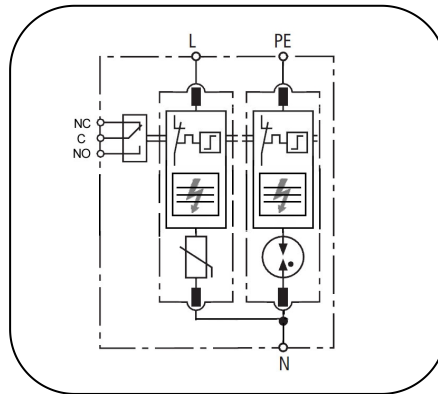
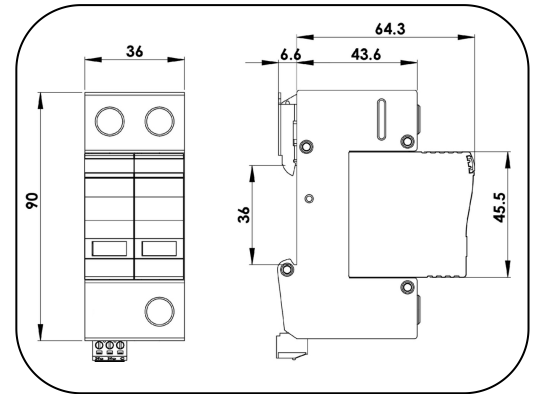


**SURGE PROTECTIVE DEVICE – TYPE 1ca SPD**

**SP.../PN-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).
- 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.	SP320/PN-S	
In accordance with	UL1449-4th; IEC61643-11:2012	
Category UL	Type 1ca	
Max. continuous operating voltage (VAC/VDC)	L - N	320/420
	N -PE	255
Nominal discharge current(8/20) In	L-N / N-PE	20kA
Max. discharge current(8/20) I <sub>max</sub>	L-N / N-PE	50kA
Voltage protection rating	L-N @VPR	≤1.2kV
	N-PE @VPR	≤0.9kV
Response time	L-N	≤25 ns
	N-PE	≤100 ns
Follow current extinguishing capability I <sub>fi</sub>	N-PE	I <sub>fi</sub> : 200Arms @ 255Vac
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 35mm <sup>2</sup> (or # 2AWG); multi-strand 25mm <sup>2</sup> (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	2 modules, DIN 43880	
Thermal disconnecter	Internal green – normal ; red - failure	
Remote alarm contact	Yes	
SCCR	200kA	
Approvals, Certifications	UL, CE	
<b>Additional data for Remote Alarm Contacts</b>		
Remote alarm contact type	Isolated Form C	
Switching capability Un/I <sub>n</sub>	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)	