

RSP-T1T2-AC 12.5/...

1,2,3,4-pole lightning and surge arresters, $I_{imp} = 12,5 \text{ kA/pole}$

RSP-T1T2-AC 12.5/1P



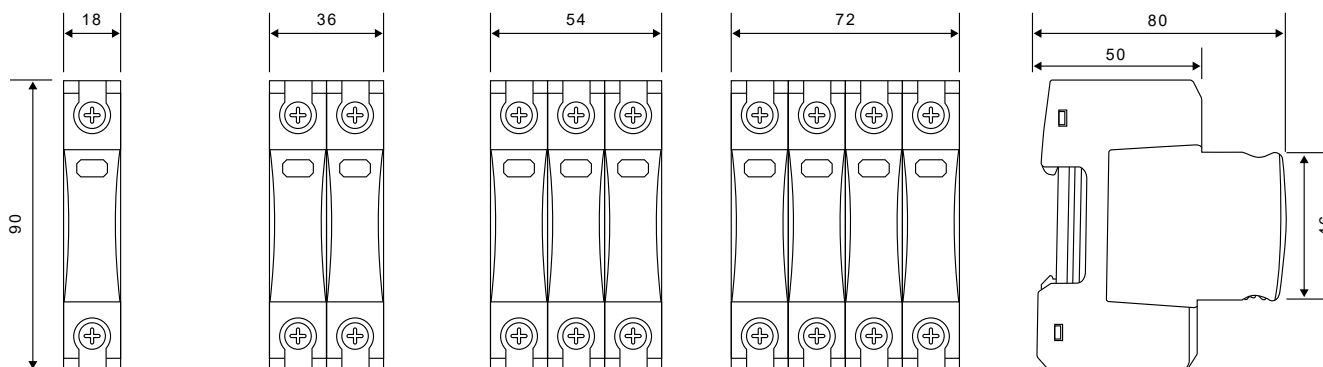
RSP-T1T2-AC 12.5/3P



- Category IEC / EN / VDE: class I+II / type 1+2 / B+C
- Location of use: main-distribution boards (MB)
- Network systems: TT, TN-S, TN-C
- Modes of protection: L-N, N-PE
- Protection elements: MOV, MOV+GDT
- Cover: modular (replaceable module)
- Mechanical status indicator: green/red flag
- Compliance with standards: IEC 61643-11:2011, ISO 9001, CE, RoHS

Type of arrester	RSP-T1T2-AC 12.5 /1P	RSP-T1T2-AC 12.5 /2P	RSP-T1T2-AC 12.5 /3P	RSP-T1T2-AC 12.5 /4P	RSP-T1T2-AC 12.5 /1+NPE	RSP-T1T2-AC 12.5 /3+NPE
Electrical data						
Number of poles	1	2	3	4	2	4
Max. continuous operating voltage U_c	275 V AC					
Nom. discharge current (8/20 μ s) I_n	30 kA					
Max. discharge current (8/20 μ s) I_{max}	60 kA					
Impulse discharge current (10/350 μ s) I_{imp}	12,5 kA					
Voltage protection level U_p	$\leq 2 \text{ kV}$					
Response time t_A	$\leq 100 \text{ ns}$					
Max. backup fuse (L) (L-L')	200 A gL/gG 125 A gL/gG					
Follow current interrupt rating I_{fi}	2 kA _{RMS} /255 V (fuse 32 A will not be triggered)					
TOV withstand (5 s) U_T	355 V					
General data						
Ambient temperature (operating) T_a	-40...+80 °C (parallel wiring) / -40...+60 °C (through wiring)					
Cross section of cables connected to terminals	35 mm ² (solid) / 50 mm ² (flexible)					
Terminal tightening moment	max. 4,5 Nm					
Mounting	direct mounting on 35 mm rail mount (EN 60715)					
Cover protection category	IP 20 (EN 60529)					
Cover material	thermoplastic; extinguishing degree UL 94 V-0					
Dimensions (L x W x H) [mm]	90 x 18 x 80	90 x 36 x 80	90 x 54 x 80	90 x 72 x 80	90 x 36 x 80	90 x 72 x 80
Weight	112 g	197 g	294 g	384 g	213 g	370 g

