



*RoHS COMPLIANT
**HALOGEN FREE

Features

- Designed to meet UL248-13 (aR class) and IEC 60269-7 (aBat class) fuse standards
- 1000 VDC rated voltage and 50 kA interrupting current
- RoHS compliant*
- Halogen free**

Applications

- Power conversion devices
- DC systems
- Battery energy storage systems (BESS)
- DC charging piles

Sustainability

- Eco-logistics-friendly packing
- Energy-saving low-power design
- ISO 14001, low-impact energy

Product Overview



Bourns® PF-0001100E Series POWrFuse™ High-Power Fuses feature high-power industrial fuse links designed to meet semiconductor (aR class) and battery (aBat) protection standards to protect semiconductors and batteries against overcurrent conditions.

The PF 000100E Series offers dependable aR/aBat class protection for 1000 VDC applications, delivering fast response and high interrupting capability to help protect power conversion devices, DC systems, battery energy storage systems, and DC charging piles.

Electrical Characteristics

Model	Rated Current (A)	Rated Voltage	Interrupting Rating	I ² t (A ² s)		Power Loss*** (W)	Agency Recognition
				Pre-arcing	Clearing		
PF-000100E50B1	50	1000 VDC	50 kA @ 1000 VDC	480	2500	12	
PF-000100E63B1	63			850	4500	15	
PF-000100E80B1	80			1300	7000	20	
PF-000100E100B1	100			1900	10100	28	
PF-000100E125B1	125			3400	18000	35	
PF-000100E160B1	160			5300	28000	50	
PF-000100E200B1	200			10400	55000	55	
PF-000100E250B1	250			18150	95600	60	

*** Tested at rated current

Environmental Characteristics

Specification	Value
Operating Temperature	-40 °C to +85 °C

Contact Information

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How to Order

POWrFuse™ Product Designator **PF - 000 100E 125 B1**

Size _____
000 = NH000

Rated Voltage _____
100E = 1000 VDC

Rated Current _____
125 = 125 A

Mounting Type _____
B1 = Bolt Down (Type 1)

* RoHS Directive 2015/863, Mar 31, 2015 and Annex.

** Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

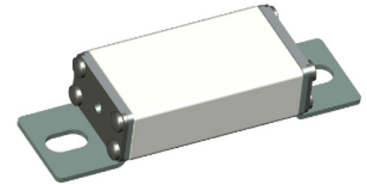
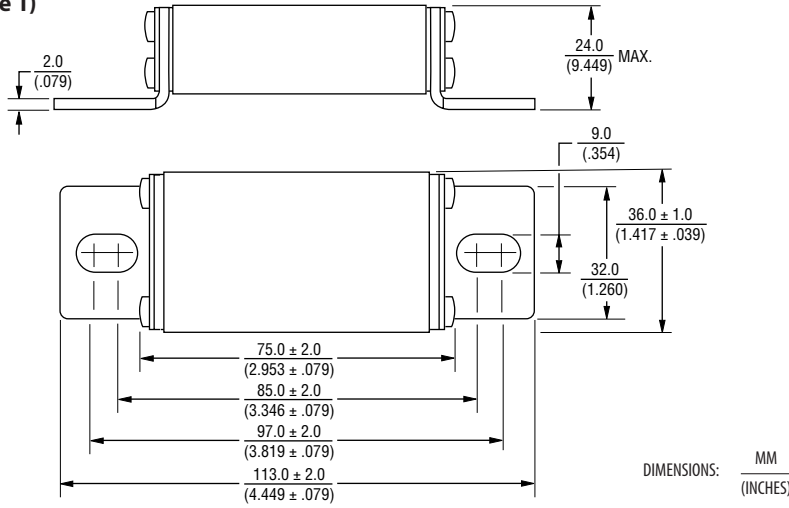
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Product Dimensions

B1: Bolt Down (Type 1)



