

Compact Single Pole SPD  
**ProTube B 50**  
 Class I • Class II • Type 1 • Type 2



Location of Use: Main Distribution Boards  
 Network Systems: TT  
 Mode of Protection: N-PE  
 Surge Ratings:  $I_{imp} = 50 \text{ kA (10/350}\mu\text{s)}$   
 $I_n = 50 \text{ kA (8/20}\mu\text{s)}$   
 IEC/EN Category: Class I, II / Type 1, 2  
 Protective Elements: High Energy GDT  
 Housing: Compact Design  
 Compliance: IEC 61643-11:2011  
 EN 61643-11:2012

**Technical Data**

**ProTube B 50/xxx**

**255**

**Electrical**

Nominal AC Voltage (50/60 Hz)	$U_o$	230V
Maximum Continuous Operating Voltage (AC)	$U_c$	255V
Nominal Discharge Current (8/20 $\mu\text{s}$ )	$I_n$	50 kA
Maximum Discharge Current (8/20 $\mu\text{s}$ )	$I_{max}$	100 kA
Impulse Discharge Current (10/350 $\mu\text{s}$ )	$I_{imp}$	50 kA
Specific Energy	W/R	625 kJ/ $\Omega$
Charge	Q	25 As
Voltage Protection Level	$U_p$	< 1.5 kV
Follow Current Interrupt Rating	$I_{fi}$	100 A <sub>RMS</sub>
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 <sup>2</sup> (Solid, Stranded) / 25mm <sup>2</sup> (Flexible)
Mounting		35 mm DIN Rail, EN 60715
Degree of Protection		IP 20
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0

**Order Information**

Order Code	<b>255</b>
ProTube B 50/xxx	56.0510

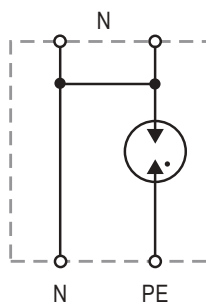
## ProTube B 50

### Internal Configuration

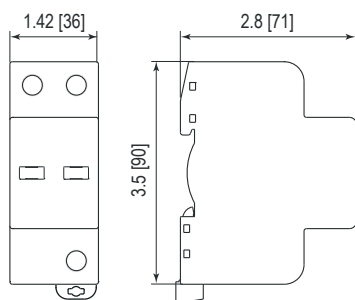
#### Legend

N Neutral

PE Protective Earth



### Dimensions & Packaging [mm]



#### Dimensions & Packaging

ProTube B 50/xxx		255
Single Unit Weight	pounds [grams]	.396 [180]
Single Unit DIN 43880 Dimension		2 TE
Packaging Dimensions (H x W x L)		4.2 x 3 x 1.6" [109 x 77 x 42 mm]
Minimum Order Quantity		7 Units

inches  
[mm]

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

