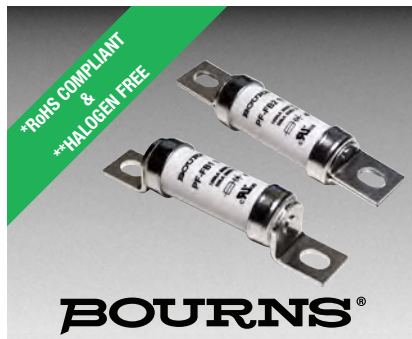




### POWrFuse™ PF-F Series Features

- 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<br>800 VDC | 100 kA @ 800 VAC<br>50 kA @ 800 VDC | 800                         | 11             | <a href="#">E500949</a>                                                             |
| 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<sub>n</sub> @ 800 VAC/VDC

#### Additional Information

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**WARNING**  
**Cancer and Reproductive Harm**  
[www.P65Warnings.ca.gov](http://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.

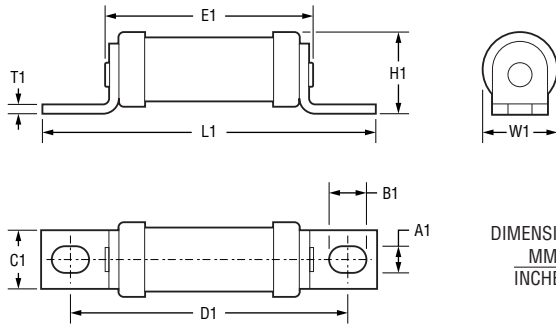
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# PF-F Series – Semiconductor (aR) Power Fuses

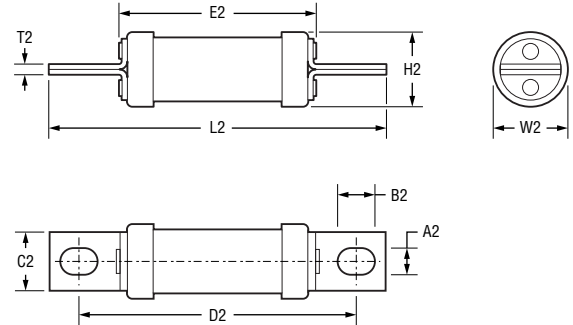
**BOURNS®**

## Product Dimensions (Bolt Mounting)

### B1 Type



### B2 Type



DIMENSIONS:  
MM  
INCHES

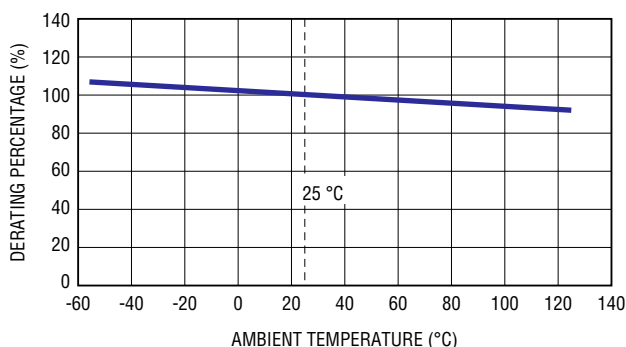
| B1 Type       | A1                                     | B1                                     | C1                                      | D1                                      | E1                                      | H1                                      | L1                                       | 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 |

Specifications are subject to change without notice.

