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

RoHS



Available with *easy*ID™ open fuse indication

## 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:

### Ratings

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

* Indicating versions not Vdc rated.

### 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

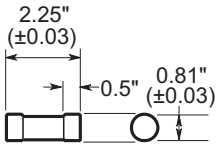
| Catalog numbers (amps) – non-indicating fuses | | | |
|---|---|---|---|
| LPJ-1SP | LPJ-3SP | LPJ-7SP* | LPJ-25SP* |
| LPJ-1-1/4SP | LPJ-3-2/10SP | LPJ-8SP* | LPJ-30SP* |
| LPJ-1-6/10SP | LPJ-3-1/2SP | LPJ-9SP* | LPJ-35SP* |
| LPJ-1-8/10SP | LPJ-4SP | LPJ-10SP* | LPJ-40SP* |
| LPJ-2SP | LPJ-4-1/2SP | LPJ-12SP* | LPJ-45SP* |
| LPJ-2-1/4SP | LPJ-5SP | LPJ-15SP* | LPJ-50SP* |
| LPJ-2-1/2SP | LPJ-5-6/10SP | LPJ-17-1/2SP* | LPJ-60SP* |
| LPJ-2-8/10SP | LPJ-6SP* | LPJ-20SP* | |

* Open fuse indication available by inserting the suffix "I," e.g., LPJ-15SPI. Requires 75Vac minimum voltage. Indicating fuses are not Vdc rated.

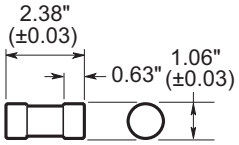
**Carton quantity:**

| Amp rating | Carton qty. |
|---|---|
| 1–60 | 10 |

## Dimensions - in




1 to 30A




35 to 60A

## 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:

| Fuse amps | 1-Pole | 2-Pole | 3-Pole |
|---|---|---|---|
| **Modular open blocks with optional covers** | | | |
| 0-30 | JM60030-1_ | JM60030-2_ | JM60030-3_ |
| 35-60 | JM60060-1_ | JM60060-2_ | JM60060-3_ |
| **"Pyramid" blocks** | | | |
| 0-30 | — | — | JP60030-3_ |
| **CH holders** | | | |
| 0-30 | CH30J1_ | CH30J2_ | CH30J3_ |
| 35-60 | CH60J1_ | CH60J2_ | CH60J3_ |
| **Safety J™ holders** | | | |
| 0-30 | JT60030_ | — | — |
| 35-60 | JT60060_ | — | — |

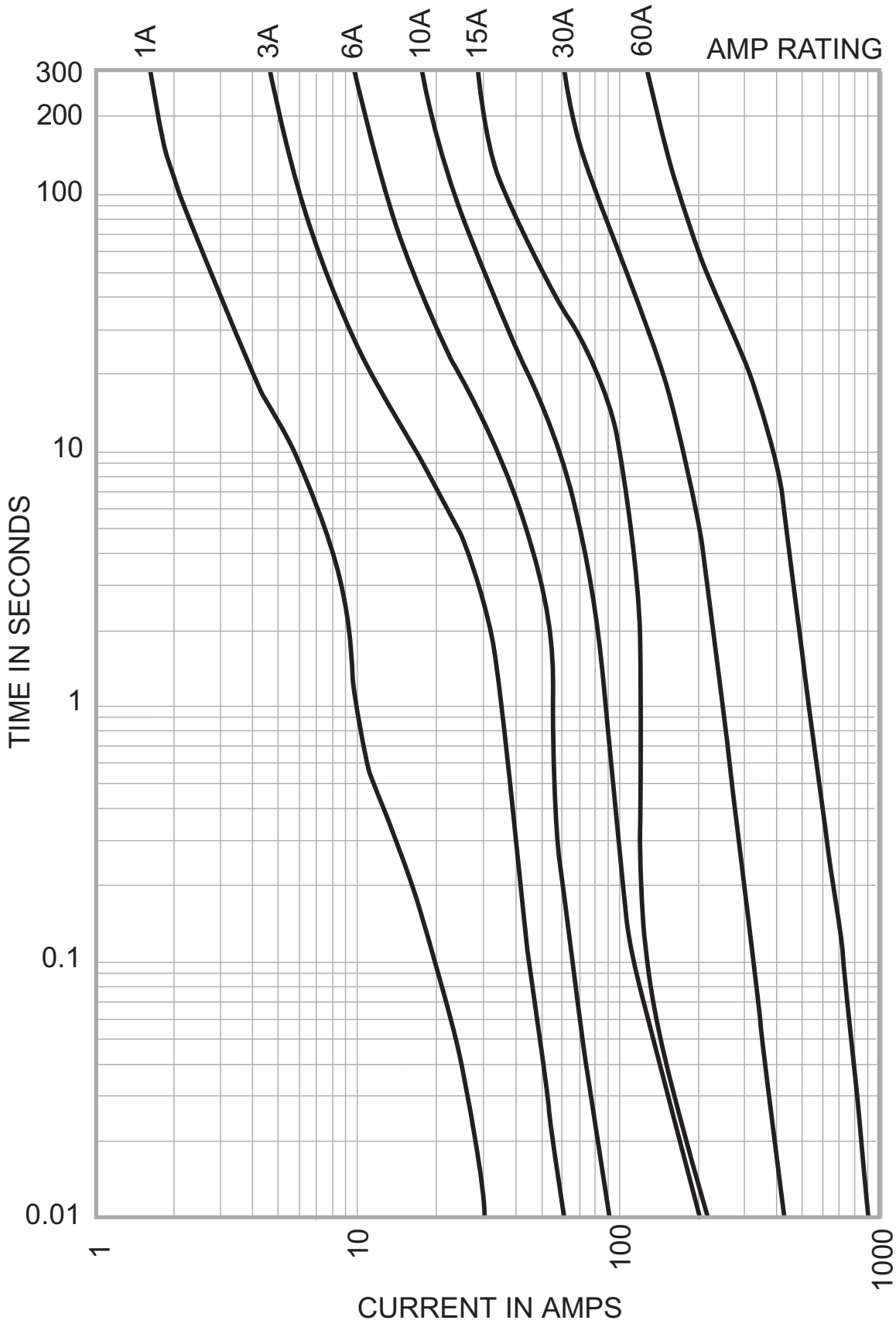
For additional information on the Class J fuse blocks and holders, see data sheets no. 10289 (modular open blocks), no.1108 (pyramid blocks), no. 2144 (CH) and no. 1152 (Safety J).

