

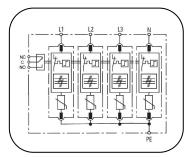
SURGE PROTECTIVE DEVICE - TYPE 1ca SPD



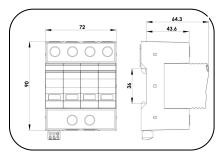
SP.../4P-S







Basic circuit diagram



Dimension drawing

UL recognized Type 1ca surge protective device is especially designed for low-voltage power supply system surge protection, especially for point of entry (Category C,D, ANSI/IEEE C62.41) and sub-circuit (Category B, ANSI/IEEE C62.41) protection.

Technical Features

- UL recognized Type 1ca SPD, passed short circuit current rating (SCCR) 200kA without external fuse or CB..
- ≻ High reliability due to global patented thermally protected MOV with special arc-extinguish device (TPAE technology).
- \triangleright Large surge energy capability up to 50KA per mode.
- DIN-rail mounting configuration.
- Pluggable module for easy replacement
- Degradation failure indication.
- Meet both standards of UL1449-4th and IEC61643-11:2012

Part No.		SP150/4P-S	SP180/4P-S	SP275A/4P-S	SP320/4P-S	SP385/4P-S	SP420/4P-S	SP550/4P-S	SP690/4P-S	
In accordance with		UL1449-4 th ; IEC61643-11:2012								
Category UL(EN/IEC)		Type 1ca (T2 or Class II)								
Max. continuous operating voltage (AC/DC)	MCOV	150 /200	180 /230	275 /350	320 /420	385 /505	420 /560	550 /745	690 /895	
Nominal discharge current(8/20 us)	ln	20kA								
Max. discharge current(8/20 us)	Imax	50kA 40kA								
Voltage Protection Rating @6kV/3kA UL 1449	VPR	≤0.7kV	≤1.0kV	≤1.0kV	≤1.2kV	≤1.5kV	≤1.5kV	≤1.8kV	≤2.5kV	
Temporary Overvoltage TOV -Withstand mode	Utov	175V/5s	228V/5s	335V/5s	335V/5s	403V/5s	504V/5s	697V/5s	872V/5s	
Residual Current	lpe	<0.1mA								
Short Circuit Current Rating per UL1449	Isccr	200kA								
Response time	ta	≤25 ns								
Backup fuse(only required if not already provided in mains)		125A gL/gG								
Operating temperature range		- 40°C ~ + 85°C								
Cross-section of connection wire		Single-strand 35mm2(or # 2AWG); multi-strand 25mm2(or # 4AWG)								
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 disconnector		Internal green – normal ; red - failure								
Remote alarm contact		Optional								
Approvals, Certifications					UL, C	E				
Additional data for Re	emote Alar	m Contacts								
Remote alarm contact type		Isolated Form C								
Switching capability Un/In				AC: 250V/0.5A	A DC: 250V	/0.1A; 125V/0.2	A; 75V/0.5A			
Max. Size of connecting wire		Max. 1.5mm ² (or # 16AWG)								