Low-Peak™ LPJ Class J 600Vac/300Vdc, 1-60A, dual element, time-delay fuses

Catalog symbol:
- LPJ-(amp)SP (non-indicating)
- LPJ-(amp)SPI (indicating)

Description:
Bussmann® series Ultimate protection LPJ Class J dual element, current-limiting, time-delay fuses available with optional open fuse indication. Time-delay – 10 seconds (minimum) at 500% of rated current.

Specifications:

<table>
<thead>
<tr>
<th>Ratings</th>
<th>Carton quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volts</td>
<td>Amp rating</td>
</tr>
<tr>
<td>600Vac</td>
<td>1–60</td>
</tr>
<tr>
<td>300Vdc*</td>
<td>10</td>
</tr>
<tr>
<td>Amps</td>
<td>1–60</td>
</tr>
<tr>
<td>IR</td>
<td>1–60</td>
</tr>
<tr>
<td>300kA Vac RMS Sym.</td>
<td>1–60</td>
</tr>
<tr>
<td>100kA Vdc</td>
<td>1–60</td>
</tr>
</tbody>
</table>

Agency information
- UL® Listed, Guide JDDZ, File E4273
- CSA® Certified, Class 1422-02, File 53787, Class J per CSA 22.2 No. 248.
- CE
- RoHS compliant

Features:
- Industry’s only UL Listed and CSA Certified fuse with a 300kA interrupting rating that allows for simple, worry-free installation in virtually any application.
- Fast short-circuit protection and dual-element, time-delay performance provide ultimate protection.
- Reduces existing fuse inventory by up to 33% when upgrading to Low-Peak fuses.
- Consistent 2:1 ampacity ratios for all Low-Peak fuses make selective coordination easy.
- Long time-delay minimizes needless fuse openings due to temporary overloads and transient surges.
- Current-limitation protects downstream components against damaging thermal and magnetic effects of short-circuit currents.
- Dual-element fuses have lower resistance than ordinary fuses so they run cooler. They can often be sized for back-up protection against motor burnout from overload or single-phasing if other overload protective devices fail.
- Proper sizing can provide “no damage” Type 2 coordinated protection for NEMA® and IEC® motor controllers.
- Space-saving package for equipment downsizing.
Recommended fuse blocks and holders:

<table>
<thead>
<tr>
<th>Fuse amps</th>
<th>1-Pole</th>
<th>2-Pole</th>
<th>3-Pole</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modular open blocks with optional covers</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0-30</td>
<td>JM60030-1_</td>
<td>JM60030-2_</td>
<td>JM60030-3_</td>
</tr>
<tr>
<td>35-60</td>
<td>JM60060-1_</td>
<td>JM60060-2_</td>
<td>JM60060-3_</td>
</tr>
<tr>
<td>&quot;Pyramid&quot; blocks</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0-30</td>
<td>—</td>
<td>—</td>
<td>JP60030-3_</td>
</tr>
<tr>
<td>CH holders</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0-30</td>
<td>CH30J1_</td>
<td>CH30J2_</td>
<td>CH30J3_</td>
</tr>
<tr>
<td>35-60</td>
<td>CH60J1_</td>
<td>CH60J2_</td>
<td>CH60J3_</td>
</tr>
<tr>
<td>Safety J™ holders</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0-30</td>
<td>JT60030_</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>35-60</td>
<td>JT60060_</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>

For additional information on the Class J fuse blocks and holders, see data sheets no. 10289 (modular open blocks), no. 1108 (pyramid blocks), no. 2144 (CH) and no. 1152 (Safety J).

Fuse reducers for Class J fuses:

<table>
<thead>
<tr>
<th>Equipment fuse clips</th>
<th>Desired fuse (case) size</th>
<th>Catalog numbers (pairs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>60A 30A</td>
<td>J-63</td>
<td></td>
</tr>
<tr>
<td>100A 30A</td>
<td>J-13</td>
<td></td>
</tr>
<tr>
<td>60A</td>
<td>J-16</td>
<td></td>
</tr>
<tr>
<td>200A 60A</td>
<td>J-261</td>
<td></td>
</tr>
</tbody>
</table>

† Not for bolt-in applications.
Time-current curves - average melt
Current-limitation curves:

![Current-limitation curves](image)

Current-limiting effects:

<table>
<thead>
<tr>
<th>Prospective S.C.C.</th>
<th>Let-through current (apparent RMS symmetrical vs. fuse rating)</th>
</tr>
</thead>
<tbody>
<tr>
<td>15A</td>
<td>1000 1000 1000</td>
</tr>
<tr>
<td>30A</td>
<td>3000 1000 1000</td>
</tr>
<tr>
<td>60A</td>
<td>5000 1000 1000</td>
</tr>
<tr>
<td>10,000</td>
<td>1000 1000 2000</td>
</tr>
<tr>
<td>15,000</td>
<td>1000 1000 2000</td>
</tr>
<tr>
<td>20,000</td>
<td>1000 1000 2000</td>
</tr>
<tr>
<td>25,000</td>
<td>1000 1000 2000</td>
</tr>
<tr>
<td>30,000</td>
<td>1000 1000 2000</td>
</tr>
<tr>
<td>35,000</td>
<td>1000 1000 2000</td>
</tr>
<tr>
<td>40,000</td>
<td>1000 2000 3000</td>
</tr>
<tr>
<td>50,000</td>
<td>1000 2000 3000</td>
</tr>
<tr>
<td>60,000</td>
<td>1000 2000 3000</td>
</tr>
<tr>
<td>80,000</td>
<td>1000 2000 3000</td>
</tr>
<tr>
<td>100,000</td>
<td>1000 2000 4000</td>
</tr>
<tr>
<td>150,000</td>
<td>1000 2000 4000</td>
</tr>
<tr>
<td>200,000</td>
<td>2000 3000 4000</td>
</tr>
<tr>
<td>250,000</td>
<td>2000 3000 5000</td>
</tr>
<tr>
<td>300,000</td>
<td>2000 3000 5000</td>
</tr>
</tbody>
</table>

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