



Basic circuit diagram



Dimension drawing

Surge arrester for low-voltage power supply system protection against direct lightning strikes and surges at the boundaries from lightning protection zone 0B-2.

- Encapsulated spark gap technology to guarantee reliability in rugged environment.
- Discharge capacity limp 50 kA 10/350 per pole.
- Low voltage protection level(Up) < 1.5 kV
- With remote signaling contact and failure indicator optional.
- Single pole version permits the installation in up to four poles depending on the type of power system.
- Multi-Air-Gap technology, no leakage current.

Type	S-G50/275-S
In accordance with	IEC61643-11:2011 ; UL1449-3rd
Category IEC/VDE	I+II (B+C)
Max. continuous operating Voltage (V) AC / DC	275 / 350 V
Nominal discharge current(8/20) In	50 kA
Max. discharge current (8/20) I _{max}	100 kA
Lightning impulse current (10/350) I _{imp}	50 kA
Voltage protection level (1.2/50)	<1.5 kV
Response time	≤ 100 ns
Short-circuit current rating (I _{scrr}) & follow current interrupt rating (I _{fi})	I _{scrr} = 10 kArms ; I _{fi} ≥ 10 kArms@255Vac
Backup fuse (only required if not already provided in mains)	500 A 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 red - failure
Remote alarm contact	Optional
Approvals, Certifications	CE
Remote alarm contact type	Isolated Form C
Switching capability Un/In	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)