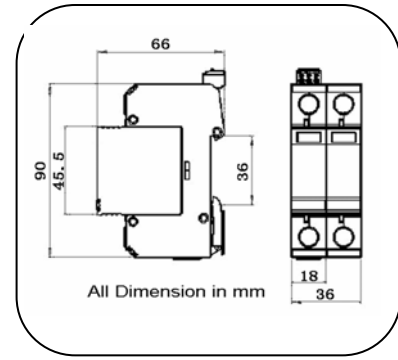
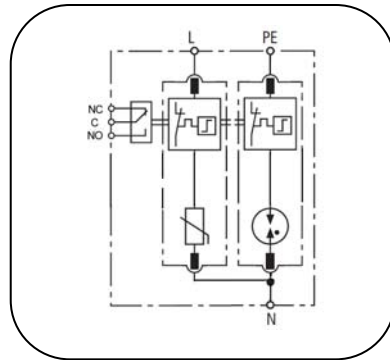


SURGE PROTECTIVE DEVICE – TYPE 1 SPD

DS50/xxx-(V+T)(-S)



Basic circuit diagram

Dimension drawing

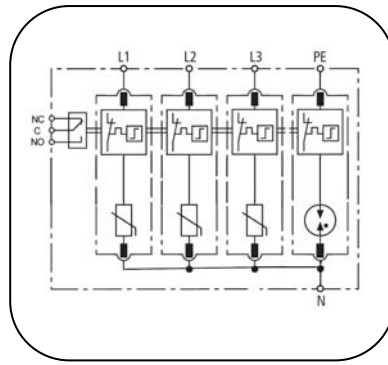
Type 1 surge protective device especially designed for low-voltage power supply system at the boundaries from lightning protection zone 1-2 and higher.

- Type 1CA surge arrester, passed intermediate current 100A, 500A, 1000A and short circuit current rating (SCCR) 200kA without external fuse or circuit breaker.
- ETL certified surge protector according to UL1449-4th
- Pluggable design with window fault indication
- Nominal discharge current I_n 20kA 8/20 per pole, max discharge current I_{max} 50kA 8/20 per pole
- High reliability due to global patented thermally protected MOV (TMOV) with special arc-extinguish device

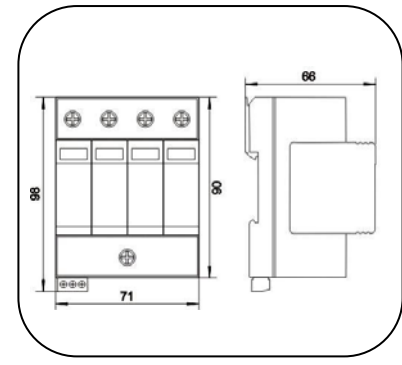
Part No.		DS50/150-(V+T)(-S)	DS50/180-(V+T)(-S)	DS50/250-(V+T)(-S)	DS50/275-(V+T)(-S)	DS50/320-(V+T)(-S)	DS50/420-(V+T)(-S)	DS50/550-(V+T)(-S)
In accordance with		UL1449-4th						
Category UL/IEC/VDE		Type1CA/ Class II						
Max. continuous operating voltage (MCOV)	L – N (VAC/VDC)	150 /200	180 /240	250 /330	275 /370	320 /420	420 /560	550 /710
	N–PE(VAC)	150	150	255	255	255	255	255
Nominal discharge current(8/20) I_n	L–N	20kA						
	N-PE	20kA						
Max. discharge current(8/20) I_{max}	L-N	50kA						
	N-PE	50kA						
Voltage protection rating	VPR(L-N)	<0.7kV	<0.7kV	<1.0kV	<1.0kV	<1.0kV	<1.2kV	<1.5kV
	VPR(N-PE)	<1.2kV	<1.2kV	<1.5kV	<1.5kV	<1.5kV	<1.5kV	<1.5kV
Response time	L-N	≤25 ns						
	N-PE	≤100 ns						
Follow current	L-N	No						
	N-PE	100Arms@Uc						
Backup fuse(only required if not already provided in mains)		125A gL/gG						
Operating temperature range		- 40°C ~ + 80°C						
Cross-section of connection wire		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		2 modules, DIN 43880						
Thermal disconnecter		Internal green – normal ; red - failure						
Remote alarm contact		“-S” means with remote alarm contact						
SCCR rating		200kA						
Approvals, Certifications		ETL/CE						
Additional data for Remote Alarm Contacts								
Remote alarm contact type		Isolated Form C						
Switching capability I_{un}/I_n		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)						

SURGE PROTECTIVE DEVICE – TYPE 1 SPD

DT50/xxx-(3V+T)(-S)



Basic circuit diagram



Dimension drawing

Type 1 surge protective device especially designed for low-voltage power supply system at the boundaries from lightning protection zone 1-2 and higher.

- Type 1CA surge protection device, passed intermediate current 100A, 500A, 1000A and short circuit current rating (SCCR) 200kA without external fuse or circuit breaker.
- ETL certified surge protector according to UL1449-4th
- Pluggable design with window fault indication
- Nominal discharge current I_n 20kA 8/20 per pole, max discharge current I_{max} 50kA 8/20 per pole
- High reliability due to global patented thermally protected MOV (TMOV) with special arc-extinguish device

Part No.		DT50/150-(3V+T)(-S)	DT50/180-(3V+T)(-S)	DT50/275-(3V+T)(-S)	DT50/320-(3V+T)(-S)	DT50/420-(3V+T)(-S)	DT50/550-(3V+T)(-S)
In accordance with		UL1449-4th					
Category UL		Type1CA					
Max. continuous operating voltage MCOV	L – N (VAC/DC)	150 /200	180 /240	275 /370	320 /420	420 /560	550 /710
	N-PE(VAC)	150	150	255	255	350	350
Nominal discharge current(8/20) I_n	L-N	20kA					
	N-PE	20kA					
Max. discharge current(8/20) I_{max}	L-N	50kA					
	N-PE	50kA					
Voltage protection rating	VPR(L-N)	<0.7kV	<0.7kV	<1.0kV	<1.0kV	<1.2kV	<1.5kV
	VPR(N-PE)	<0.8kV	<0.8kV	<1.0kV	<1.0kV	<1.2kV	<1.2kV
Response time	L-N	≤25 ns					
	N-PE	≤100 ns					
Follow current	L-N	No					
	N-PE	100Arms@Uc					
Backup fuse(only required if not already provided in mains)		125A gL/gG					
Operating temperature range		- 40°C ~ + 80°C					
Cross-section of connection wire		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 modules, DIN 43880					
Thermal disconnecter		Internal green – normal ; red - failure					
Remote alarm contact		Optional					
SCCR rating		200kA					
Approvals, Certifications		ETL/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			
Max. Size of connecting wire		Max. 1.5mm ² (or # 16AWG)					