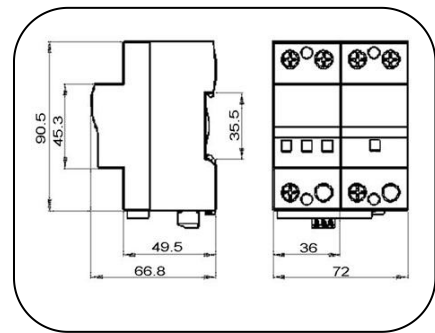


Basic circuit diagram



Dimension drawing

Type 2 AC surge arrester designed for low-voltage power supply system protection against surges at the boundaries from lightning protection zone 1-2 and higher.

- Comply with IEC 61643-11, apply to single phase TT and TN systems (“1+1” circuit).
- High Discharge Capacity with 8/20 us waveform, I<sub>max</sub> 100kA
- Reliable supervision due to disconnection device
- Fast response
- Visual status indication and remote signal contact available.

Part No.	DS100/150-(V+T)(-S)	DS100/175-(V+T)(-S)	DS100/275-(V+T)(-S)	DS100/300-(V+T)(-S)	DS100/320-(V+T)(-S)	DS100/385-(V+T)(-S)	DS100/420-(V+T)(-S)	
In accordance with	IEC61643-11:2011; UL1449 3 <sup>rd</sup>							
Category IEC/VDE	II/ C							
Max. continuous operating voltage U <sub>c</sub>	L – N(AC/DC)	150 /200	175 /225	275 /350	300 /385	320 /420	385 /505	420 /560
	N-PE ( AC)	150	150	255	255	255	255	255
Nominal discharge current(8/20) I <sub>n</sub>	L-N	50kA						
	N-PE	50kA						
Max. discharge current(8/20) I <sub>max</sub>	L-N	100kA						
	N-PE	100kA						
Voltage protection level U <sub>p</sub>	L-N@I <sub>n</sub>	<0.8kV	<0.8kV	<1.3kV	<1.4kV	<1.5kV	<1.8kV	<2.0kV
	L-N@VPR	<0.5kV	<0.6kV	<1.0kV	<1.0kV	<1.1kV	<1.3kV	<1.4kV
	N-PE (1.2/50)	<0.8kV	<0.8kV	<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	Ifi: 100Arms @ 255Vac						
Backup fuse(only required if not already provided in mains)	250A 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	4 modules, DIN 43880							
Thermal disconnecter	Internal red - failure							
Remote alarm contact	Optional							
Approvals, Certifications	CE							
<b>Additional data for Remote Alarm Contacts</b>								
Remote alarm contact type	Isolated Form C							
Switching capability U <sub>n</sub> /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)							