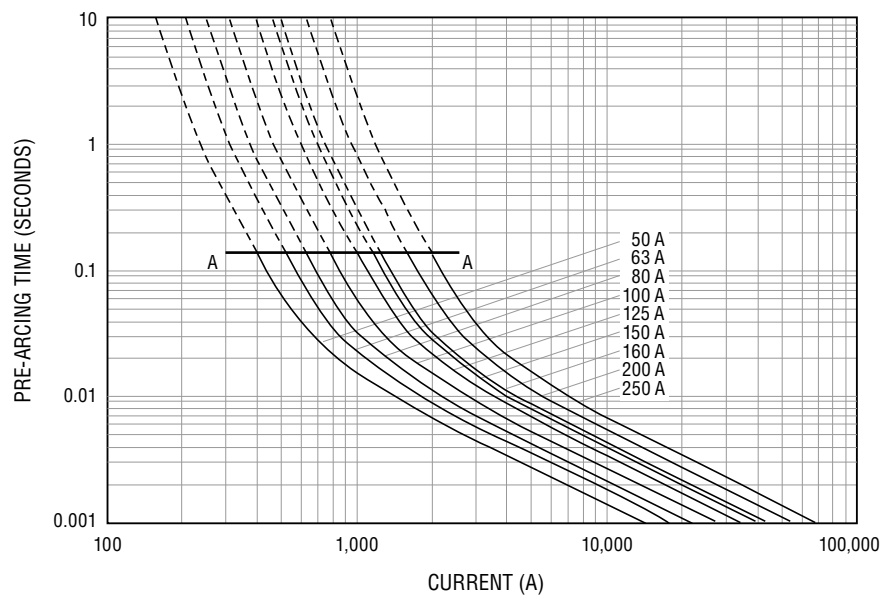
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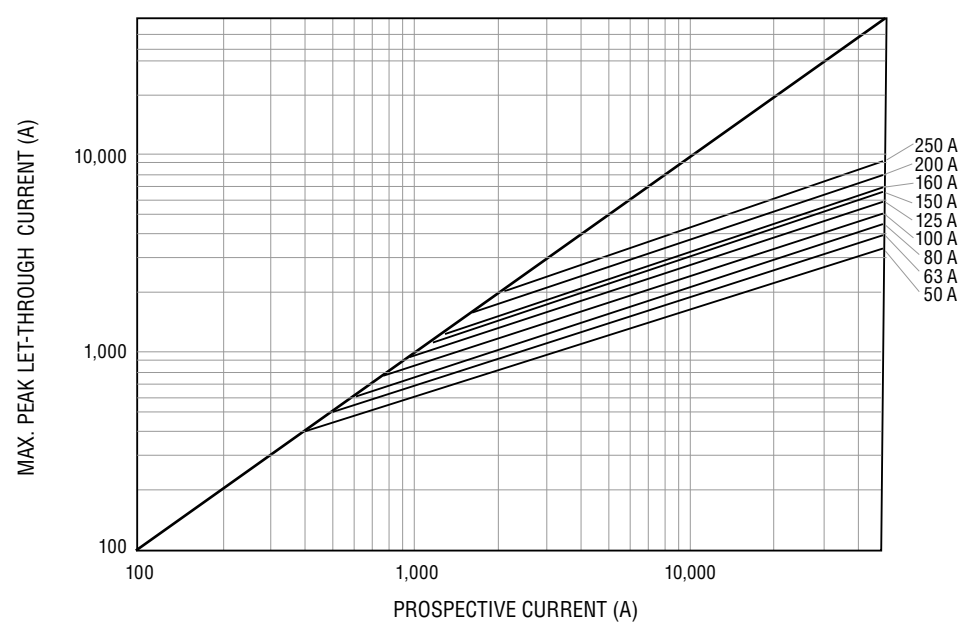


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Average Pre-Arcing Time vs. Current Curves



Truncated Current Curve (For Reference Only)



