

# Low-Peak™ 600V Class RK1, dual-element, time-delay fuses, 1/10-60A



### Catalog symbol:

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

### Description:

Ultimate protection Class RK1 dual element, current-limiting, time-delay fuses available with optional open fuse indication on select ratings. Time-delay – 10 seconds (minimum) at 500% of rated current.

### Ratings

- Volts
  - 600Vac, 300Vdc
- Amps
  - 1/10-60A
- IR
  - 300kA Vac RMS Sym.
  - 100kA DC

### Agency Information

- CE, UL® Listed, Guide JDDZ, File E4273
- CSA® Certified, Class 1422-02, File 53787
- Class RK1 per CSA C22.2, No. 248.12

### 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.
- Time-delay permits sizing as close as 130% of motor Full Load Amps (FLA) for back-up overload 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 motor starter protection for NEMA® and the International Electrotechnical Commission (IEC) motor controllers.

### Applications:

- Feeder and branch circuits
- Motors
- Transformers
- Solenoids
- General purpose circuits

### Catalog Numbers (amps)

|                 |                 |                  |
|-----------------|-----------------|------------------|
| LPS-RK-1/10SP   | LPS-RK-2SP      | LPS-RK-8SP*      |
| LPS-RK-2/10SP   | LPS-RK-2-1/4SP  | LPS-RK-9SP*      |
| LPS-RK-3/10SP   | LPS-RK-2-1/2SP  | LPS-RK-10SP*     |
| LPS-RK-4/10SP   | LPS-RK-2-8/10SP | LPS-RK-12SP*     |
| LPS-RK-1/2SP    | LPS-RK-3SP      | LPS-RK-15SP*     |
| LPS-RK-6/10SP   | LPS-RK-3-2/10SP | LPS-RK-17-1/2SP* |
| LPS-RK-8/10SP   | LPS-RK-3-1/2SP  | LPS-RK-20SP*     |
| LPS-RK-1SP      | LPS-RK-4SP      | LPS-RK-25SP*     |
| LPS-RK-1-1/8SP  | LPS-RK-4-1/2SP  | LPS-RK-30SP*     |
| LPS-RK-1-1/4SP  | LPS-RK-5SP      | LPS-RK-35SP*     |
| LPS-RK-1-4/10SP | LPS-RK-5-6/10SP | LPS-RK-40SP*     |
| LPS-RK-1-1/2SP  | LPS-RK-6SP*     | LPS-RK-45SP*     |
| LPS-RK-1-6/10SP | LPS-RK-6-1/4SP* | LPS-RK-50SP*     |
| LPS-RK-1-8/10SP | LPS-RK-7SP*     | LPS-RK-60SP*     |

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

### Carton quantity:

| Amp rating | Carton qty. |
|------------|-------------|
| 0-60       | 10          |

### Recommended fuse blocks

| Fuse amps | 1-pole    | 2-pole    | 3-pole    |
|-----------|-----------|-----------|-----------|
| Up to 30  | RM60030-1 | RM60030-2 | RM60030-3 |
| 35-60     | RM60060-1 | RM60060-2 | RM60060-3 |

For additional information on the RM600 modular fuse blocks, see data sheet no. 1111.

