

Surge Protection Device T1+T2



Location of Use: Main Distribution Boards Mode of Protection: L-N,

Surge Ratings: $I_{imp} = 12.5 \text{ kA}$ (10/350 μs)

$I_n = 20 \text{ kA}$ (8 / 20 μs)

IEC/EN/UL Category: Class I+II / Type 1+2

Protective Elements: High Energy MOV and GDT

Housing: Pluggable Design

Compliance: IEC 61643-11:2011

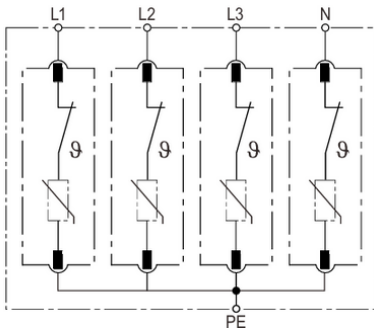
EN 61643-11:2012 UL 1449 4th Edition

■ Technical Data

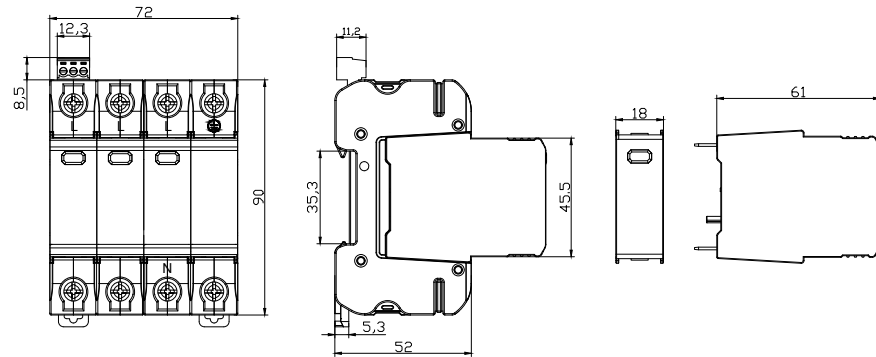
IEC Electrical			385
Nominal AC Voltage (50/60Hz)		U_o / U_n	385 V
Maximum Continuous Operating Voltage (AC)	(L-N)	U_c	385 V
Nominal Discharge Current (8/20 μs)	(L-N)	I_n	20 kA /
Maximum Discharge Current (8/20 μs)	(L-N) / (N-PE)	I_{max}	50 kA
Impulse Discharge Current (10/350 μs)	(L-N)	I_{imp}	12.5 kA
Specific Energy	(L-N)	W/R	39 kJ/ Ω
Charge	(L-N)	Q	6.25 As
Voltage Protection Level	(L-N)	U_p	1.6 kV
	(N-PE)	I_{fi}	100 A _{RMS}
Response Time	(L-N)	t_A	< 25 ns
Back-Up Fuse (max)			315 A / 250 A gG
Short-Circuit Current Rating (AC)	(L-N)	I_{SCCR}	25 kA

UL Electrical					
Maximum Continuous Operating Voltage (AC)	(L-N)	MCOV	385 V		
Voltage Protection Rating	(L-N)	VPR		1200 V	
Nominal Discharge Current (8/20 μs)	(L-N)	I _n	20 kA		
Short-Circuit Current Rating (AC)	(L-N)	SCCR		150 kA	
Mechanical & Environmental					
Operating Temperature Range		T _a	-40°F to +158°F [-40°C to +70°C]		
Permissible Operating Humidity		RH	5%...95%		
Atmospheric pressure and altitude			0k Pa ... 106k Pa / -500 m.....2000 m		
Terminal Screw Torque		M _{max}	39.9 lbf-in [4.5 Nm]		
Conductor Cross Section (max)			2 AWG (Solid, Stranded) / 4 AWG (Flexible)		
			35 mm² (Solid, Stranded) / 25 mm² (Flexible)		
Mounting			35 mm DIN Rail, EN 60715		
Degree of Protection			IP 20 (built-in)		
Housing Material			Thermoplastic:		
Thermal Protection			Yes		
Operating State / Fault Indication			Green ok / Red defect		
Remote Contacts Conductor Cross Section (max)			AC: 250V / 0.5 A; 1.5 mm² (Solid)		

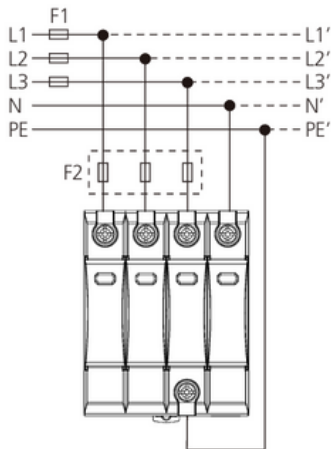
■ Internal Configuration



■ Dimensions & Packaging



■ Connectio Diagram



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