RSP-T1T2-AC 7/...

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

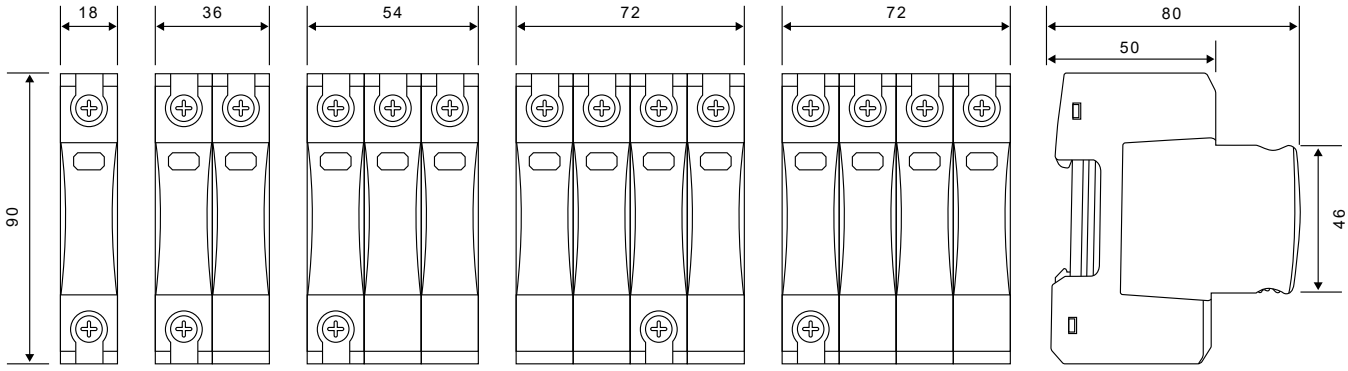
RSP-T1T2-AC 7/2P

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)
- 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
Electrical data							
Number of poles		1	2	3	4	2	4
Max. continuous operating voltage	U_c	275 V AC				255 V AC	
Nom. discharge current (8/20 µs)	I_n	20 kA					
Max. discharge current (8/20 µs)	I_{max}	50 kA					
Impulse discharge current (10/350 µs)	I_{imp}	7 kA					
Voltage protection level	U_p	≤ 1,5 kV					
Response time	t_A	≤ 100 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 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

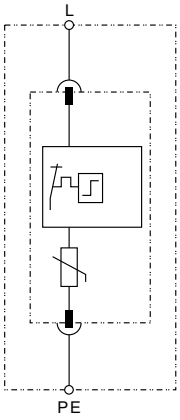


RSP-.../1P **RSP-..../2P** **RSP-.../1+NPE** **RSP-.../3P** **RSP-.../4P** **RSP-.../3+NPE**

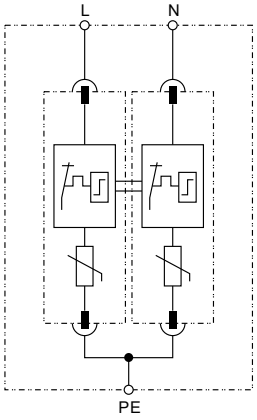
09.10.2024

Export Sales Department phone +48 68 47 90 832, 951 • e-mail: export@relpol.com.pl

