

REM2
 Design


APPLICATION

- To low-voltage distribution cable networks;
- Electricity distribution and electrical equipment protection against the effects of short circuits and overloads on the LV side.

EQUIPMENT

Enclosure

Thermosetting plastic

The housing is made of SMC plastic with IP 44 or 54 rating. In protection class II, with flammability class from HB to V0, in RAL 7035 colour, with the possibility of additional varnishing ensuring temporary resistance to environmental effects and UV radiation.

Aluminum OU-2

The housing is made of aluminum sheet (joining by welding or riveting). Powder coated in any color. The size is adapted to the type, number of equipment and individual needs of the customer. The housing is highly resistant to degradation, environmental influences and UV radiation. The enclosure is made in protection class I or II.

The enclosure in protection class II is achieved by applying an additional insulating layer, permanently lined on the inner and outer surface of the enclosure. The thickness of the layer ensures the right degree of insulation.

Ventilation allows a constant flow of air through the use of a ventilation labyrinth, while eliminating the ingress of contaminants and the accumulation of water and moisture.

Doors with internal hinges with anti-burglary strikers and multi-point locking, basque lock closed with a padlock or system cylinder.

Mounting elements

- mounting profiles - steel, perforated, mounted to the enclosure structure;
- mounting plate - made of plastic or galvanized steel, mounted on vertical mounting profiles made of tinfoil for current path insulators;
- cable clips with mounting beam;
- masking plates - made of plastic or metal sheets, mounted to the enclosure structure.

Equipment

- strip fuse switches, box switch-disconnectors or circuit breakers up to 1250 A;
- fuse bases up to 630A;
- current transformers of the measuring and balancing module selected in accordance with the guidelines of the energy distributor and seller;
- power supply and outlets made as cable, equipped with V-type or VLM terminals;
- space for current transformers for the measuring system;
- back-up circuits shielded;
- cable holders.

Current paths

- current circuits of the supply and outlet module made of screw-connected copper flat bars with a cross-section selected to the current load, equipped with pressed-in rivet nuts enabling the assembly of the strip apparatus under voltage;
- PEN rail with the possibility of dividing into PE and N made of Cu or Al.

Accessories

- **thermosetting foundation** - adapted to the dimensions of the thermosetting casing;
- **FM aluminum foundation** - adapted to the dimensions of the housing, equipped with removable front and rear covers;
- **FB concrete foundation** - built of reinforced concrete slabs, bolted with aluminum or thermo casing;
- **cable pocket**.



RATED PARAMETERS

Rated switching voltage:	230/400 V
Rated insulation voltage:	690 V
Rated frequency:	50 Hz
Withstand surge voltage:	8 kV
Rated continuous current of main rails:	160/250/400/630
Rated short-time withstand current:	20 kA (1 s.)
Rated peak withstand current:	40 kA
Short-circuit current of internal arc discharge:	16 kA
IP rating:	44 - 54
IK degree of mechanical resistance:	10
Protection class:	I or II
Dimensions of the supply/receiving terminals:	2 x 4 x 240 mm ² / 4 x 240 mm ²
Network layouts:	TN-S, TN-C, TN-C-S, TT, IT
Height/Width/Depth:	Unlimited



COMPLIANCE WITH STANDARDS

- **PN-EN 61439-1**
'Low-voltage switchgear and controlgear assemblies - Part 1: General provisions';
- **PN-EN 61439-5**
'Low-voltage switchgear and controlgear assemblies – Part 5: Power distribution kits for public networks';
- **PN-E-05163**
'Low-voltage switchgear and controlgear assemblies covered. Guidelines for testing under conditions of arc discharge resulting from an internal short circuit';
- **PN-EN 50274**
'Low-voltage switchgear and controlgear assemblies – Protection against electric shock – Protection against unintentional direct contact with hazardous active parts';
- **PN-EN 60529**
'Degrees of protection provided by enclosures (IP code)';
- **PN-EN 62208**
'Empty enclosures for low-voltage switchgears and controlrooms. General requirements';
- **PN-EN 62262**
'Degrees of protection against external mechanical impacts provided by enclosures of electrical equipment (IK code) (IDT PN-EN 50102:2001)';
- **PN-EN ISO 4628**
'Paints and varnishes – Evaluation of deterioration of coatings – Determination of the amount and extent of damage and the intensity of uniform changes in appearance – Part 6: Evaluation of the degree of chalking by the tape method';
- **PN-EN ISO 2409**
'Paints and varnishes – Testing by the notch grid method.'

