

# Low-Peak®

## Dual-Element Time-Delay Fuses

### Class RK1 – 250 Volts AC/DC

# LPN-RK

## 70-600A



Catalog Symbol: LPN-RK\_SP

Ampere Rating: 70 to 600A

Voltage Ratings:

ac: 250V (or less)

dc: 250V (or less)

Interrupting Ratings:

ac: 300,000A RMS Sym.

dc: 100,000A

Agency Information:

UL Listed—Special Purpose\*\*, Guide JFHR, File E56412

CSA Certified, (200,000 AIR) Class 1422-02, File 53787,  
Class RK1 per CSA C22.2 No. 248.12

#### Catalog Numbers

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

Available with tin plate option. Add Suffix "-TP" (Ex.: LPN-RK-100SP-TP)

#### Carton Quantity and Weight—LPN-RK (250Vac)

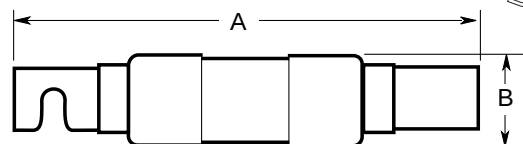
| Ampere Ratings | Carton Qty. | Weight* |     |
|----------------|-------------|---------|-----|
|                |             | Lbs.    | Kg. |
| 70-100         | 5           | 1.9     | 0.9 |
| 110-200        | 1           | 0.9     | 0.4 |
| 225-400        | 1           | 2.0     | 0.9 |
| 450-600        | 1           | 3.0     | 1.4 |

\*Weight per carton.

\*\* Meets all performance requirements of UL Standard 248-12 for Class RK1 fuses.

CE CE logo denotes compliance with European Union Low Voltage Directive (50-1000Vac, 75-1500Vdc). Refer to Data Sheet: 8002 or contact Bussmann Application Engineering at 636-527-1270 for more information.

#### Dimensional Data



#### Dimensions (inches)

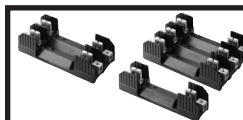
| Ampere Ratings | "A"             | "B"            |
|----------------|-----------------|----------------|
| 70-100         | 5.88 (± 0.062)  | 1.10 (± 0.020) |
| 110-200        | 7.13 (± 0.062)  | 1.61 (± 0.020) |
| 225-400        | 8.63 (± 0.094)  | 2.36 (± 0.020) |
| 450-600        | 10.38 (± 0.094) | 2.88 (± 0.020) |

#### Features:

- Current limiting for maximum short-circuit protection.
- Type 2 protection for IEC and NEMA starters when properly sized.
- High in-rush current motor protection.
- Time-delay that permits 130% FLA sizing for back-up motor protection.
- Provides protection against single-phase motor damage.
- Low watt loss power consumption.
- Electrically isolated end caps.
- 250Vdc, UL Listed.

#### Applications:

- Branch distribution
- Motors
- Transformers
- Solenoids
- General purpose circuits



Recommended fuseblocks for  
Class R 250V fuses  
See Data Sheet: 1110

#### Fuse Reducers For Class R Fuses

| Equipment Fuse Clips | Desired Fuse (Case) Size | Catalog Number (Pairs) 600V |
|----------------------|--------------------------|-----------------------------|
| 200A                 | 100A                     | No. 2621-R***               |
| 400A                 | 100A                     | No. 2641-R                  |
|                      | 200A                     | No. 642-R                   |
|                      | 100A                     | No. 2661-R                  |
| 600A                 | 200A                     | No. 2662-R                  |
|                      | 400A                     | No. 2664-R*                 |

\*Single reducer only (pair not required).

\*\*\*Reducer No. 2621-R does not apply to LPN-RK-70SP to LPN-RK-100SP Fuses.

For additional information, see Data Sheet: 1118.

