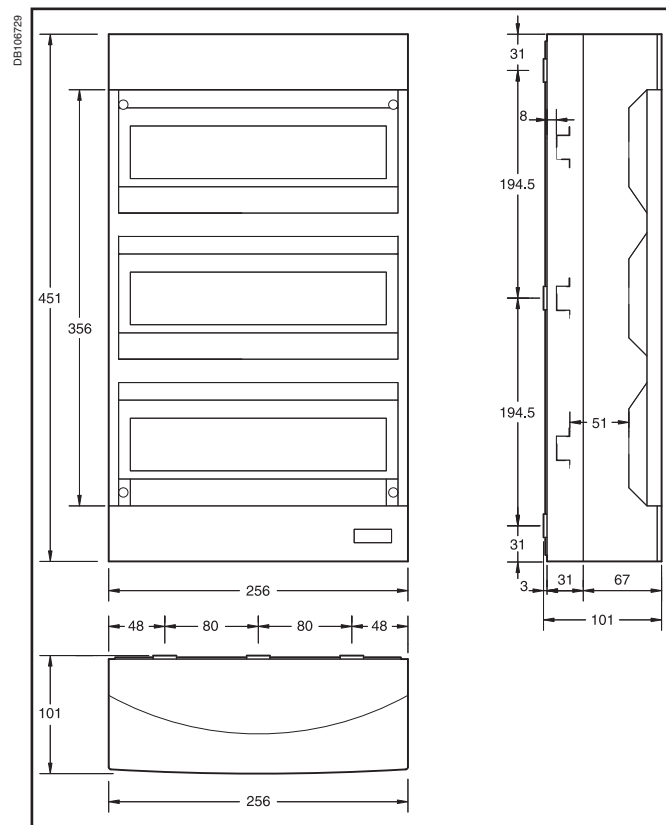
1 row 12 + 1 modules



Surface mounting Mini Pragma L 2 rows 24 modules

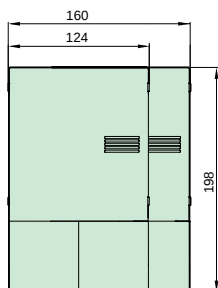


3 rows 36 modules

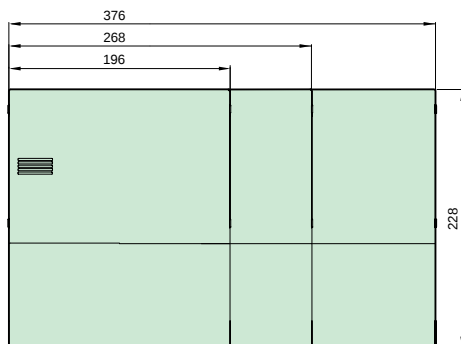


DB122738

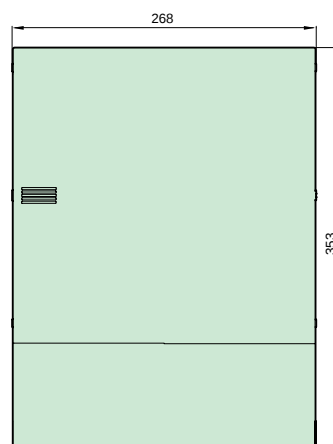
Front view



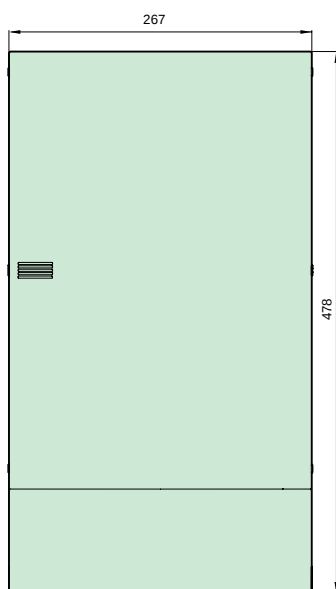
4, 6 modules



8, 12, 18 modules

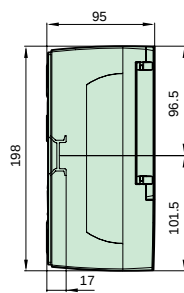


24 modules

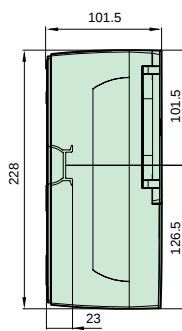


36 modules

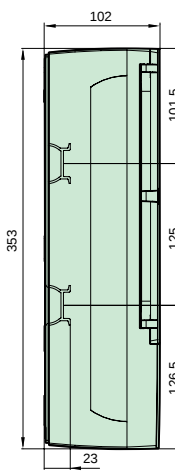
Side view



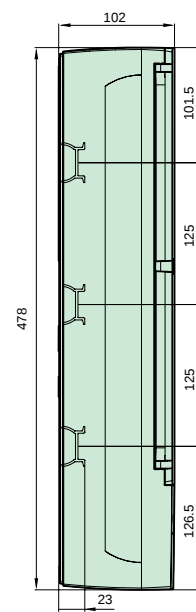
4, 6 modules



8, 12, 18 modules



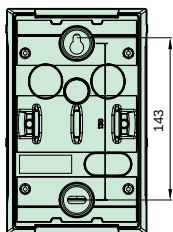
24 modules



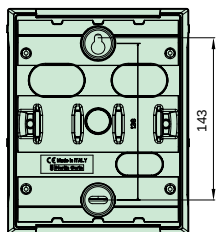
36 modules

DB122799

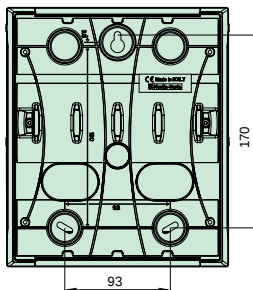
Inside view



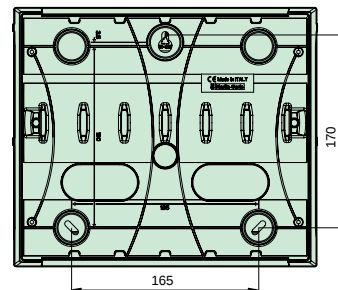
4 modules



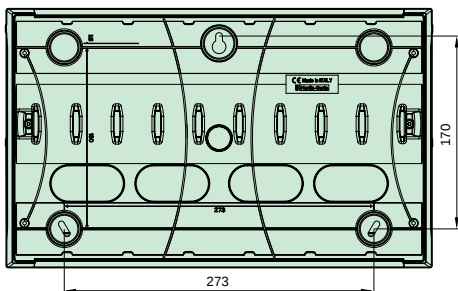
6 modules



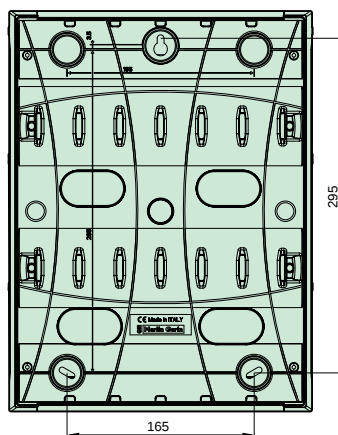