### Fuse reducers for Class R fuses

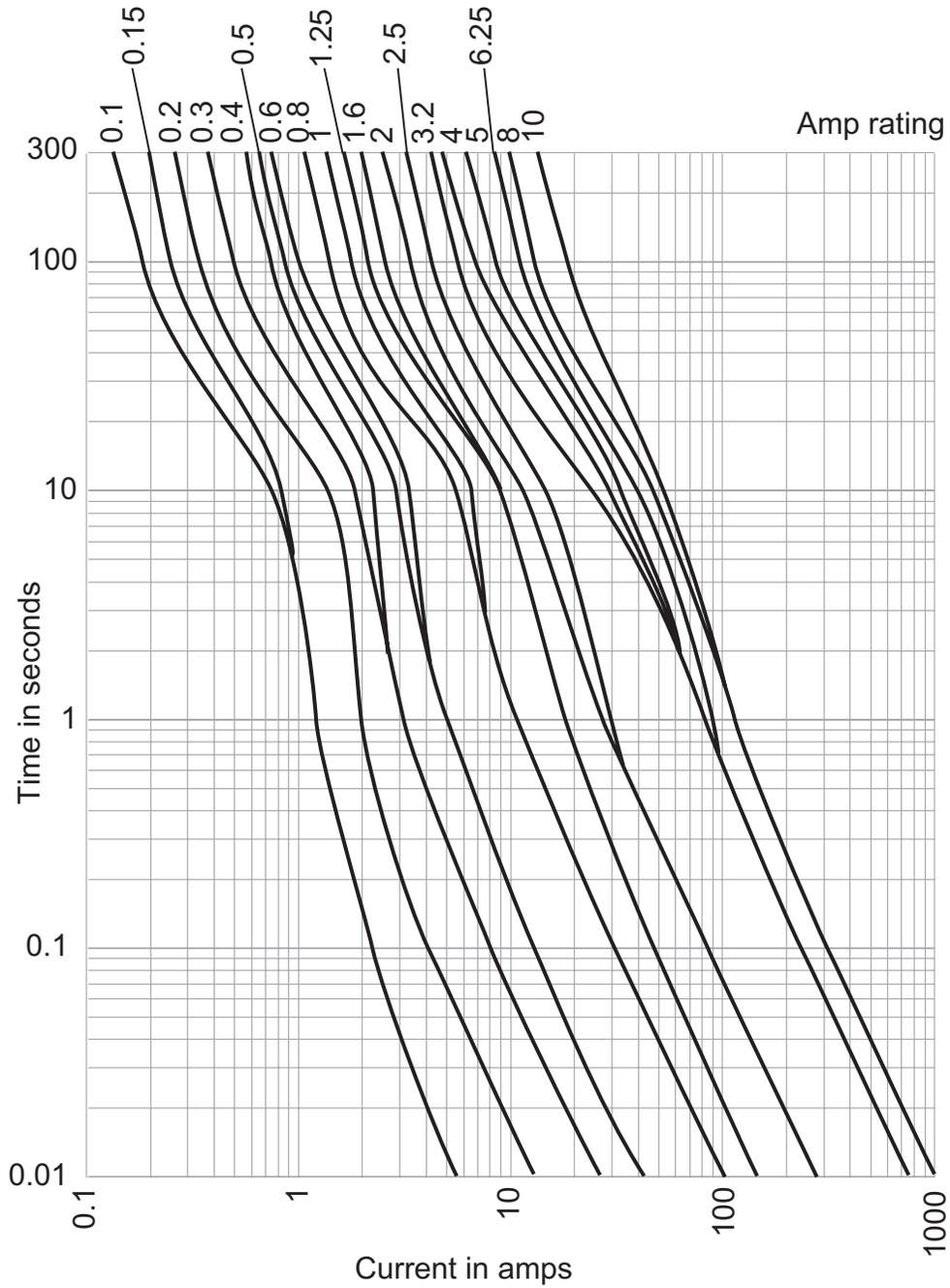
| Equipment fuse clips | Desired fuse (case) size | Catalog nos. (pairs) 600V |
|----------------------|--------------------------|---------------------------|
| 60A                  | 30A                      | NO.663-R                  |
| 100A                 | 30A                      | NO.216-R                  |
|                      | 60A                      | NO.616-R                  |
| 200A                 | 60A                      | NO.626-R                  |