# Low-Peak®

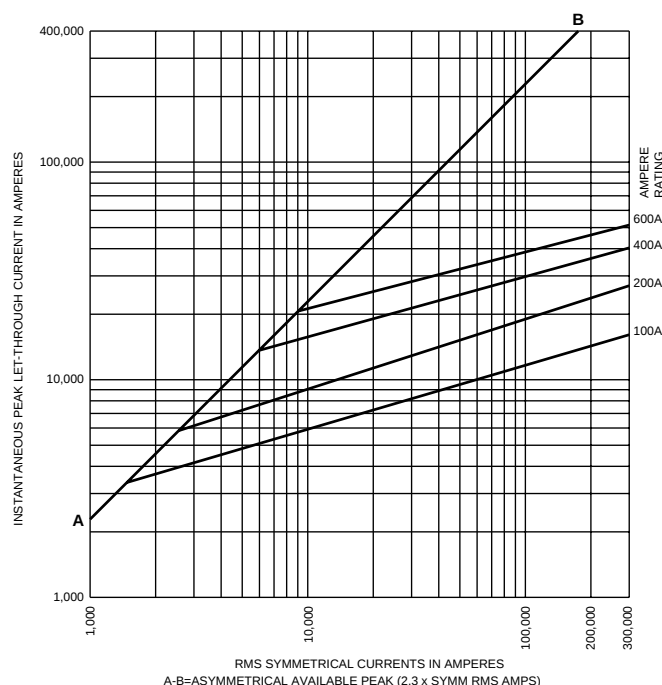
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### Class RK1 – 250 Volts AC/DC

# LPN-RK

## 70-600A

#### Current Limitation Curves

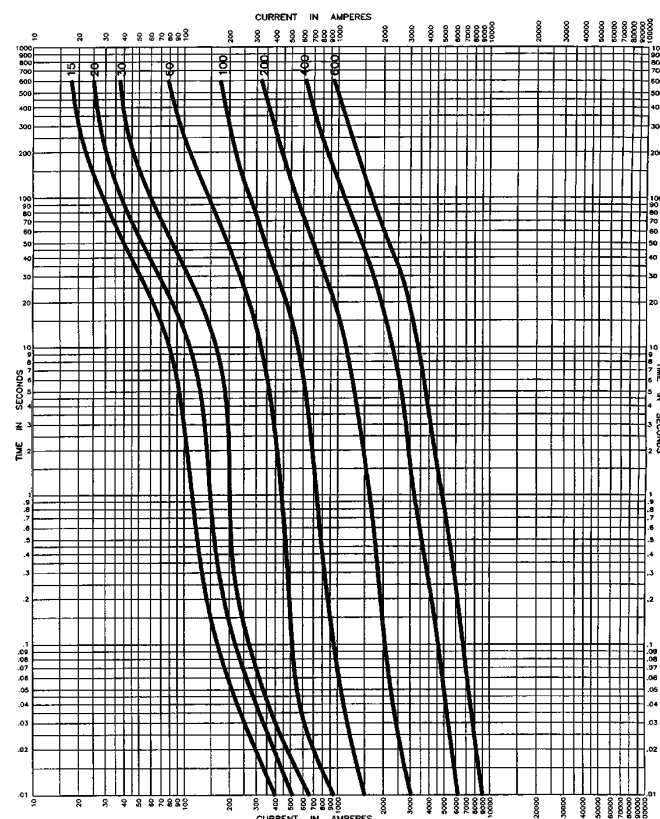


#### Current-Limiting Effects

| Prospect S.C.C. | Let-Through Current (Apparent RMS Symmetrical) Versus Fuse Rating |        |        |        |
|-----------------|-------------------------------------------------------------------|--------|--------|--------|
|                 | 100A                                                              | 200A   | 400A   | 600A   |
| 5,000           | 2,100                                                             | 3,150  | 5,000  | 5,000  |
| 10,000          | 2,600                                                             | 3,950  | 6,900  | 9,250  |
| 15,000          | 2,950                                                             | 4,500  | 7,650  | 10,250 |
| 20,000          | 3,200                                                             | 4,900  | 8,350  | 11,050 |
| 25,000          | 3,350                                                             | 5,300  | 8,850  | 11,750 |
| 30,000          | 3,550                                                             | 5,600  | 9,300  | 12,250 |
| 35,000          | 3,750                                                             | 5,850  | 9,700  | 12,800 |
| 40,000          | 3,900                                                             | 6,150  | 10,050 | 13,250 |
| 50,000          | 4,150                                                             | 6,600  | 10,700 | 14,050 |
| 60,000          | 4,400                                                             | 7,000  | 11,250 | 14,750 |
| 80,000          | 4,750                                                             | 7,650  | 12,200 | 15,850 |
| 100,000         | 5,050                                                             | 8,250  | 12,950 | 16,800 |
| 150,000         | 5,700                                                             | 9,400  | 14,500 | 18,650 |
| 200,000         | 6,200                                                             | 10,300 | 15,700 | 20,100 |
| 250,000         | 6,600                                                             | 11,050 | 16,700 | 21,250 |
| 300,000         | 7,000                                                             | 11,750 | 17,550 | 22,350 |

\*Values derived from curve data

#### Time-Current Characteristic Curves—Average Melt



For information on the previous design LPN-RK 70-6009SP, see Data Sheet: 1048.

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