8 modules



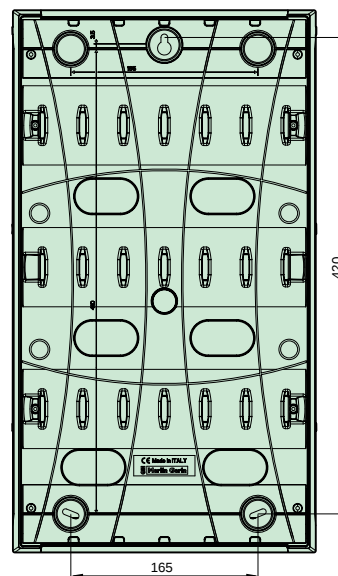
12 modules



18 modules



24 modules

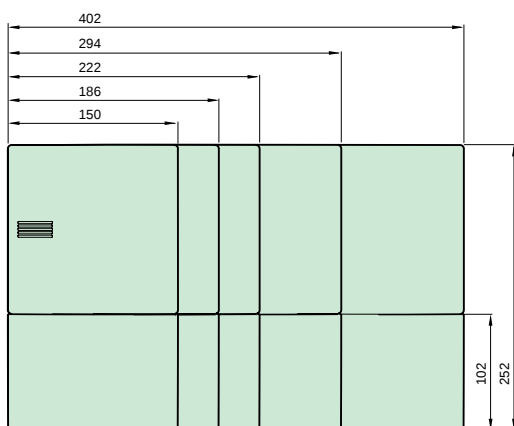


36 modules

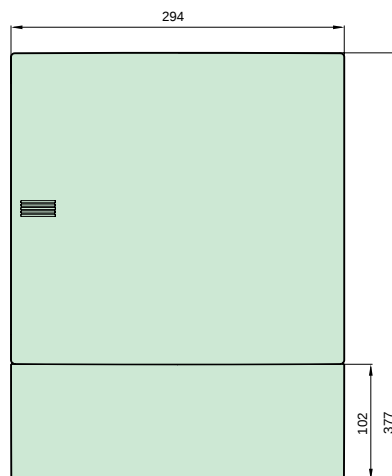
Mini Pragma

Flush mounting enclosures

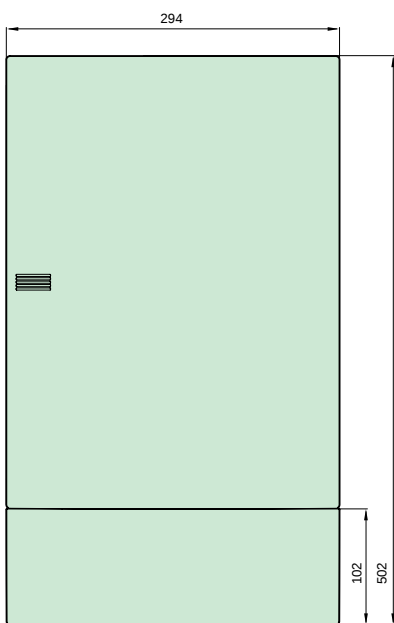
Front view



4, 6, 8, 12, 18 modules

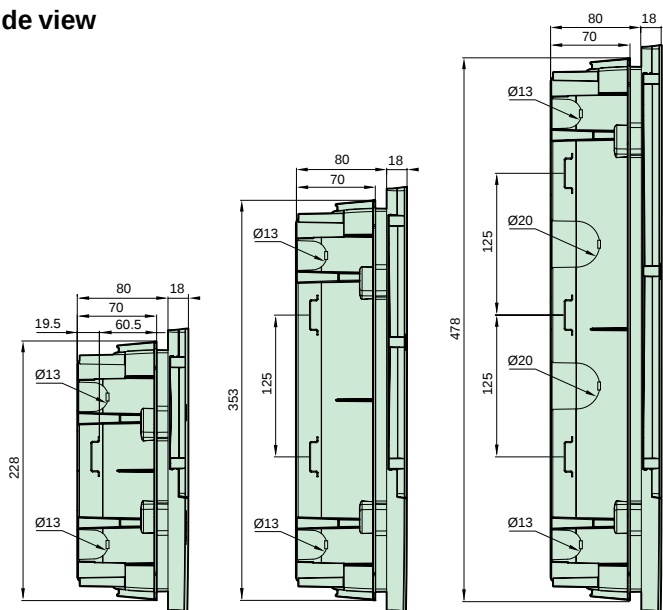


24 modules



36 modules

Side view

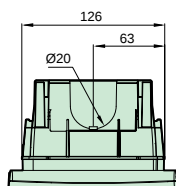


4, 6, 8, 12, 18 modules

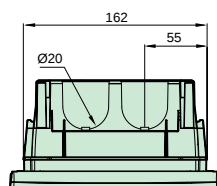
24 modules

36 modules

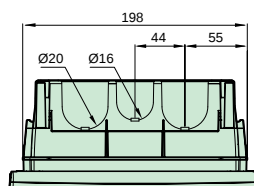
Top view



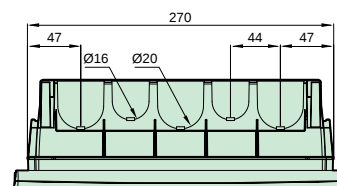
4 modules



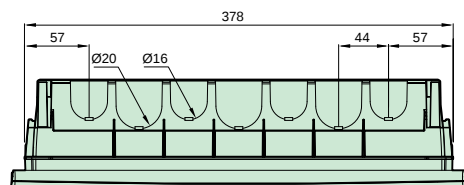
6 modules



8 modules

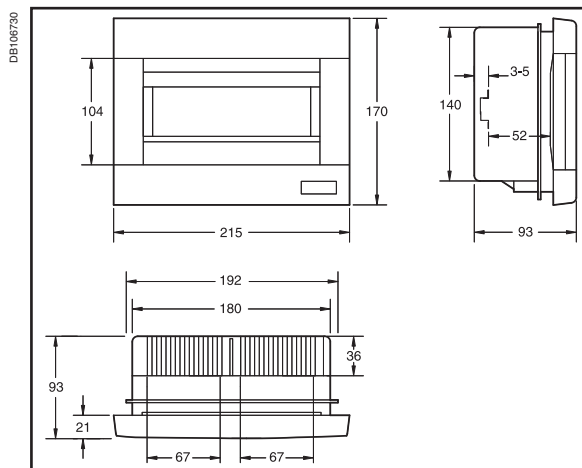


12, 24, 36 modules

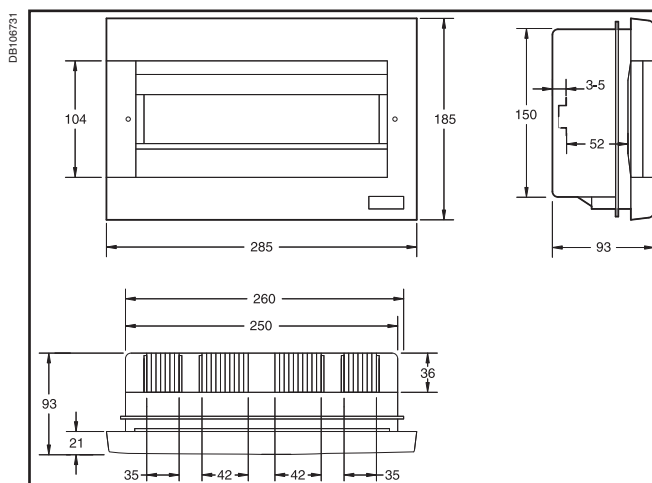


18 modules

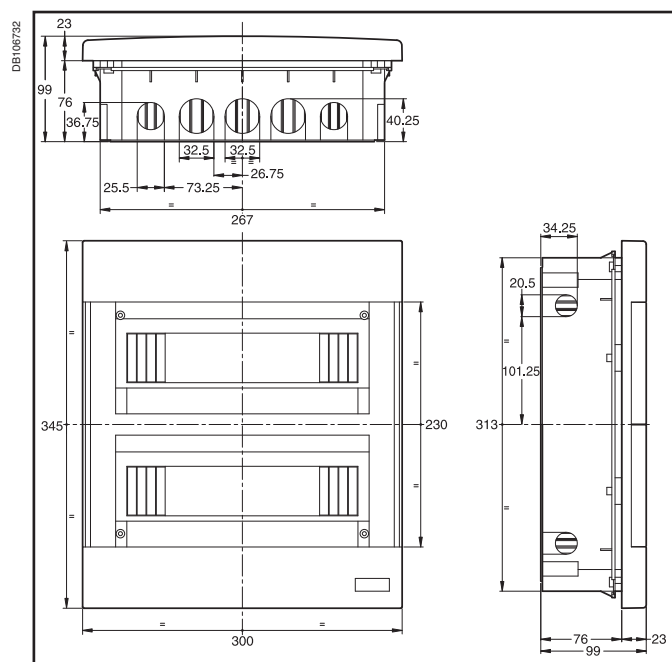
Flush mounting Mini Pragma L
1 row 8 modules



