

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

Electrical

Nominal AC Voltage (50/60 Hz)	U_o	230V
Maximum Continuous Operating Voltage (AC)	U_c	255V
Nominal Discharge Current (8/20 μs)	I_n	50 kA
Maximum Discharge Current (8/20 μs)	I_{max}	100 kA
Impulse Discharge Current (10/350 μs)	I_{imp}	50 kA
Specific Energy	W/R	625 kJ/ Ω
Charge	Q	25 As
Voltage Protection Level	U_p	< 1.5kV
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		35mm DIN Rail, EN 60715
Degree of Protection		IP 20 (built-in)
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0

Order Information

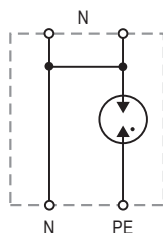
Order Code	255
SafeTube B 50/xxx	54.0506

SafeTube B 50

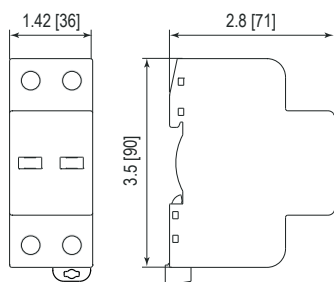
Internal Configuration

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.

RoHS
COMPLIANT CE