ATLANTIC

IP40-IP65 Steel distribution cabinets

(48-192 modules)

The ATLANTIC series is a set of steel distribution enclosures for the creation of low-voltage electrical distribution panels. This product line with an innovative aesthetic appearance surpasses the mandatory quality and safety concepts in an increasingly more demanding market.

It includes a broad catalogue of models that make it possible to create customised electrical panels: surface-mounted, flush-fit, watertight, with opaque or transparent doors, with extensive modular capacity, connection structures, etc. All manufactured with the highest-quality materials, featuring a quick and straightforward assembly system which delivers total functionality and the integration of any electrical switchgear model.

ATLANTIC Technical Specifications

- **Degree of protection:**
  Combinable surface cabinets without door: IP30.
  Combinable surface cabinets with door: IP40.
  Compact surface cabinets: IP40.
  Compact surface cabinets: IP65.
  Flush-fit cabinets: IP40.
- **Resistance to impact:**
  Combinable surface cabinets without door: IK07.
  Surface and flush-fit cabinets with
  transparent door: IK09.
  Surface and flush-fit cabinets with
  opaque door: IK10.
- **Ambient temperature range:** -25 °C / +40 °C.
- **Maximum temperature for sealing gasket:** 80 °C.
- **Maximum temperature for epoxy-polyester paint:** 125 °C.

ATLANTIC Certifications

CE

Compliant with the Low Voltage Directive 2014/35/EU.
Standards: UNE-EN 62208 and UNE-EN 61439-1
(as applicable).

ATLANTIC Electrical properties

- **Rated operating voltage (Ue):** 1000 V AC.
- **Rated insulation voltage (Ui):** 1000 V AC.
- **Rated impulse withstand voltage (Uimp):** 8 kV
  (depending on type of accessory).
- **Current (Ie):** 630 A (surface) / 250 A (flush-fit)
  (depending on type of accessory).
- **Rated short-time withstand current (Icw):** 33 kA 1s.
- **Rated peak withstand current (Ipk):** 69 kA.

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IP40-IP65 steel distribution cabinets

Product series

Standard

- IP30 combinable surface cabinets without door.
- IP40 combinable surface cabinets with opaque or transparent door.
- IP40 compact surface cabinets with opaque or transparent door.
- IP65 compact surface cabinets with opaque or transparent door.
- IP40 flush-fit cabinets with opaque or transparent door.
- Modular capacity for the whole range of products:
  48 – 72 – 96 – 120 – 144 – 168 – 192.

Supply

IP30-IP40 combinable surface cabinets

They are supplied disassembled in a single packaging that contains body, sides, top and bottom cover, cable entry cover and accessory bag.

- Accessory bag: Insulating caps to permit reversible doors, wall-mounting supports, reinforcement buttons, mass continuity clamps, rulers for fitting rails and assembly instructions.

The doors are supplied separately if requested, with both locks assembled and with accessory bag.

- Door accessory bag: Hinges and locks, mounting screws, lock pins and key.

IP40-IP65 compact surface cabinets and IP40 flush-fit cabinets

They are supplied assembled in individual packaging that contains the cabinet with the door and the locks assembled, and an accessory bag.

- Accessory bag: Insulating caps to permit reversible doors, wall-mounting supports (for surface cabinets), rulers for fitting rails, key and assembly instructions.

Lids and DIN rails

- They can be ordered as a Kit: Lids + DIN rails.
- Separately: modular or blind lids, as well as DIN rails plus assembly supports for surface cabinets (48013) or for flush-fit cabinets (48014).

Intended for creating low-voltage electrical distribution panels for tertiary and residential sectors

Material

- Body, sides, top and bottom covers for surface cabinets and frames for flush-fit cabinets manufactured in cold-rolled steel EN 10130+A1 with a thickness of 1.2 mm.
- Body for flush-fit cabinets manufactured in galvanised steel with a thickness of 1.2 mm.
- Opaque doors manufactured in cold-rolled steel EN 10130+A1; 1-mm thick surface cabinets and 1.2-mm thick flush-fit cabinets and transparent doors manufactured in tinted 4-mm tempered safety glass.

Finish

- Coated with hardened RAL 9003 epoxy-polyester paint, embossed 80-120 μ.

Protection

- Corrosion resistance according to the UNE-EN 62208 standard. For outdoor installations, the effect of the corrosion must be taken into consideration.

Standard painting cycle

- **Degreasing:** Removal of remains of contaminants by means of a neutral stripper and tensoactive concentrate.
- **Rinsing:** Two rinses, the first one with mains water and the second one with demineralised water.
- **Passivation:** Thin-coat conversion agent.
- **Drying and painting:** Drying with hot air (in tunnel at 100 °C) and coated with hardened RAL 9003 epoxy-polyester paint, thickness between 80-120 microns.
- **Firing:** Furnace polymerisation adherence at 180 °C for 15-20 min.

IP30-IP40 COMBINABLE SURFACE CABINETS

Body

- Totally assemblable enclosure that is supplied disassembled to give the installer greater versatility and facilitate assembly and wiring.

- Flat component with two profiles to which all the unit's equipment is secured. The profiles have two 25-mm rectangular cut-out lines to insert caged nuts to secure accessories, and a third line with 3 mm-diameter circular holes for screwing them directly to the wall.

- There are four riveted nuts in the corners at the back facing outwards for fixing the wall-mounting supports.

Sides

- The sides are of the clip-on assembly type.

- The sides are reversible, and the contact area between the side and back has a fold to guarantee water protection.

Door

- Possibility of opaque or transparent door. Opaque doors manufactured in 1-mm thick sheet and transparent doors with 4-mm thick tempered and tinted safety glass with IDE silk-screen printed on them.

- Four C-shaped common elements are supplied for the purpose of installation, for securing the hinges and for locking the enclosure. This makes them reversible.

Top and bottom covers

- The top covers are of the clip-on assembly type.

- They have an opening of 440x106 mm to facilitate cable trunking or installation trays. The width of this entry is the same as the rail's, thus facilitating cable distribution inside the enclosure. This gap is covered by the cable entry cover.

- The cable entry cover comes pre-marked with the dimensions of the most commonly used trays and trunking in order to make it easier to cut out.

- This cover is fitted by means of a clipping system and is reinforced by two self-tapping screws.

