

DISTRIBUTION & MEASUREMENT EQUIPMENT FOR LOW VOLTAGE NETWORK

Application

The distribution boxes with 2...8 circuits RS 80581 [], RS 80633 [] [] are used in low voltage distribution mains for power supplying of domestic consumers (block of flats) and public buildings.

The boxes provide the electric equipment protection against environmental conditions, insects and rats entering and access of unauthorized persons.

The electric equipment in the box ensures consumers' connection by fuses supports to the distribution electrical cables as well as protection against short-circuits and overcurrent.

Reference documents

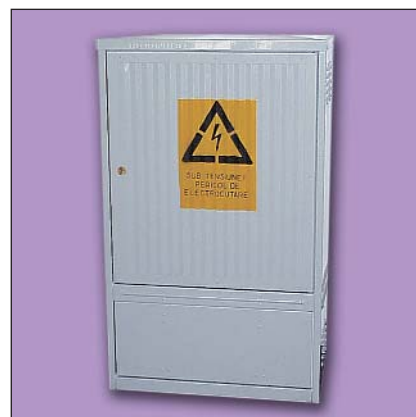
- IEC 60664-1/1998.

RS 80581 [] RS 80633 [] []

Distribution box for low voltage networks with 2 ... 8 circuits

Constructive characteristics

- The distribution box consists in of cabinet proper and overground base made of thermally zinc coated steel sheet painted in electrostatic field.
- The cabinet is built on a metallic frame on which the electric equipment is mounted.
- The roof of cabinet does not exceed its limits and is provided with drain slopes on all sides.
- Box door is provided with Yalle type lock.
- On door outside are placed warning inscriptions like dangerous voltage and electrocution danger.
- In the cabinet is mounted on supports the electric equipment that consists of: fuses supports, bus-bars and insulating separators.
- At the cabinet low side it is the bar on which are mounted fixing necklaces for the electric cables.
- The cabinet is mounted on the overground base with four screws.
- The overground base ensures a commode access in the cabinet during exploitation and the protection of the inside equipment against water from snow or rain.
- The overground base is provided at low side with rubber gaskets that ensure the sealing at mounting on a concrete bottom plate.
- The overground base is mounted on the concrete plate with four screws which are positioned in accordance with "Model for moulding of bottom plate".
- On the lateral side of the overground base is the earthing connection.
- All the metallic parts of the cabinet which accidentally may be under voltage are connected by earthing cables to the null bar.
- At request the distribution box may be produced in the monoblock variant, in which case on the frontal side corresponding to the overground base is mounted a visit lid.
- The cabinets are not delivered with MPR fuse cartridges (these may be ensured only at the beneficiary's demand).



- environmental temperature : -33°C ... +50°C
- temperature for transport and storage : -33°C ... +50°C
- relative humidity of air: max.95% at 20°C
- climatic zone: N
- maximal altitude: 2000 m
- lifetime: 20 years

Environmental conditions

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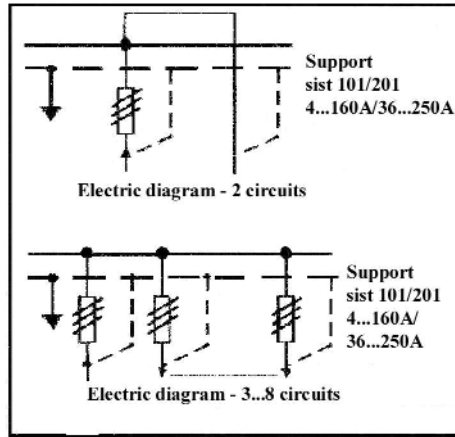
Warranty

- 12 months from delivery.

Constructive variants

- **RS 80581 []** Distribution box with 2 circuits
 - [A] Equipped with SIST 101 fuses
 - [B] Equipped with SIST 201 fuses
- **RS 80633 []** Distribution box with 3 ... 5 circuits
 - [A] First letter indicates equipment with SIST 101 fuses
 - [A ... C] Second letter indicates circuits number (A - 3 circuits; B - 4 circuits; C - 5 circuits)
- **RS 80633 [B] []** Distribution box with 3 ... 8 circuits
 - [A] First letter indicates equipment with SIST 201 fuses
 - [A ... F] Second letter indicates circuits number (A - 3 circuits; B - 4; C - 5; D - 6; E - 7; F - 8)

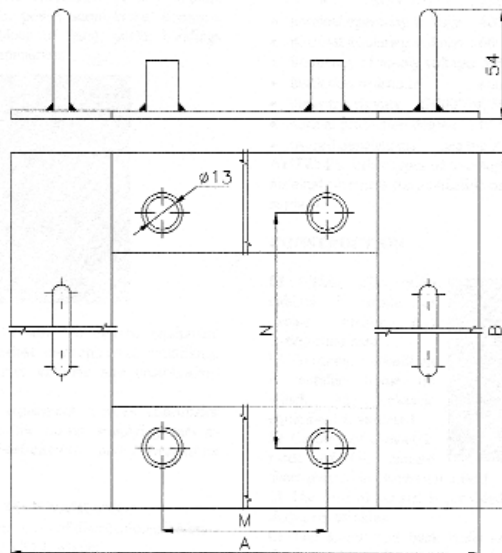
Fabrication code	Circuit number	Fuses support
RS 80581 A	2	SIST 101
RS 80581 B	2	SIST 201
RS 80633 AA	3	SIST 101
RS 80633 AB	4	SIST 101
RS 80633 AC	5	SIST 101
RS 80633 BA	3	SIST 201
RS 80633 BB	4	SIST 201
RS 80633 BC	5	SIST 201
RS 80633 BD	6	SIST 201
RS 80633 BE	7	SIST 201
RS 80633 BF	8	SIST 201



Technical data

■ nominal current	160 A
■ nominal operating voltage	400 / 230 V a.c.
■ nominal insulating voltage	660 V a.c.
■ frequency	50 Hz
■ insulation resistance	min. 100 MΩ
■ dielectric rigidity	2000 V ef, 50 Hz / 1min.
■ protection degree	IP 54
■ overall dimensions	see the ANNEX
■ weight	
RS 80581	max. 35 Kg
RS 80633 A	max. 55 Kg
RS 80633 B	max. 65 Kg

Model for moulding of bottom plate



Variant	A	B	M	N	Variant equipped with 2 - 8 circuits
RS 80703 A	320	180	203	118	RS 80581 []
RS 80703 B	415	240	298	178	RS 80633 A []
RS 80703 C	510	240	393	178	RS 80633 B []
RS 80703 D	605	300	488	238	-

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