

# LPS-RK — 600 Vac/300 Vdc, 70-600 A, dual element, time-delay fuses

**Catalog symbols:**

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

Description: Ultimate protection Class RK1 current-limiting, dual element, time-delay fuses available with optional open fuse indication.

**Specifications:****Ratings**

- Volts
  - 600 Vac
  - 300 Vdc\*
- Amps 70-600 A
- IR
  - 300 kA Vac RMS Sym.
  - 100 kA 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.\***

|              |              |              |
|--------------|--------------|--------------|
| LPS-RK-70SP  | LPS-RK-150SP | LPS-RK-350SP |
| LPS-RK-80SP  | LPS-RK-175SP | LPS-RK-400SP |
| LPS-RK-90SP  | LPS-RK-200SP | LPS-RK-450SP |
| LPS-RK-100SP | LPS-RK-225SP | LPS-RK-500SP |
| LPS-RK-110SP | LPS-RK-250SP | LPS-RK-600SP |
| LPS-RK-125SP | LPS-RK-300SP |              |

\* Open fuse indication available on all part numbers by inserting the suffix "I," e.g., LPS-RK-90SPI. Requires 75Vac minimum voltage. Indicating fuses are not Vdc rated.

**Carton quantity**

- 1

**Typical applications**

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

**Features and benefits**

- 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 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      |
| 100  | RM60100-1CR | RM60100-2CR | RM60100-3CR |
| 200  | RM60200-1CR | RM60200-2CR | RM60200-3CR |
| 400  | RM60400-1CR | RM60400-2CR | RM60400-3CR |
| 600  | RM60600-1CR | RM60600-2CR | RM60100-3CR |

For additional information on the RM600 600 volt fuse blocks, see product brochure no. 3192.

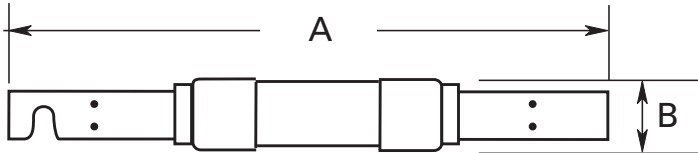
## Fuse reducers for Class R fuses

| Equipment fuse clips | Desired fuse (case) size | Catalog no. (pairs) 600V |
|----------------------|--------------------------|--------------------------|
| 200 A                | 100 A                    | NO.2621-R                |
| 400 A                | 100 A                    | NO.2641-R                |
|                      | 200 A                    | NO.642-R                 |
|                      | 100 A                    | NO.2661-R                |
| 600 A                | 200 A                    | NO.2662-R                |
|                      | 400 A                    | NO.2664-R†               |

† Single reducer only (pair not required).

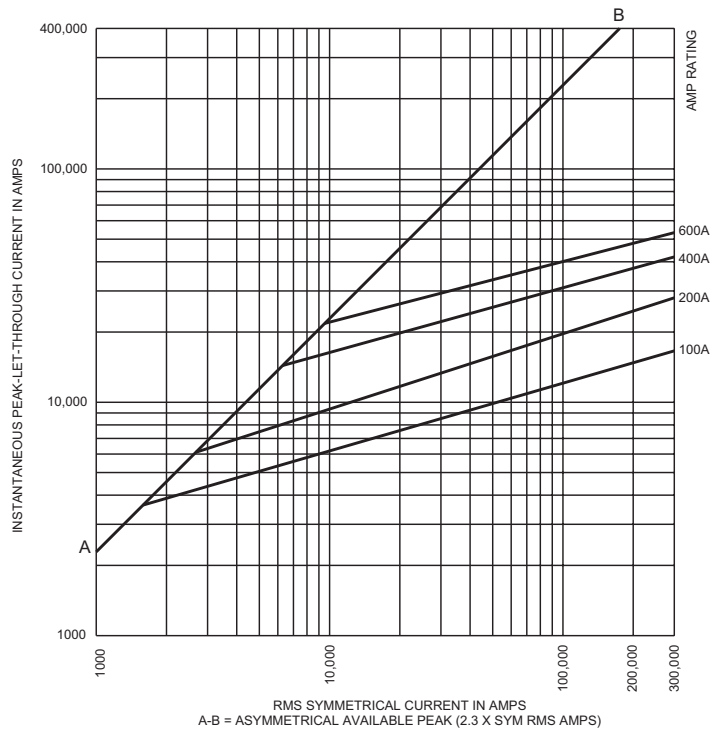
For additional information on Class R fuse reducers, see data sheet no. 1118.

## Dimensions — in



| Fuse amps | A     | B    |
|-----------|-------|------|
| 70-100    | 7.88  | 1.11 |
| 110-200   | 9.63  | 1.61 |
| 225-400   | 11.63 | 2.36 |
| 450-600   | 13.38 | 2.88 |