Mass continuity and reinforcement button

- Four clamps are supplied to secure the body to the top cover and the sides in order to guarantee mass continuity and to protect the enclosure from indirect contacts.

- Four plastic buttons secured by pressure are supplied, thus affording the cabinet greater stability and making it impossible to disassemble without using a tool, as provided for by the applicable regulations.

Locks

- Standard 5-mm ¼ turn double-bit lock. All references have two locks.

- Other types of locks are supplied as accessories.

Cabinets can be combined, thus achieving large-sized structures and modular capacity

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ATLANTIC
IP40 steel distribution cabinets

IP40 COMPACT SURFACE CABINETS

IP65 COMPACT SURFACE CABINETS

Body

- The enclosure body is U-shaped and is made of a single piece consisting of the bottom and the sides.
- The body has two profiles to which all the unit's equipment is secured. The profiles have two 25-mm rectangular cut-out lines to insert caged nuts to secure accessories, and a third line with 3 mm-diameter circular holes for screwing them directly to the wall.
- There are four riveted nuts in the corners at the back facing outwards for fixing the wall-mounting supports.

Top and bottom covers

- The top and bottom covers are of the clip-on assembly type.
- They have an opening of 440x106 mm to facilitate cable trunking or installation trays. The width of this entry is the same as the rail's, thus facilitating cable distribution inside the enclosure. This gap is covered by the cable entry cover.
- The cable entry cover comes pre-marked with the dimensions of the most commonly used trays and trunking in order to make it easier to cut out.
- This cover is fitted by means of a clipping system and is reinforced by two self-tapping screws.

Body

- The enclosure body consists of a single piece, with two profiles to which all the unit's equipment is secured.
- The profiles have two 25-mm rectangular cut-out lines to insert caged nuts to secure accessories, and a third line with 3 mm-diameter circular holes for screwing them directly to the wall.
- There are four riveted nuts in the corners facing outwards for fixing the wall-mounting supports.
- The 500x80 mm cable entries are located at the top and bottom.
- The cable entries are covered by means of metal lids secured to the body with machined screws. The cover has a sealing gasket to guarantee IP65 protection.
- A gland is recommended for trunking and cable entry to avoid losing the enclosure's IP protection degree.

IP40 - IP65 compact cabinet door and locks

Door
- Possibility of opaque or transparent door.
- Opaque doors made from sheet with a thickness of 1 mm.
- Transparent doors manufactured with 4-mm thick tempered and tinted safety glass with IDE silk-screen printed on them.
- Doors for IP65 cabinets with sealing gasket to guarantee the cabinet's degree of protection.
- Four C-shaped common elements are supplied for securing the hinges and for locking the enclosure. This makes all the doors reversible.

Locks
- Standard 5-mm ¼ turn double-bit lock. All references have two locks.
- Other types of locks are supplied as accessories.

IP40 FLUSH-FIT CABINETS

Body

- Manufactured in galvanised steel, totally protected from any rust that may be caused due to wall humidity. It consists of a single folded part, with easy-to-break knock-out entries of 100x50 mm for cable entry and trunking.
- It also has two wings for wall-mounting which provide better attachment in flush-fitting.

Flush-fit enclosures can be combined, thus achieving large-sized structures and modular capacity

Frame

- The cabinet's frame acts as a rack, and all the electrical switchgear can be fitted on the workbench separate from the flush-fit base.
- It has two 25-mm rectangular cut-out strips to which all the equipment is assembled by means of caged nuts and suitable screws.
- The cabinet sides have large spaces for wiring, where cable trunks with a width of 40 mm or 60 mm can be fitted. If cables need to be run below the frame there is a space of 30 mm between the frame and the bottom.
- The frame with all the switchgear fitted is assembled on a flush-fit base. The cut-outs are all oval-shaped, thus allowing any deviations in the flush-fit to be corrected.

Door

- Possibility of opaque or transparent door.
- Opaque doors made from sheet with a thickness of 1.2 mm.
- Transparent doors manufactured with 4-mm thick tempered and tinted safety glass with IDE silk-screen printed on them.
- The doors are totally flat to enhance the aesthetic appeal of the flush-fit.
- They are secured to the frame by means of inside hinges, which means that all the doors are reversible.

Locks

- Standard 5-mm ¼ turn double-bit lock. All references have two locks.
- Other types of locks are supplied as accessories.

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Lid + DIN rail kit (for surface and flush-fit cabinets)

DIN rail for surface cabinets

- Each rail has a standard capacity of 24 modules.

- Omega rail clip-on mounting system.

- Depth-adjustable supports that permit an omega rail height variation in the range of 45 mm. The support has three pre-marked positions corresponding to the three standard heights for modular electrical switchgear.

- Height can be adjusted either prior to delivery or once the sub-assembly has been fitted in the enclosure.

- In order to fit the rails in the right position in the body profiles, a ruler is supplied where the positions of the holes to be used is pre-marked, depending on the number of rails to be installed.

DIN rail for flush-fit cabinets

- Each rail has a standard capacity of 24 modules.

- Rail attached directly to the frame by means of M6 caged nuts and M6x10 screws.

- Fixed distance between DIN rails and protection lids.

- In order to fit the rails in the right position, in the frame profiles, a ruler is supplied where the positions of the holes to be used are pre-marked, depending on the number of rails to be installed.

Distance between rail and lid: 50.5 mm.

Distance between lid and door

- Surface cabinets: 45.5 mm.

- Flush-fit cabinets: 33.5 mm.

Modular lids

Possibility of plastic and metal lids.

Plastic lids:

- Hinged, they are closed by means of a clipping system; a tool is needed to open the lid, as provided for by the applicable regulations.

Manufactured in ABS, RAL 9003.
- Modular: Height of 150 mm and 200 mm with capacity for 24 modules.
- Blind: Height of 50, 150 and 200 mm.

Metal lids:

- Fixed, bolted to the cabinet's structure by means of M6 caged nuts and M6x10 anti-twist screws.

- Made of RAL 9003 cold-rolled steel.

- Modular: Height of 150 and 200 mm with capacity for 24 modules; height of 300 and 400 mm with capacity for 48 (2x24) modules.

- Blind: Height of 50, 150, 200, 300 and 400 mm.

