

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number:	PF-FB1-160
Manufacturer:	Bourns Inc.
Package:	Cylindrical, Blade Terminal (Bolt)
Availability:	Please confirm with sales

Product Page:

<https://antrexco.com/product/details/bourns-inc/pf-fb1-160.html>

Request a Quote:

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Contact Information

Email: info@antrexco.com

WhatsApp: +86-186-8066-5326

Website: <https://antrexco.com>

Quality & Trust

New & Original Components

Supplier verification and packaging condition review

CoC / RoHS / REACH documents available on request

Secure sourcing support for OEM / EMS projects

Note:

This PDF includes an ANTREX product reference cover page.

The original manufacturer datasheet follows from the next page.



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



PF-F Series – Semiconductor (aR) Power Fuses

Electrical Characteristics

Model	Rated Current (A)	Rated Voltage	Interrupting Rating	Clearing at 800 V I²t (A²s)	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

BOURNS®

Asia-Pacific: Tel: +886-2 2562-4117 • Email: asiacus@bourns.com

EMEA: Tel: +36 88 885 877 • Email: eurocus@bourns.com

The Americas: Tel: +1-951 781-5500 • Email: americus@bourns.com

www.bourns.com

Additional Information

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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.

"POWrFuse" is a trademark of Bourns, Inc.

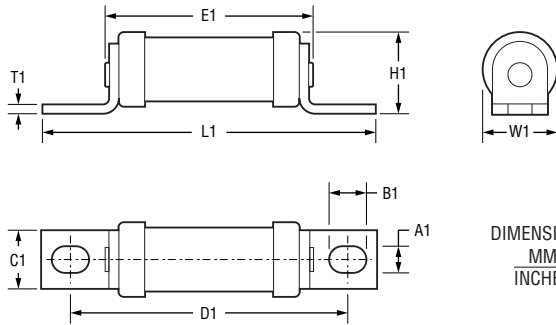
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PF-F Series – Semiconductor (aR) Power Fuses

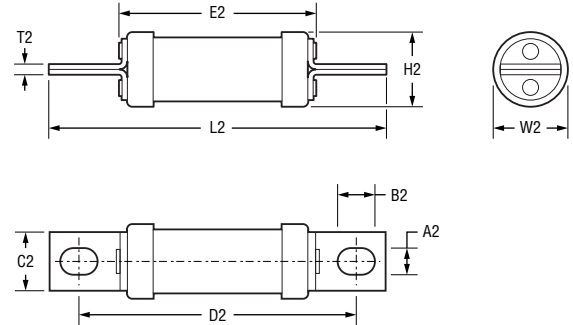
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Product Dimensions (Bolt Mounting)

B1 Type



B2 Type



DIMENSIONS:
MM
INCHES

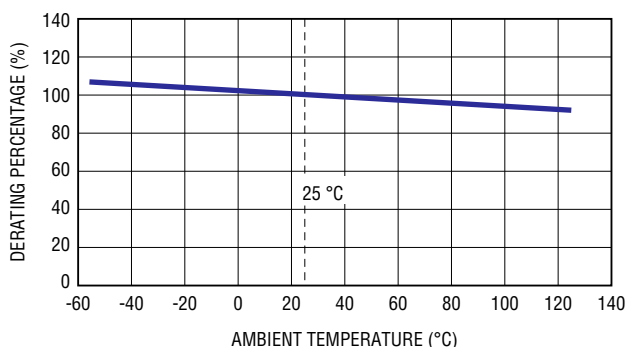
B1 Type	A1	B1	C1	D1	E1	H1	L1	T1	W1
50 A ~ 150 A	$\frac{8.8 \pm 1.0}{(.346 \pm .039)}$	$\frac{12.4 \pm 1.0}{(.488 \pm .039)}$	$\frac{19.1 \pm 1.0}{(.752 \pm .039)}$	$\frac{91.6 \pm 3.6}{(3.606 \pm .142)}$	$\frac{69.0 \pm 3.0}{(2.717 \pm .118)}$	$\frac{27.1 \pm 2.0}{(1.067 \pm .079)}$	$\frac{111.6 \pm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

