Protect Branch Circuits and Solid State Power Controllers With One Fuse

To meet national and local electrical code requirements for branch circuit protection and to protect solid state power controllers, such as Watlow’s DIN-A-MITE®, a DFJ fuse is recommended. Watlow® offers fast-acting DFJ fuses and holders in amperage ratings covering the range of load currents appropriate for use with the entire DIN-A-MITE power controller and EZ-ZONE® ST integrated controller families.

DFJ fuses protect personnel from injury, protect equipment from damage and are required to minimize damage in the event of a short circuit and achieve short circuit current ratings for Watlow DIN-A-MITE power controllers and EZ-ZONE ST controllers.

Features and Benefits

Combination semiconductor and branch circuit protection
- Fulfills electrical code requirements for branch circuit protection
- Provides protection required for short circuit rating (SCCR) of Watlow products up to 200kA
- Protects valuable semiconductor-based power controllers from damage in the event of a shorted heater
- Simplifies cabinet design
- Reduces wiring time
- Reduces number of components and cost

DIN-rail mount
- Ensures easy installation

Lockout/tagout
- Protects service personnel

Open fuse indicator
- Provides quick troubleshooting of blown fuses
Fuse Selection Guide

Use a DFJ fuse to protect both a branch circuit or power cable and the solid state power controller on the circuit with a single fuse.

1. Select a fuse with an amperage rating at least 125 percent of the connected load (or the next standard size above.)

2. Select a fuse with an \(I^2t\) rating not greater than the \(I^2t\) rating of the solid state power controller. See the specification sheet for the power controller to be protected for \(I^2t\) specification. See DFJ fuse \(I^2t\) below.

3. Use a Watlow recommended fuse. SCCR ratings for Watlow power controllers are only valid with Watlow recommended fuses and only up to 480VAC. For applications above 480VAC or products other than DIN-A-MITE or EZ-ZONE ST contact your Watlow representative.

<table>
<thead>
<tr>
<th>Fuse Amp Rating</th>
<th>I^2t up to 480V (A^2 Sec)</th>
<th>Watlow Part Number</th>
<th>Bussman® Equivalent Fuse Part Number</th>
<th>Watlow Single Fuse Holder Part Number</th>
<th>Bussman® Holder Equivalent Part Number</th>
<th>Holder Dimensions (in.)</th>
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<td>20</td>
<td>151</td>
<td>0808-0325-0020</td>
<td>DFJ-20</td>
<td>0808-0326-1530</td>
<td>CH30J1I</td>
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<td>J60100-1CR</td>
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<tr>
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<td>7920</td>
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<td>DFJ-100</td>
<td>0808-0326-7010</td>
<td>J60100-1CR</td>
<td>A: 1.95, B: 6.28, C: 2.28, D: 1.5</td>
</tr>
</tbody>
</table>

Dimensional Drawings

15 to 30 and 35 to 60 Amp Fuse Holders

Mounts on 35 mm DIN-rail (DIN EN 50022 35 x 7.5 mm)

80 to 100 Amp Fuse Holder Panel Mount Only

Mounting holes: 0.22 in. (5.5 mm) dia. hole with 0.50 in. (12.7 mm) dia. x 0.27 in. (6.9 mm) deep counter sink bore

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