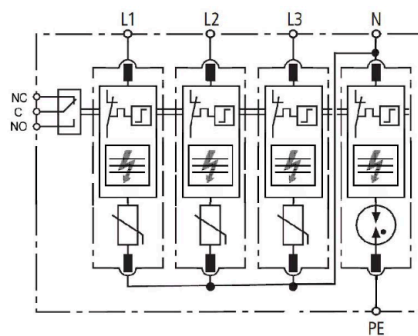


**Class I + Class II (T1+T2), Four-poles Surge Arresters
DT50/385-(3V+T)-S**

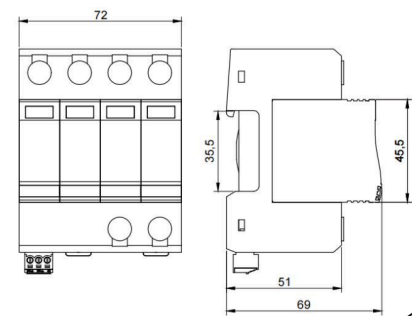
The DT50 3V+T is class I & class II (or T1+T2) prewired two poles SPD designed for low-voltage power system lightning current and surge protection, used at the boundaries from lightning protection zone $O_b -2$ and higher.

With built in PROSURGE high energy MOV and GDT, DT50 3V+T ensures remarkable lightning current discharge capacity up to 7.5kA 10/350 μ s (L-N), 12.5kA 10/350 μ s (N-PE) and high reliability.

The unique design of thermal protection provides quick thermal response and secure disconnection.



Basic Circuit Diagram



Dimension Drawing

- TUV certified T1+ T2 SPD per IEC/EN 61643-11 standard.
- Prewired two poles SPD (“3+1” circuit) for use in three phase TN/TT systems
- Unique thermal disconnecter design provides quick thermal response and secure disconnection
- Lightning current capacity up to 7.5kA 10/350 μ s (L-N), 12.5kA 10/350 μ s (N-PE)
- Surge current capability up to 50kA 8/20 μ s
- Low voltage protection level
- High short-circuit current rating up to 25kArms, suitable for application in most AC power system.
- Degradation failure indication and optional remote signal contact.
- Pluggable module for easy replacement without the need to remove system wiring.
- Wide operating temperature -40 \square C ~85 \square C
- 35mm DIN-rail mounting
- Comply with UL1449 5th Edition, IEEE C62.41, CSA C22.2 standards

**Class I + Class II (T1+T2), Four-poles Surge Arresters
DT50/385-(3V+T)-S**

Technical Data

Part No.	DT50/385-(3V+T)-S	
In accordance with	IEC/EN 61643-11:2011; UL1449 5th	
Category IEC/EU/VDE	I+ II /1+2/ B+C	
Protection mode	L-N ,N-PE	
Max. continuous operating voltage(AC) U_c	L-N	385V
	N-PE	255V
Nominal discharge current (8/20) I_n	20kA	
Max. discharge current (8/20) I_{max}	50kA	
Lightning impulse current (10/350) I_{imp}	L-N	7.5kA
	N-PE	12.5kA
Voltage protection level U_p	L-N	1.8kV
	N-PE	1.5kV
Response time t_A	L-N	≤25ns
	N-PE	≤100ns
Temporary overvoltage TOV U_T Withstand mode	L-N	403V/5s
	N-PE	1200V/200ms
Follow current & interrupt rating I_{fi}	N-PE	100A
Leakage current I_{pe}	<0.1mA	
Short-circuit current rating I_{sscr}	25kArms	
Backup fuse(only required if not already provided in mains)	≤125A gL/gG	
Operating temperature range	-40°C ~ +85°C	
Altitude	-500m ~ +4000m	
Cross-section of connection wire (max)	Single-strand 35mm ² ; multi-strand 25mm ²	
Mounting	35mm DIN-rail in accordance with EN 50022/DIN46277-3	
Enclosure material	Thermoplastic; extinguishing degree UL94 V-0	
Degree of protection	IP20	
Installation width	4 module, DIN 43880	
Thermal disconnecter	Internal Green – normal ; red - failure	
Remote alarm contact	Optional	
Approvals, Certifications	TUV, CE	
Additional data for Remote Alarm Contacts		
Remote alarm contact type	Isolated Form C	
Switching capability U_n/I_n	AC: 250V/0.5A	DC: 250V/0.1A; 125V/0.2A; 75V/0.5A
Cross-section of remote signaling wire (max)	1.5mm ² (or # 16AWG)	