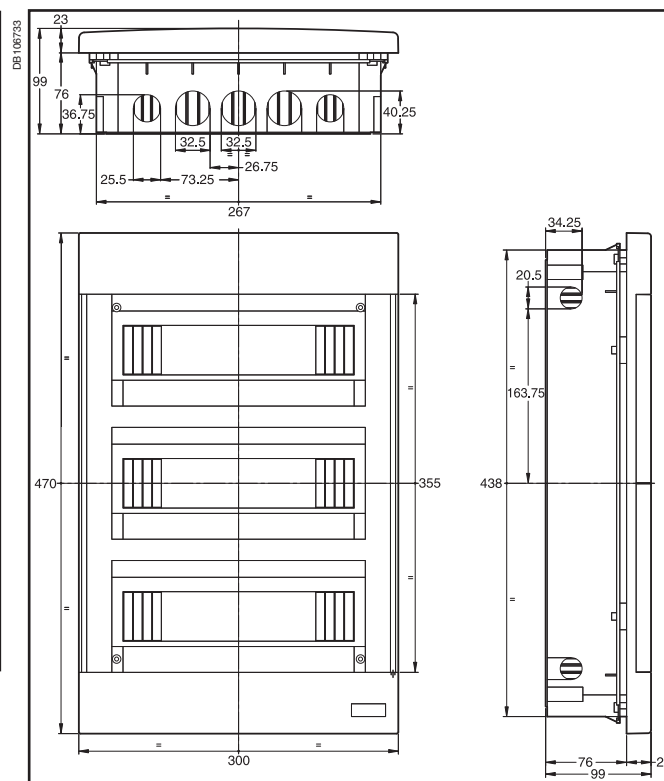
1 row 12 + 1 modules



Flush mounting Mini Pragma L
2 rows 24 modules



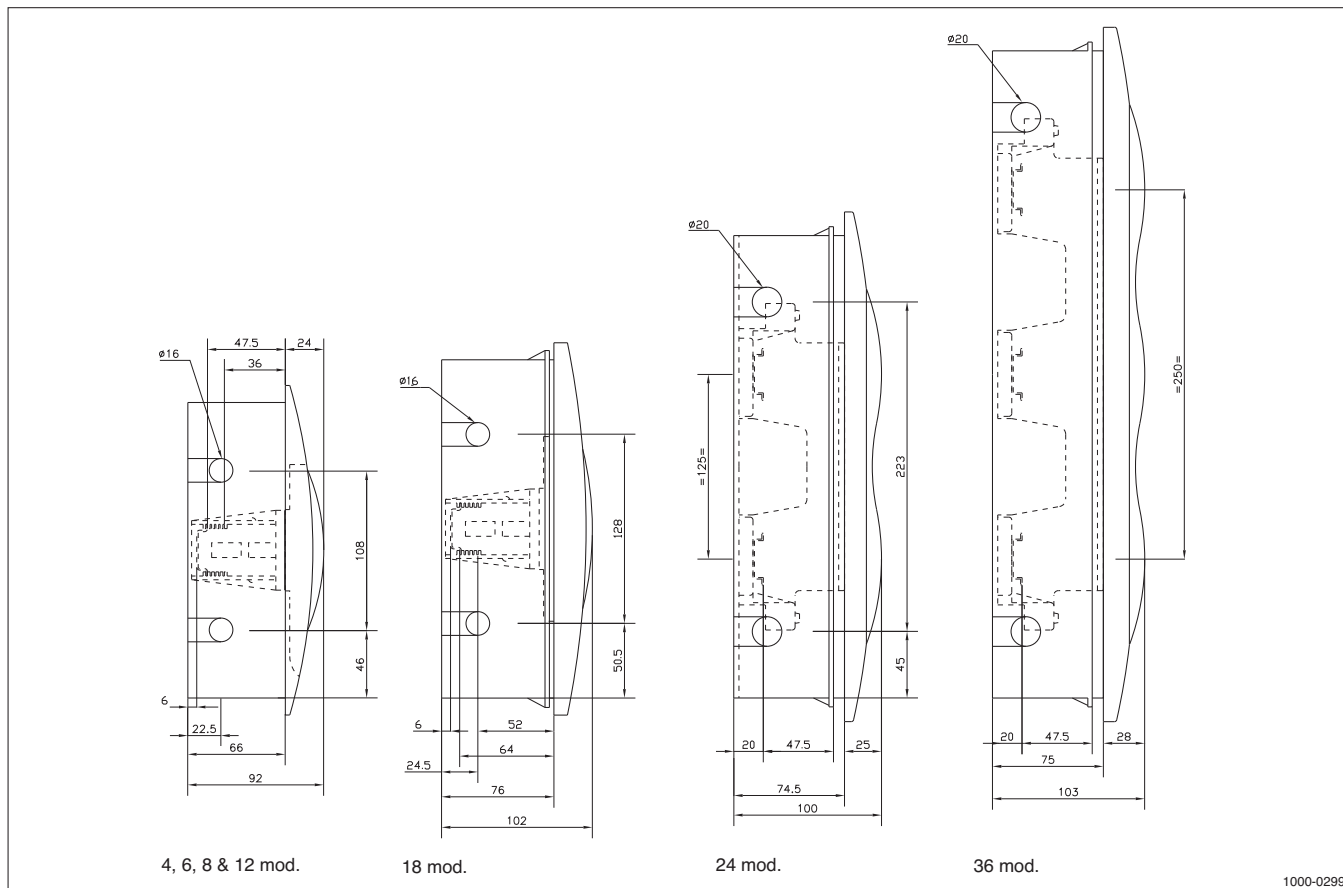
3 rows 36 modules



Mini Pragma dimensions

