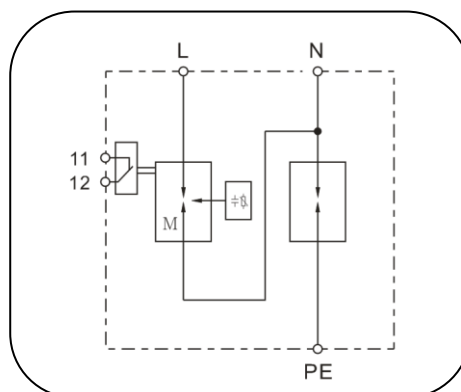


## Surge Arrester- Class I+ class II

## MG25/275-S/PN50

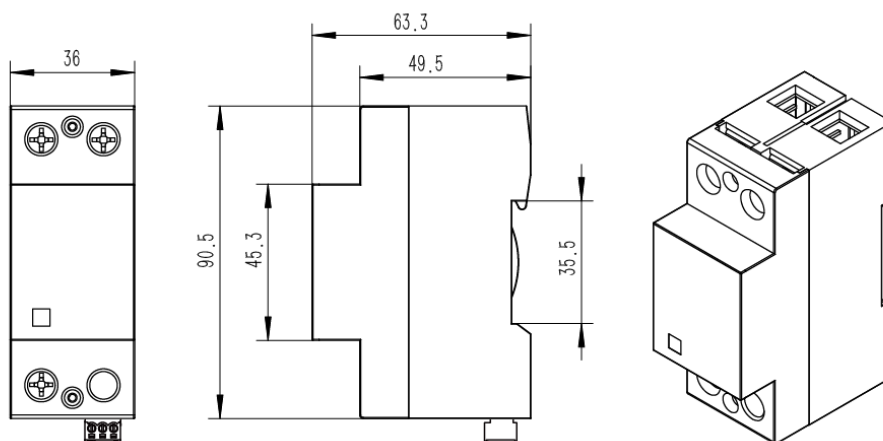


Basic circuit diagram

The MG25/275-S/PN50 is class I & class II combined (Type 1+2 or Class B+C) and 2 poles pre-wired SPD designed for low-voltage power system lightning current & surge protection, especially for location of high risk exposure or LPZ 0-2 building entrances (IEC 62305-4) to against the damage from direct or close lightning strikes.

With built in PROSURGE Trigger Spark-Gap (TSG) technology, MG25 ensures remarkable lightning current discharge capacity up to 25 kA 10/350(L-N), 50kA 10/350(N-PE) and follow current limiting & extinguishing.

- TUV certified class I+ class II SPD per IEC/EN 61643-11 standard.
- Stable and Reliable Follow current extinguishing capacity without derating
- Encapsulated spark gap to guarantee reliability in rugged environment
- Prewired 1+1" circuit for use in 1-phase 220~230Vac TT and TN-S systems
- Lightning current capacity Iimp 25 kA 10/350 (L-N) and 50kA 10/350(N-PE).
- Low voltage protection level due to TSG tech.
- Ideal protection for environments with frequent switching operations or lightning strikes.
- Long service life.
- Compact size, 36mm width
- Degradation failure indication and optional remote signal contact.
- 35mm DIN-rail mounting

**Dimension** (mm)

Tolerance without  $\pm 1\text{mm}$

## Technical data

Part No.		MG25/275-(S)/PN50	
In accordance with		IEC61643-11:2011/EN61643-11:2012/A11:2018	
Category IEC/EU/VDE		I+ II /1+2/ B+C	
Nominal Voltage Un		220/385~230/400 Vac (50/60Hz)	
Max. continuous operating voltage Uc	L – N (AC)	255Vac	
	N–PE (AC)	255Vac	
Nominal discharge current(8/20) In	L–N	25kA	
	N-PE	50kA	
Max. discharge current(8/20) Imax	L-N	100kA	
	N-PE	100kA	
Lightning impulse current (10/350) Iimp	L-N	25kA	
	N-PE	50kA	
Voltage protection level Up	L-N	<1.3kV	
	N–PE(1.2/50)	<1.3kV	
Response time tA	L-N	≤25 ns	
	N-PE	≤100 ns	
Temporary overvoltage TOV U <sub>T</sub>	L-N	440Vac/120min, withstand mode	
	N-PE	1200 Vac /200 ms, withstand mode	
Short-circuit current rating (I <sub>scrr</sub> ) & Follow current interrupt rating (I <sub>fi</sub> )	L-N	25kArms	
	N-PE	I <sub>fi</sub> =100Arms @ 255Vac	
Backup fuse(only required if not already provided in mains)		≤315A 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		2 modules, DIN 43880	
Thermal disconnecter		Internal    No color – normal ; red - failure	
Remote alarm contact		Optional	
Approvals, Certifications		TUV , CE	
Additional data for Remote Alarm Contacts			
Remote alarm contact type		Open (failure) /Close (normal)	
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 <sup>2</sup> (or # 16AWG)	