## 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† |

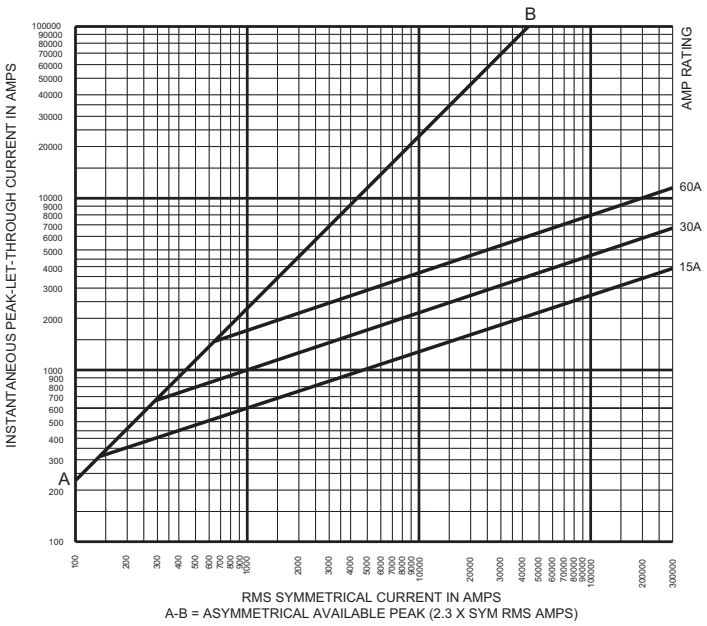
† Not for bolt-in applications.

**Time-current curves - average melt**



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

## Current-limitation curves:




## Current-limiting effects:

| Prospective S.C.C. | Let-through current (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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Printed in USA
Publication No. 1006 — BU-SB13688
August 2018

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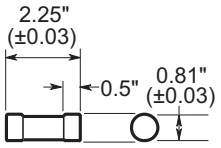


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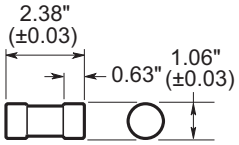