Dimensions



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RSP-T1T2-AC 12.5/2P
RSP-T1T2-AC 12.5/1+NPE

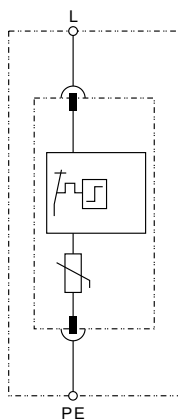
RSP-T1T2-AC 12.5/3P

RSP-T1T2-AC 12.5/4P
RSP-T1T2-AC 12.5/3+NPE

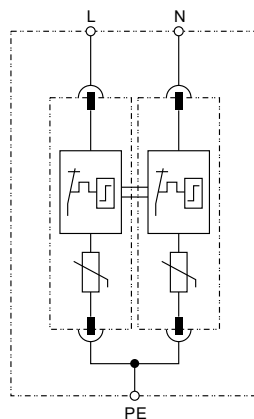
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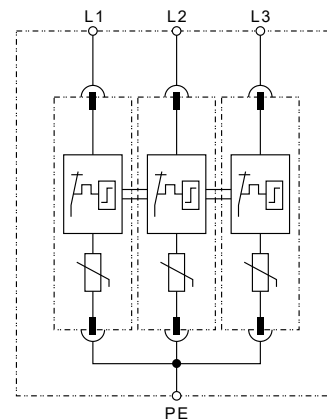
Connection diagrams



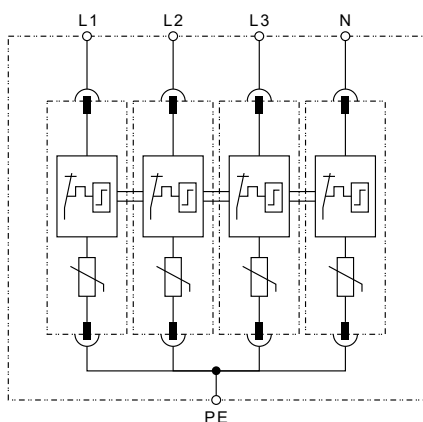
RSP-T1T2-AC 12.5/1P



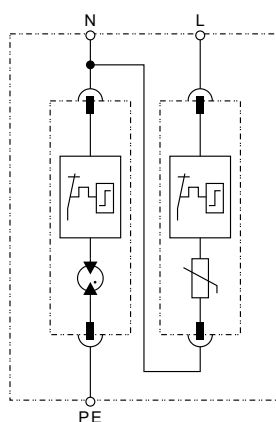
RSP-T1T2-AC 12.5/2P



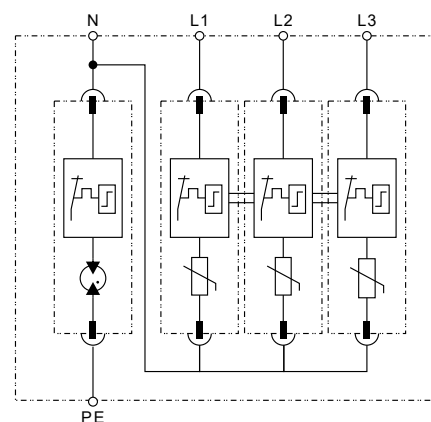
RSP-T1T2-AC 12.5/3P



RSP-T1T2-AC 12.5/4P



RSP-T1T2-AC 12.5/1+NPE



RSP-T1T2-AC 12.5/3+NPE

Applications:

- for protecting low voltage equipment against lightning and surge damages,
- for installation in conformity with the lightning protection zones concept at LPZ 0-1,
- designed according to IEC 61643-11:2011.

Features:

- class I+II SPDs have adopted hermetical GDT technology, high follow current extinguishing capability,
- extremely low voltage protection level,
- double terminals for parallel or series (V-shape) connection,
- multifunctional connection for conductors and busbars.