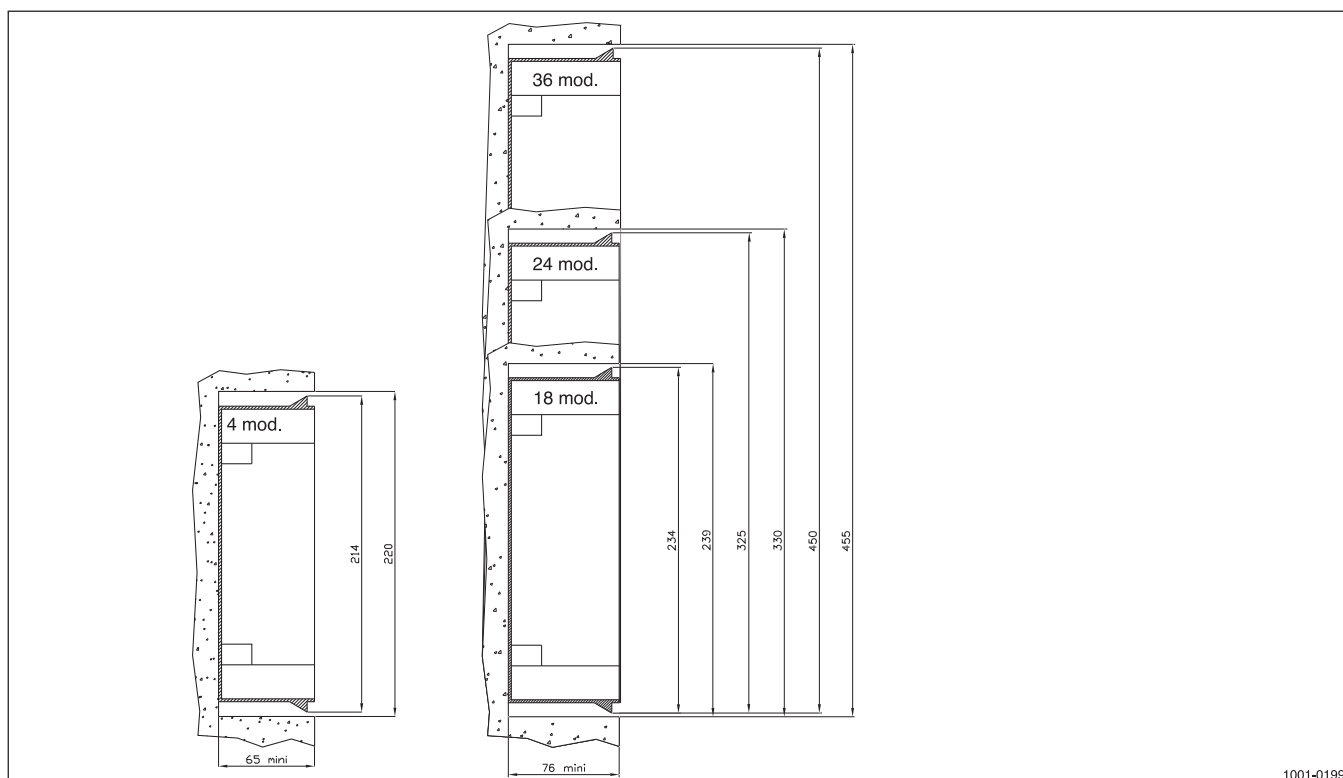
Flush mounting Mini Pragma L

Side view



1000-0299

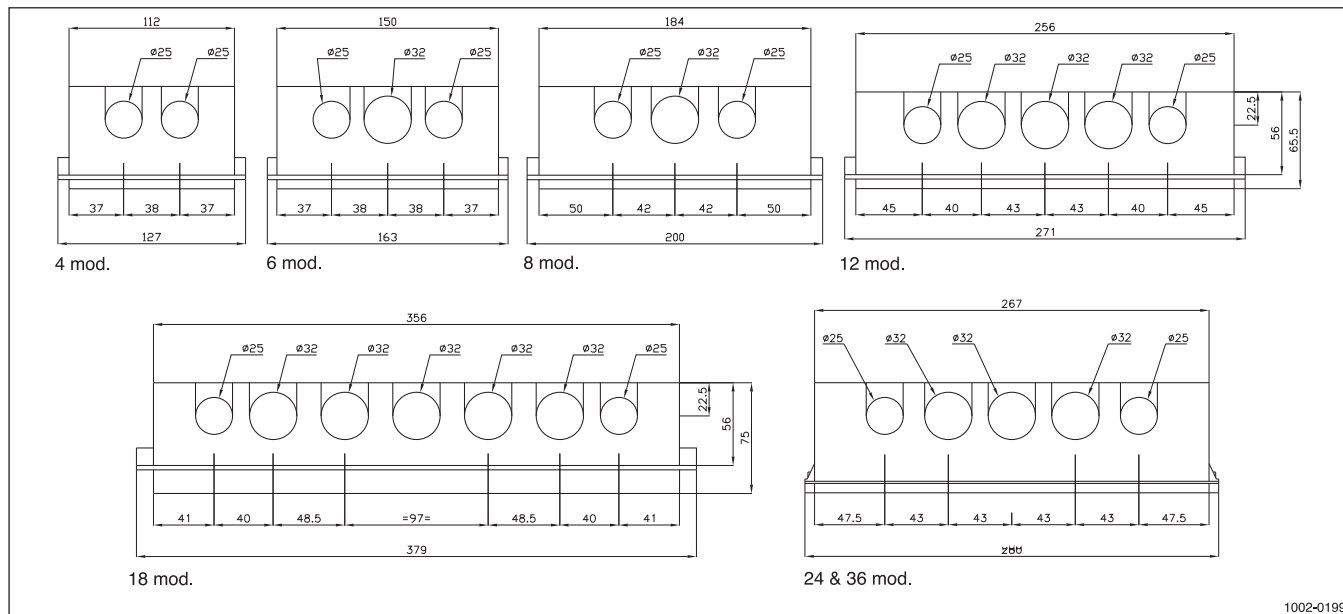
Flush mounting



1001-0199

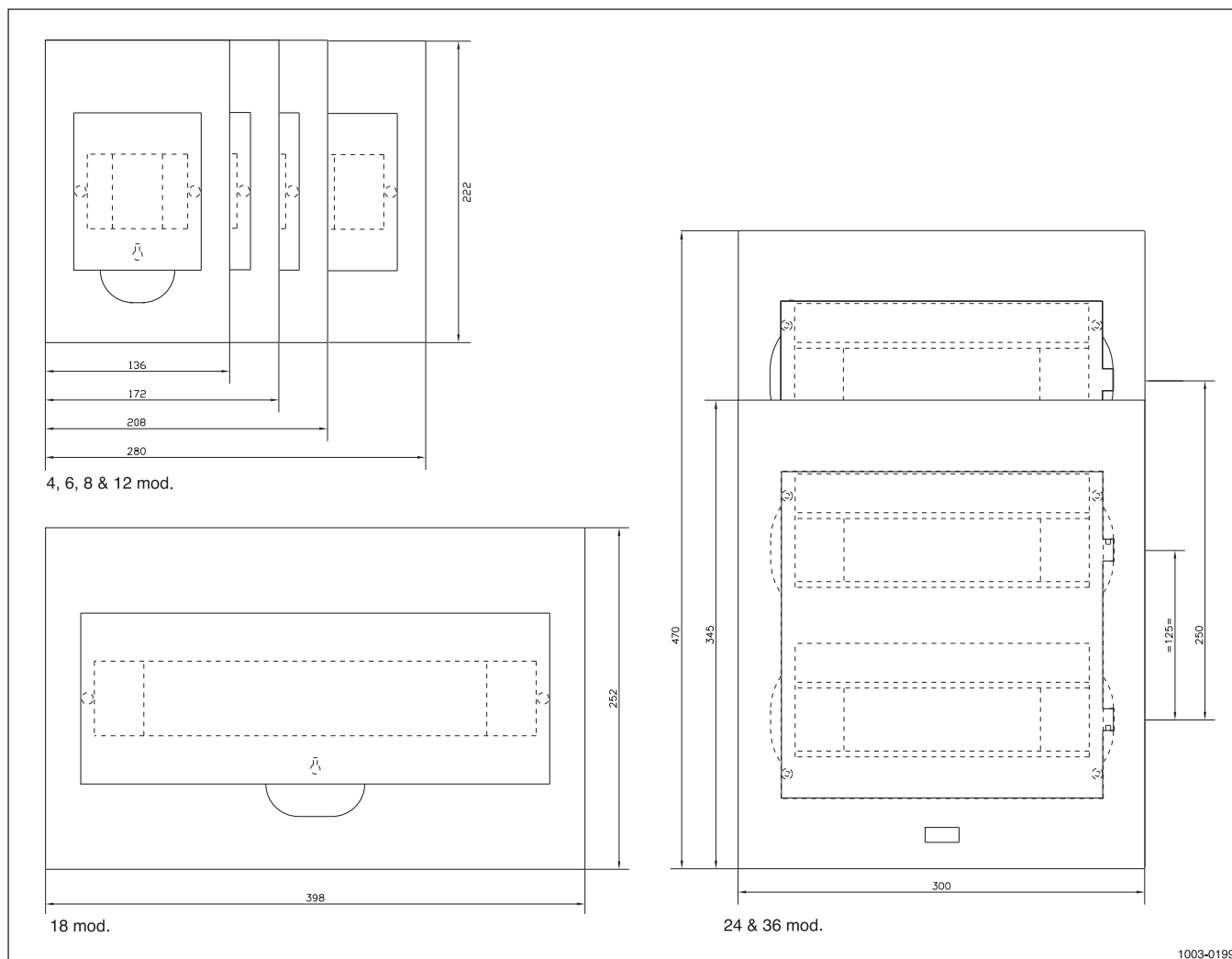
Flush mounting Mini Pragma (cont)