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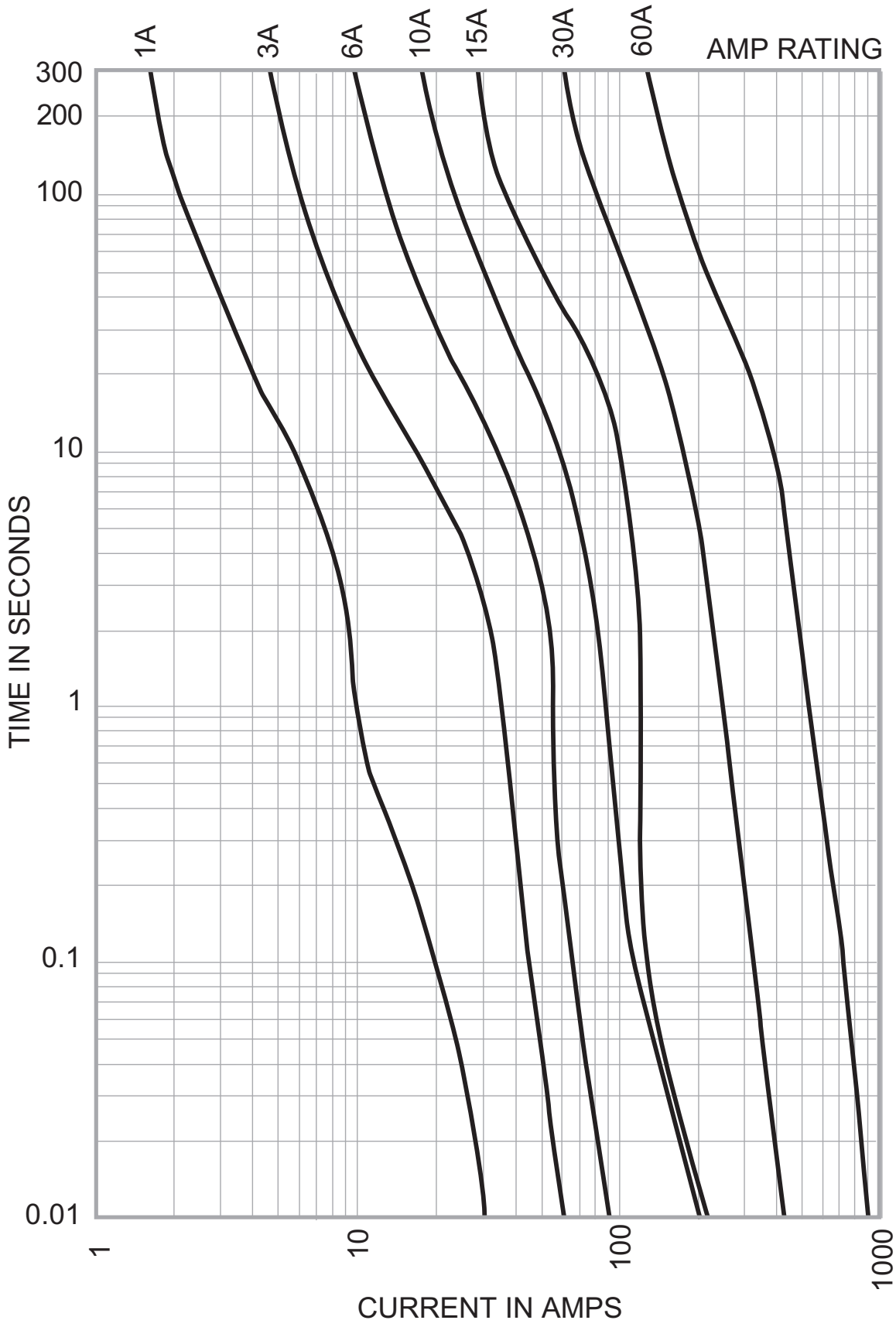

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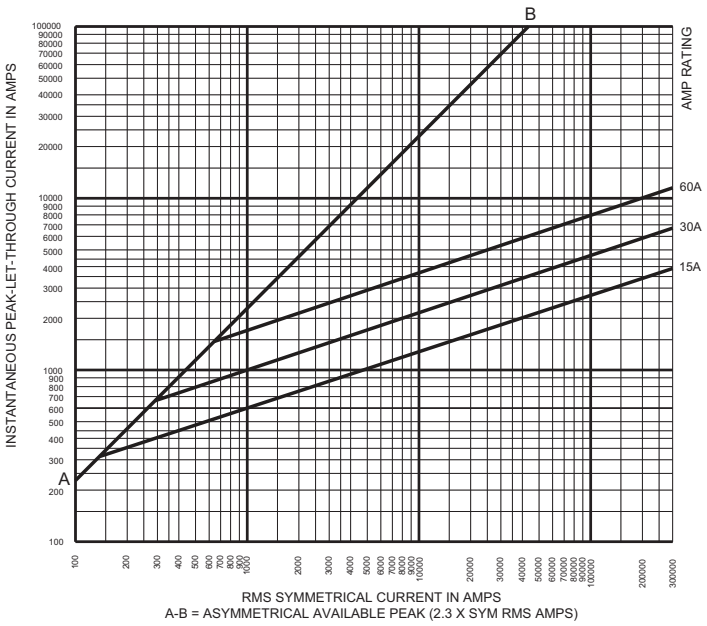


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Publication No. 1006 — BU-SB13688
August 2018

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