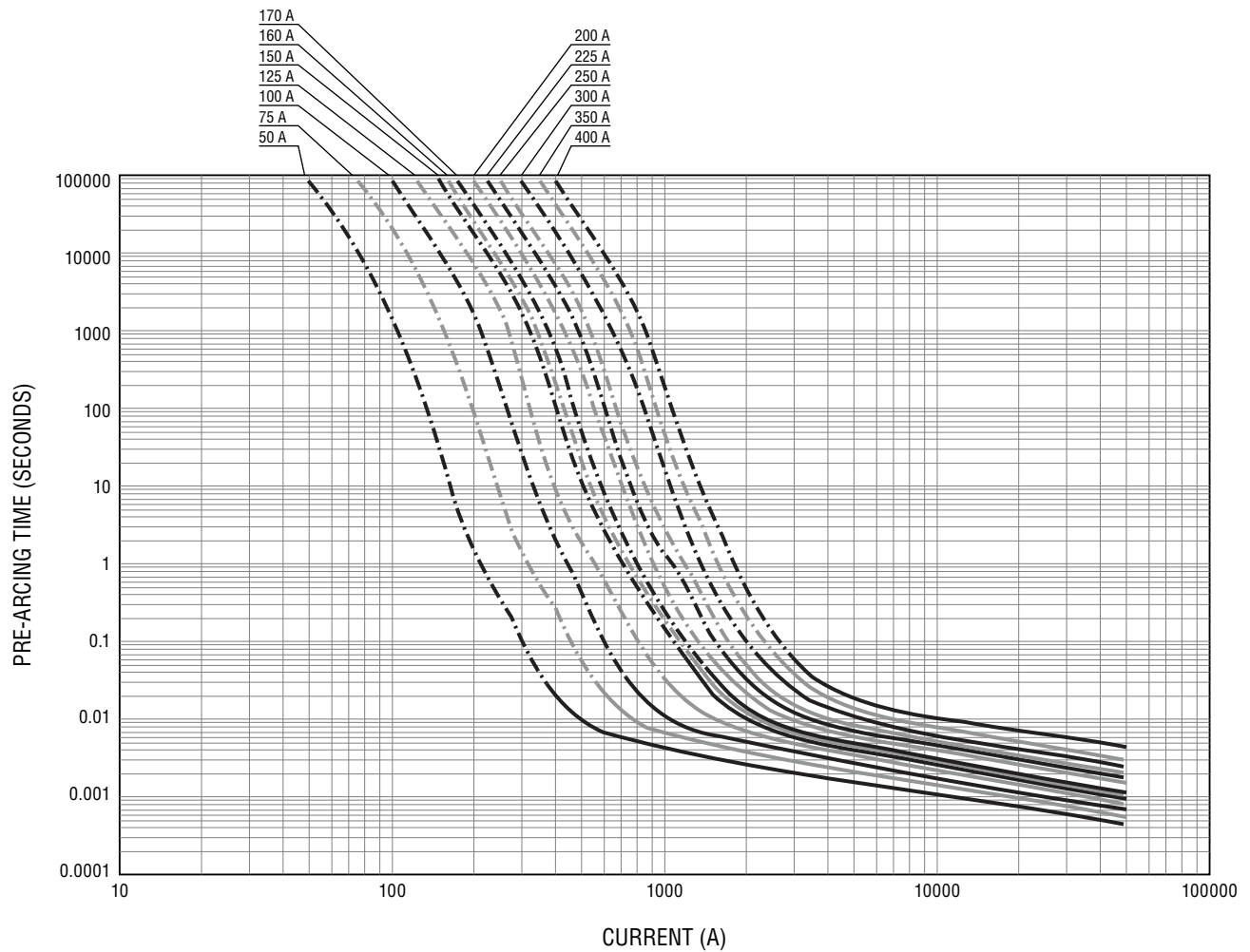
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## PF-F Series – Semiconductor (aR) Power Fuses

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Average Pre-Arcing Time vs. Current Curves



Specifications are subject to change without notice.

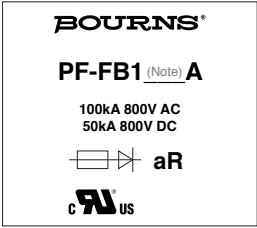
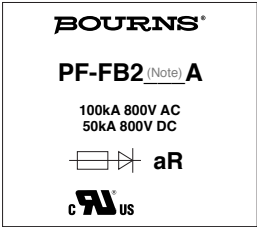
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## PF-F Series – Semiconductor (aR) Power Fuses

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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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