

**Compact Single Pole SPD**  
**SafeTube 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  
 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  
 Leakage Current: No Leakage Current  
 Housing: Compact Design  
 Compliance: IEC 61643-11:2011  
 EN 61643-11:2012

**Technical Data**

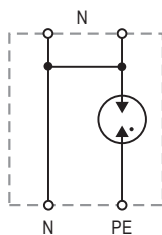
SafeTube B 50/xxx		255 V
<b>Electrical</b>		
Nominal AC Voltage (50/60 Hz)	$U_o$	230V
Maximum Continuous Operating Voltage (AC)	$U_c$	255V
Nominal Discharge Current (8/20 $\mu\text{s}$ )	$I_n$	50 kA
Maximum Discharge Current (8/20 $\mu\text{s}$ )	$I_{max}$	100 kA
Impulse Discharge Current (10/350 $\mu\text{s}$ )	$I_{imp}$	50 kA
Specific Energy	W/R	625 kJ/ $\Omega$
Charge	Q	25 As
Voltage Protection Level	$U_p$	< 1.5kV
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
<b>Mechanical &amp; Environmental</b>		
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 (built-in)
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0
<b>Order Information</b>		
Order Code		<b>255</b>
SafeTube B 50/xxx		54.0506

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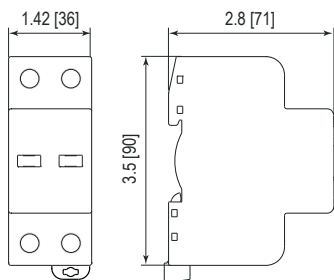
## Internal Configuration

### Legend

- N Neutral
- PE Protective Earth



## Dimensions & Packaging



### Dimensions & Packaging

SafeTube 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.

