

POWrFuse™ PF-F Series Features

- Designed to UL 248-13 semiconductor class aR fuse standard
- 800 VAC/VDC rated voltage
- Designed in the traditional round body bolted style package
- RoHS compliant* and halogen free**
- Agency recognition: c UL us

PF-F Series – Semiconductor (aR) Power Fuses

Electrical Characteristics

Model	Rated Current (A)	Rated Voltage	Interrupting Rating	Clearing at 800 V I^2t (A^2s)	Power Loss (W)	Agency Recognition
PF-FB1-50	50	800 VAC 800 VDC	100 kA @ 800 VAC 50 kA @ 800 VDC	800	11	E500949
PF-FB2-50						
PF-FB1-75	75			1500	15.5	
PF-FB2-75						
PF-FB1-100	100			3100	24	
PF-FB2-100						
PF-FB1-125	125			10000	28	
PF-FB2-125						
PF-FB1-150	150			16900	32	
PF-FB2-150						
PF-FB1-160	160			17100	33	
PF-FB2-160						
PF-FB1-175	175			17500	35	
PF-FB2-175						
PF-FB1-200	200			22000	40.5	
PF-FB2-200						
PF-FB1-225	225			30000	43	
PF-FB2-225						
PF-FB1-250	250			37000	46	
PF-FB2-250						
PF-FB1-300	300			52000	56	
PF-FB2-300						
PF-FB1-350	350			81000	65	
PF-FB2-350						
PF-FB1-400	400			110000	77	
PF-FB2-400						

Minimum breaking capacity: 800 % I_n @ 800 VAC/VDC

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Additional Information

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PRODUCT | TECHNICAL LIBRARY | INVENTORY | SAMPLES | CONTACT

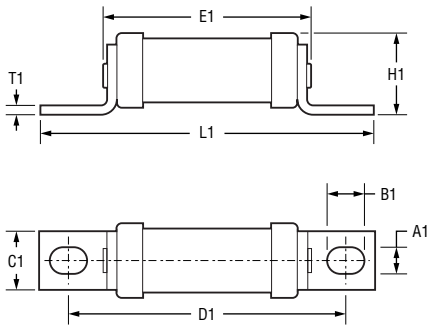
WARNING
Cancer and Reproductive Harm
www.P65Warnings.ca.gov

* 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.

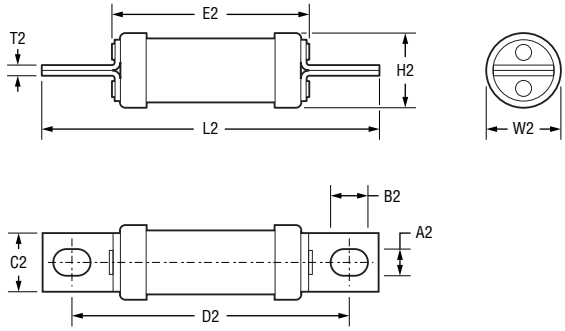
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Product Dimensions (Bolt Mounting)

B1 Type



B2 Type



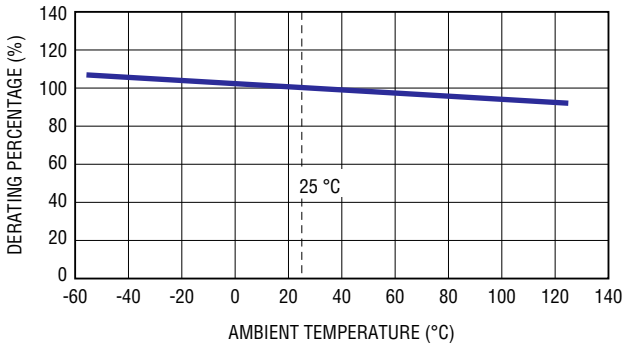
B1 Type	A1	B1	C1	D1	E1	H1	L1	T1	W1
50 A ~ 150 A	8.8 ± 1.0 (.346 ± .039)	12.4 ± 1.0 (.488 ± .039)	19.1 ± 1.0 (.752 ± .039)	91.6 ± 3.6 (3.606 ± .142)	69.0 ± 3.0 (2.717 ± .118)	27.1 ± 2.0 (1.067 ± .079)	111.6 ± 3.0 (4.394 ± .118)	3.0 ± 0.2 (.118 ± .008)	24.1 ± 2.0 (.949 ± .079)
160 A ~ 400 A	10.5 ± 1.0 (.413 ± .039)	15.0 ± 1.0 (.591 ± .039)	26.0 ± 1.0 (1.024 ± .039)	95.0 ± 4.5 (3.740 ± .177)	69.2 ± 3.0 (2.744 ± .118)	38.2 ± 2.0 (1.504 ± .079)	117.6 ± 3.0 (4.630 ± .118)	3.0 ± 0.2 (.118 ± .008)	35.2 ± 2.0 (1.386 ± .079)

