

RSP-E12.5-10

1-pole lighting and surge arresters, $I_{imp}=12,5 \text{ kA/pole}$



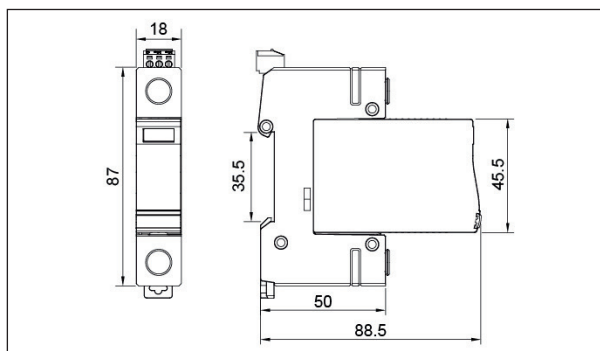
- Surge arresters class I+II / type 1+2 per IEC/EN 61643-11 standard.
- Single pole SPD for multi-purpose surge protection.
- 18mm narrow model design, pluggable module for easy replacement without the need to remove system wiring.
- Unique thermal disconnecter design provides quick thermal response and secure disconnection.
- Lightning current capacity up to 12.5 kA 10 / 350 μs .
- Surge current capability up to 80 kA 8 / 20 μs .
- Low voltage protection level.
- High short-circuit current rating up to 50 kA $_{rms}$, suitable for application in most AC power systems.
- Degradation failure indication and optional remote signal contact.
- Wide operating temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$.
- 35 mm DIN-rail mounting.

The is class I & class II (or T1+T2) SPD designed for low-voltage power system lightning current & surge protection, especially for location of high risk exposure or LPZ 0-2 building entrances (IEC 62305-4) to against the damage from direct or close lightning strikes.

With built in high energy MOV, ensures remarkable lightning current discharge capacity up to 12.5 kA 10/350 μs . The unique design of thermal protection provides quick thermal response and secure disconnection. Series are ideal protection for environments with frequent switching operations or lightning strikes.

Electrical data	
Number of poles	1
Nominal voltage (50/60 Hz)	U_n 230 V AC
Max. continuous operating voltage 275 V / 255 V AC	U_c 275 V AC
Nom. discharge current (8/20 μs)	I_n 25 kA
Max. discharge current (8/20 μs)	I_{max} 80 kA
Impulse discharge current (10/350 μs)	I_{imp} 12,5 kA
Voltage protection level	U_p 1,2 kV
Response time	t_A $\leq 25 \text{ ns}$
Backup fuse	$\leq 250 \text{ A gL/gG}$
Short-circuit current rating	I_{sccr} 50 kA $_{rms}$
Leakage current	I_{pe} 0,1 mA
TOV withstand (5 s)	U_T 335 V / 5s
General data	
Ambient temperature (operating)	T_a $-40 \dots +85^{\circ}\text{C}$
Cross section of cables connected to terminals	35 mm 2 (single core) / 25 mm 2 (multi-core)
Terminal tightening moment	max. 4,5 Nm
Mounting	direct mounting on 35 mm rail mount (EN 60715)
Cover protection category	IP20 (built-iny, PN-EN 60529)
Cover material	thermoplastic; extinguishing degree V-0 (UL 94)
Dimensions (L x W x H) [mm]	87 x 18 x 88.5
Weight	324 g
Remote fault signalisation	
Type of contact	potential-free (isolated contact 1 CO)
Switching capability of contact	0,5 A / 250 V AC; 0,1 A / 250 V DC; 0,2 A / 125 V DC; 0,5 A / 75 V DC
Cross section of cables connected to terminals	1,5 mm 2 (wire single core)

Dimensions



Schematic Diagram