Top view



1002-0199

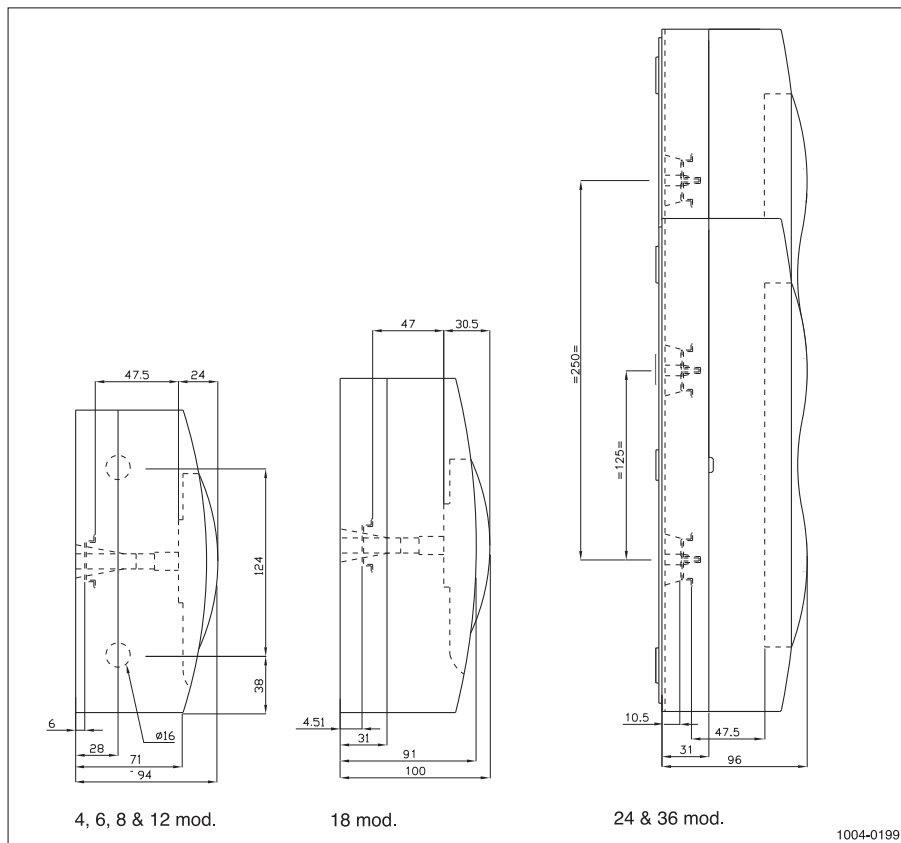
Front view



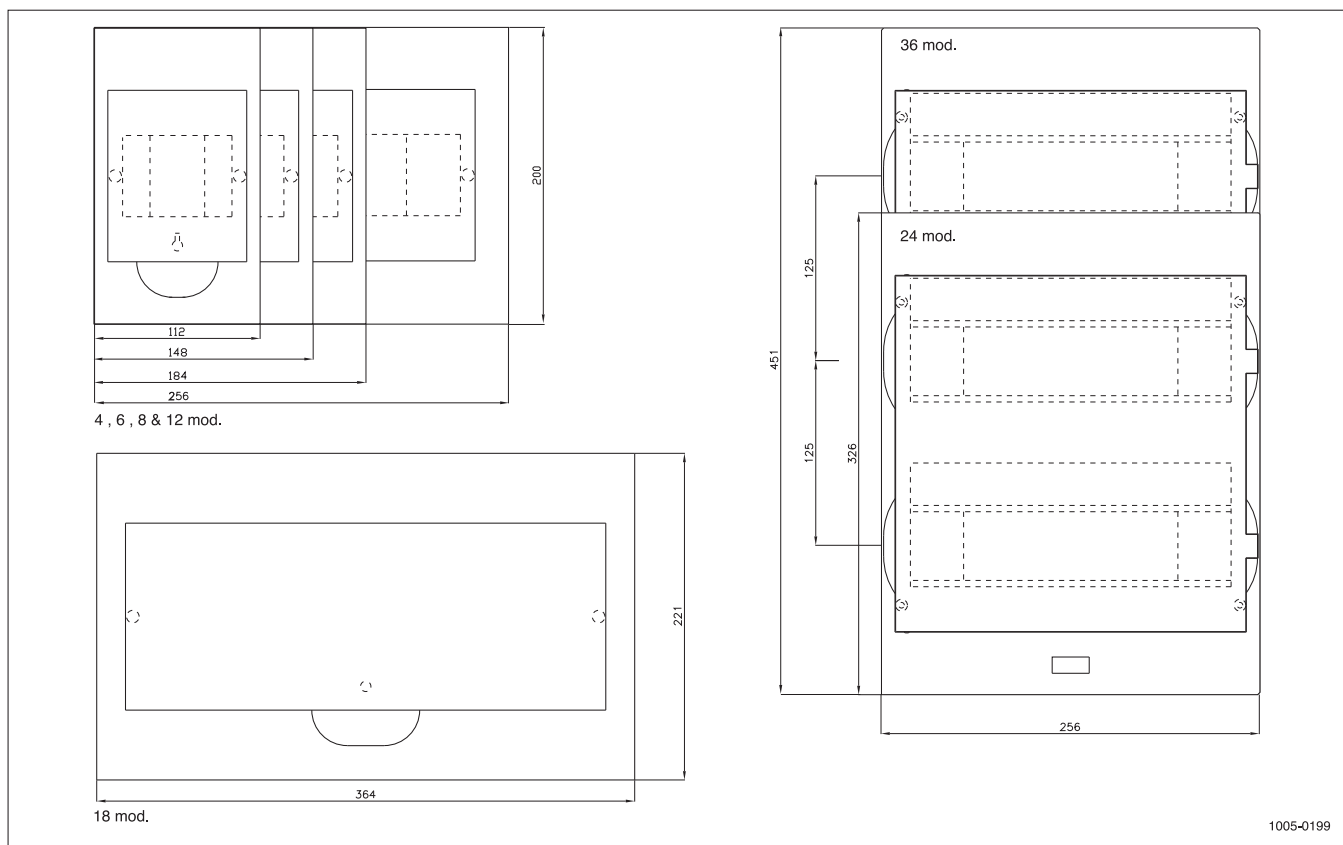
1003-0199

Surface mounting Mini Pragma

Side view

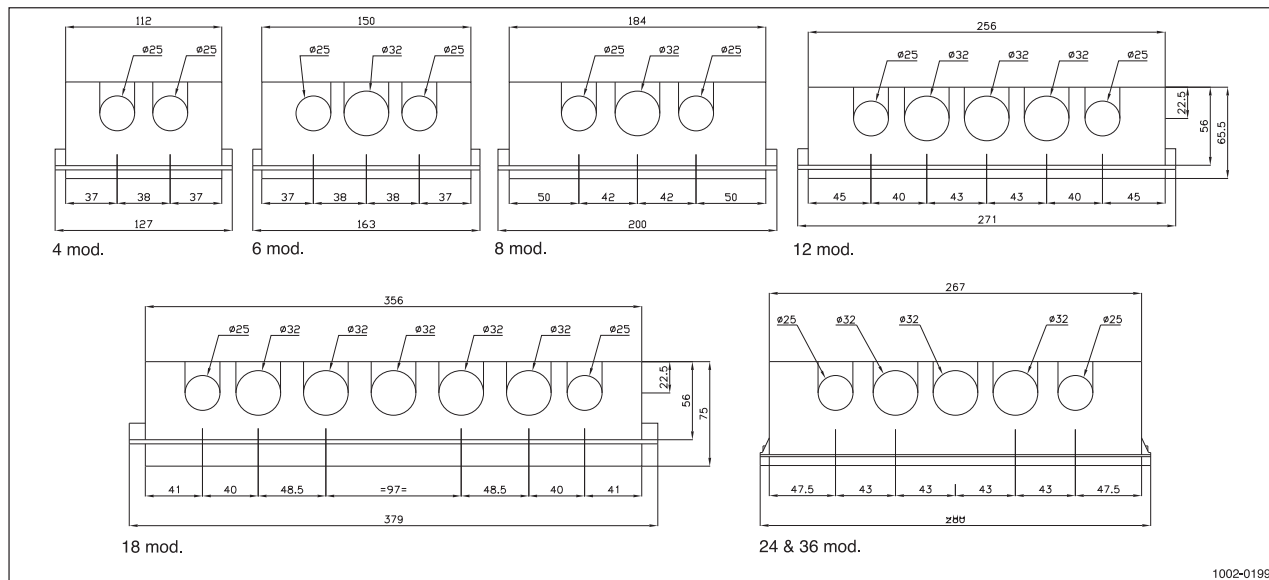


Front view



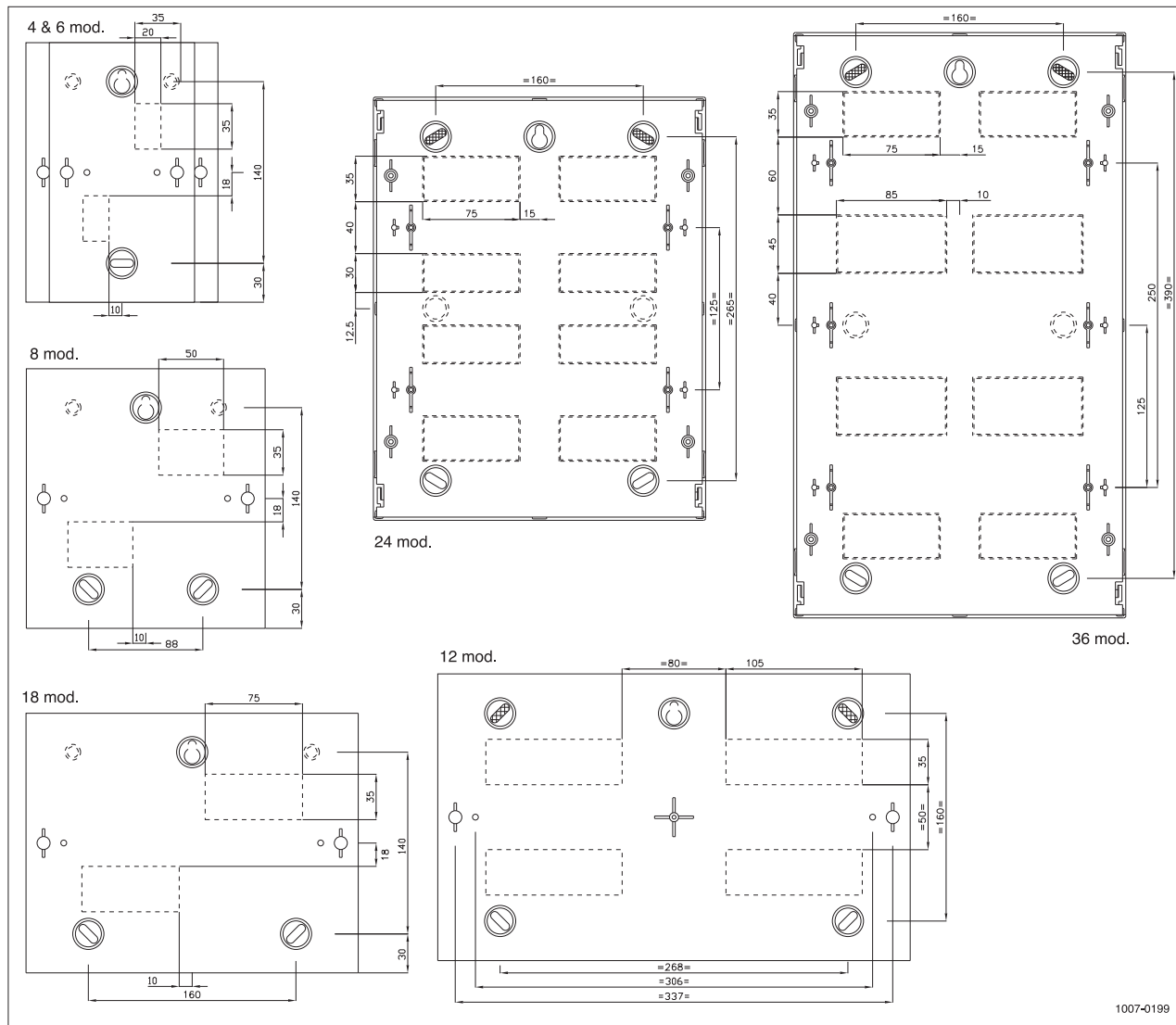
Surface mounting Mini Pragma (cont.)

Top view



1002-0199

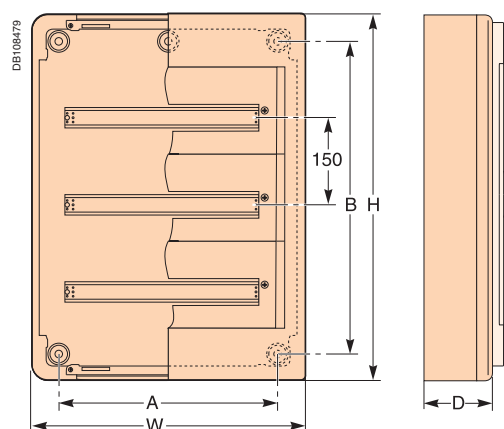
Back view



1007-0199

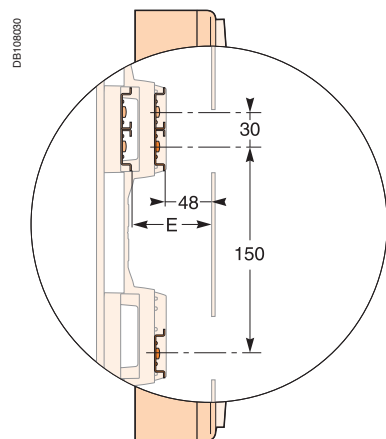
Pragma

Dimensions of surface-mounted enclosures and interfaces



Surface-mounted enclosures

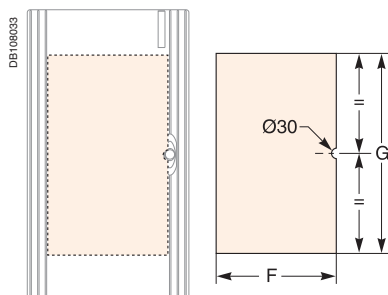
Enclosures		Dimensions (mm)								
		H	W	D	A	B	E	F	G	J
13 modules	1 R	300	336	123	160	200	73	193	149	
	2 R	450				350			299	
