

Single and 3-Phase AC Surge Protectors

DUT40 - DUM40



DUT40 (3-Phase) and DUM40 (Single Phase) Type 2 surge protectors are used to protect sensitive equipment, connected to AC network, against transient surge voltages due to lightning.

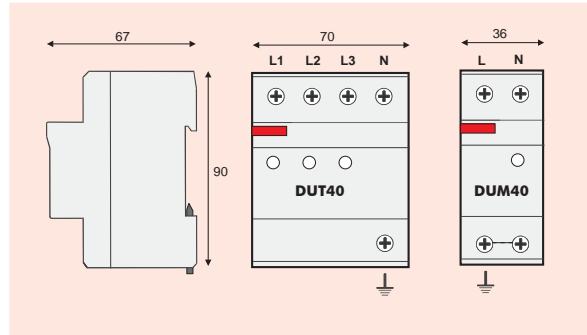
The technology used is an association of gas tube and varistors equipped with thermal disconnectors and operating indicators.

DUT40 and DUM40 are installed at the entrance of the AC network, in the main electrical panel, and protect the whole electrical installation. Nevertheless they could be associated with a secondary stage of surge protectors (DUT10, DS210D..) close by the sensitive and remote equipment.

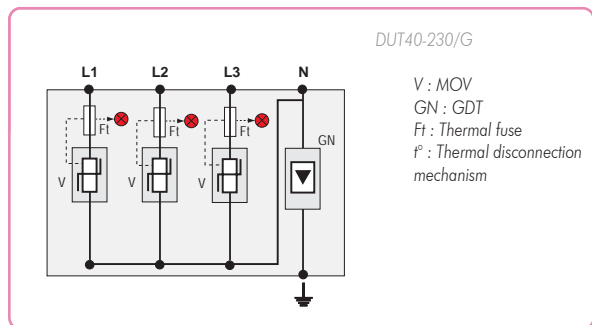
These surge protectors provide common and differential mode protection with a maximum discharge current of 40 kA.

- **3-Phase and Single phase Surge Protector**
- **Type 2 monobloc**
- **Discharge currents: In: 15 kA / Imax: 40 kA**
- **Common/Differential mode**
- **Protection levels Up: 2/1.5 kV**
- **Disconnection indicators**
- **IEC 61643-1 and EN 61643-11 compliance**

Dimensions (in mm)



Electrical diagram



Characteristics

AC network	230/400V	120/208 V
CITEL part number	DUT40-230/G DUM40-230/G	DUT40-120/G DUM40-120/G
AC system	TN - TT	TN - TT
Max. operating voltage	Uc 255 Vac	150 Vac
Temporary overvoltage withstand	U _T 400 Vac	150 Vac
Operating current	Ic none	none
Leakage current at U _c		
Follow current	I _f none	none
Nominal discharge current	I _n 15 kA	15 kA
15 x 8/20 μs impulses		
Maximum discharge current	I _{max} 40 kA	40 kA
max. withstand 8/20 μs		
Protection level (at I _n)	U _p 2 kV/ 1.5 kV (MC/MD)	2 kV/ 1.5 kV (MC/MD)
Admissible short-circuit current	10000 A	10000 A
Associated disconnection devices		
Thermal disconnector	internal	
Fuses	gG type - 50 A max. (see Note 1)	
Installation ground fault breaker	«S» type or delayed	
Mechanical characteristics		
Dimensions	Voir drawing	
Connection to AC network	screw terminal : 4-35 mm ²	
Disconnection indicators	Red light(s) on	
Remote signalling of disconnection	none	
Mounting	rail symmetrical rail 35 mm	
Operating temperature	-40/+85 °C	
Protection class	IP20	
Housing material	Thermoplastic UL94-V0	
Standards compliance		
NF EN 61643-11	France	Parafoudre Basse Tension - Essais Classe II
IEC 61643-1	International	Low Voltage SPD - Test Class II
EN 61643-11	Europe	Low Voltage SPD - Test Class II
UL1449 ed.2	USA	Low Voltage TVSS

Note 1: Rating in compliance with nominal discharge current. In order to increase service continuity, higher rating can be used (up to 125 A). For further information, please consult product instructions.