PLASTIC LID KIT

METAL LID KIT

Calculation of modules according to lids

Initial number of modules	Inner space	200 mm lids	150 mm lids	50 mm blind lids	Number of modules obtained
48	450	2	-	1	48
		-	3	-	72
72	650	3	-	1	72
		-	4	1	96
96	850	4	-	1	96
		-	5	2	120
120	1050	5	-	1	120
		2	4	1	144
		-	7	-	168
144	1250	6	-	1	144
		3	4	1	168
		4	3	-	168
		-	8	1	192

The cabinets can be completed with 150-mm or 200-mm lids depending on the minimum number of models you wish to obtain and the combinations to be made. Lids for ICP kit: 300 mm (see page 177).

Moulded-case circuit breaker (MCCB) mounting system

- Mounting system comprising a cover, plate and four adjustment supports.
- The layout of the MCCB (up to 400 A) may be horizontal and/or vertical.
- Two cover + plate references must be ordered for proper installation. The plate includes the four adjustable supports and all the screws needed for installation.
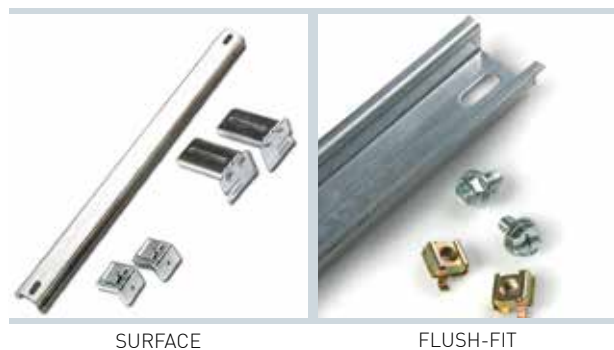
Moulded-case circuit breaker cover (MCCB)

Reference No.	Lid height	For switch
	mm	
TMCB200	200	MCCB
TMCB250	250	MCCB
TMCB300	300	MCCB
TMCB400	400	MCCB

Plate+moulded-case circuit breaker (MCCB) supports

Reference No.	Dim.
	HEIGHT X WIDTH
PMCB200	165x385
PMCB250	215x385
PMCB300	265x385
PMCB350	315x385

Possibility of plastic and metal lids in two heights: 100 and 200 mm

SURFACE

FLUSH-FIT

PLASTIC

METAL

DIN rail kits

Ref. No.	Description
48013	DIN rail 24 modules + SURFACE assembly supports
48014	DIN rail 24 modules + FLUSH-FIT assembly supports

Hinged plastic lids

Reference No.		Lid height	Modules
BLIND	MODULAR	mm	
TC50	**-**	50	-
TC150	**TM150**	150	24
TC200	**TM200**	200	24

Fixed metal lids

Reference No.		Lid height	Modules
BLIND	MODULAR	mm	
TCM50F	**-**	50	-
TCM150F	**TMM150F**	150	24
TCM200F	**TMM200F**	200	24
TCM300F	**TMM300F**	300	2x24
TCM400F	**TMM400F**	400	2x24

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IP30-IP40 combinable surface cabinets

Reference No.	Door Reference No.	Dim. cabinet	Usable height space	Cable entry	Modular capacity	Weight		Maximum acceptable load	Power dissipation according to temperature increase °C P(W)*				
		(AXBXC)	(D)	(FXG)		CAB.	DOOR	KG	20	25	30	35	40
40ENL48-72	PO40SUP48-72	510x670x212	450	440x106	48-72	10.75	4.40	20	95.90	119.88	143.86	167.83	191.81
	PT40SUP48-72						4.87						
40ENL72-96	PO40SUP72-96	710x670x212	650	440x106	72-96	13.90	6.00	30	124.93	156.17	187.40	218.64	249.87
	PT40SUP72-96						8.46						
40ENL96-120	PO40SUP96-120	910x670x212	850	440x106	96-120	17.10	9.69	40	153.97	192.46	230.95	269.44	307.93
	PT40SUP96-120						9.77						
40ENL120-168	PO40SUP120-168	1110x670x212	1050	440x106	120-168	20.10	11.42	50	183.00	228.75	274.50	320.25	365.99
	PT40SUP120-168						11.72						
40ENL144-192	PO40SUP144-192	1310x670x212	1250	440x106	144-192	29.67	10.00	60	185.90	232.38	278.85	325.33	371.80
	PT40SUP144-192						11.30						

RAL 9003 rolled steel.

Cabinets are supplied empty, without lids or DIN rail.

**The corresponding lid + DIN rail kit must be ordered (see lid kit table).**

Cabinets supplied without door.

PO: Opaque door - PT: transparent door; two references must be ordered: door + body.

* Calculations obtained according to the CEI 890:1997 standard + Corrigendum 1998; "Method of temperature-rise assessment by extrapolation for partially type-tested assemblies (PTTA) of low-voltage switchgear and control gear".
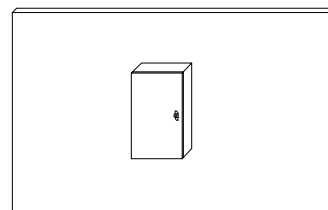
Lid kits

Reference No.		Modular cap.	For cabinet	They include
PLASTIC	METAL			
S48P200	S48M200	48 MOD.	40ENL48-72	2 200-mm mod. lids + 1 50-mm blind lid + 2 DIN rails
S72P150	S72M150	72 MOD.	40ENL48-72	3 150-mm mod. lids + 3 DIN rails
S72P200	S72M200		40ENL72-96	3 200-mm mod. lids + 1 50-mm blind lid + 3 DIN rails
S96P150	S96M150	96 MOD.	40ENL72-96	4 150-mm mod. lids + 1 50-mm blind lid + 4 DIN rails
S96P200	S96M200		40ENL96-120	4 200-mm mod. lids + 1 50-mm blind lid + 4 DIN rails
S120P150	S120M150	120 MOD.	40ENL96-120	5 150-mm mod. lids + 2 50-mm blind lids + 5 DIN rails
S120P200	S120M200		40ENL120-168	5 200-mm mod. lids + 1 50-mm blind lid + 5 DIN rails
S168P150	S168M150	168 MOD.	40ENL120-168	7 150-mm mod. lids + 7 DIN rails
S144P200	S144M200	144 MOD.	40ENL144-192	6 200-mm mod. lids + 1 50-mm blind lid + 6 DIN rails
S192P150	S192M150	192 MOD.	40ENL144-192	8 150-mm mod. lids + 1 50-mm blind lid + 8 DIN rails

