

## LPJ — 600Vac/300Vdc, 1-60A, Dual Element, Time-Delay Fuses



Available with easyID™  
open fuse indication

**Description:** Ultimate protection 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.

**Catalog Symbol:** LPJ-(amp)SP (non-indicating)  
LPJ-(amp)SPI (indicating)

### Ratings:

Volts — 600Vac, 300Vdc  
Amps — 1-60A  
IR — 300kA Vac RMS Sym.  
— 100kA Vdc

### Agency Information:

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

### Catalog Numbers (amps) – Non-indicating Fuses

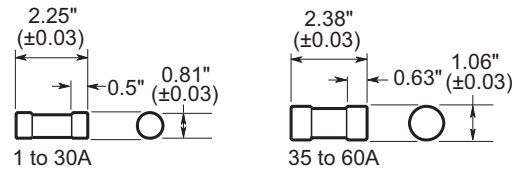
|          |          |            |           |
|----------|----------|------------|-----------|
| LPJ-1SP  | LPJ-3SP  | LPJ-7SP*   | LPJ-25SP* |
| LPJ-1½SP | LPJ-3½SP | LPJ-8SP*   | LPJ-30SP* |
| LPJ-1¾SP | LPJ-3¾SP | LPJ-9SP*   | LPJ-35SP* |
| LPJ-1⅞SP | LPJ-4SP  | LPJ-10SP*  | LPJ-40SP* |
| LPJ-2SP  | LPJ-4½SP | LPJ-12SP*  | LPJ-45SP* |
| LPJ-2¼SP | LPJ-5SP  | LPJ-15SP*  | LPJ-50SP* |
| LPJ-2½SP | LPJ-5½SP | LPJ-17½SP* | LPJ-60SP* |
| LPJ-2⅞SP | LPJ-6SP* | LPJ-20SP*  |           |

\* Open fuse indication available by inserting the suffix "I," e.g., LPJ-15SPI.  
Requires 75Vac minimum voltage.

### Carton Quantity:

| Amp Rating | Carton Qty. |
|------------|-------------|
| 1-60       | 10          |

### 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 and Holders

| Fuse Amps                | 1-Pole    | 2-Pole    | 3-Pole     |
|--------------------------|-----------|-----------|------------|
| <b>Open Blocks</b>       |           |           |            |
| 0-30                     | J60030-1_ | J60030-2_ | J60030-3_  |
| 35-60                    | J60060-1_ | J60060-2_ | J60060-3_  |
| <b>"Pyramid" Blocks</b>  |           |           |            |
| 0-30                     | —         | —         | JP60030-3_ |
| <b>CH Series Holders</b> |           |           |            |
| 0-30                     | CH30J1_   | CH30J2_   | CH30J3_    |
| 35-60                    | CH60J1_   | CH60J2_   | CH60J3_    |
| <b>Safety J™ Holders</b> |           |           |            |
| 0-30                     | JT60030_  | —         | —          |
| 35-60                    | JT60060_  | —         | —          |

For additional information on the Class J fuse blocks and holders, see data sheets # 1114 (open blocks), #1108 (pyramid blocks), # 2144 (CH Series) and # 1152 (Safety J).

