

# LPN-RK — 250 Vac/125 Vdc, 1/10-60 A, dual element, time-delay fuses



## Catalog symbols:

- LPN-RK(amp)SP (non-indicating)
- LPN-RK(amp)SPI (indicating)

## Description:

Ultimate protection Class RK1 dual element, current-limiting, time-delay fuses available with optional open fuse indication. Time-delay – 10 seconds (minimum) at 500% of rated current (8 seconds for 0-30A sizes).

## Specifications:

### Ratings

- Volts
  - 250 Vac
  - 125 Vdc\*
- Amps 1/10-60A
- IR
  - 300 kA 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 RK1 per CSA C22.2, No. 248.12
- CE

### Catalog no.

|                 |                |                |
|-----------------|----------------|----------------|
| LPN-RK-1/10SP   | LPN-RK-2SP     | LPN-RK-9SP     |
| LPN-RK-15/100SP | LPN-RK-21/4SP  | LPN-RK-10SP    |
| LPN-RK-2/10SP   | LPN-RK-21/2SP  | LPN-RK-12SP    |
| LPN-RK-3/10SP   | LPN-RK-28/10SP | LPN-RK-15SP    |
| LPN-RK-4/10SP   | LPN-RK-3SP     | LPN-RK-171/2SP |
| LPN-RK-1/2SP    | LPN-RK-32/10SP | LPN-RK-20SP    |
| LPN-RK-6/10SP   | LPN-RK-31/2SP  | LPN-RK-25SP    |
| LPN-RK-8/10SP   | LPN-RK-4SP     | LPN-RK-30SP    |
| LPN-RK-1SP      | LPN-RK-41/2SP  | LPN-RK-35SP*   |
| LPN-RK-11/8SP   | LPN-RK-5SP     | LPN-RK-40SP*   |
| LPN-RK-11/4SP   | LPN-RK-56/10SP | LPN-RK-45SP*   |
| LPN-RK-14/10SP  | LPN-RK-6SP     | LPN-RK-50SP*   |
| LPN-RK-16/10SP  | LPN-RK-61/4SP  | LPN-RK-60SP*   |
| LPN-RK-18/10SP  | LPN-RK-8SP     |                |

\* Open fuse indication available by inserting the suffix "I," e.g. LPN-RK-50SPI. Requires 75Vac minimum voltage. Indicating fuses are not Vdc rated.

### Carton quantity

- 10

### Features and benefits

- Industry's only UL Listed and CSA Certified fuse with a 300 kA 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.
- Time-delay permits 130% FLA sizing for back-up motor protection.
- Current-limitation protects downstream components against damaging thermal and magnetic effects of short-circuit currents.
- Protects against single-phase motor damage.
- Proper sizing can provide "no damage" Type 2 coordinated protection for NEMA and IEC motor controllers.

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Recommended fuse blocks

| Amps | Catalog no. |            |            |
|------|-------------|------------|------------|
|      | 1-Pole      | 2-Pole     | 3-Pole     |
| 30   | RM25030-1_  | RM25030-2_ | RM25030-3_ |
| 60   | RM25060-1_  | RM25060-2_ | RM25060-3_ |

For additional information on the 250 volt fuse blocks, see data sheets no. 10289.