	3 R	600				500			449	
	4 R	750				650			599	
18 modules	1 R	300	426	125	250	200	73	343	149	
	2 R	450				350			299	
	3 R	600				500			449	
	4 R	750				650			599	
24 modules	1 R	300	550	148	340	150	84			121
	2 R	450				300				271
	3 R	600				450				421
	4 R	750				600				571
	5 R	900				750				721
	6 R	1050				900				871



The different positions of the DIN rail in height and depth.

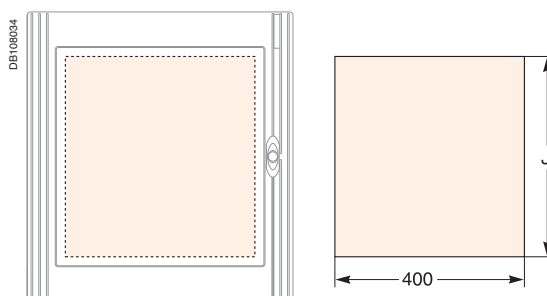
Panel for customisation of the transparent door

13- and 18-module enclosures

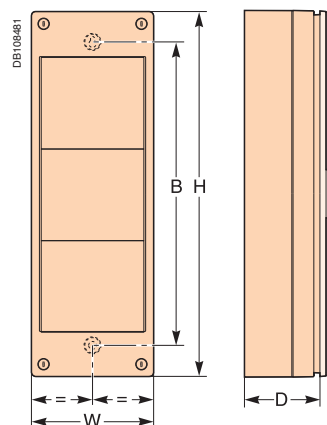


Panel thickness: 0.5 mm max.

24-module enclosures

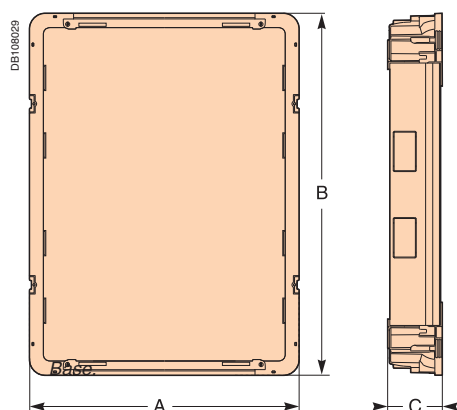


Panel thickness: 0.5 mm max.