B2 Type	A2	B2	C2	D2	E2	H2	L2	T2	W2
50 A ~ 150 A	8.8 ± 1.0 (.346 ± .039)	12.4 ± 1.0 (.488 ± .039)	19.1 ± 1.0 (.752 ± .039)	91.6 ± 3.6 (3.606 ± .142)	66.0 ± 3.0 (2.598 ± .118)	24.1 ± 2.0 (.949 ± .079)	111.6 ± 3.0 (4.394 ± .118)	3.4 ± 0.2 (.134 ± .008)	24.1 ± 2.0 (.949 ± .079)
160 A ~ 400 A	10.5 ± 1.0 (.413 ± .039)	15.0 ± 1.0 (.591 ± .039)	26.0 ± 1.0 (1.024 ± .039)	95.0 ± 4.5 (3.740 ± .177)	69.2 ± 3.0 (2.744 ± .118)	35.2 ± 2.0 (1.386 ± .079)	117.6 ± 3.0 (4.630 ± .118)	6.0 ± 0.2 (.236 ± .008)	35.2 ± 2.0 (1.386 ± .079)

Environmental Characteristics

Operating Temperature.....-55 °C to +125 °C

Current Rating Thermal Derating Curve



How to Order

PF - F B1 - 100

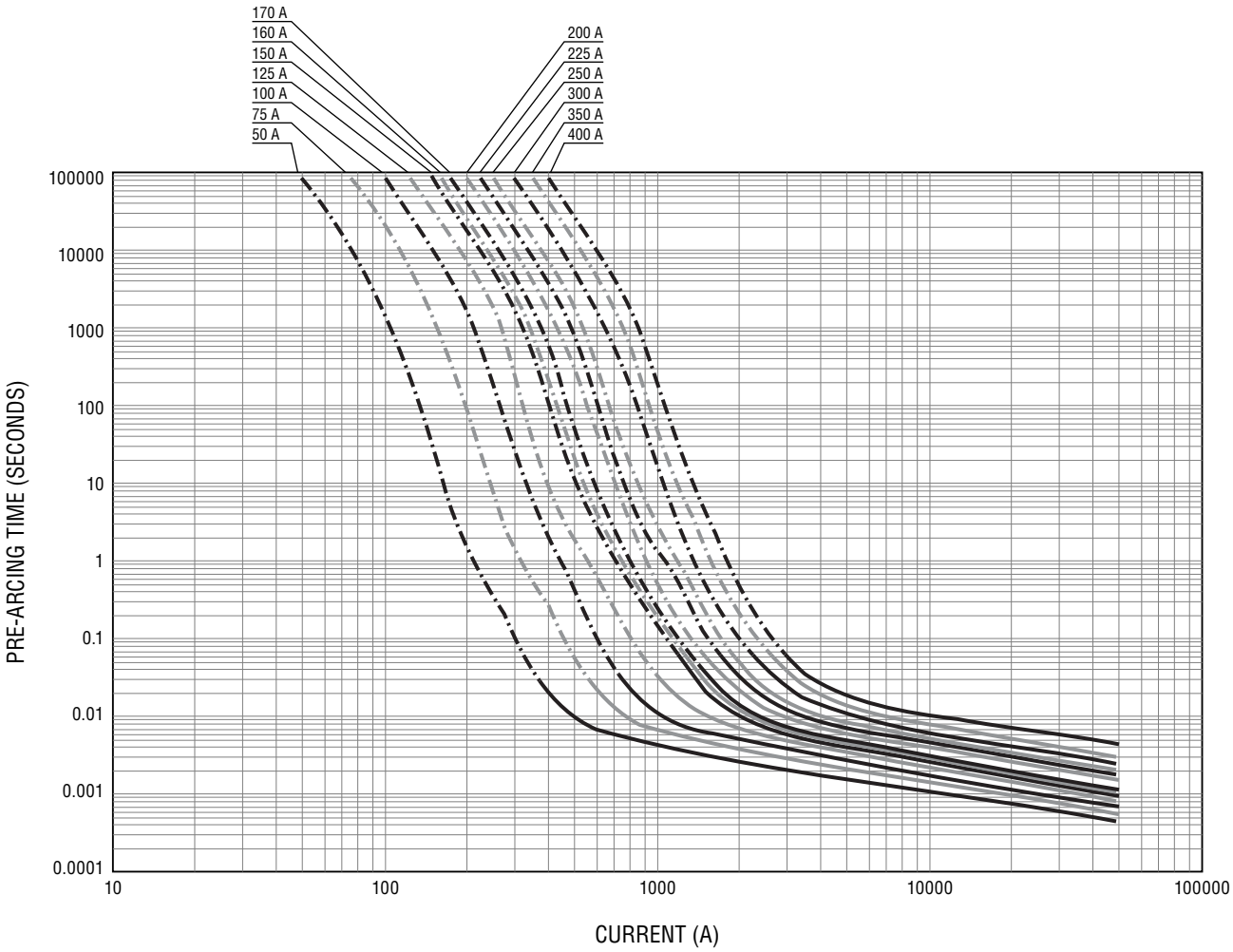
- POWrFuse™ Product Designator
- Series Name
- Mounting Type
  - B1 = Bolt Mounting, Type 1
  - B2 = Bolt Mounting, Type 2
- Rated Current
  - 50 - 400 = 50 A - 400 A

Packaging

Model	Quantity