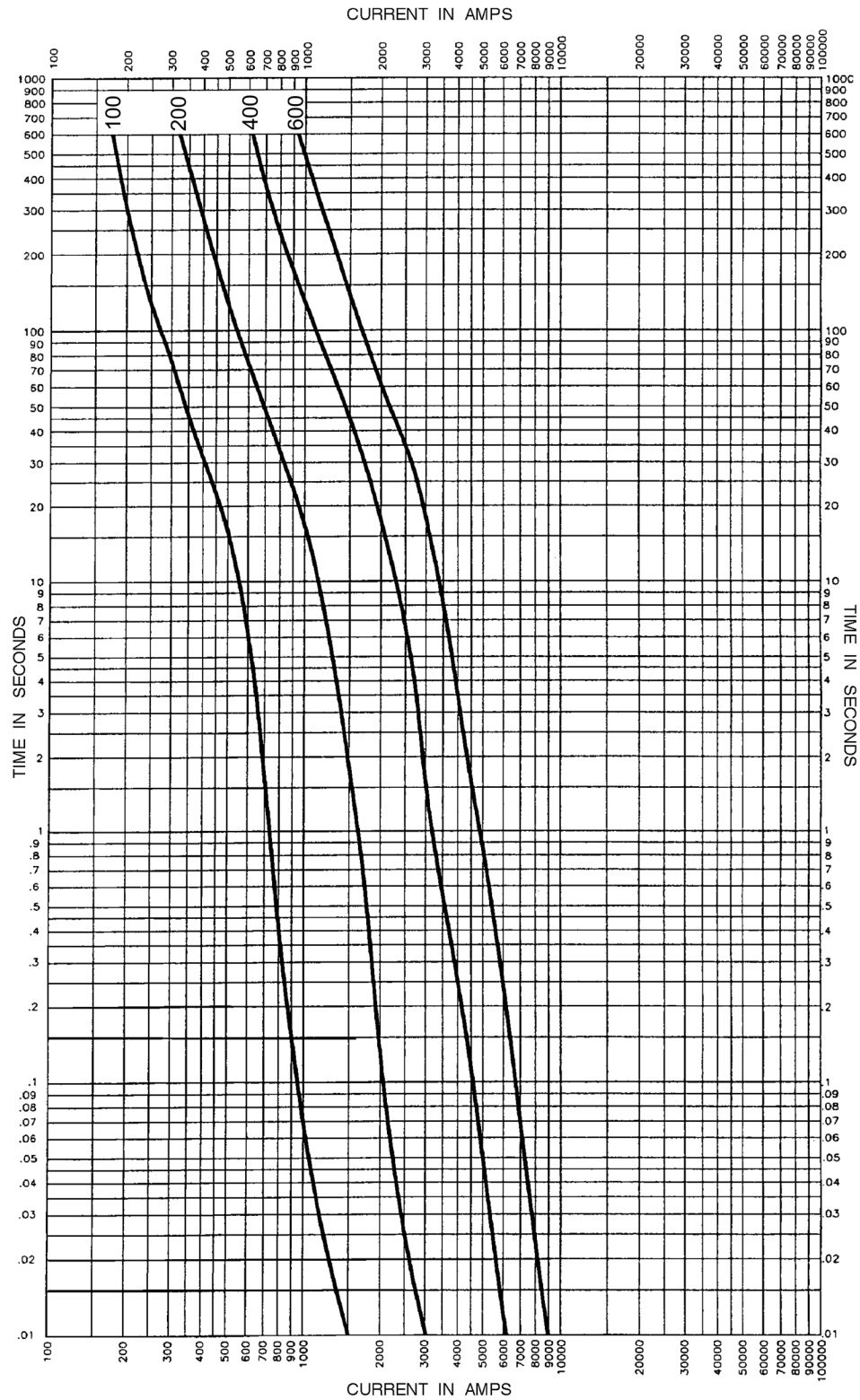
## Current-limitation curves



## Current-limiting effects

| Pros. S.C.C. | Let-through current (apparent RMS Sym. vs. fuse rating) |        |        |        |
|--------------|---------------------------------------------------------|--------|--------|--------|
|              | 100A                                                    | 200A   | 400A   | 600A   |
| 1000         | 1000                                                    | 1000   | 1000   | 1000   |
| 2000         | 2000                                                    | 2000   | 2000   | 2000   |
| 3000         | 2000                                                    | 3000   | 3000   | 3000   |
| 5000         | 2000                                                    | 3000   | 5000   | 5000   |
| 10,000       | 3000                                                    | 4000   | 7000   | 10,000 |
| 15,000       | 3000                                                    | 5000   | 8000   | 11,000 |
| 20,000       | 3000                                                    | 5000   | 9000   | 12,000 |
| 25,000       | 4000                                                    | 6000   | 9000   | 12,000 |
| 30,000       | 4000                                                    | 6000   | 10,000 | 13,000 |
| 35,000       | 4000                                                    | 6000   | 10,000 | 13,000 |
| 40,000       | 4000                                                    | 6000   | 10,000 | 14,000 |
| 50,000       | 5000                                                    | 7000   | 11,000 | 15,000 |
| 60,000       | 5000                                                    | 7000   | 12,000 | 15,000 |
| 70,000       | 5000                                                    | 8000   | 13,000 | 16,000 |
| 80,000       | 5000                                                    | 8000   | 13,000 | 16,000 |
| 90,000       | 5000                                                    | 8000   | 13,000 | 17,000 |
| 100,000      | 6000                                                    | 9000   | 14,000 | 17,000 |
| 150,000      | 6000                                                    | 10,000 | 15,000 | 19,000 |
| 200,000      | 7000                                                    | 11,000 | 16,000 | 21,000 |
| 250,000      | 7000                                                    | 12,000 | 17,000 | 22,000 |
| 300,000      | 7000                                                    | 12,000 | 18,000 | 23,000 |

## Time-current curves - average melt



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