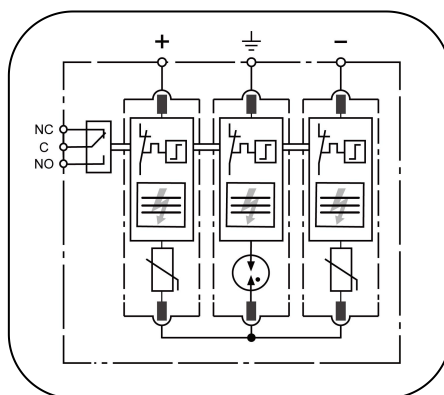
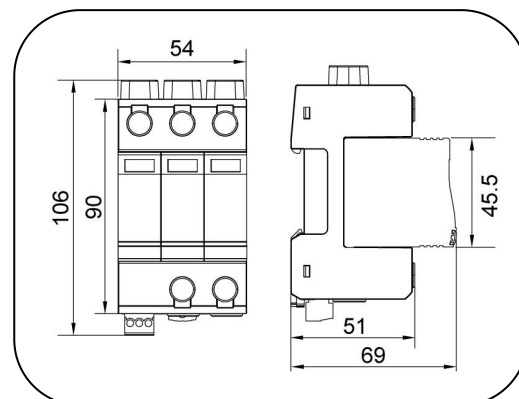


Class II /T2, DC Surge Arresters

DP50/1000-V2T-CD(-S)



Basic circuit diagram



Dimension drawing

The DP50 V2T is class II (or T2) prewired DC SPD designed for DC application such as electric vehicle(EV) charging station,energy storage etc. to against the damaging from surges and spikes caused by lightning and other electrical sources.

With built in PROSURGE high energy MOV & Gas Tube, DP50 V2T ensures remarkable surge current discharge capacity up to 50kA 8/20 μ s and high reliability. The unique design of thermal protection provides quick thermal response and secure disconnection.

- Class II/T2 DC SPD per IEC/EN 61643-1/31/41 standard
- Prewired three poles of Y circuit for common mode & differential mode protection
- Application in DC power system like electric vehicle(EV) charging station system, energy storage system etc
- Unique thermal disconnecter design
- Total discharge current capacity up to 100kA 8/20 μ s
- Surge current capability up to 50kA 8/20 μ s per pole
- High short-circuit current rating up to 25kA
- Higher TOV withstand performance
- Galvanic separation between DC+/DC- and GND conductor, no leakage current to ground
- Low voltage protection level
- Failure indication and optional remote signal contact
- Pluggable module for easy replacement without the need to remove system wiring
- Wide operating temperature -40° C ~85° C
- 35mm DIN-rail mounting
- Comply with IEC61643-1/11/31/41,EN 50539-11,UL1449 5th, IEEE C62.41,CSA C22.2 standards

Technical data

Part No.		DP50/1000-V2T-CD(-S)	
		1000	
In accordance with		IEC/EN 61643-1/11/31/41; UL1449 5th; EN 50539-11	
Category IEC/EU/VDE		II/T2/C	
Protection mode		DC+ to DC- , DC+/- to GND	
Nominal Voltage (DC) U_n		1000V	
Max. continuous operating voltage (DC) U_c	DC+ to DC-	1000V	
	DC+/- to GND	1000V	
Nominal discharge current (8/20) I_n		20kA	
Max. discharge current (8/20) I_{max}		50kA	
Total discharge current (8/20) I_{total}		100kA	
Voltage protection level U_p	DC+ to DC-	4.8kV	
	DC+/- to GND	2.5kV	
Short-circuit Current rating I_{scsr}		25kA	
Response time t_A	DC+ to DC-	≤25ns	
	DC+/- to GND	≤100ns	
Leakage current (DC+/- to GND)		No	
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		3 modules, DIN 43880	
Thermal disconnecter		Internal Green – normal ; red - failure	
Remote alarm contact		Optional	
Approvals, Certifications		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)	