

# Low-Peak™ LPJ Class J 600Vac/300Vdc, 70-600A, dual element, time-delay fuses



Available with *easyID™* open fuse indication

### Catalog symbols:

- 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:

#### Ratings

- Volts
  - 600Vac
  - 300Vdc
- Amps 70-600A
- IR
  - 300kA Vac RMS Sym.
- 100kA Vdc

#### Agency information

- UL® Listed, Guide JDDZ, File E4273
- CSA® Certified, Class 1422-02, File 53787, Class J per CSA C22.2 No. 248.8
- CE
- RoHS compliant



### Catalog numbers (amps) - non-indicating fuses\*

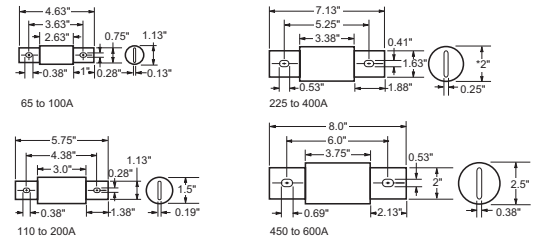
|           |           |           |           |
|-----------|-----------|-----------|-----------|
| LPJ-70SP  | LPJ-125SP | LPJ-250SP | LPJ-500SP |
| LPJ-80SP  | LPJ-150SP | LPJ-300SP | LPJ-600SP |
| LPJ-90SP  | LPJ-175SP | LPJ-350SP |           |
| LPJ-100SP | LPJ-200SP | LPJ-400SP |           |
| LPJ-110SP | LPJ-225SP | LPJ-450SP |           |

\*Open fuse indication available on all part numbers by inserting the suffix "I," e.g., LPJ-90SPI. Requires 75Vac minimum voltage.

### Carton Quantity:

| Amp rating | Carton qty. |
|------------|-------------|
| 70-200     | 5           |
| 225-600    | 1           |

### Dimensions - in:



### 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.
- 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:**

| Fuse amps | 1-Pole      | 2-Pole      | 3-Pole      |
|-----------|-------------|-------------|-------------|
| 70-100    | JM60100-1CR | JM60100-2CR | JM60100-3CR |
| 110-200   | JM60200-1CR | JM60200-2CR | JM60200-3CR |
| 225-400   | JM60400-1CR | JM60400-2CR | JM60400-3CR |
| 450-600   | JM60600-1CR | JM60600-2CR | JM60600-3CR |

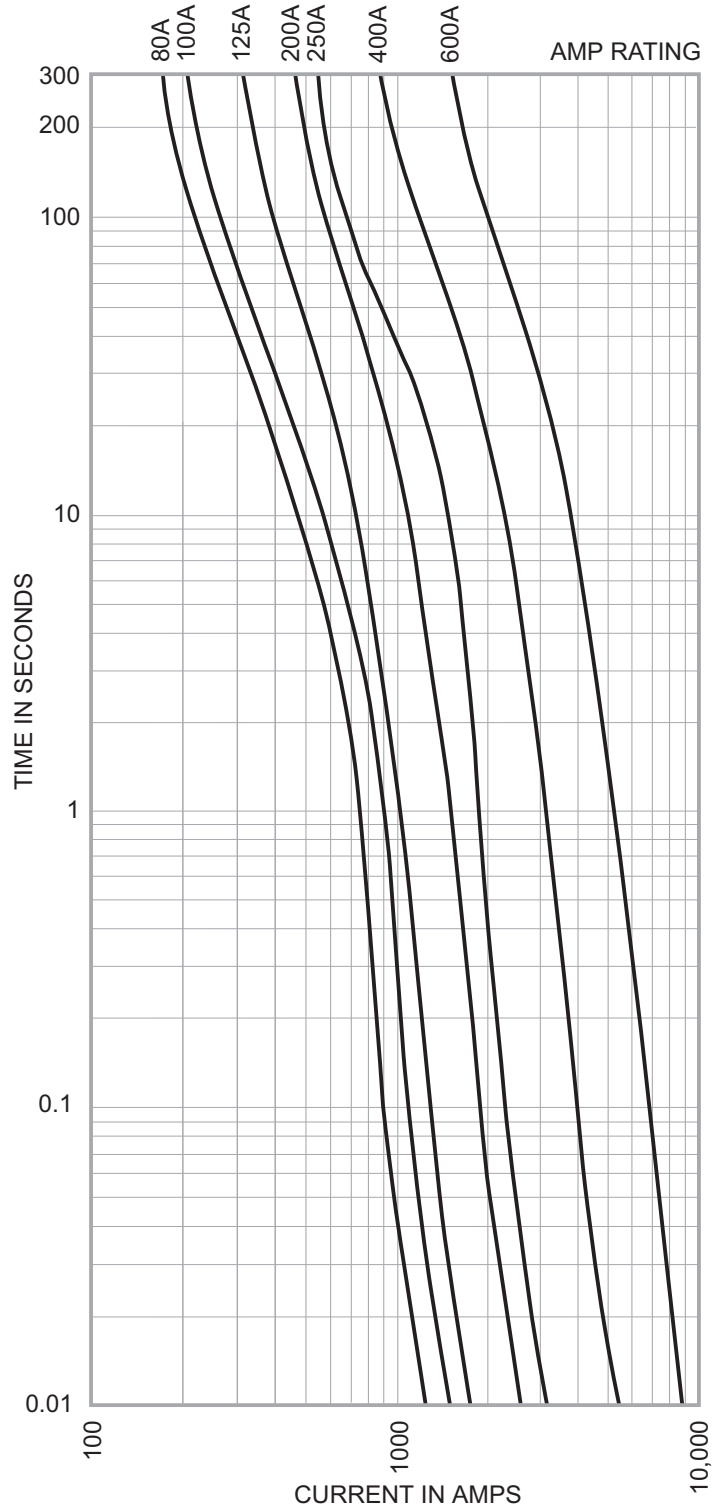
For additional information on the JM fuse blocks, see product brochure no. 3192.