| 40ENL48-72 | 40ENL72-96 | 40ENL96-120 | 40ENL120-168 | 40ENL144-192 |

<p>IP 40</p>

<p>IP 65</p>

CE

IP40 compact surface cabinets

Reference No.	Dim. cabinet	Usable height space	Cable entry	Modular capacity	Weight	Maximum acceptable load	Power dissipation according to temperature increase °C P(W)*				
	(AXBXC)	(D)	(FXG)		KG	KG	20	25	30	35	40
40SUP48-72PO 40SUP48-72PT	510x670x212	450	440x106	48-72	15.46 16.10	20	95.9	119.9	143.9	167.8	191.8
40SUP72-96PO 40SUP72-96PT	710x670x212	650	440x106	72-96	17.88 18.75	30	124.9	156.2	187.4	218.6	249.9
40SUP96-120PO 40SUP96-120PT	910x670x212	850	440x106	96-120	20.29 23.20	40	154.0	192.5	230.9	269.4	307.9
40SUP120-168PO 40SUP120-168PT	1110x670x212	1050	440x106	120-168	26.10 25.02	50	183.0	228.7	274.5	320.2	366.0
40SUP144-192PO 40SUP144-192PT	1310x670x212	1250	440x106	144-192	31.75 32.68	60	185.9	232.4	278.9	325.3	371.8

RAL 9003 rolled steel.

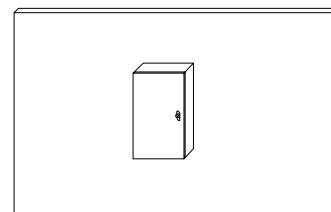Cabinets are supplied empty, without lids or DIN rail.

The corresponding lid + DIN rail kit must be ordered (see lid kit table).

Cabinets supplied with door; PO: opaque door - PT: transparent door.

* Calculations obtained according to the CEI 890:1997 standard + Corrigendum 1998; "Method of temperature-rise assessment by extrapolation for partially type-tested assemblies (PTTA) of low-voltage switchgear and control gear".

Lid kits

Reference No.		Modular cap.	For cabinet	They include
PLASTIC	METAL			
S48P200	S48M200	48 MOD.	40SUP48-72PO-PT	2 200-mm mod. lids + 1 50-mm blind lid + 2 DIN rails
S72P150	S72M150	72 MOD.	40SUP48-72PO-PT	3 150-mm mod. lids + 3 DIN rails
S72P200	S72M200		40SUP72-96PO-PT	3 200-mm mod. lids + 1 50-mm blind lid + 3 DIN rails
S96P150	S96M150	96 MOD.	40SUP72-96PO-PT	4 150-mm mod. lids + 1 50-mm blind lid + 4 DIN rails
S96P200	S96M200		40SUP96-120PO-PT	4 200-mm mod. lids + 1 50-mm blind lid + 4 DIN rails
S120P150	S120M150	120 MOD.	40SUP96-120PO-PT	5 150-mm mod. lids + 2 50-mm blind lids + 5 DIN rails
S120P200	S120M200		40SUP120-168PO-PT	5 200-mm mod. lids + 1 50-mm blind lid + 5 DIN rails
S168P150	S168M150	168 MOD.	40SUP120-168PO-PT	7 150-mm mod. lids + 7 DIN rails
S144P200	S144M200	144 MOD.	40SUP144-192PO-PT	6 200-mm mod. lids + 1 50-mm blind lid + 6 DIN rails
S192P150	S192M150	192 MOD.	40SUP144-192PO-PT	8 150-mm mod. lids + 1 50-mm blind lid + 8 DIN rails

40SUP48-72 40SUP72-96 40SUP96-120 40SUP120-168 40SUP144-192

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IP65 compact surface cabinets

Reference No.	Dim. cabinet	Usable height space	Cable entry	Modular capacity	Weight	Maximum acceptable load	Power dissipation according to temperature increase °C P(W)*				
	(AXBXC)	D	(FXG)		KG	KG	20	25	30	35	40
65SUP48-72PO 65SUP48-72PT	510x670x212	450	500x80	48-72	16.17 19.08	20	95.9	119.9	143.9	167.8	191.8
65SUP72-96PO 65SUP72-96PT	710x670x212	650	500x80	72-96	20.20 20.90	30	124.9	156.2	187.4	218.6	249.9
65SUP96-120PO 65SUP96-120PT	910x670x212	850	500x80	96-120	24.53 25.71	40	154.0	192.5	230.9	269.4	307.9
65SUP120-168PO 65SUP120-168PT	1110x670x212	1050	500x80	120-168	29.34 31.03	50	183.0	228.7	274.5	320.2	366.0
65SUP144-192PO 65SUP144-192PT	1310x670x212	1250	500x80	144-192	32.80 35.59	60	185.9	232.4	278.9	325.3	371.8

RAL 9003 rolled steel.

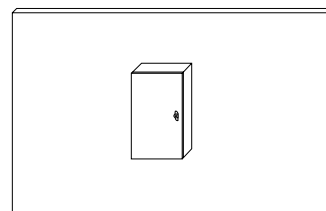Cabinets are supplied empty, without lids or DIN rail.

The corresponding lid + DIN rail kit must be ordered (see lid kit table).

Cabinets supplied with door; PO: opaque door - PT: transparent door.

