



ATLANTIC

IP40-IP65 Metal distribution switchboard

Atlantic series is designed by metal cabinets combinations created for low Voltage electrical switchboards. This line of products show an innovative aesthetic, fulfilling the quality and safety concepts necessary in a tough market.

This series has a large range to offer the possibility of creating tailored distribution switch boards: surface, watertight enclosures; with opaque or transparent doors, with an extensive modular capacity, linking structures...its fabrication is made with the highest quality materials and due to its fast and simple assembling offer a full functionality as well as integrate any switchgear model.

Certifications



According to low Directive norm 2014/35/EU
Norms: UNE-EN 62208

Technical features

- Protection degree:

Surface combinable cabinets without door: IP30
Surface combinable cabinets with door: IP40
Surface compact cabinets: IP40
Surface compact cabinets: IP65

- Resistance to impact:

Surface combinable cabinets without door: IK07

Electrical properties

- **Rated operational voltage (U_o):** 1000 V AC.
- **Rated insulation voltage (U_i):** 1000 V AC.
- **Rated impulse withstand voltage (U_{imp}):** 12KV (depending on accesorie).
- **Intensity (I_g):** 630 A (surface) / 250 A (flush-fit) (depending on accesorie).
- **Rated short time withstand (I_{cw}):** 23 KA 1s.
- **Rated peak withstand current (I_{pk}):** 48 KA.



Standard painting cycle

- **Degrease:** Removing residual oils by means of phosphate immersions.
- **Lighten:** Twice, first with tap water and second with demineralized water.
- **Passivation:** Mixture of HCL+NA cl and bath against rust getting in that sense the proper finish ready to be painted.
- **Dry:** with hot air (through 100° C tunnel).
- **Painted:** with tighten epoxy polyester RAL 9003 with thickness 80-120 µ. Painting system A1.02 according to UNE-EN ISO 12944-5 norm.
- **Baking chamber:** adhesion by polymerisation 180° baking tunnel during 15-20 minutes.

Product range

Standard

- Surface combinable cabinets without door IP30.
- Surface combinable cabinets with opaque or transparent door IP40.
- Surface compact cabinet with opaque or transparent door IP40.
- Surface compact cabinet with opaque or transparent door IP65.
- Modular capacity for the whole product range:
48 – 72 – 96 – 120 – 168 – 144 – 192.

Materials

- Case, sides, upper and lower covers for surface cabinets made with cold rolled steel plate EN10130+A1 of 1,2 mm thickness.
- Opaque door made with cold rolled steel plate EN10130+A1; 1 mm thickness for surface cabinets and 1,2 mm thickness for flush-fit cabinets.
- Transparent door made with templated security glass of 4 mm thickness in smoked colour.

Finishing

- Tighten epoxy polyester paint emboss coating RAL 9003, 80-120 µ.
- For combinable cabinets, upper and lower cover with RAL7016 (anthracite grey).
- Resistance against corrosion under norm UNE-EN62208. Clasification C4-M under norms ASIM B-117:97; ISO 9227:0 and ISO 12944-6-98. For higher resistance against corrosion, consult for additional prime.

Destined for creating electrical low voltage distribution switchboards

Supply

Surface combinable cabinets IP30-IP40

They are supplied dismantled in a sole package which contains case, sides, upper and lower cover, cable entry lid and accessories bag.

- Accessories bag: insulated caps for doors reversibility, wall support adjustments, mass continuity clamps, rail fixation rule and mounting instructions.

Doors are supplied separately, in case of ordering, doors have already fitted two lockers and accessories bag.

- Door accessories bag: hinge and locker elements, fixation screws, locking bolt and key.

Surface compact cabinets IP40-IP65

They are supplied already mounted and in individual packaging which contains cabinet with door, lockers and accessories bag.

- Accesories bag: insulated caps for doors reversibility, wall support adjustments (for surface cabinets), rail fixation rule, ket and mounting instructions.

Covers and DIN rails.

- They can be asked for in kits: Covers + DIN rails.
- As an individual way: modular or blind covers and DIN rails plus assembling supports for surface cabinets (48013).

SURFACE COMBINABLES CABINETS IP30 - IP40



Case

- Cabinet totally assembled which is supplied dismantled in order to offer the installer the highest versatility making for easy assembling and wiring.
- Case is a plain side which has two profiles where the components can be fitted. This profile has two horizontal lines of 25mm to fit cage nuts used for accessories fixation and a third line with circular 3mm diameter holes allowing to screw directly through the profile.
- In the four depth corners and externally oriented there are four thigh-screw riveted for wall mounting support fixation.

Sides

- Sides assembling is made by clipped-on system.
- Sides are reversibles and the contacting area between side and bottom has a flashing shape, guarranting the protection degree against water.

Doors

- Available opaque or transparent doors.
- 1mm thickness steel opaque door.
- 4 mm thickness tempered and security smoked glass with IDE serigraph for transparent door.
- To fit them, it is supplied 4 "C" shape common elements, to fix the hinges and the cabinet lockers. this allows doors to be reversibles.



Upper and lower covers

- Clipped-on system on mounting of top and bottom framework.
- RAL 7016 anthracite grey for covers.
- They have a space of 440x106 mm in order to easy the pipe passage or tray installation. This width lenght agree with the rail easing in that sense the wiring distribution internally the cabinet. this hole is covered by the cale-entry lid.
- Cable entry lid has a premoulded part with the tray and pipes dimension more used in order to facilitate the cuts.
- This lid has a clipped-on system and it can be screwed in order to reinforce its fastening.

