THE POWERLINE SERIES

Type 1 AC power surge protector

12-00392

Features

- Type 1 surge protector
- 25kA on 10/350µs impulse
- Low voltage Up
- Internal disconnection, status indicator and remote signaling
- IEC 61643-0 and EN 61643-11 compliance
- UL 1449 ed.2 recognition



Specifications

Part Number Description	DS250VG-300	
Network	230/400V	
Connection mode	L/N	
AC system	TT,TN	
Max. operating voltage	330VAC	Uc
Temporary over voltage withstand	330VAC	UT
Operating current (Leakage current at Uc)	None	Ic
Flow current	None	If
Nominal discharge current 15 x 8/20µs impulses)	30kA	In
Max. discharge current (Max. withstand 10/350µs)	70kA	Imax
Max. lightning current by pole (max. withstand 10/350µs)	25kA	limp
Residual voltage (at In)	0.8kV	Ures
Protection pole (At In)	1.5kV	Up
Admissible short-circuit current	25000A	

Mechanical specification	
Dimensions	See diagram
Connections	By screw terminals: 6-35mm²/by bus
Mounting	Symmetrical rail 35mm
Operating temperature	-40°C to 85°C
Protection class	IP20
Housing Material	Thermoplastic PEI UL94-5VA

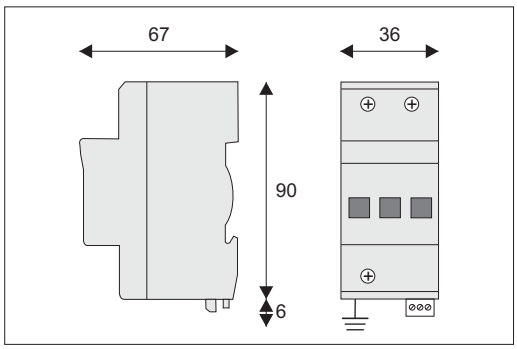
Standards compliance		
NF EN 61643-11	France	Parafoudre Basse Tension - Essais Classe I et II
IEC 61643-11	International	Low voltage SPD - Test Class I and II
EN 61643-11	Europe	Low voltage SPD - Test Class I and II
UI1449 ed.2	USA	Low voltage TVSS

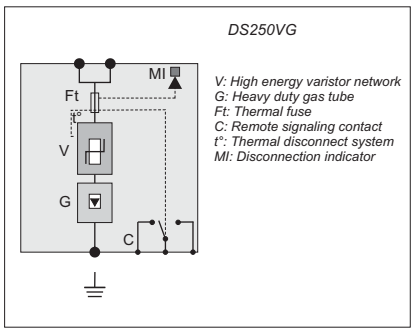
The DS250VG is a very heavy duty type 1 AC surge protector device (SPD) designed to be connected at the entrance of the electrical installation. This SPD provides an efficient protection against direct and indirect effects and is particularly useful in a high lightning density area where the risk of heavy surge current or even direct strike is high (i.e. : buildings equipped with lightning rods).
The DS250VG is a one-pole SPD and can be used in common mode (2, 3 or 4 DS250VGs connected between L/PE and N/PE = CT1 configuration) or common and differential mode (DS250VGs connected between L/N and 1 x DS100EG between N/PE = CT2 configuration).

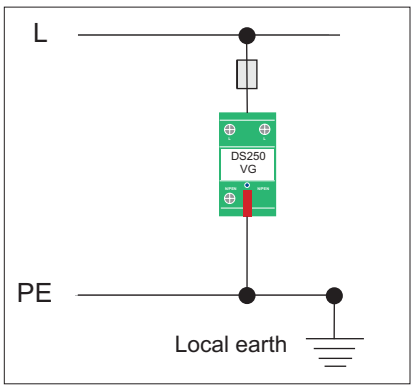
This SPD is designed to withstand a 25kA lightning current (10/350µs impulse). It is based on specific heavy duty GDT and high energy MOV block : this technology allows the best behaviour possible on AC network (no follow current and no leakage current) and a very low residual voltage.
The SPD is DIN rail compatible and is featured with double terminal for line wire to allow improved connection to AC network.
To meet standards, the DS250VG includes a thermal disconnection mechanism, fault indicator and an internal microswitch for remote signalling.

Note 1: Rating in compliance with nominal discharge current. In order to increase continuity, higher rating can be used (up tp 250A). For further information, please consult product instructions.

Dimensions and Diagram







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