Interfaces

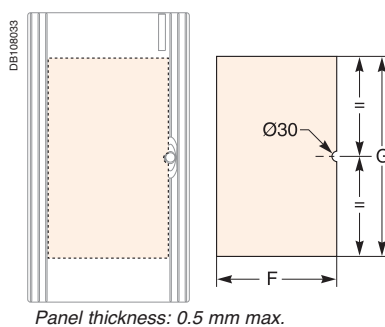
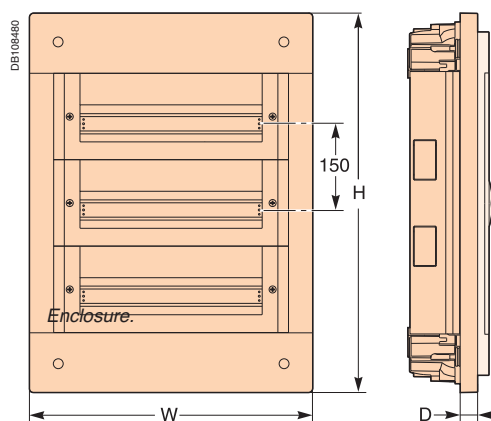
Interfaces	Association with enclosures	Dimensions (mm)			
		H	W	D	B
1 R	13 modules	300	200	123	260
2 R	18 modules	450			410
3 R		600			560
1 R	24 modules	300	200	125	260
2 R		450			410
3 R		600			560



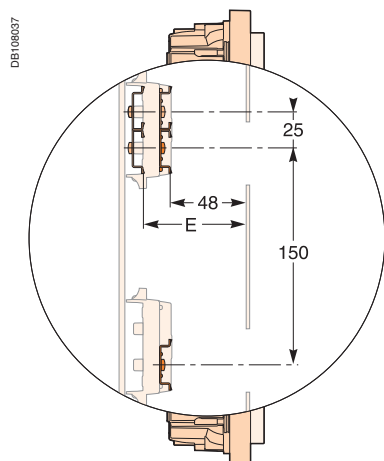
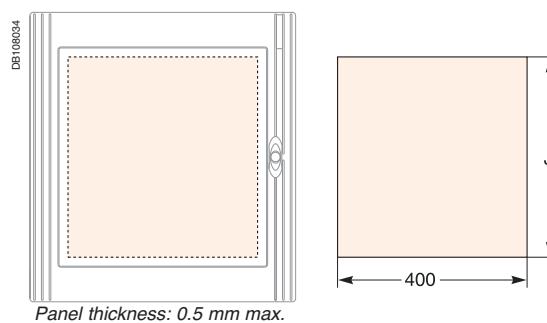
Enclosures		Dimensions (mm)									
		H	W	D	A	B	C	E	F	G	J
13 modules	1 R	360	396	21	366	330	86	67	193	149	
	2 R	510				480				299	
	3 R	660				630				449	
	4 R	810				780				599	
18 modules	1 R	360	486	23	456	330	86	67	343	149	
	2 R	510				480				299	
	3 R	660				630				449	
	4 R	810				780				599	
24 modules	1 R	360	610	30	570	330	95	73			121
	2 R	510				480					271
	3 R	660				630					421
	4 R	810				780					571
	5 R	960				930					721
	6 R	1110				1080					871

Panel for customisation of the transparent door

13- and 18-module enclosures

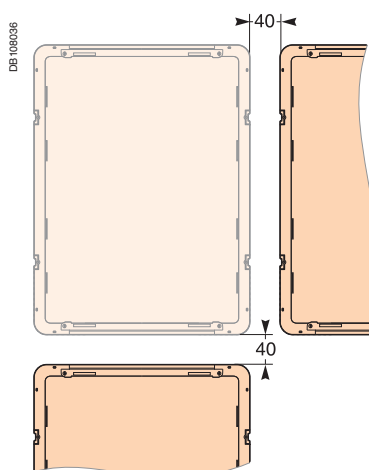


24-module enclosures



The different positions of the DIN rail in height and depth.

Horizontal and vertical association



Kaedra

Dimensions and weights

Pre-cutouts

The new European standard EN 50262 generalises metric dimensions for cable glands.

To simplify the transition, the entire Kaedra range is equipped with pre-cutouts both in ISO/metric standardisation and in PG standardisation. Each pre-cutout is marked:

- simple pre-cutout adapted to the metric cable gland:



- double pre-cutout:
 - external: pre-cutout adapted to the metric cable gland/ISO
 - internal: pre-cutout adapted to the PG cable gland.



Cable glands	
Type of pre-cutout	For cables of diameter (mm)
M16	4 - 8
M20	6 - 12
M25	12 - 18
M32	18 - 25
M50	30 - 38
PG11	5 - 10
PG16	10 - 14
PG21	14 - 17
PG29	19 - 26
PG36	22 - 32

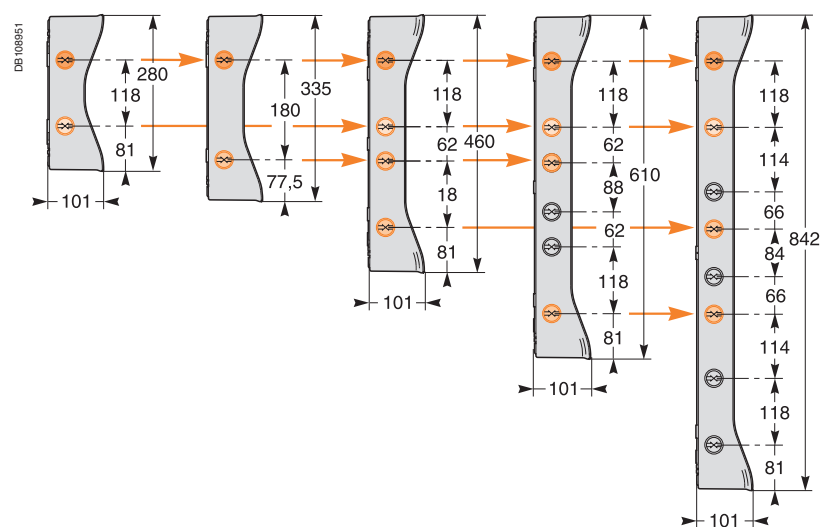
Associations

The enclosures can be associated:

- horizontally, regardless of their height (see diagram below)
- vertically, if their width is identical.

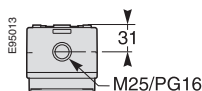
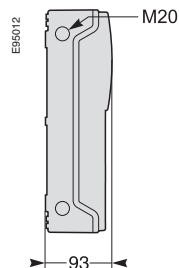
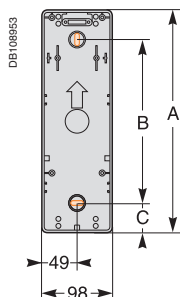
Use the association kit, cat. no. 13934 (2 sleeves + 4 nuts + 4 seals) in the M32 pre-cutouts marked with a double arrow.

Insertion of cables between the enclosures is possible, while preserving the degree of protection IP65.



Weatherproof mini enclosures

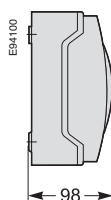
Weatherproof mini enclosures for power outlets



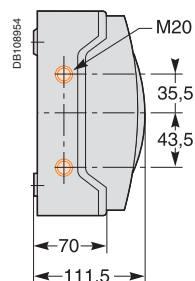
A	B	C	Weight (g)
248	166	41	550
310	228	41	600
392	310	41	700

Weatherproof mini enclosures for modular switchgear

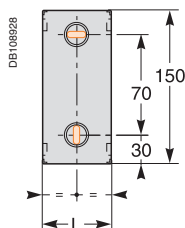
3 modules



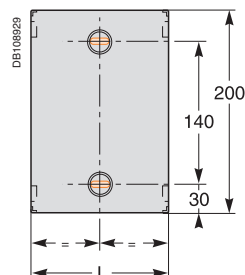
4, 6, 8 and 12 modules



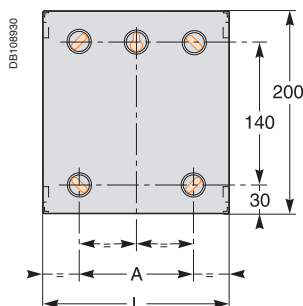
3 modules



4 and 6 modules

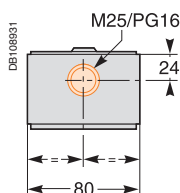


8 and 12 modules

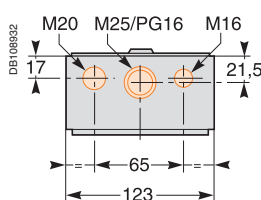


Number of modules	A	L	Weight (g)
3	-	80	300
4	-	123	500
6	-	159	650
8	88	195	850
12	160	267	1050