* Calculations obtained according to the CEI 890:1997 standard + Corrigendum 1998; "Method of temperature-rise assessment by extrapolation for partially type-tested assemblies (PTTA) of low-voltage switchgear and control gear"

Lid kits

Reference No.		Modular cap.	For cabinet	They include
PLASTIC	METAL			
S48P200	S48M200	48 MOD.	65SUP48-72PO-PT	2 200-mm mod. lids + 1 50-mm blind lid + 2 DIN rails
S72P150	S72M150	72 MOD.	65SUP48-72PO-PT	3 150-mm mod. lids + 3 DIN rails
S72P200	S72M200		65SUP72-96PO-PT	3 200-mm mod. lids + 1 50-mm blind lid + 3 DIN rails
S96P150	S96M150	96 MOD.	65SUP72-96PO-PT	4 150-mm mod. lids + 1 50-mm blind lid + 4 DIN rails
S96P200	S96M200		65SUP96-120PO-PT	4 200-mm mod. lids + 1 50-mm blind lid + 4 DIN rails
S120P150	S120M150	120 MOD.	65SUP96-120PO-PT	5 150-mm mod. lids + 2 50-mm blind lids + 5 DIN rails
S120P200	S120M200		65SUP120-168PO-PT	5 200-mm mod. lids + 1 50-mm blind lid + 5 DIN rails
S168P150	S168M150	168 MOD.	65SUP120-168PO-PT	7 150-mm mod. lids + 7 DIN rails
S144P200	S144M200	144 MOD.	65SUP144-192PO-PT	6 200-mm mod. lids + 1 50-mm blind lid + 6 DIN rails
S192P150	S192M150	192 MOD.	65SUP144-192PO-PT	8 150-mm mod. lids + 1 50-mm blind lid + 8 DIN rails

65SUP48-72   65SUP72-96   65SUP96-120   65SUP120-168   65SUP144-192

IP40 flush-fit cabinets

Reference No.	Dim. cabinet	Usable height space	Body to be flush-fitted	Modular capacity	Weight	Maximum acceptable load	Power dissipation according to temperature increase °C P(W)*				
	(AXBXC)	D	(FXGXH)		KG	KG	20	25	30	35	40
40EMP48-72PO 40EMP48-72PT	597x737x120	450	520x660x100	48-72	15.55 15.97	20	81.9	102.4	122.9	143.3	163.8
40EMP72-96PO 40EMP72-96PT	797x737x120	650	720x660x100	72-96	20.00 21.24	30	107.1	133.9	160.7	187.5	214.2
40EMP96-120PO 40EMP96-120PT	997x737x120	850	920x660x100	96-120	24.50 26.54	40	132.3	165.4	198.5	231.6	264.7
40EMP120-168PO 40EMP120-168PT	1197x737x120	1050	1120x660x100	120-168	29.64 31.85	50	157.5	196.9	236.3	275.7	315.1
40EMP144-192PO 40EMP144-192PT	1397x737x120	1250	1320x660x100	144-192	34.00 35.74	60	182.8	228.4	274.1	319.8	365.5

Body: Galvanised steel. Door: RAL 9003 rolled steel.

Cabinets are supplied empty, without lids or DIN rail.

The corresponding lid + DIN rail kit must be ordered (see lid kit table).

Cabinets supplied with door; PO: opaque door - PT: transparent door.

* Calculations obtained according to the CEI 890:1997 standard + Corrigendum 1998; "Method of temperature-rise assessment by extrapolation for partially type-tested assemblies (PTTA) of low-voltage switchgear and control gear".
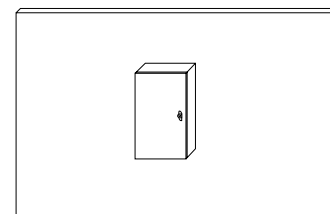
Lid kits

Reference No.		Modular cap.	For cabinet	They include
PLASTIC	METAL			
E48P200	E48M200	48 MOD.	40EMP48-72PO-PT	2 200-mm mod. lids + 1 50-mm blind lid + 2 DIN rails
E72P150	E72M150	72 MOD.	40EMP48-72PO-PT	3 150-mm mod. lids + 3 DIN rails
E72P200	E72M200		40EMP72-96PO-PT	3 200-mm mod. lids + 1 50-mm blind lid + 3 DIN rails
E96P150	E96M150	96 MOD.	40EMP72-96PO-PT	4 150-mm mod. lids + 1 50-mm blind lid + 4 DIN rails
E96P200	E96M200		40EMP96-120PO-PT	4 200-mm mod. lids + 1 50-mm blind lid + 4 DIN rails
E120P150	E120M150	120 MOD.	40EMP96-120PO-PT	5 150-mm mod. lids + 2 50-mm blind lids + 5 DIN rails
E120P200	E120M200		40EMP120-168PO-PT	5 200-mm mod. lids + 1 50-mm blind lid + 5 DIN rails
E168P150	E168M150	168 MOD.	40EMP120-168PO-PT	7 150-mm mod. lids + 7 DIN rails
E144P200	E144M200	144 MOD.	40EMP144-192PO-PT	6 200-mm mod. lids + 1 50-mm blind lid + 6 DIN rails
E192P150	E192M150	192 MOD.	40EMP144-192PO-PT	8 150-mm mod. lids + 1 50-mm blind lid + 8 DIN rails

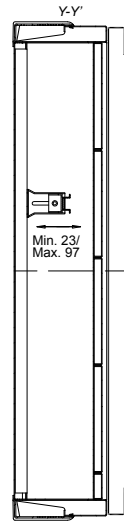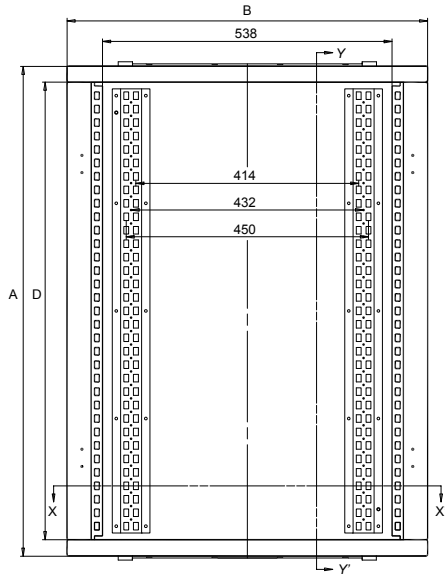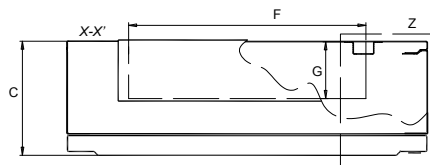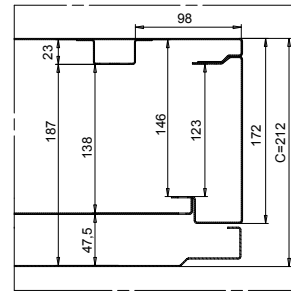40EMP48-72   40EMP72-96   40EMP96-120   40EMP120-168   40EMP144-192