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

Environmental Characteristics

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

Current Rating Thermal Derating Curve



How to Order

PF - F B1 - 100

POWrrFuse™ _____
 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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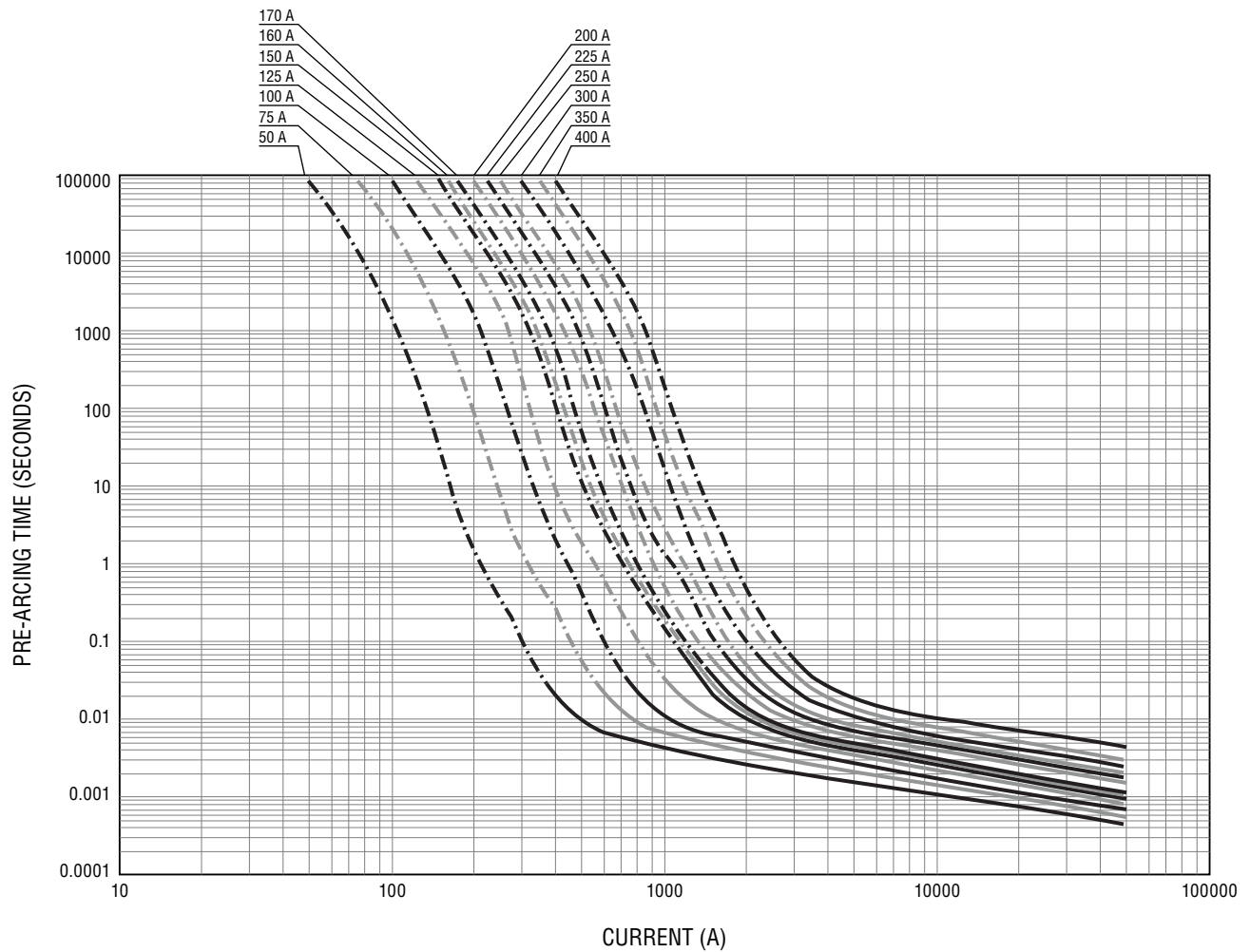
Users should verify actual device performance in their specific applications.

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PF-F Series – Semiconductor (aR) Power Fuses

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Average Pre-Arcing Time vs. Current Curves



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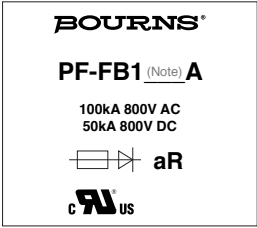
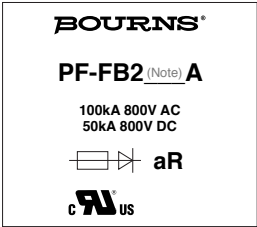
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PF-F Series – Semiconductor (aR) Power Fuses

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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

REV. 06/22

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