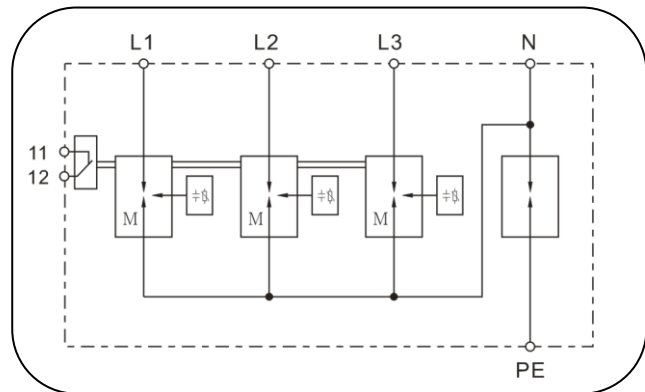


Surge Arrester- Class I+ class II

MG25/275-S/3PN100



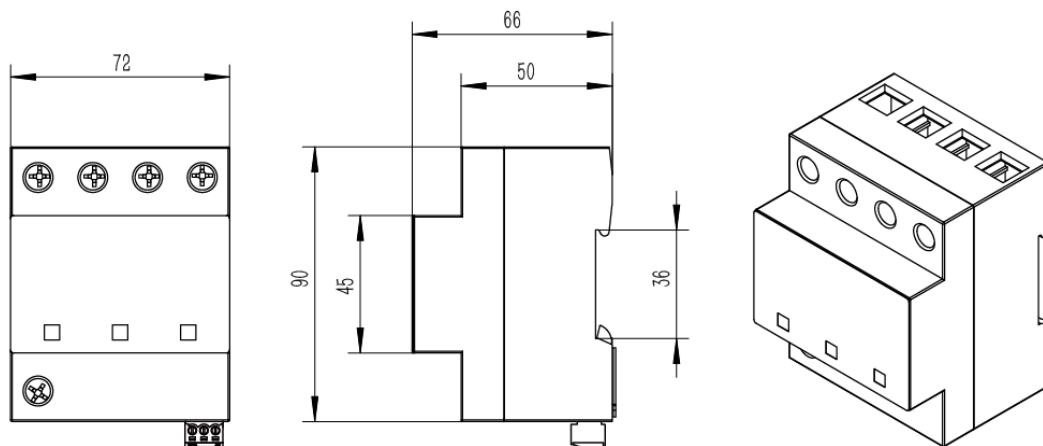
Basic circuit diagram

The MG25/275-S/3PN100 is class I & class II combined (Type 1+2 or Class B+C) and 4 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),100kA10/350(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 3+1” circuit for use in 3-phases 220/380~230/400Vac TT and TN-S systems
- Lightning current capacity limp 25 kA10/350 (L-N) and 100kA10/350(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,72mm width
- Degradation failure indication and optional remote signal contact.
- 35mm DIN-rail mounting

Dimension (mm)



Tolerance without ± 1 mm

Technical data

Part No.	MG25/275-(S)/3PN100	
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	100kA
Max. discharge current(8/20) Imax	L-N	100kA
	N-PE	150kA
Lightning impulse current (10/350) Iimp	L-N	25kA
	N-PE	100kA
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 Ur	L-N	440Vac/120min, withstand mode
	N-PE	1200 Vac /200 ms, withstand mode
Short-circuit current rating (Iscrc) & Follow current interrupt rating (Ifi)	L-N	25kArms
	N-PE	Ifi =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 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	4 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 ² (or # 16AWG)	