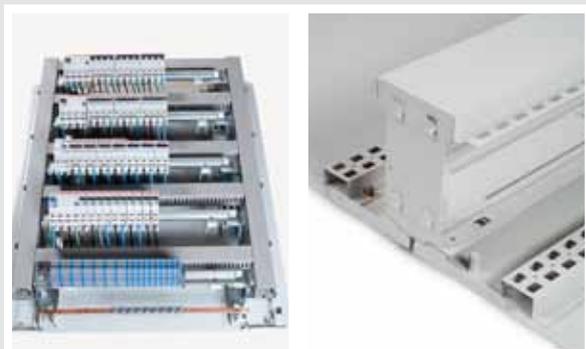
Continuity mass and boost button

- To promise the continuity of masses and protect the cabinet from indirect contacts, it is supplied 4 adjustments which attach the case with covers and sides.
- Four fixing pressure plastic clips are supplied, giving in that way a higher stability to the cabinet and getting also the impossibility of dismantling the cabinet with a special tool according to the Norm.

Lock

- Standar locker ¼ turn with 2 points of 5mm. All references has two lockers.
- Another kind of locker are supplied as accessories.

Possibility of join cabinets getting high magnitude and modular capacity



SURFACE COMPACT CABINETS IP40



Case

- The case of the cabinet has "U" shape, formed by a sole piece composed by the bottom and the sides.
- Case is a plain side which has two profiles where the components can be fitted. This profile has two horizontal lines of 25 mm to fit cage nuts used for accessories fixation and a third line with circular 3 mm diameter holes allowing to screw directly through the profile.
- In the four depth corners and externally oriented there are four thigh-screw riveted for wall mounting support fixation.

Upper and lower covers

- The assembling of upper and lower covers is made by clipp-on system.
- Covers are RAL 9003 the same as the bottom cabinet.
- They have a space of 440x106 mm to facilitate the entrance for pipes and installation trays. This width length agree with the rail easing in that sense the wiring distribution internally the cabinet. This hole is covered by the cable-entry lid.
- Cable entry lid has a premoulded part with the tray and pipes dimension more used in order to facilitate the cuts.
- This lid has a clipped-on system and it can be screwed in order to reinforce its fastening.

Doors for IP40 and IP65

- Available opaque or transparent doors.
- 1mm thickness steel opaque door.
- 4 mm thickness tempered and security smoked glass with IDE serigraph for transparent door.
- Doors for IP65 cabinets with waterthigh promising the protection degree.
- To fit them, it is supplied 4 "C" shape common elements, to fix the hinges and the cabinet lockers. This allows doors to be reversibles.

Lock for IP40 and IP65

- Standar locker ¼ turn with 2 points of 5 mm. All references has two lockers.
- Another kind of locker are supplied as accessories.

SURFACE COMPACT CABINET IP65



Case

- The cabinet case is formed by a sole piece showing two profiles where all equipment of the set can be attached.
- Case is a plain side which has two profiles where the components can be fitted. This profile has two horizontal lines of 25 mm to fit cage nuts used for accessories fixation and a third line with circular 3 mm diameter holes allowing to screw directly through the profile
- In the four depth corners and externally oriented there are four thigh-screw riveted for wall mounting support fixation.
- In the upper and lower part are place the the cable entries of 500x80 mm.
- Those cable entries are covered with metallic lids screwed to the case with sheet metal screws. the cover has watertight to promise the protection degree of IP65.
- It is advisable that entrance of pipes and cables are made trough cable glands in order not to loose the protection degree of the cabinet.



Lid + DIN rail kits

DIN rail for surface cabinets

- Standard capacity per rail 24 modules.
- Fixation system of Omega rail through clip-on supports.
- Height adjustment supports one a variation in height of the Omega rail of 45 mm. The support has three pre-marked positions which are suitable for the three standard heights over the electrical switchgears.
- The variation of this height can be made in the premounting or once the set is fitted in the cabinet.
- In order to fit properly the rails over the case profiles, it is supplied a rule where the position of the holes to be used are marked depending on the number of rails need to be fitted.

DIN Rail DIN for flush-fit cabinets

- Standard capacity per rail 24 modules.
- Rail fitted directly to the case through M6 cage nuts and M6x10 screws.
- In order to fit properly the rails over the case profiles, it is supplied a rule where the position of the holes to be used are marked depending on the number of rails need to be fitted.

Distance between rail and lid: 50,5 mm

Distance between lid and door

- Surface cabinets: 45,5 mm

Modular lids

Plastic lids:

- Hinged, closed by clipp-on system; in order to open the lid, it is necessary to use a tool according to the norm.

Manufactured in ABS colour RAL 9003.

- Modular: 150 and 200 mm height with 24 modules capacity.
- Blinds: 50, 150 and 200 mm height.

Metalic lids:

- Fix, screwed to the cabinet structure through M6 cage nuts and M6x10 anti-rotation screws.
- Manufactured in cold steel plate and painted in RAL 9003
 - Modular: 150 and 200 mm height with capacity for 24 modules; 300 and 400 mm height with capacity for 48 (2x24) modules.
 - Ciegas: 50, 150, 200, 300 and 400 mm heights.





SURFACE COMBINABLE
CABINETS IP40



SURFACE COMPACT
CABINETS IP40



SURFACE COMPACT
CABINETS IP40



SURFACE COMPACT
CABINETS IP65

Dimensions

Surface cabinets: Combinables IP40, Compacts IP40, Compacts IP65

