

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 |
|--------------------------|-----------|-----------|------------|
| Open Blocks | | | |
| 0-30 | J60030-1_ | J60030-2_ | J60030-3_ |
| 35-60 | J60060-1_ | J60060-2_ | J60060-3_ |
| "Pyramid" Blocks | | | |
| 0-30 | — | — | JP60030-3_ |
| CH Series Holders | | | |
| 0-30 | CH30J1_ | CH30J2_ | CH30J3_ |
| 35-60 | CH60J1_ | CH60J2_ | CH60J3_ |
| Safety J™ Holders | | | |
| 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

| Prosp. S.C.C. | Let-Through Current (Apparent RMS Symmetrical Vs. Fuse Rating) | | |
|------------------|---|------|------|
| | 15A | 30A | 60A |
| — | 1000 | 1000 | 1000 |
| 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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