



## DESIGN

### Available models

- Single wall: with the outer wall.
- Single wall design with heat insulation: the outer wall with Al thermal insulation mat.
- Double wall design with air gap: the outer and inner walls with air space.
- Double wall design with insulation: the space between the walls filled in with inflammable rock wool.

### Enclosure

- Outdoor, free-standing on concrete or metal base.
- Made with aluminium sheet, welded and riveted.
- Metal sheet thickness matching the dimensions.
- Powder painted in any colour (RAL), with surface structure highly resistant to destruction and external factors.
- Screwed to the base.
- Executed in Class I or II appliance standard.
- Up to IP 55 protection level.
- Mechanical resistance up to IK10.

### Door

- Solid.
- Opened to one or both sides to ensure better access to the components.
- With one or two wings.
- With a pin tumbler lock (of any shape) or an espag lock with a system cylinder and an additional padlock.
- Three-point bolts.
- Internal hinges with an additional anti-burglary lock.
- Opening to 120°.
- Ground bolts with cables.

### Roof and bottom

- The gable roof with the ventilation labyrinth and ventilation preventing accumulation of water and moisture.

### Base

- With an opening to run cables from the cable duct through the additional fire bulkhead.
- Ready for installation of a fire bulkhead with screws.

### Dimensions

The size matching the type and range of devices and individual needs of the Client.

Typical dimensions:

- Height: 1100/1900/2100/2200 mm
- Width: 400/600/800/820/850/1000/1050/1250/1400 mm
- Depth: 250/300/400/600/620/800 mm

## APPLICATION

- For industrial power engineering and building facilities.
- For cable enclosures controlling external connector systems in HV stations (100 kV, 220 kV and 400 kV), secondary circuits, automatic operation systems.
- For LV cable distribution network cabinets distributing electricity and protecting electrical devices.
- For devices up to 1250 A.
- To ensure high degree of protection of switching, inspection, control and automatics devices.
- For installation on FM and FB foundation blocks.

## EQUIPMENT

The devices are installed as required by the Client.

- Vertical installation profiles: fixed permanently to the walls of the enclosure, ready for installation bases or current circuit post insulators.
- Installation base: galvanised, installed on vertical installation profiles made of galvanised sheet for current circuit switches.
- Wire ducts with the cross section matching the type and number of cables.
- Masking panels: made of plastic or sheet metal, installed to the enclosure structure or to the internal frame with masking panel clamps.
- The control panel with the mimic panel, made in a unique way by applying offset-printed sheets on the whole surface of the panel, with the possibility of printing any design. Installed in the internal frame.
- Lighting and heating, with heating circuits, and a thermostat with the heating element in the lower part of the cabinet. Lighting: two fluorescent lamps installed in the upper part to ensure uniform illumination along the entire width. Limit switches and a cam switch are installed in the cabinet (the components may be installed in any place, as required by the Client).
- Cable clamps with the cable management bar.
- Galvanised steel earthing rail.
- Ventilation with a fan and proper openings in the enclosure to allow continuous flow of air.
- Document holder.

The enclosure can additionally host circuits of the primary electrical installation developed by the designer for the specific project.

### Accessories

- **Plinth:** welded, solid.
- **FB concrete** or **FM metal foundation block.**
- **GO fire bulkhead** preventing penetration of fire and other factors inside the cabinet.

## BASIC TECHNICAL DATA

Material:	aluminium
IP protection level:	55
IK level of protection against mechanical impact:	10
Appliance class:	I
Height / width / depth:	without limitations

## COMPLIANCE WITH STANDARDS

- **PN-EN 62262**  
„Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code).“;
- **PN-EN 60529**  
„Degrees of protection provided by enclosures (IP Code).“;
- **PN-EN 62208**  
„Empty enclosures for low-voltage switchgear and controlgear assemblies - General requirements.“;
- **PN-EN ISO 4628**  
„Paints and varnishes - Evaluation of degradation of coatings - Designation of quantity and size of defects, and of intensity of uniform changes in appearance - Part 6: Assessment of degree of chalking by tape method.“;
- **PN-EN ISO 2409**  
„Paints and varnishes - Cross-cut test.“.

