

# RSP-E12.5-30

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



- Surge arresters class I+II / type 1+2 / B+C per IEC/EN 61643-11 standard.
- Three poles SPD ("3+0" circuit) for use in three phase systems.
- 18 mm 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  $\mu\text{s}$ .
- Surge current capability up to 80 kA 8/20  $\mu\text{s}$ .
- 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 3P is class I & class II (or T1+T2) prewired three 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, 3P ensures remarkable lightning current discharge capacity up to 12.5 kA 10/350  $\mu\text{s}$ . The unique design of thermal protection provides quick thermal response and secure disconnection. 3P is ideal protection for environments with frequent switching operations or lightning strikes.

## Electrical data

Number of poles		3
Nominal voltage (50/60 Hz)	$U_n$	230 V AC
Max. continuous operating voltage 275 V AC / 255 V AC	$U_c$	275 V AC
Nom. discharge current (8/20 $\mu\text{s}$ )	$I_n$	25 kA
Max. discharge current (8/20 $\mu\text{s}$ )	$I_{max}$	80 kA
Impulse discharge current (10/350 $\mu\text{s}$ )	$I_{imp}$	12,5 kA
Voltage protection level	$U_p$	1,2 kV
Response time	$t_A$	$\leq 25 \text{ ns}$
Backup fuse		$\leq 315 \text{ A/gL/gG}$
Short-circuit current rating	$I_{scrr}$	50 kA $_{rms}$
Leakage current	$I_{pe}$	0,1 mA
TOV withstand (5 s)	$U_T$	335 V / 5s

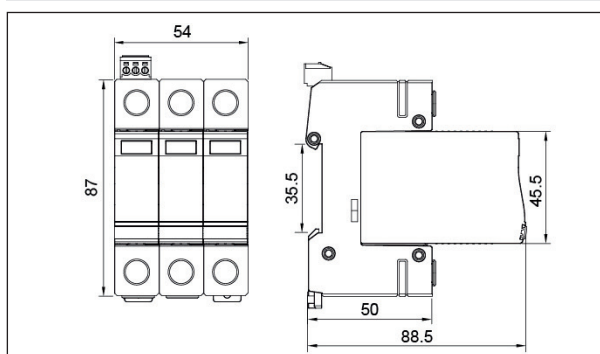
## General data

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 54 x 88.5
Weight		972 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