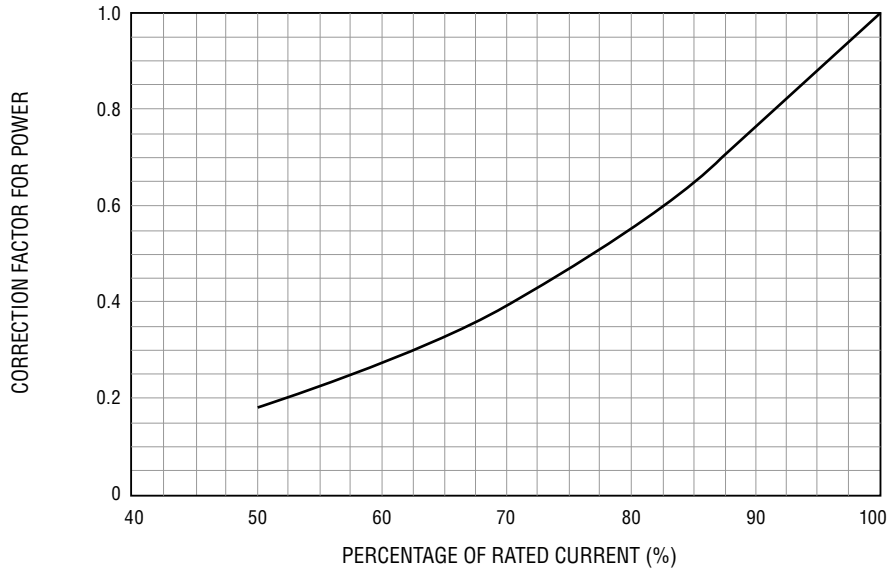
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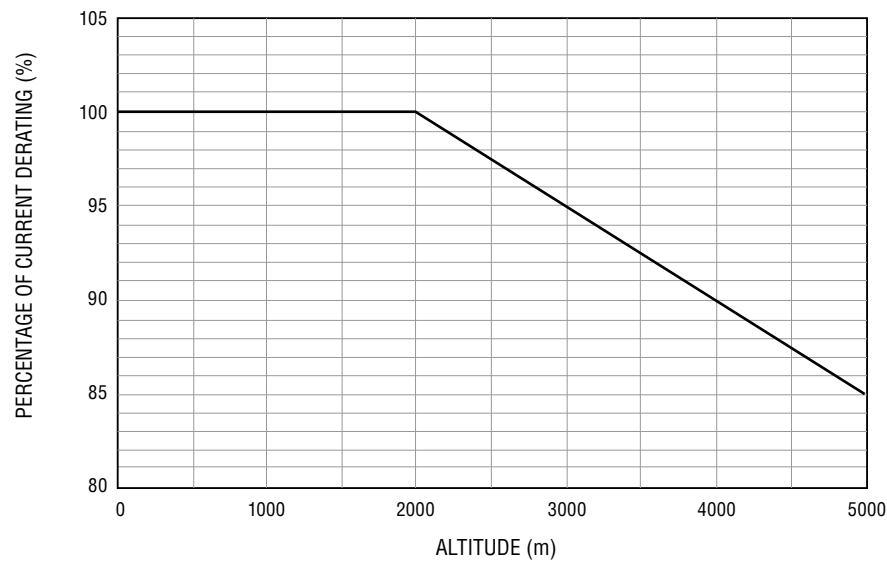


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Power Dissipation Curve (For Reference Only)



Altitude Curve (For Reference Only)



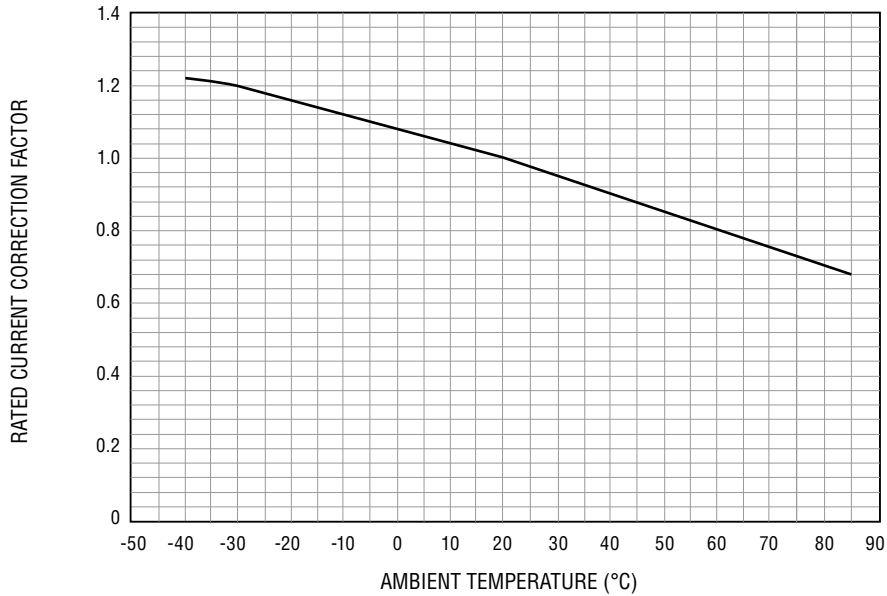
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Current Rating Thermal Derating Curve



Typical Part Marking

Current Rating (A)	Note 1	Note 2	Note 3
50	50	DC Resistance	Date Code
63	63		
80	80		
100	100		
125	125		
160	160		
200	200		
250	250		

Marking

BOURNS®
 PF-000100E (Note 1) B1
 (Note 1) A
 1000 VDC
 I1: 50 kA
 aR aBat
 (Note 2) mΩ (20 °C)
 (Note 3) 362524518

Packaging Specifications

Model	Pearl Cotton Pallet	Carton
PF-000100E	20 Pieces	80 Pieces

Recommended Mounting Torque and Bolt Sizes

Mounting Type	Mounting Torque	Bolt Size
B1	12 ± 1 Nm	M8

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