**Fuse reducers for Class J fuses:**

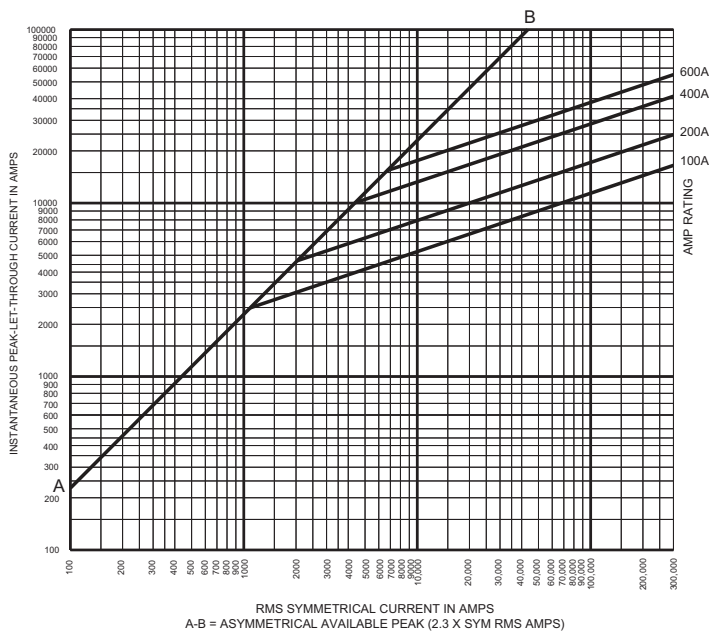
| Equipment fuse clips | Desired fuse (case) size | Catalog numbers (pairs) |
|----------------------|--------------------------|-------------------------|
| 100A                 | 30A                      | J-13                    |
|                      | 60A                      | J-16                    |
| 200A                 | 60A                      | J-26†                   |
|                      | 100A                     | J-21†                   |
| 400A                 | 100A                     | J-41†                   |
|                      | 200A                     | J-42†                   |
| 600A                 | 200A                     | J-62†                   |
|                      | 400A                     | J-64†                   |

† Not for bolt-in applications.

**Time-current curves - average melt:**



**Current-limitation curves:**



**Current-limiting effects:**

| Prospective S.C.C. | Let-through current (apparent RMS symmetrical vs. fuse rating) |        |        |        |
|--------------------|--|--------|--------|--------|
|                    | 100A   | 200A   | 400A   | 600A   |
| 1000               | 1000   | 1000   | 1000   | 1000   |
| 3000               | 2000   | 2000   | 3000   | 3000   |
| 5000               | 2000   | 3000   | 5000   | 5000   |
| 10,000             | 2000   | 4000   | 6000   | 8000   |
| 15,000             | 3000   | 4000   | 7000   | 9000   |
| 20,000             | 3000   | 4000   | 7000   | 10,000 |
| 25,000             | 3000   | 5000   | 8000   | 10,000 |
| 30,000             | 3000   | 5000   | 8000   | 11,000 |
| 35,000             | 4000   | 5000   | 9000   | 12,000 |
| 40,000             | 4000   | 6000   | 9000   | 12,000 |
| 50,000             | 4000   | 6000   | 10,000 | 13,000 |
| 60,000             | 4000   | 6000   | 11,000 | 14,000 |
| 80,000             | 5000   | 7000   | 12,000 | 15,000 |
| 100,000            | 5000   | 8000   | 12,000 | 17,000 |
| 150,000            | 6000   | 9000   | 14,000 | 19,000 |
| 200,000            | 6000   | 9000   | 16,000 | 21,000 |
| 250,000            | 7000   | 10,000 | 17,000 | 23,000 |
| 300,000            | 7000   | 11,000 | 18,000 | 24,000 |

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