Series description:

- **RSP-T1T2-AC 12.5/...** is the class I+II SPD for low voltage power supply system,
- mainly installed at main distribution cabinet,
- it can discharging lightning current, there is no external spark thanks to the sealed sparkgap technology,
- it has strong follow current extinguishing capability, at 2 kA 255 V fuse 32 A will not be triggered,
- note: all SPD used in power supply system should always add backup fuse or CCT breaker.

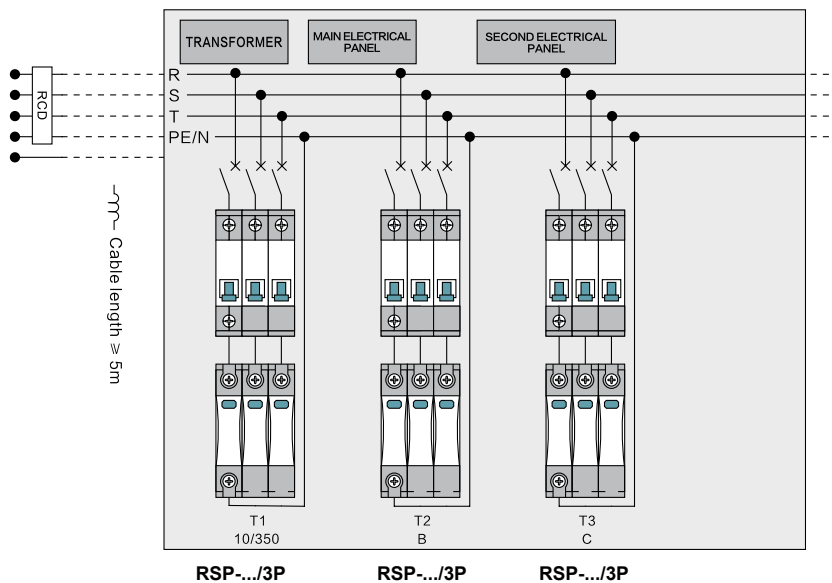
Types for reference:

- **RSP-.../1P**: combined SPD for single-phase TN-C systems and TN-C-S systems (if the PEN connection is established within 0,5 m),
- **RSP-.../2P**: combined SPD for single-phase TN-S systems,
- **RSP-.../3P**: combined SPD for three-phase TN-C systems and TN-C-S systems (if the PEN connection is established within 0,5 m),
- **RSP-.../4P**: combined SPD for three-phase TN-S systems,
- **RSP-.../1+NPE**: combined SPD for single-phase TT systems,
- **RSP-.../3+NPE**: combined SPD for three-phase TT systems.

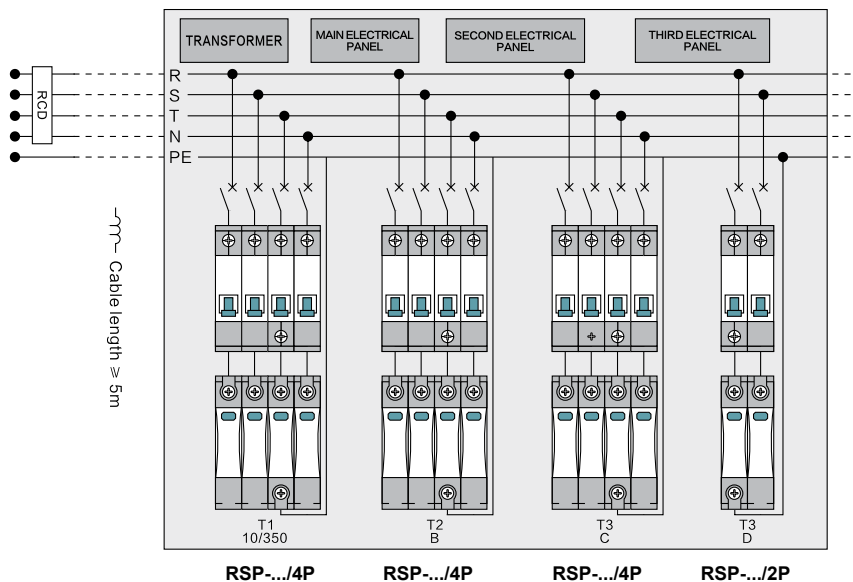
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TN-C system



TN-S system



TT system