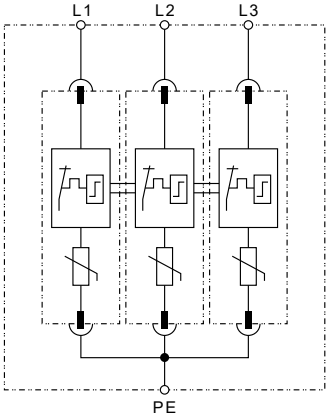
Connection diagrams



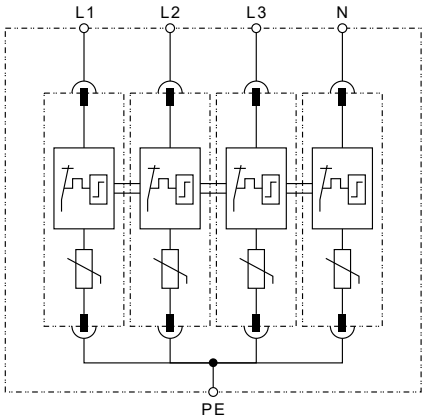
RSP-T1T2-AC 7/1P



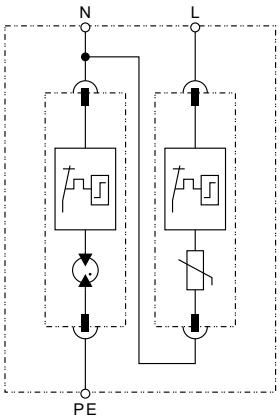
RSP-T1T2-AC 7/2P



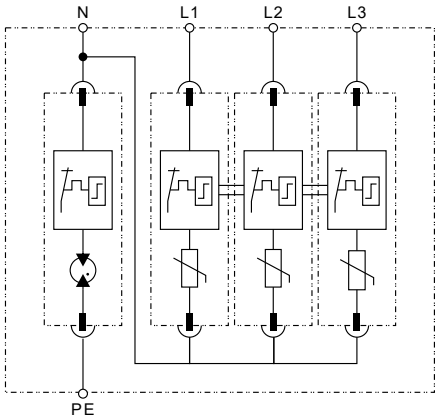
RSP-T1T2-AC 7/3P



RSP-T1T2-AC 7/4P



RSP-T1T2-AC 7/1+NPE



RSP-T1T2-AC 7/3+NPE

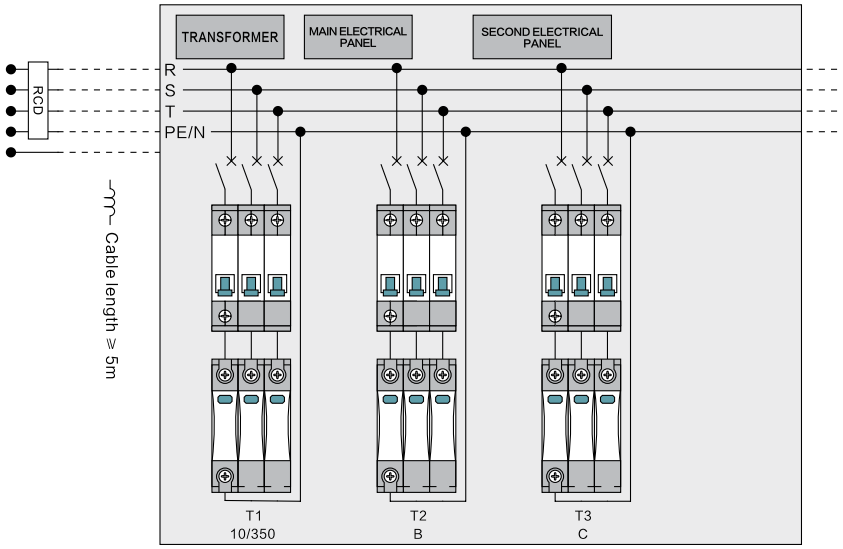
Applications:
- for protecting low voltage equipment against lightning and surge damages,
- for installation in conformity with the lightning protection zones concept at LPZ 0-1,
- designed according to IEC 61643-11:2011.

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.

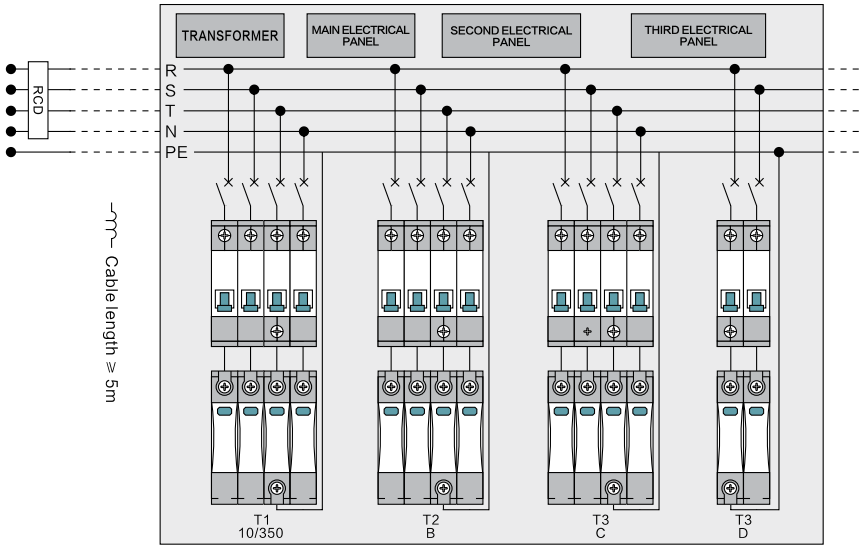
Types for reference:
- **RSP-.../1P**: combined SPD for single-phase TN-C systems and TN-C-S systems (if the PEN connection is established within 0,5 m),
- **RSP-.../2P**: combined SPD for single-phase TN-S systems,
- **RSP-.../3P**: combined SPD for three-phase TN-C systems and TN-C-S systems (if the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

TN-C system



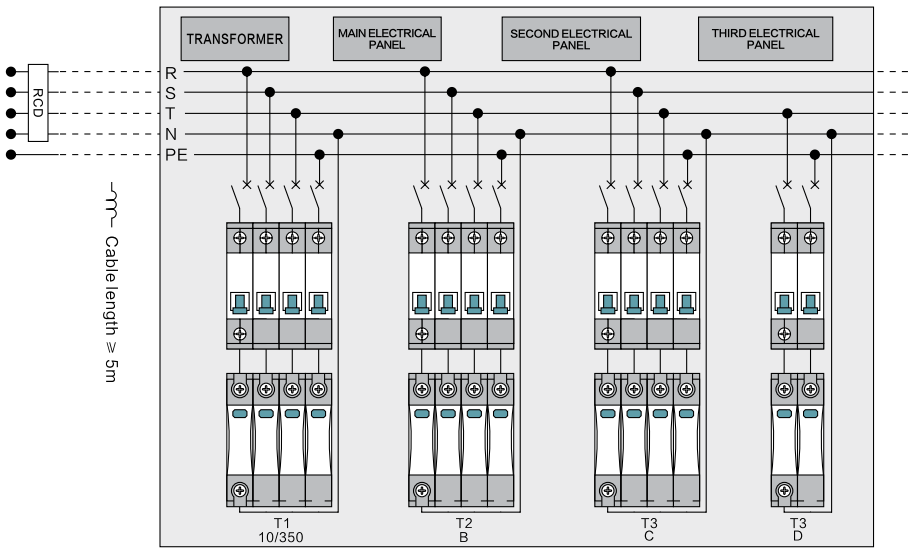
RSP-.../3P **RSP-.../3P** **RSP-.../3P**

TN-S system



RSP-.../4P **RSP-.../4P** **RSP-.../4P** **RSP-.../2P**

TT system



RSP-.../3+NPE **RSP-.../3+NPE** **RSP-.../3+NPE** **RSP-.../1+NPE**

09.10.2024