

LPS-RK — 600 Vac/300 Vdc, 1/10-60A, dual element, time-delay fuses



Catalog symbols:

- LPS-RK-_SP (non-indicating)
- LPS-RK-_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.

Rating

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

* DC rating does not apply all indicating versions (LPS-RK-_SPI) and the LPS-RK-60SP, non-indicating fuse.

Agency information

- cULus Listed file No. JDDZ.E4273
 - UL 248-12 – Class RK1 Fuses
 - CSA C22.2 No. 248.12 – Class RK1 Fuses
- CE

Catalog no.

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

* Open fuse indication available by inserting the suffix "I," e.g., LPS-RK-15SPI. Requires 75Vac minimum voltage. Indicating fuses and the LPS-RK-60SP non-indicating fuse are not Vdc rated.

Carton quantity

- 10

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.



Powering Business Worldwide

Recommended fuse blocks

| Amps | Catalog no. | | |
|------|-------------|-----------|-----------|
| | 1-Pole | 2-Pole | 3-Pole |
| 30 | RM60030-1 | RM60030-2 | RM60030-3 |
| 60 | RM60060-1 | RM60060-2 | RM60060-3 |

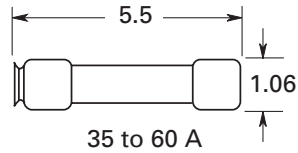
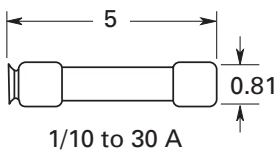
For additional information on the RM600 600 volt fuse blocks, see data sheet no. 10289.

Fuse reducers for Class R fuses

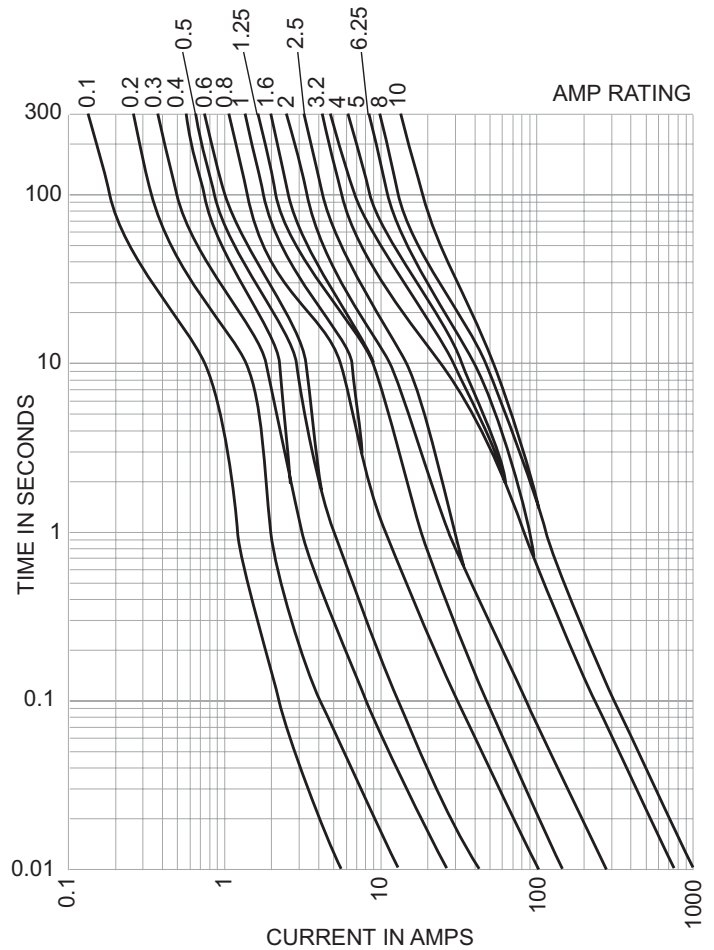
| Equipment fuse clips | Desired fuse (case) size | Catalog no. |
|----------------------|--------------------------|-------------|
| 60 A | 30 A | NO.663-R |
| | 30 A | NO.216-R |
| 100A | 60 A | NO.616-R |
| 200 A | 60 A | NO.626-R |

