

# RSP-T1T2-AC 7/...

1,2,3,4-pole lightning and surge arresters,  $I_{imp} = 7 \text{ kA/pole}$

RSP-T1T2-AC 7/2P



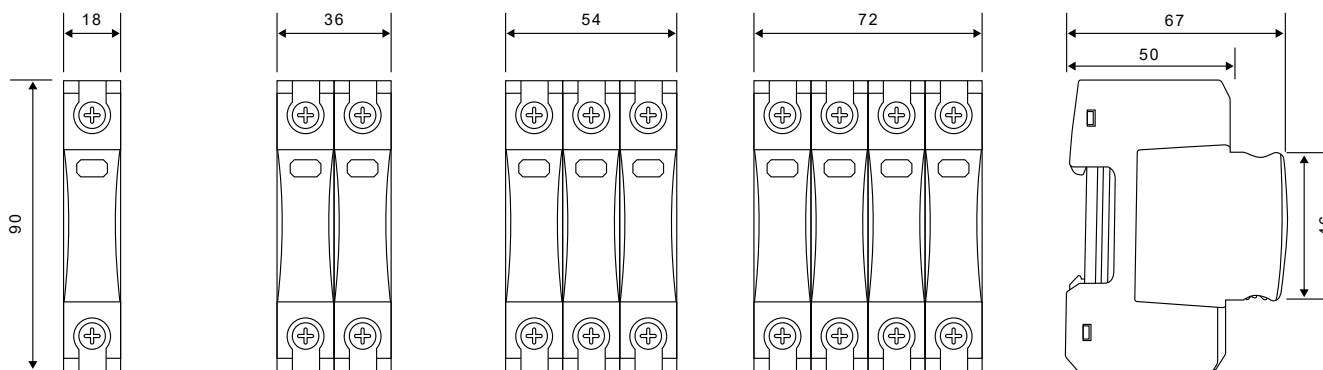
RSP-T1T2-AC 7/3+NPE



- 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) green/red flag
- Mechanical status indicator: green/red flag
- Compliance with standards: IEC 61643-11:2011, ISO 9001, CE, RoHS

Type of arrester	RSP-T1T2-AC 7 /1P	RSP-T1T2-AC 7 /2P	RSP-T1T2-AC 7 /3P	RSP-T1T2-AC 7 /4P	RSP-T1T2-AC 7 /1+NPE	RSP-T1T2-AC 7 /3+NPE
<b>Electrical data</b>						
Number of poles	1	2	3	4	2	4
Max. continuous operating voltage $U_c$	275 V AC					
Nom. discharge current (8/20 $\mu\text{s}$ ) $I_n$	20 kA					
Max. discharge current (8/20 $\mu\text{s}$ ) $I_{max}$	50 kA					
Impulse discharge current (10/350 $\mu\text{s}$ ) $I_{imp}$	7 kA					
Voltage protection level $U_p$	$\leq 1,5 \text{ kV}$					
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 <sub>RMS</sub> /255 V (fuse 32 A will not be triggered)					
TOV withstand (5 s) $U_T$	355 V					
<b>General data</b>						
Ambient temperature (operating) $T_a$	-40...+80 °C (parallel wiring) / -40...+60 °C (through wiring)					
Cross section of cables connected to terminals	35 mm <sup>2</sup> (solid) / 50 mm <sup>2</sup> (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 67	90 x 36 x 67	90 x 54 x 67	90 x 72 x 67	90 x 36 x 67	90 x 72 x 67
Weight	110 g	210 g	302 g	385 g	203 g	369 g

## Dimensions



RSP-T1T2-AC 7/1P

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RSP-T1T2-AC 7/1+NPE

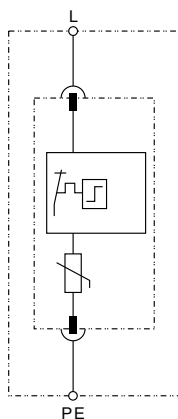
RSP-T1T2-AC 7/3P

RSP-T1T2-AC 7/4P  
RSP-T1T2-AC 7/3+NPE

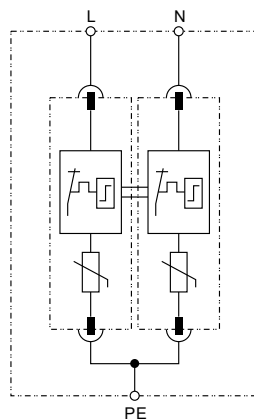
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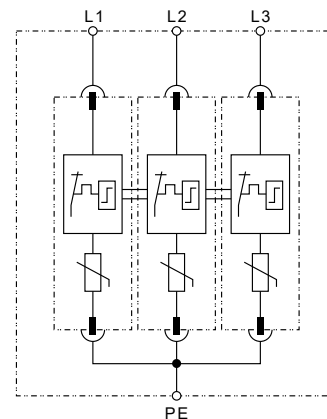
## Connection diagrams