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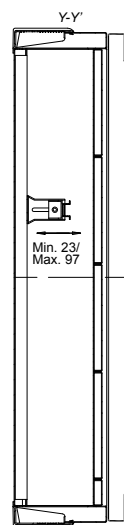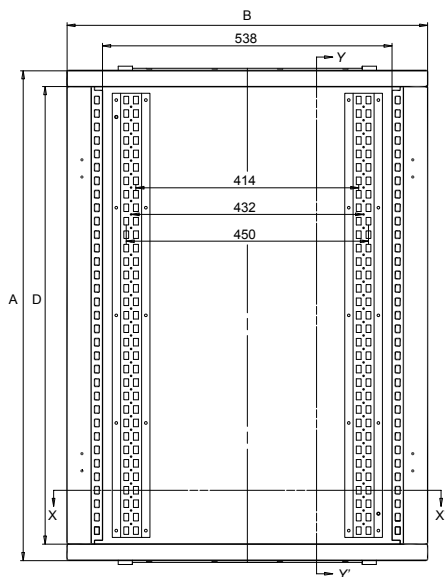## IP40–IP65 steel distribution cabinets

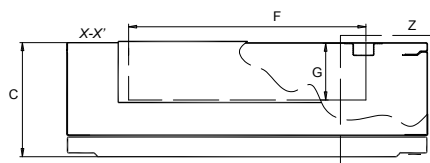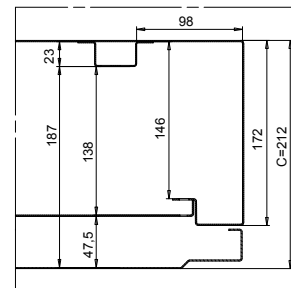### Dimensions: IP40 combinable surface cabinets
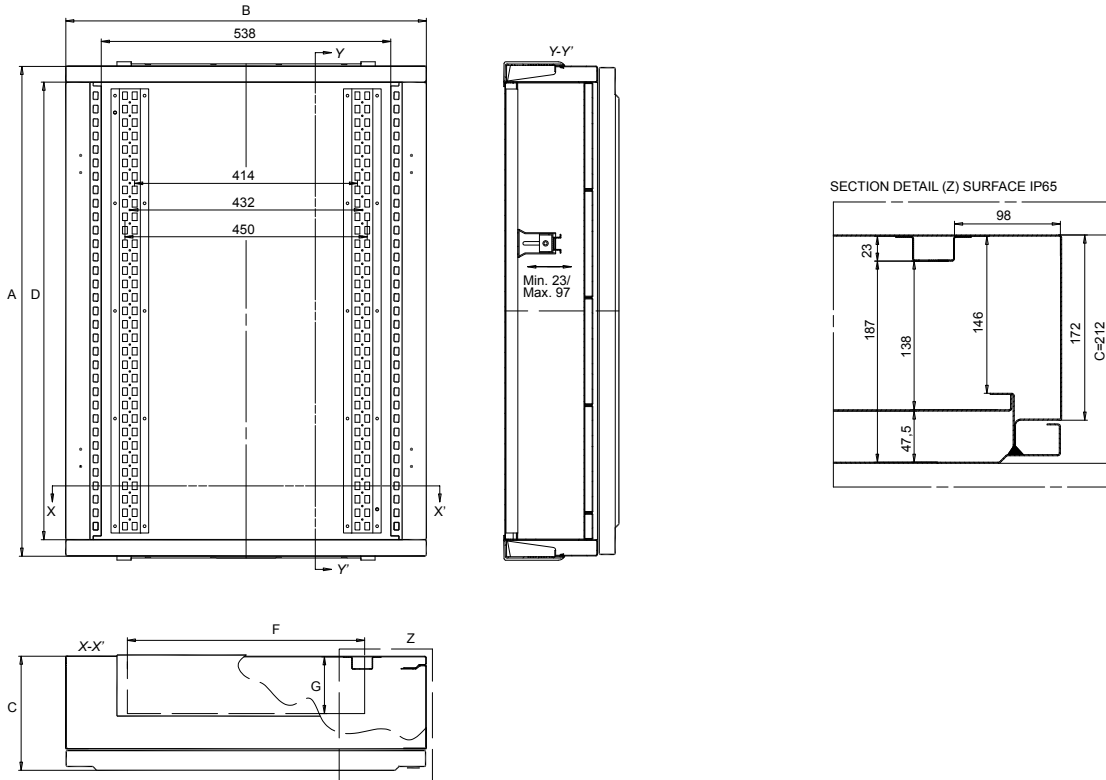

SECTION DETAIL (Z) COMBINABLE CABINET

Dimensions: IP40 compact surface cabinets

SECTION DETAIL (Z) SURFACE IP40

Dimensions: IP65 compact surface cabinets

SECTION DETAIL (Z) SURFACE IP65

Dimensions: IP40 flush-fit cabinets

CABLE-ENTRY CUT-OUTS ON ALL SIDES
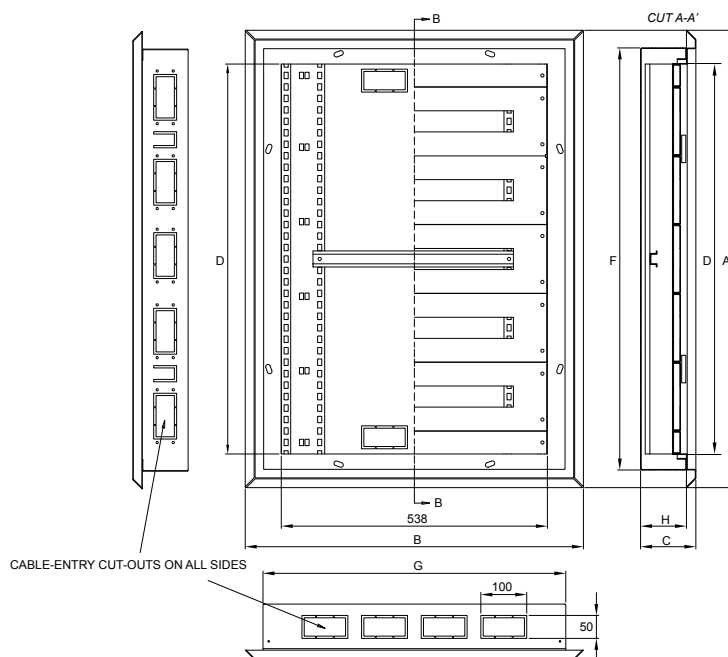
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IP40-IP65 steel distribution cabinets accessories

Plastic lids

Reference No.	Dimensions	Number of modules
MODULAR	HEIGHT X WIDTH	
TM150	150x577	24
TM200	200x577	24
BLIND	HEIGHT X WIDTH	
TC50	50x577	-
TC150	150x577	-
TC200	200x577	-

MATERIAL: ABS RAL 9003 white.
CHARACTERISTICS: Hinged and reversible. They are closed by means of a clipping system.