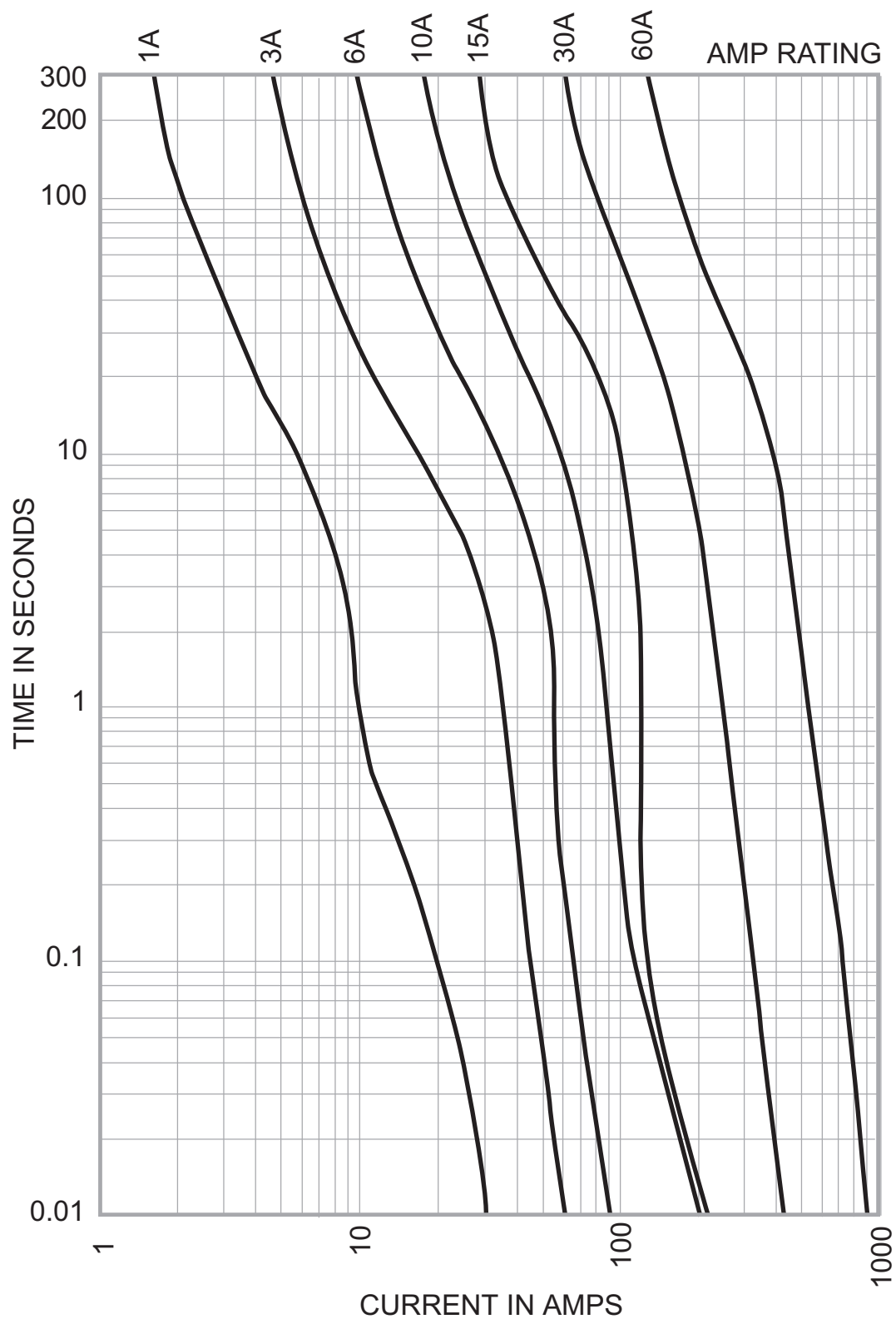
### Fuse Reducers For Class J Fuses

| Equipment Fuse Clips | Desired Fuse (Case) Size | Catalog Numbers (Pairs) |
|----------------------|--------------------------|-------------------------|
| 60A                  | 30A                      | J-63                    |
| 100A                 | 30A                      | J-13                    |
|                      | 60A                      | J-16                    |
| 200A                 | 60A                      | J-26†                   |

† Not for bolt-in applications.

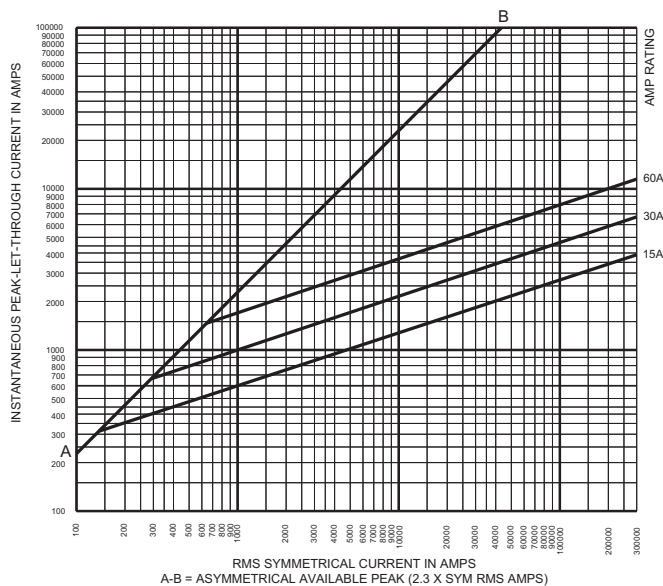
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### Time-Current Curves - Average Melt



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### Current-Limitation Curves



### Current-Limiting Effects

| Prospect.<br>S.C.C. | Let-Through Current<br>(Apparent RMS Symmetrical Vs. Fuse Rating) |      |      |
|---------------------|-------------------------------------------------------------------|------|------|
|                     | 15A                                                               | 30A  | 60A  |
| 1000                | 1000                                                              | 1000 | 1000 |
| 3000                | 1000                                                              | 1000 | 1000 |
| 5000                | 1000                                                              | 1000 | 1000 |
| 10,000              | 1000                                                              | 1000 | 2000 |
| 15,000              | 1000                                                              | 1000 | 2000 |
| 20,000              | 1000                                                              | 1000 | 2000 |
| 25,000              | 1000                                                              | 1000 | 2000 |
| 30,000              | 1000                                                              | 1000 | 2000 |
| 35,000              | 1000                                                              | 1000 | 2000 |
| 40,000              | 1000                                                              | 2000 | 3000 |
| 50,000              | 1000                                                              | 2000 | 3000 |
| 60,000              | 1000                                                              | 2000 | 3000 |
| 80,000              | 1000                                                              | 2000 | 3000 |
| 100,000             | 1000                                                              | 2000 | 4000 |
| 150,000             | 1000                                                              | 2000 | 4000 |
| 200,000             | 2000                                                              | 3000 | 4000 |
| 250,000             | 2000                                                              | 3000 | 5000 |
| 300,000             | 2000                                                              | 3000 | 5000 |

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