RSP-E12.5-11

2-pole lighting and surge arresters, Iimp=12,5 kA/pole

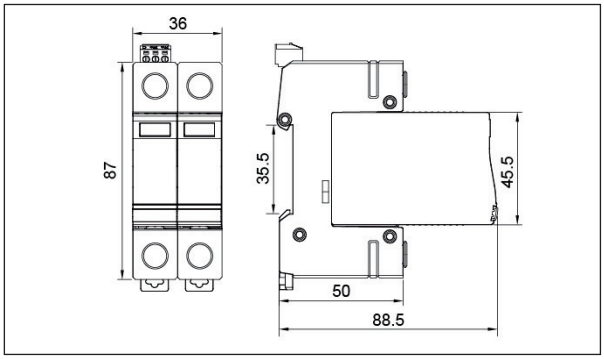
- Surge arresters class I+II / type 1+2 per IEC/EN 61643-11 standard.
- Prewired two poles SPD (“1+1” circuit) for use in single phase.
- 18mm narrow model design, pluggable module for easy replacement without the need to remove system wiring.
- Unique thermal disconnector design provides quick thermal response and secure disconnection.
- Lightning current capacity up to 12.5 kA 10/350 µs (L-N), 25 kA 10/350µs (N-PE).
- Surge current capability up to 80 kA 8/20 µs (L-N), 50 kA 8/20 µs (N-PE).
- 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°C ~85°C.
- 35 mm DIN-rail mounting.

The PN25 is class I & class II (or T1+T2) prewired two poles 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.

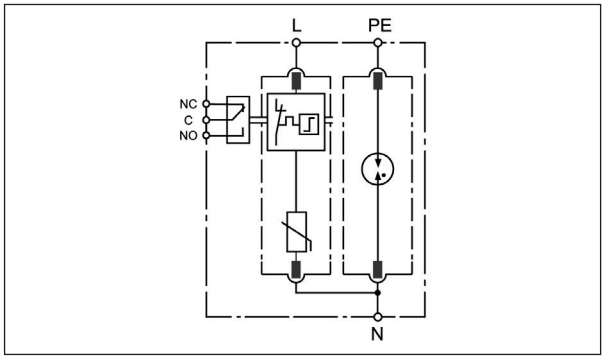
With built in high energy MOV and GDT, PN25 ensures remarkable lightning current discharge capacity up to 12.5 kA 10/350 µs (L-N) and 25 kA 10/350 µs (N-PE). The unique design of thermal protection provides quick thermal response and secure disconnection. PN25 is ideal protection for environments with frequent switching operations or lightning strikes.

Electrical data		
Number of poles		2 (1P+1)
Nominal voltage (50/60 Hz)	U_n	230 V AC
Max. continuous operating voltage 275 V AC 275 V AC / 255 V AC	U_c	L-N / N-PE 275 V AC/ 255VAC
Nom. discharge current (8/20 µs)	I_n	L-N / N-PE 25 kA/25 kA
Max. discharge current (8/20 µs)	I_{max}	L-N / N-PE 80 kA/ 50 kA
Impulse discharge current (10/350 µs)	I_{imp}	L-N / N-PE 12,5 kA/ 25 kA
Voltage protection level	U_p	L-N / N-PE 1,2 kV/ 1,5 kV
Response time	t_A	L-N / N-PE ≤ 25 ns / ≤ 100 ns
Backup fuse		≤ 250 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	L-N / N-PE 335 V / 5s 1200 V / 200 ms
General data		
Ambient temperature (operating)	T_a	−40…+85°C
Cross section of cables connected to terminals		35 mm² (single core) / 25 mm² (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 × W × H) [mm]		87 × 36 × 88.5
Weight		535 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 mm² (wire single core)

Dimensions



Schematic Diagram



15.04.2026

Export Sales Department phone +48 68 47 90 822, 850 • e-mail: export@relpol.com.pl