Fuse reducers for Class R fuses

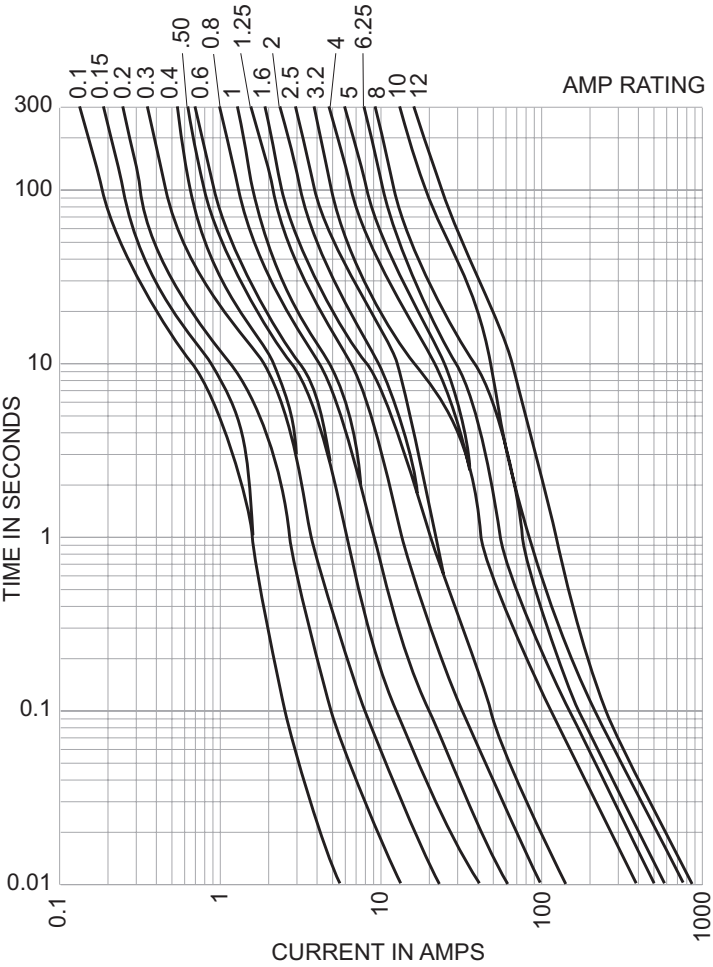
| Equipment fuse clips | Desired fuse (case) size | Catalog no. (pairs) 250V |
|----------------------|--------------------------|--------------------------|
| 60 A                 | 30 A                     | NO.263-R                 |
| 100 A                | 30 A                     | NO.213-R                 |
| 200 A                | 60 A                     | NO.216-R                 |
|                      | 60 A                     | NO.226-R                 |

For additional information on Class R fuse reducers, see data sheet no. 1118.

