

Single Pole SPD

■ ESG Technology

G50/...-S



- Non-pluggable T1+2 SPD with Encapsulated Spark Gap (ESG) technology to guarantee reliability in rugged environment and high exposure location.
- High lightning current discharge capacity up to I_{imp} 50kA 10/350µs
- Degradation indication & optional remote signal contact
- Low voltage protection level
- Comply with IEC/EN 61643-11, UL 1449 4th, IEEE C62.41, CSA C22.2



Model		G50/150-S	G50/175-S	G50/275-S	G50/320-S	G50/385-S	G50/420-S
Compliance		EN/IEC 61643-11					
Category IEC/EN		Class I+II /T1+2					
Max. Continuous Operating Voltage (AC)	U _c	150V	175V	275V	320V	385V	420V
Technology		ESG technology Thermal disconnect					
Ports/Protection Mode		1 / L-PE or L-N or N-PE					
Lightning Impulse Current (10/350µs)	I _{imp}	50kA					
Nominal Discharge Current (8/20µs)	I _n	50kA					
Max. Discharge Current (8/20µs)	I _{max}	150kA					
Voltage Protection Level	U _p	≤1.2kV	≤1.2kV	≤1.5kV	≤1.6kV	≤1.8kV	≤2.0kV
Temporary Overvoltage TOV —Withstand Mode	U _{tov}	228V/120min	228V/120min	442V/120min	442V/120min	529V/120min	585V/120min
Residual Current	I _{PE}	No					
Follow Current Interrupt Rating	I _{fi}	25kA					
Short-Circuit Current Rating per IEC 61643-11	I _{sc}	25kA					
Response Time	t _A	≤100ns					
Backup Fuse (only required if not already provided in mains)		500A gL/gG					
Environment		Temperature Range: - 40°C ~ +85°C; Humidity: ≤95%; Altitude: ≤2000m					
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					
Failure Indication /Status		RED- Failure					
Remote Alarm Contact		Yes					
Approvals, certification		CE					
Additional Data for Remote Alarm Contacts							
Remote Alarm Contact Type		Isolated Form C					
Switching Capability U _r /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)					

Note: Please see Page 13 for prewired multi-pole combination.

■ Dimension Drawing



■ Basic Circuit Diagram