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

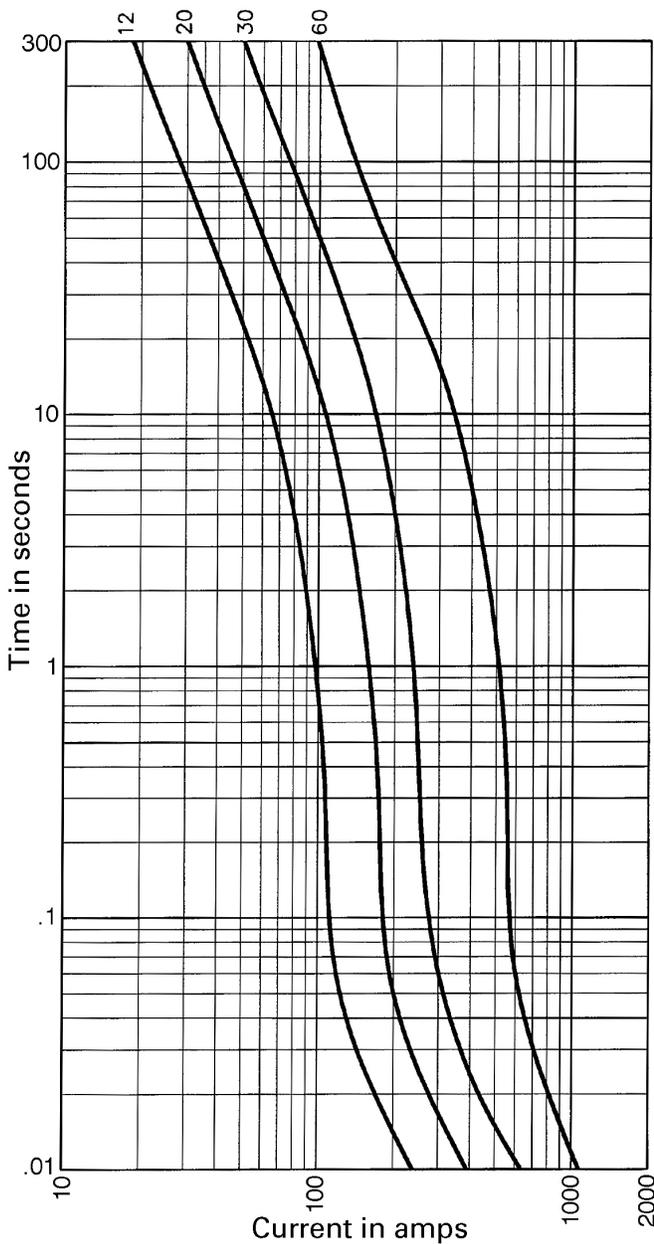


**Time-current characteristic curves—average melt:**

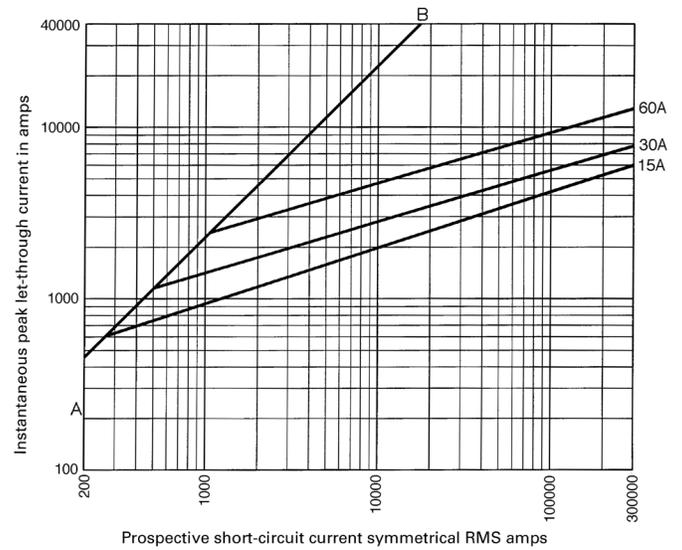
1/10 to 10 amps



**Time-current characteristic curves—average melt:**  
12 to 60 amps



**Current-limitation curves:**



**Current-limiting effects**

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

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