Metal lids

Reference No.	Dimensions	Number of modules
FIXED MODULAR	HEIGHT X WIDTH	
TMM150F	150x577	24
TMM200F	200x577	24
TMM300F	300x577	2x24
TMM400F	400x577	2x24
FIXED BLIND	HEIGHT X WIDTH	
TCM50F	50x577	-
TCM150F	150x577	-
TCM200F	200x577	-
TCM300F	300x577	-
TCM400F	400x577	-

MATERIAL: RAL 9003 white cold-rolled steel.
CHARACTERISTICS: Fixed, bolted to the structure by means of M6 caged nuts and M6x10 anti-twist screws.

Moulded-case circuit breaker cover (MCCB)

Reference No.	Dimensions	For switch
	HEIGHT X WIDTH	
TMCB200	200x577	MCCB
TMCB250	250x577	MCCB
TMCB300	300x577	MCCB
TMCB400	400x577	MCCB

Plate + moulded-case circuit breaker (MCCB) support

Reference No.	Dimensions	
	HEIGHT X WIDTH	
PMCB200	165x385	-
PMCB250	215x385	-
PMCB300	265x385	-
PMCB350	315x385	-

MATERIAL: RAL 9003 painted steel cover. Plate and adjustment elements in 2-mm thick galvanised steel.
CHARACTERISTICS: Cover plus plate system for installing moulded-case circuit breakers (MCCBs) up to 400A. MCCB layout can be horizontal and/or vertical. The supports are height-adjustable.
SUPPLY: The two cover + plate references must be ordered. The plate includes the four supports and all the screws needed for installation.

DIN rail kit for surface cabinets

Reference No.	Description	Number of modules
48013	DIN rail + supports for surface assembly	24

MATERIAL: Galvanised steel.
CHARACTERISTICS: Mounting system using depth-adjustable clips.
FOR THE FOLLOWING CABINETS: 40ENL-40SUP-65SUP.

DIN rail
kit for flush-fit cabinets

Reference No.	Description	Number of modules
48014	DIN rail + supports for flush-fit assembly	24

MATERIAL: Galvanised steel.
CHARACTERISTICS: Rail attached directly to the frame. Fixed distance between rails and protection lids.
FOR THE FOLLOWING CABINETS: 40EMP.

Auxiliary modules

Reference No.	Dimensions	Usable space	For cabinet
SIDE	HEIGHT X WIDTH X DEPTH	HEIGHT X WIDTH	
MEL4048	510x350x212	450x209	40ENL48-72
MEL4072	710x350x212	650x209	40ENL72-96
MEL4096	910x350x212	850x209	40ENL96-120
MEL40120	1110x350x212	1050x209	40ENL120-168
MEL40144	1310x350x212	1250x209	40ENL144-192

Reference No.	Dimensions	Usable space	For cabinet
CENTRAL	HEIGHT X WIDTH X DEPTH	HEIGHT X WIDTH	
MEC4048	510x350x212	450x209	40ENL48-72
MEC4072	710x350x212	650x209	40ENL72-96
MEC4096	910x350x212	850x209	40ENL96-120
MEC40120	1110x350x212	1050x209	40ENL120-168
MEC40144	1310x350x212	1250x209	40ENL144-192

MATERIAL: RAL 9003 painted sheet steel.

CHARACTERISTICS: Possibility of installing auxiliary side or central module.

Used for the installation of busbars, switches, control equipment etc., leaving more space inside the cabinet.

Opaque door with standard 5-mm double bit lock.

FOR THE FOLLOWING CABINETS: 40ENL.

Cover kit for busbar

Reference No.	Gap dimensions	Height dimensions		For cabinet
	HEIGHT X WIDTH	LID 1	LID 2	NO. OF MODULES
48660	450x248	450	-	48
48661	650x248	650	-	72
48662	850x248	850	-	96
48663	1050x248	600	450	120
48664	1250x248	800	450	144

MATERIAL: RAL 9003 painted sheet steel.
CHARACTERISTICS: All the accessories necessary for assembly are supplied.
They provide additional protection for busbars.

Moulded-case circuit breaker
and busbar cover kit

Reference No.	Dimensions			For cabinet
	MCCB COVER	BLIND LID	PLATE	NO. OF MODULES
48700	450x248	-	300x212	48
48701	450x248	200x248	300x212	72
48702	450x248	400x248	300x212	96
48703	450x248	600x248	300x212	120
48704	450x248	800x248	300x212	144

MATERIAL: Mounting plate in galvanised steel. RAL 9003 painted steel protection lid.
CHARACTERISTICS: Independent offset lid to prevent interference with the door. Includes mounting plate and height-adjustable support. It is supplied with all the accessories required for installation.
Possibility of fitting the moulded-case circuit breaker (MCCB) up to 630 A in the upright position.

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IP40-IP65 steel distribution cabinets accessories

Combination + extension ENL cabinets

| Reference No.	Dimensions	No. of modules	For cabinet
COMBINABLE SURFACE CAB.	**HEIGHT**		
EE6751	450	48	40ENL48-72
EE6771	650	72	40ENL72-96
EE6791	850	96	40ENL96-120
EE67111	1050	120	40ENL120-168
EE67113	1250	144	40ENL144-192

MATERIAL: RAL 9003 painted sheet steel.

