

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)

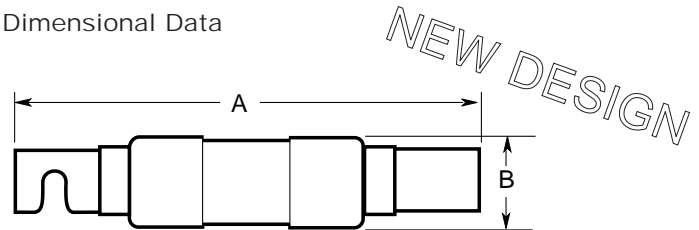
| Ampere Ratings | Carton Qty. | Weight* | |
|----------------|-------------|---------|-----|
| | | Lbs. | Kg. |
| 70-100 | 5 | 1.9 | 0.9 |
| 110-200 | 1 | 0.9 | 0.4 |
| 225-400 | 1 | 2.0 | 0.9 |
| 450-600 | 1 | 3.0 | 1.4 |

*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)

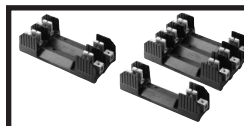
| Ampere Ratings | "A" | "B" |
|----------------|-----------------|----------------|
| 70-100 | 5.88 (± 0.062) | 1.10 (± 0.020) |
| 110-200 | 7.13 (± 0.062) | 1.61 (± 0.020) |
| 225-400 | 8.63 (± 0.094) | 2.36 (± 0.020) |
| 450-600 | 10.38 (± 0.094) | 2.88 (± 0.020) |

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 |
| 600A | 100A | No. 2661-R |
| | 200A | No. 2662-R |
| | 400A | No. 2664-R* |

*Single reducer only (pair not required).

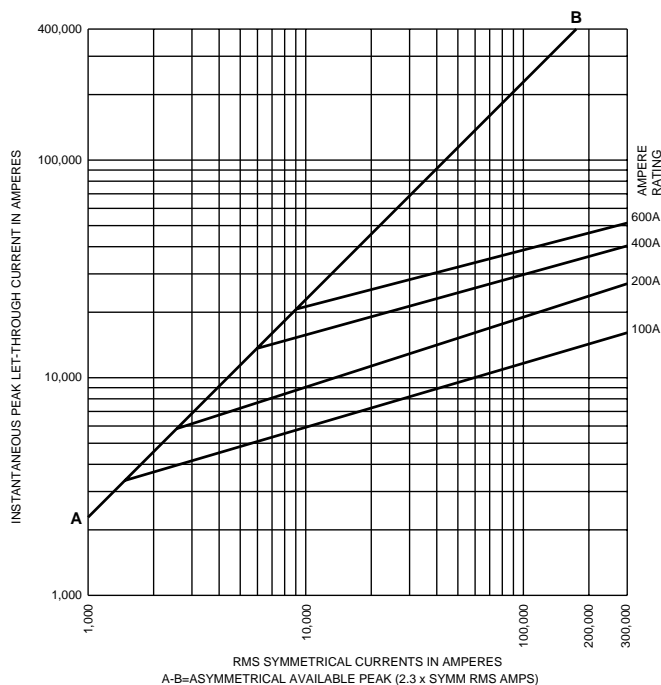
***Reducer No. 2621-R does not apply to LPN-RK-70SP to LPN-RK-100SP Fuses.

For additional information, see Data Sheet: 1118.

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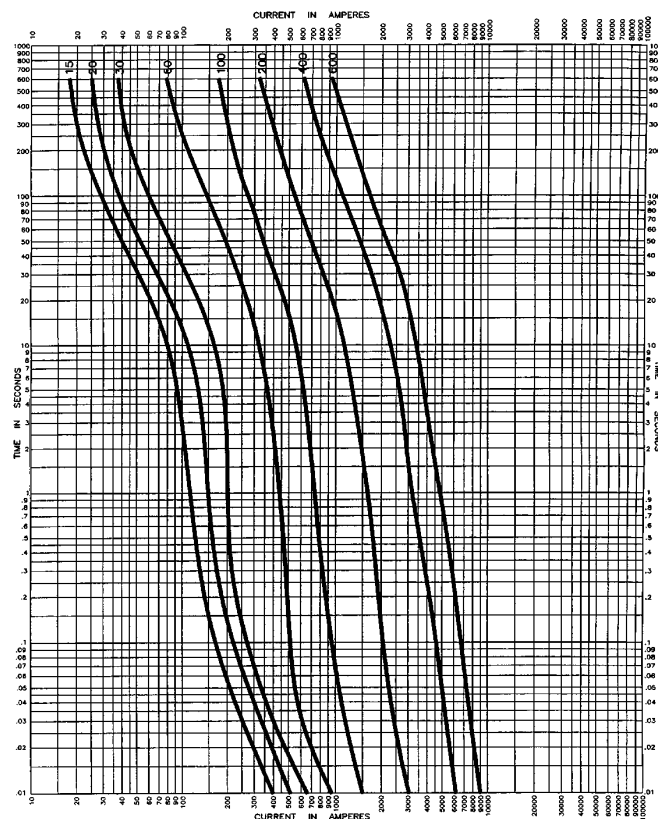
LPN-RK
70-600A

Current Limitation Curves



NEW DESIGN

Time-Current Characteristic Curves-Average Melt



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

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

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