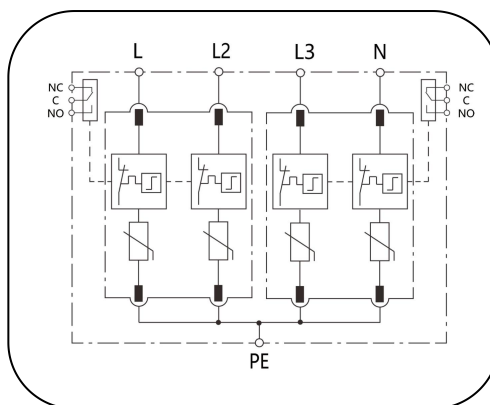
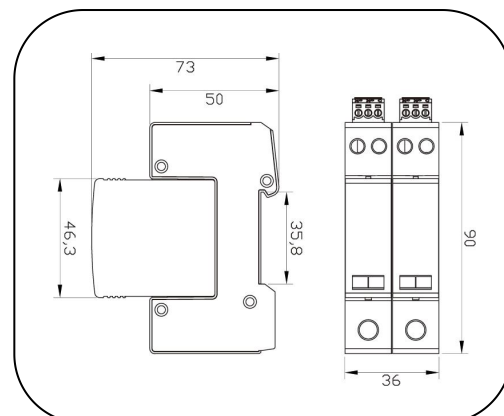


SURGE ARRESTERS – CLASS III

MDST20/XXX-4V-S



Basic circuit diagram



Dimension drawing

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

- Prewired 36mm compact T3 SPD for three phase TN/TT system, “4+0” protection circuit
- Max discharge current up to 20kA 8/20μs and open circuit voltage Uoc to 20kV
- Pluggable design for easy replacement
- Reliable thermal disconnecter to be fail-safe
- Failure indication
- Optional remote signal contact
- Comply with IEC/EN 61643-11, UL 1449 5th, IEEE C62.41, CSA C22.2

Part No.		MDST20/150-4V-S	MDST20/175-4V-S	MDST20/275-4V-S	MDST20/320-4V-S	MDST20/385-4V-S	MDST20/420-4V-S
In accordance with		IEC/EN 61643-11:2011; UL1449-5th					
Category IEC/VDE		Class III/ T3					
Max. continuous operating voltage (AC/DC)	Uc	150V / 200V	175V / 225V	275V / 350V	320V / 420V	385V / 505V	420V / 560V
Nominal discharge current(8/20us)	In	10kA					
Max. discharge current(8/20us)	I _{max}	20kA					
Open circuit voltage (1.2/50us)	Uoc	20kV					
Voltage protection level @In	Up	0.8kV	0.9kV	1.2kV	1.3kV	1.4kV	1.6kV
Temporary overvoltage -Withstand mode	U _{Tov}	175V/5s	228V/5s	335V/5s	335V/5s	403V/5s	504V/5s
Residual current	I _{PE}	<0.1mA					
Short-circuit withstand capability	I _{scor}	10kA					
Response time	t _A	≤25 ns					
Backup fuse (only required if not already provided in mains)		80A gL/gG					
Environment		Temperature Range: -40° C ~ +80° C; Humidity: ≤95%; Altitude: ≤2000m					
Cross-section of connection wire		1.5mm ² ~ 10mm ² (L/N 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		2 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)					