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

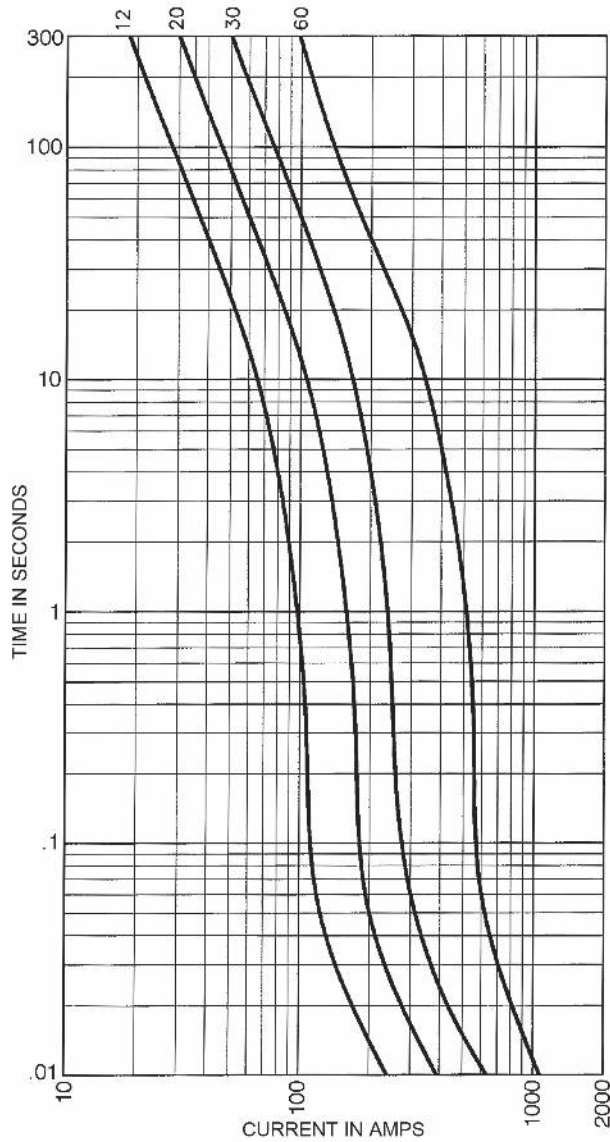
Dimensions — in



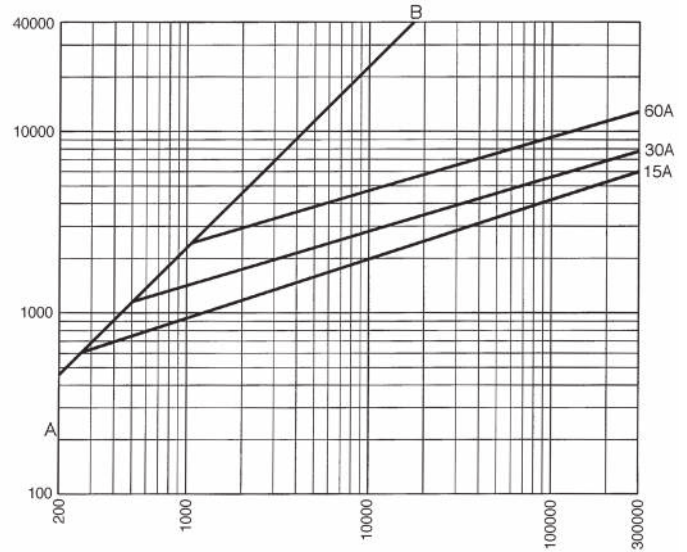
Time-Current Characteristic Curves—Average Melt
1/10 to 10 Amps



Time-Current Characteristic Curves—Average Melt
12 to 60 Amps



Current-I Limitation curves



Current-limiting effects

| Pros. S.C.C. | Let-through current (apparent RMS Sym. vs. fuse rating) | |
|--------------|---|------|
| | 30A | 60A |
| — | 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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Printed in USA
Publication No. 1001
July 2023

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