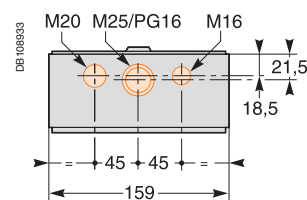
3 modules



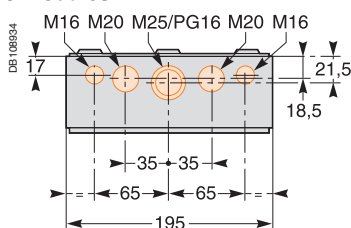
4 modules



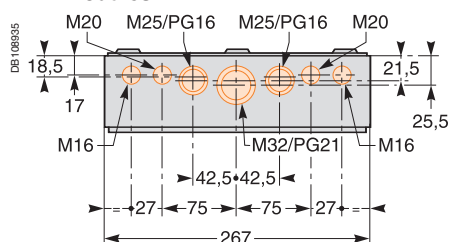
6 modules



8 modules

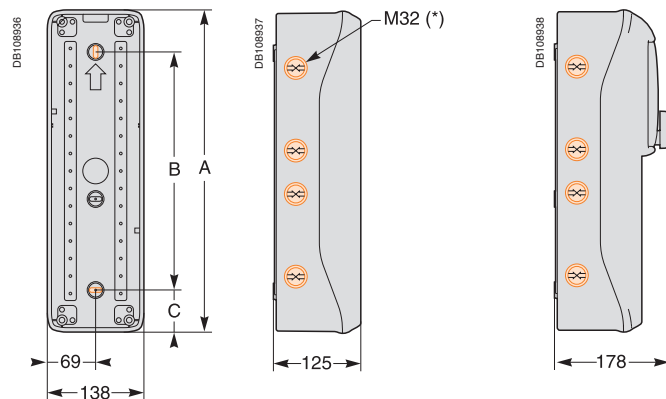


12 modules

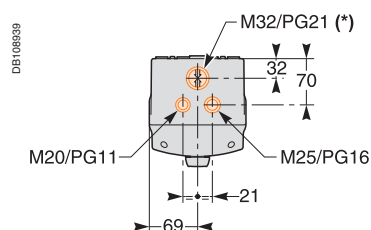


Weatherproof enclosures

5 modules

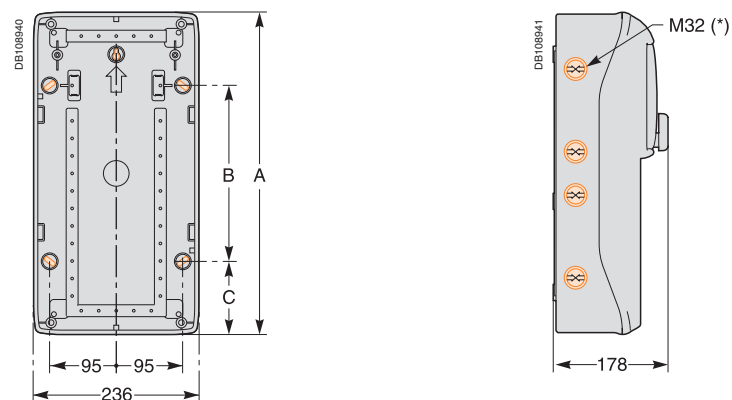


A	B	C	Weight (g)
460	251	104,5	1450
460	251	104,5	1250
460	251	104,5	1400
460	251	104,5	1400
610	490	60	1650

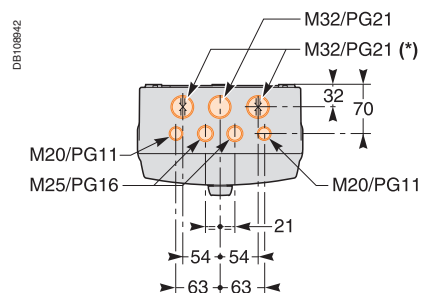


(*) pre-punchout also used for enclosure association

8 modules



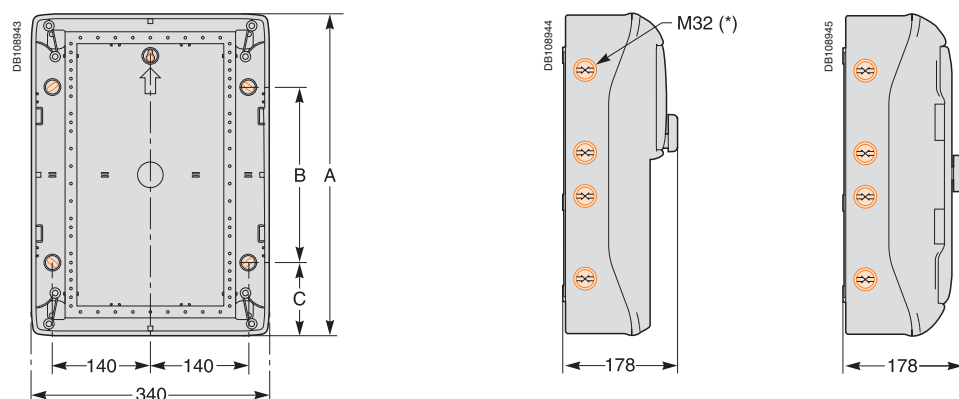
A	B	C	Weight (g)
460	251	104,5	2050
460	251	104,5	1900
460	251	104,5	1900



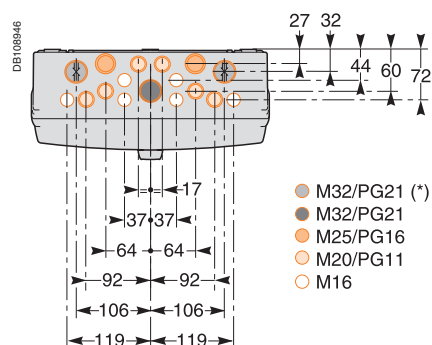
(*) pre-punchout also used for enclosure association

Weatherproof enclosures

12-13 modules

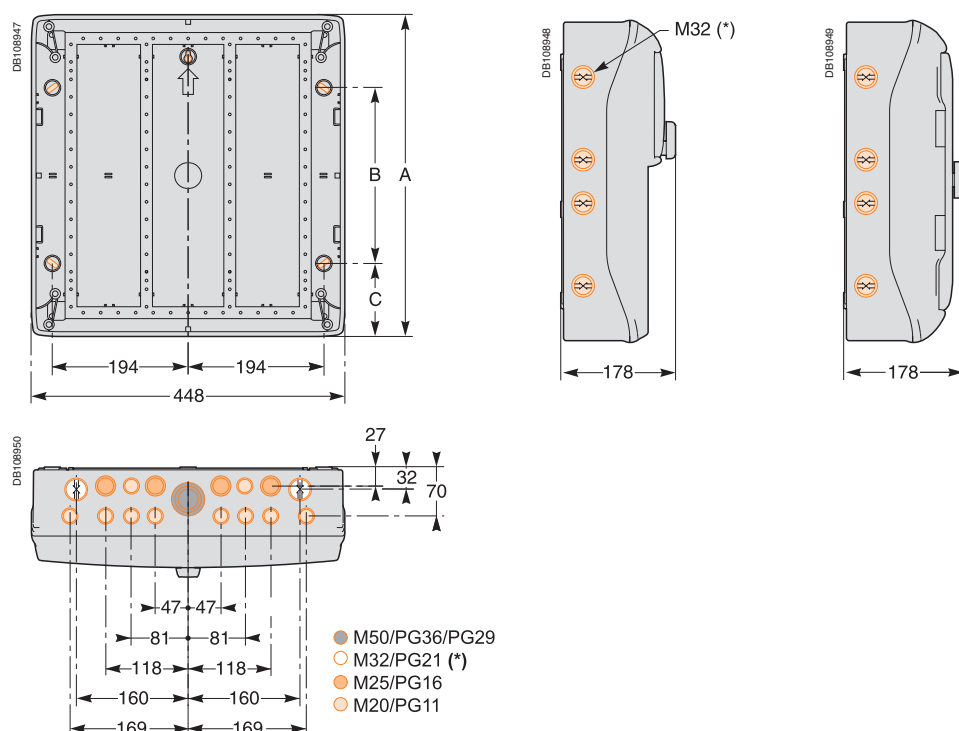


A	B	C	Weight (g)
280	118	81	1900
335	170	82,5	2200
335	170	82,5	2150
460	251	104,5	3100
460	251	104,5	2850
460	251	104,5	3300
460	251	104,5	2650
460	251	104,5	2700
610	401	104,5	4100
460	251	104,5	4550



(*) pre-punchout also used for enclosure association

18-19 modules



A	B	C	Weight (g)
280	118	81	2400
280	118	81	1950
460	251	104,5	3850
460	251	104,5	3550
460	251	104,5	4150
460	251	104,5	3200
460	251	104,5	3150
460	251	104,5	3300
610	401	104,5	3150
610	401	104,5	5600
610	401	104,5	4050
842	633	104,5	6500
842	633	104,5	6600

(*) pre-punchout also used for enclosure association