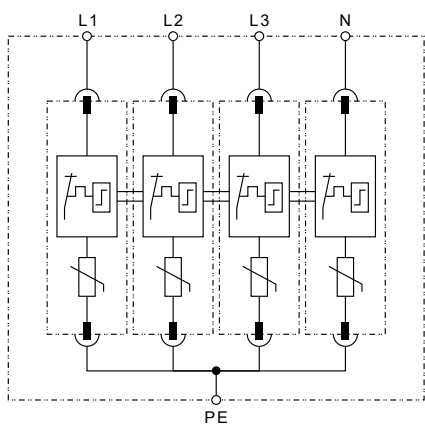
RSP-T1T2-AC 7/1P



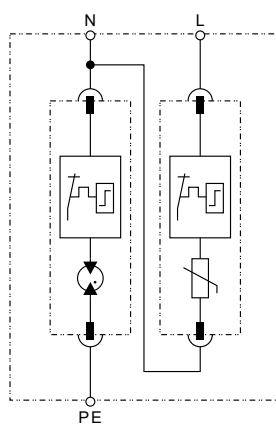
RSP-T1T2-AC 7/2P



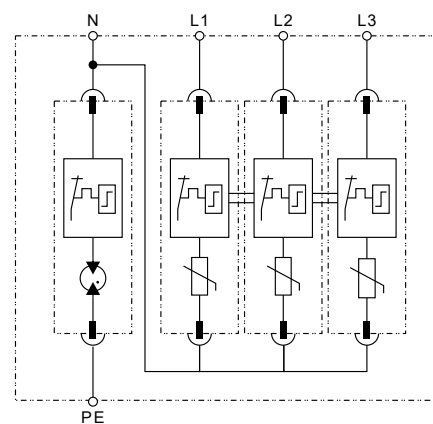
RSP-T1T2-AC 7/3P



RSP-T1T2-AC 7/4P



RSP-T1T2-AC 7/1+NPE



RSP-T1T2-AC 7/3+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 7/...** 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.

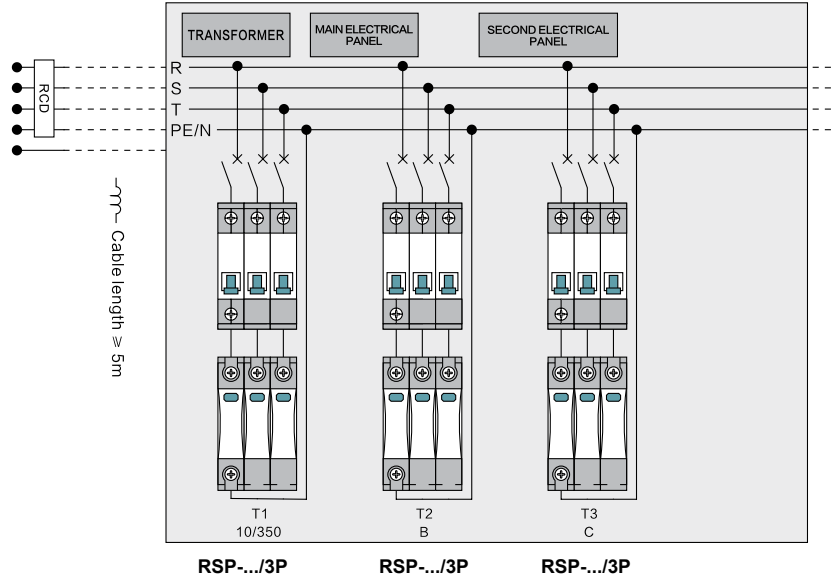
## Types for reference:

- **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.

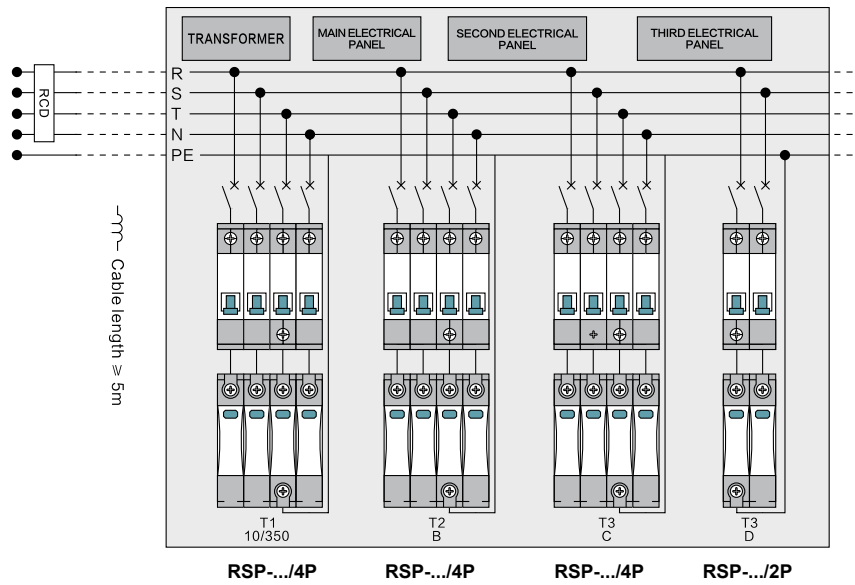
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## TN-C system



## TN-S system



## TT system

