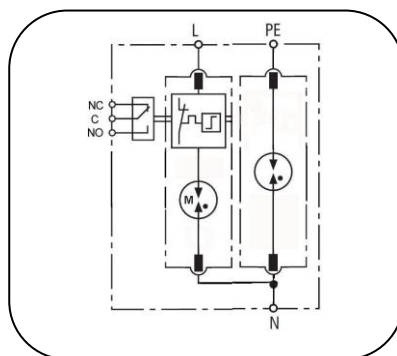
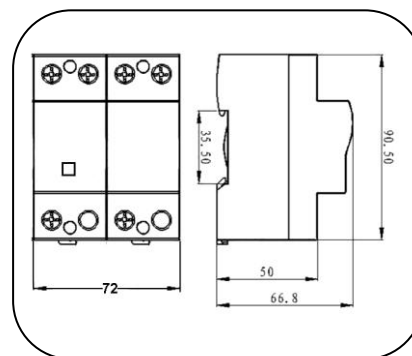




CE



Basic circuit diagram



Dimension drawing

Type1+2 surge arrester designed for low-voltage power supply system protection against surges and even direct lightning strikes at the boundaries from lightning protection zone 0A-2 and higher.

- Spark gap (SG) technology with gap and electrodes are sealed (encapsulated) to guarantee reliability in rugged environment
- Comply with IEC61643-11 standard, surge arrester for use in single phase TT and TN systems ("1+1" circuit)
- Discharge capacity Iimp 50kA/10/350
- Low voltage protection level
- With remote signaling contact and failure indicator optional

Part No.**G50/320(-S)/PN100-M**

In accordance with		IEC61643-11:2011; UL1449-5th	
Category IEC/VDE		I+ II / B+C	
Power system		220-277Vac, 50-60Hz	
Max. continuous operating voltage (V)	L – N (AC/DC)	320 /420	
	N-PE AC	255	
Nominal discharge current(8/20) In	L-N	50kA	
	N-PE	100kA	
Max. discharge current(8/20) I _{max}	L-N	150kA	
	N-PE	200kA	
Lightning impulse current (10/350) I _{imp}	L-N	50kA	
	N-PE	100kA	
Voltage protection level	L-N	<1.6kV	
	N-PE	<1.5kV	
Response time	L-N	≤100 ns	
	N-PE	≤100 ns	
short-circuit current rating (I _{sc}) & follow current interrupt rating (I _{fi})	L-N	I _{sc} =25kArms ; I _{fi} ≥25kArms@255Vac	
	N-PE	I _{fi} =200Arms @ 255Vac	
Backup fuse(only required if not already provided in mains)		315A gL/gG	
Operating environment		Temperature range: - 40°C ~ + 80°C, 0 ~ 95% humidity	
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 disconnect		Internal red - failure	
Remote alarm contact		Yes	
Approvals, Certifications		CE	
Additional data for Remote Alarm Contacts			
Remote alarm contact type		Isolated Form C	
Switching capability U _n /I _n		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)	