CHARACTERISTICS: It permits the connection and extension of ENL-type surface enclosures using a clipping system. It contains the joining structure, plus the cabinet extension. (Door not included).
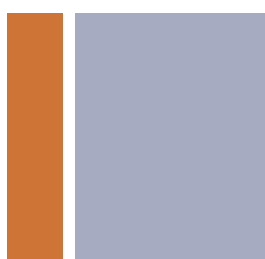
FOR THE FOLLOWING CABINETS: 40ENL.

How to join two 40ENL72-96 cabinets

REFERENCES

FINAL SET

+

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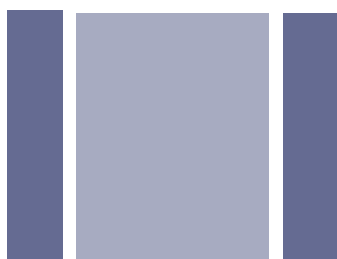
Ref. Cabinet 40ENL72-96
It includes one rear and two side panels.

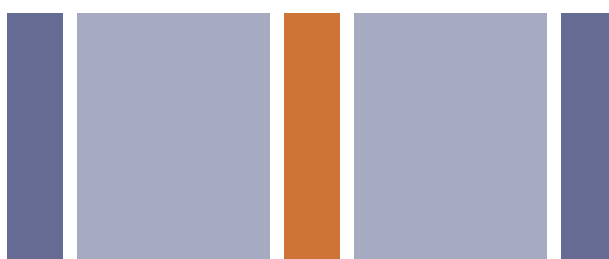**Ref. Extension EE6771**
It includes one rear panel and one joining structure.

Door must be requested separately.

Joining structure for flush-fit cabinets

Reference No.	Description
FLUSH-FIT CABINET	
48007	Joining structure for flush-fit cabinets (2-piece pack)

MATERIAL: Galvanised steel.

CHARACTERISTICS: It is used to join flush-fit enclosures. The piece is secured to the bases, allowing you to run cables between cabinets.

FOR THE FOLLOWING CABINETS: 40EMP.

Trunking support kit

Reference No.	Description
VERTICAL	
48243	Vertical trunking support (6-piece pack)

MATERIAL: Galvanised steel.
CHARACTERISTICS: Supports for fixing cable-distribution trunking vertically.
Housing for vertical trunking up to 60x60.
Vertical and horizontal trunking supports can be linked together.
Supply: Pack of 6 supports plus fixing screws.
FOR THE FOLLOWING CABINETS: 40SUP-40ENL-40EMP-65SUP.

Reference No.	Description
HORIZONTAL	
49368	Horizontal trunking support (2-piece pack)

MATERIAL: ABS RAL 7035.
CHARACTERISTICS: Supports for fixing cable-distribution trunking horizontally.
Two horizontal trunking fixing positions for separation between 150 or 200 mm DIN rails.
Vertical and horizontal trunking supports can be linked together.
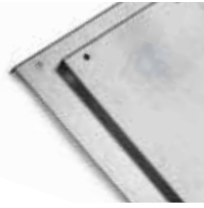Supply: Pack of 2 supports plus fixing screws.
FOR THE FOLLOWING CABINETS: 40SUP-40ENL-40EMP-65SUP.

Mounting plates

Ref. PLC   Ref. PLM

Reference No.	Dimensions	No. of adjustable supports
PARTIAL PLAIN	**HEIGHT X WIDTH**	
PLM200	200x478	1
PLM300	300x478	1
PLC450	450x430	-
PLC600	600x430	-
TOTAL PLAIN		
PLM850	850x478	2
PLM1050	1050x478	2
PLM1250	1250x478	2

MATERIAL: Mounting plate in 2-mm thick galvanised steel.
CHARACTERISTICS: The mounting elements must be ordered for the height adjustment of the PLM plates: Ref. 48340 for surface cabinets and ref. 94422 for flush-fit cabinets.
FOR THE FOLLOWING CABINETS: 40SUP-40ENL-40EMP-65SUP.

Rail and plate mounting elements

Reference No.	Description
94422	Rail and plate mounting element for flush-fit cabinets
48340	Adjustable plate mounting elements for surface cabinets
48444	Rail mounting element for surface cabinets

CHARACTERISTICS: Ref. 48340 only for PLM200 and PLM300 plates.

Ref. 94422   Ref. 48444   Ref. 48340

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IP40-IP65 steel distribution cabinets accessories

Spare doors

Reference No.	Description	For cabinet
IP40 FLUSH-FIT CABINET		**NO. OF MODULES**
PO40EMP48-72	Opaque	48-72
PT40EMP48-72	Transparent	48-72
PO40EMP72-96	Opaque	72-96
PT40EMP72-96	Transparent	72-96
PO40EMP96-120	Opaque	96-120
PT40EMP96-120	Transparent	96-120
PO40EMP120-168	Opaque	120-168
PT40EMP120-168	Transparent	120-168
PO40EMP144-192	Opaque	144-192
PT40EMP144-192	Transparent	144-192

Reference No.	Description	For cabinet
IP40 SURFACE		**NO. OF MODULES**
PO40SUP48-72	Opaque	48-72
PT40SUP48-72	Transparent	48-72
PO40SUP72-96	Opaque	72-96
PT40SUP72-96	Transparent	72-96
PO40SUP96-120	Opaque	96-120
PT40SUP96-120	Transparent	96-120
PO40SUP120-168	Opaque	120-168
PT40SUP120-168	Transparent	120-168
PO40SUP144-192	Opaque	144-192
PT40SUP144-192	Transparent	144-192

Reference No.	Description	For cabinet
IP65 SURFACE		**NO. OF MODULES**
PO65SUP48-72	Opaque	48-72
PT65SUP48-72	Transparent	48-72
PO65SUP72-96	Opaque	72-96
PT65SUP72-96	Transparent	72-96
PO65SUP96-120	Opaque	96-120
PT65SUP96-120	Transparent	96-120
PO65SUP120-168	Opaque	120-168
PT65SUP120-168	Transparent	120-168
PO65SUP144-192	Opaque	144-192
PT65SUP144-192	Transparent	144-192

MATERIAL: RAL 9003 painted sheet steel.
CHARACTERISTICS: Doors supplied with 5-mm 1/4 turn double-bit lock.
Possibility of opaque or transparent door.
FOR THE FOLLOWING CABINETS: 40SUP-40ENL-65SUP-40EMP.