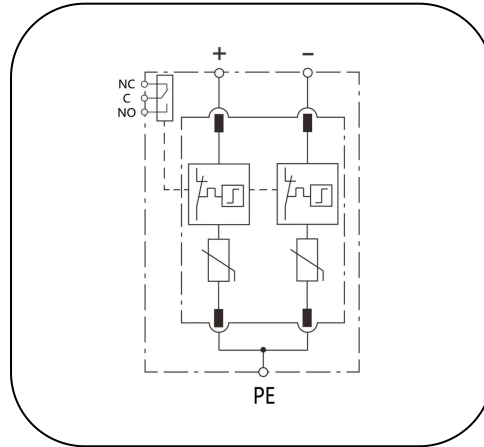
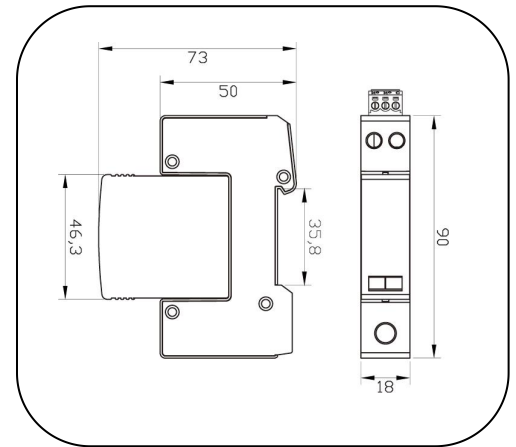


MDD Series



Basic circuit diagram



Dimension drawing

Class III/ T3 surge arrester for DC power supply system protection against surges at the boundaries from lightning protection zone 1-2 and higher

- Prewired 18mm compact T2 SPD for DC circuit
- Max discharge current up to 40kA 8/20μs
- Pluggable design for easy replacement
- Reliable thermal disconnect to be fail-safe
- Failure indication
- Optional remote signal contact
- Comply with IEC/EN 61643-11/31, UL 1449 5th, CSA C22.2

Part No.		MDD20PR/12-V-C-S	MDD20PR/24-V-C-S	MDD30PR/48-V-C-S	MDD40PR/75-V-C-S	MDD40PR/110-V-C-S
In accordance with		IEC/EN 61643-31:2011; UL1449-5th				
Category IEC/VDE		Class III / T3				
Nominal Voltage (DC)	Un	12V	24V	48V	75V	110V
Max. continuous operating voltage (DC)	Uc	31V	38V	65V	100V	150V
Nominal discharge current(8/20us)	In	10kA	10kA	15kA	20kA	20kA
Max. discharge current(8/20us)	I _{max}	20kA	20kA	30kA	40kA	40kA
Voltage protection level @In	Up	250V	280V	500V	600V	700V
Residual current	I _{PE}	<0.1mA				
Response time	tA	≤25 ns				
Backup fuse (only required if not already provided in mains)		80A gL/gG		100A gL/gG	125A gL/gG	
Environment		Temperature Range: -40° C ~ +80° C; Humidity: ≤95%; Altitude: ≤2000m				
Cross-section of connection wire		1.5mm ² ~ 10mm ² (V+ V- terminal) , 2.5 mm ² -25mm ² (PE terminal)				
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		1 modules, DIN 43880				
Thermal disconnecter		Red - failure				
Remote alarm contact		Yes				
Approvals, Certifications		CE				
Additional data for Remote Alarm Contacts						
Remote alarm contact type		Isolated Form C				
Switching capability Un/In		AC: 250V/0.5A DC: 250V/0.1A; 125V/0.2A; 75V/0.5A				
Max. Size of connecting wire		Max. 1.5mm ² (or # 16AWG)				