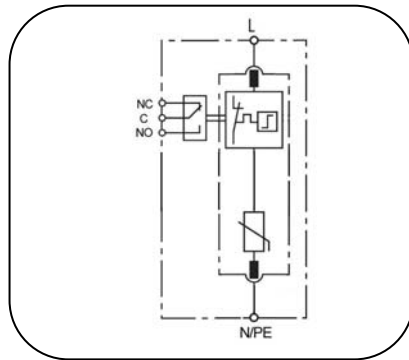
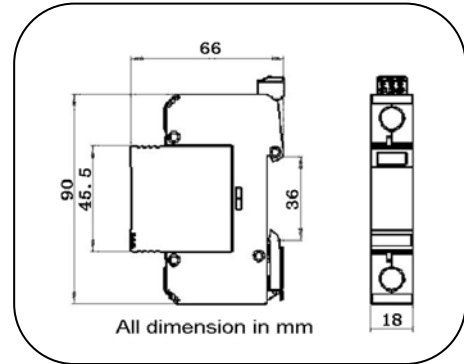


**SURGE PROTECTIVE DEVICE – TYPE 1 SPD**

**V50/xxx(-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 SPD, 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.	V50/150(-S)	V50/180(-S)	V50/250(-S)	V50/275(-S)	V50/320(-S)	V50/420(-S)	V50/510(-S)	V50/550(-S)
In accordance with	UL1449 4th							
Category IEC/VDE	Type1/CA							
Max. continuous operating voltage MCOV (VAC/VDC)	150 /200	180 /240	250 /330	275 /370	320 /420	420 /560	510 /670	550 /710
Nominal discharge current(8/20) $I_n$	20kA							
Max. discharge current(8/20) $I_{max}$	50kA							
Voltage protection rating VPR	<0.7kV	<0.7kV	<1.0kV	<1.0kV	<1.2kV	<1.5kV	<1.5kV	<1.5kV
Response time	≤25 ns							
Follow current	No							
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 <sup>2</sup> ; multi-strand 25mm <sup>2</sup>							
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 module, DIN 43880							
Thermal disconnect	Internal green – normal ; red - failure							
Remote alarm contact	Optional							
SCCR rating	200kA							
Approvals, Certifications	ETL/CE							
<b>Additional data for Remote Alarm Contacts</b>								
Remote alarm contact type	Isolated Form C							
Switching capability $I_n/I_n$	AC: 250V/0.5A DC: 250V/0.1A; 125V/0.2A; 75V/0.5A							
Max. Size of connecting wire	Max. 1.5mm <sup>2</sup> (or # 16AWG)							