

Type 1 AC power 3-Phase Surge Protector

DUT250VG-300/G



The DUT250VG-300/G is a Compact and Heavy Duty Type 1 AC Surge Protector Device (SPD) designed to be connected at the entrance of the electrical installation, on a 3-Phase 230/400V AC network.

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 (e.g.: buildings equipped with lightning rods or metallic poles, as radio base stations).

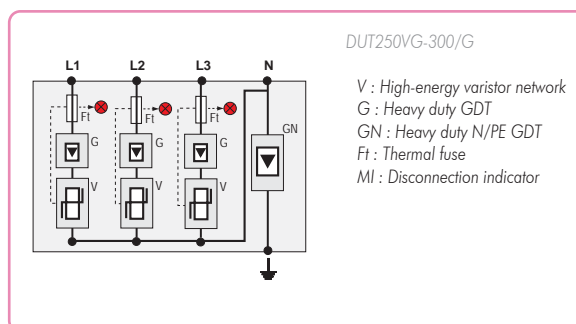
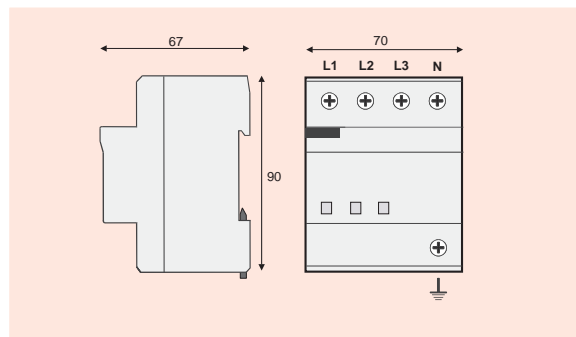
The DUT250VG-300/G is a 3-Phase+Neutral SPD and provides a common (L/G) and differential (L/N) mode protection. It complies to the Connection Type 2 configuration following IEC 60364-5-534.

This SPD is designed to withstand 25 kA lightning surge current (10/350 μ s impulse) by pole. It is based on specific heavy duty GDTs and high energy MOV blocks : this technology allows the best behaviour possible on AC network (no follow current and no leakage current) and a very low residual voltage.

This SPD is built in a compact enclosure for DIN rail mounting.

- **Type 1 3-Phase Surge protector**
- **Common and Differential mode**
- **Very compact monobloc enclosure**
- **limp by pole/total : 25 kA/50 kA**
- **Low voltage Up**
- **No Follow current**
- **EN 61643-11 and IEC 61643-1 compliance**

Dimensions and Diagram



Characteristics

CITEL part number	DUT250VG-300/G	
AC Network	3-Phase 230/400V	
AC system	TT, TN	
Protection modes	L/N and N/PE	
Max. operating voltage	Uc	255 Vac
Temporary overvoltage withstand	U _T	400 Vac
Operating current	Ic	none
Leakage current at Uc		
Discharge currents	In /Imax	40 kA / 100 kA
15 impulses and max. withstand 8/20 μ s		
Max. lightning current by pole	limp	25 kA
max. withstand 10/350 μ s		
Total lightning current	Itotal	50 kA (2)
max. withstand 10/350 μ s		
Protection level (at In)	Up	1.5 kV
Admissible short circuit current	25000 A	
Associated disconnection devices		
Thermal disconnector	internal	
Required external fuses	Fuses type gG - 125 A max. (see Note 1)	
Installation ground fault breaker	Type «S» or delayed	
Mechanical characteristics		
Dimensions	see diagram	
Connection	by screw terminals : 6-35 mm ²	
Disconnection indicator	red light indicators	
Remote signalling of disconnection	none	
Mounting	symmetrical rail 35 mm	
Operating temperature	-40/+85 °C	
Protection class	IP20	
Housing material	Thermoplastic UL94-V0	
Standards compliance		
IEC 61643-1	International	Low Voltage SPD - Test Class I
NF EN 61643-11	France	Parafoudre Basse Tension - Essais Classe I
EN 61643-11	Europe	Low Voltage SPD - Test Class I

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

Note 2: Specific version with limp total = 100 kA available.