Dimensions — in

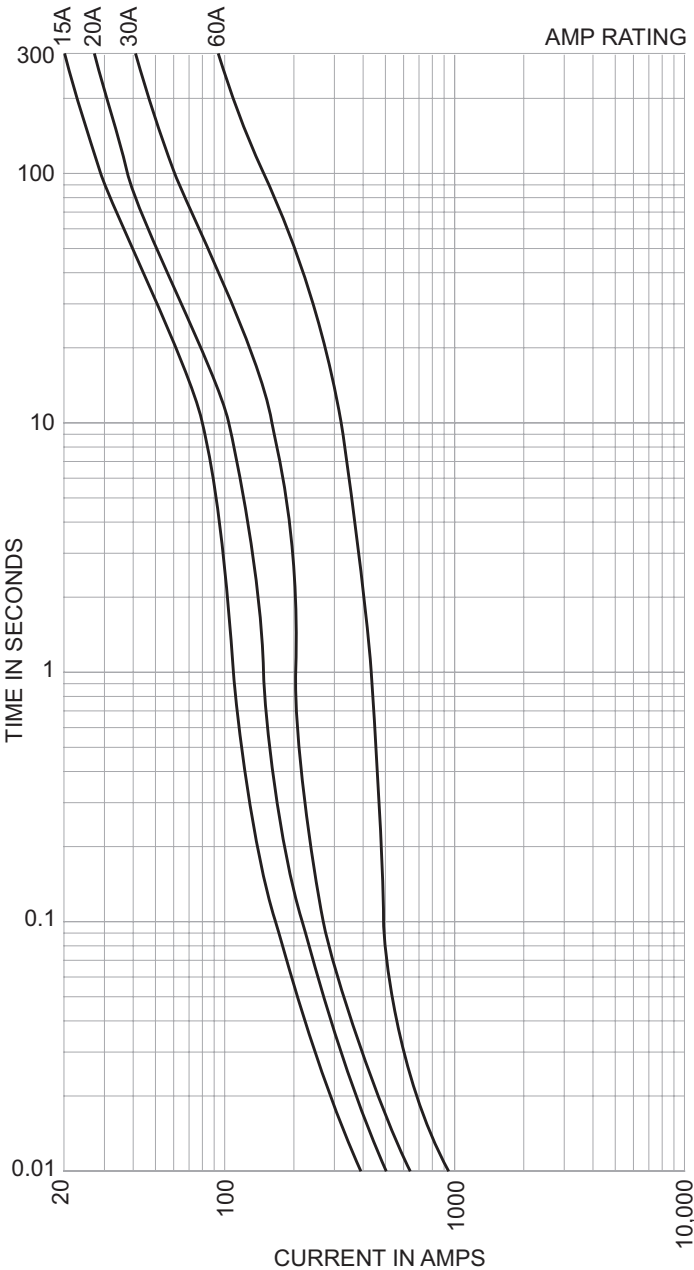


Time-current curves - average melt  
1/10 to 12 amps

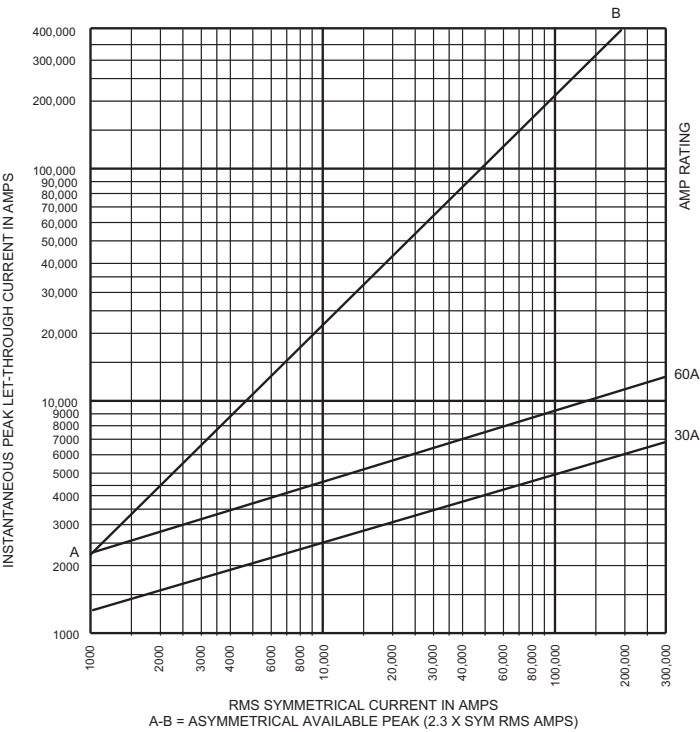


Time-current curves - average melt

15 to 60 amps



Current-limitation curves



Current-limiting effects

| Prospect. S.C.C. | Let-through current (apparent RMS Sym. vs. fuse rating) |      |
|------------------|---------------------------------------------------------|------|
|                  | 30 A                                                    | 60 A |
| —                | 1000                                                    | 1000 |
| 1000             | 1000                                                    | 1000 |
| 2000             | 1000                                                    | 1000 |
| 3000             | 1000                                                    | 1000 |
| 5000             | 1000                                                    | 2000 |
| 10,000           | 1000                                                    | 2000 |
| 15,000           | 1000                                                    | 2000 |
| 20,000           | 1000                                                    | 3000 |
| 25,000           | 1000                                                    | 3000 |
| 30,000           | 2000                                                    | 3000 |
| 35,000           | 2000                                                    | 3000 |
| 40,000           | 2000                                                    | 3000 |
| 50,000           | 2000                                                    | 3000 |
| 60,000           | 2000                                                    | 3000 |
| 70,000           | 2000                                                    | 3000 |
| 80,000           | 2000                                                    | 4000 |
| 90,000           | 2000                                                    | 4000 |
| 100,000          | 2000                                                    | 4000 |
| 150,000          | 2000                                                    | 4000 |
| 200,000          | 3000                                                    | 5000 |
| 250,000          | 3000                                                    | 5000 |
| 300,000          | 3000                                                    | 6000 |

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**Eaton**  
1000 Eaton Boulevard  
Cleveland, OH 44122  
Eaton.com

Bussmann Division  
114 Old State Road  
Ellisville, MO 63021  
United States  
Eaton.com/bussmannseries

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