PF-F (50 A - 150 A)	20 pcs. / box
PF-F (160 A - 400 A)	10 pcs. / box

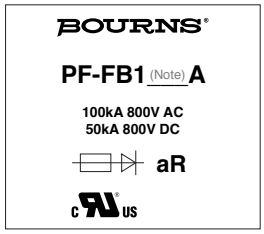
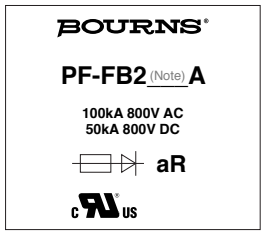
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Average Pre-Arcing Time vs. Current Curves



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Typical Part Marking

Model	Note	Ink Color	Marking
PF-FB1-50	50	Black	
PF-FB1-75	75		
PF-FB1-100	100		
PF-FB1-125	125		
PF-FB1-150	150		
PF-FB1-160	160		
PF-FB1-175	175		
PF-FB1-200	200		
PF-FB1-225	225		
PF-FB1-250	250		
PF-FB1-300	300		
PF-FB1-350	350		
PF-FB1-400	400		
PF-FB2-50	50	Black	
PF-FB2-75	75		
PF-FB2-100	100		
PF-FB2-125	125		
PF-FB2-150	150		
PF-FB2-160	160		
PF-FB2-175	175		
PF-FB2-200	200		
PF-FB2-225	225		
PF-FB2-250	250		
PF-FB2-300	300		
PF-FB2-350	350		
PF-FB2-400	400		

Recommended Mounting Torque and Bolt Sizes

Mounting Torque	Bolt Size
12 ± 1 Nm	M8

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