

Lightning and Overvoltage Protection

ProTube B 50

Class I • Class II • Type 1 • Type 2



Location of Use: Main Distribution Boards
 Network Systems: TN-S, TT
 Mode of Protection: N-PE
 IEC/EN Category: Class I+II / Type 1+2
 Housing: Compact Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

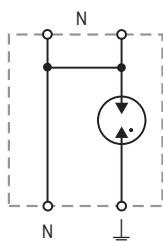
ProTube B 50/xxx		255
IEC Electrical		
Maximum Continuous Operating Voltage (AC)	U_c	255V
Nominal Discharge Current (8/20 μ s)	I_n	50 kA
Maximum Discharge Current (8/20 μ s)	I_{max}	100 kA
Impulse Discharge Current (10/350 μ s)	I_{imp}	50 kA
Specific Energy	W/R	625 kJ/ Ω
Charge	Q	25 As
Voltage Protection Level	U_p	< 1.5 kV
Follow Current Interrupt Rating	I_{fi}	100 A _{RMS}
Response Time	t_A	< 100 ns
TOV Withstand 200ms	U_T	1200V/300A
Number of Ports		1
Mechanical & Environmental		
Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]
Permissible Humidity	RH	5%...95%
Terminal Screw Torque	M_{max}	26.5 lbf-in [3.0 Nm]
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35mm ² (Solid, Stranded) / 25mm ² (Flexible)
Mounting		35 mm DIN Rail, EN 60715
Degree of Protection		IP 20 (built-in)
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0
Order Information		
Order Code		255
ProTube B 50/xxx		56.0510

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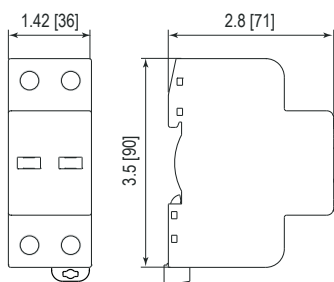
Internal Configuration

Legend

N Neutral Conductor Terminal
 ↓ PE/G Conductor Terminal



Complete Unit



Single Unit Dimensions & Packaging

ProTube B 50/xxx	255
Weight	pounds .396
	grams 180
DIN 43880 Dimension	2 TE / 1.42" [36]
Packaging Dimensions (H x W x L)	3.1 x 4.4 x 11.7" [79 x 112 x 298 mm]
Standard Order Quantity	7 Units

inches
[mm]

Information contained in this document is subject to change at any time without notice.

