

# LOW-PEAK®

Dual-Element, Time-Delay Fuses  
Class RK1 -- 600 Vac/300 Vdc

# LPS-RK

70-600A



Catalog Symbol: LPS-RK\_SP (600V)

Ampere Rating: 70 to 600A

Voltage Rating:

ac: 600V (or less)

dc: 300V (or less)

Interrupting Rating:

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

|              |              |              |
|--------------|--------------|--------------|
| 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 | —            |

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

### Carton Quantity and Weight—LPS-RK (600Vac)

| Ampere Ratings | Qty. | Carton Lbs. | Kg. | Weight* |
|----------------|------|-------------|-----|---------|
| 70-100         | 1    | 2.20        | 1.0 |         |
| 110-200        | 1    | 1.10        | 0.5 |         |
| 225-400        | 1    | 2.36        | 1.1 |         |
| 450-600        | 1    | 3.44        | 1.5 |         |

\*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)

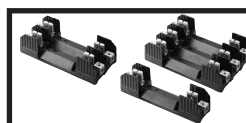
| Ampere Ratings | "A"             | "B"            |
|----------------|-----------------|----------------|
| 70-100         | 7.88 (± 0.062)  | 1.11 (± 0.020) |
| 110-200        | 9.63 (± 0.062)  | 1.61 (± 0.020) |
| 225-400        | 11.63 (± 0.094) | 2.36 (± 0.020) |
| 450-600        | 13.38 (± 0.094) | 2.88 (± 0.020) |

### Features:

- High degree of current-limitation for maximum short-circuit protection.
- Type 2 protection for IEC and NEMA starters when properly sized.
- High inrush current motor protection.
- Time-delay permits 130% FLA sizing for back-up motor overload protection, and single-phasing protection.
- Low watt loss power consumption.
- Electrically isolated end caps.
- 300Vdc, UL Listed.

### Applications:

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



Recommended fuseblocks for Class R 600V fuses  
See Data Sheet: 1111

### Fuse Reducers For Class R Fuses

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

\*Single reducer only (pair not required).

For additional information, see Data Sheet: 1118.

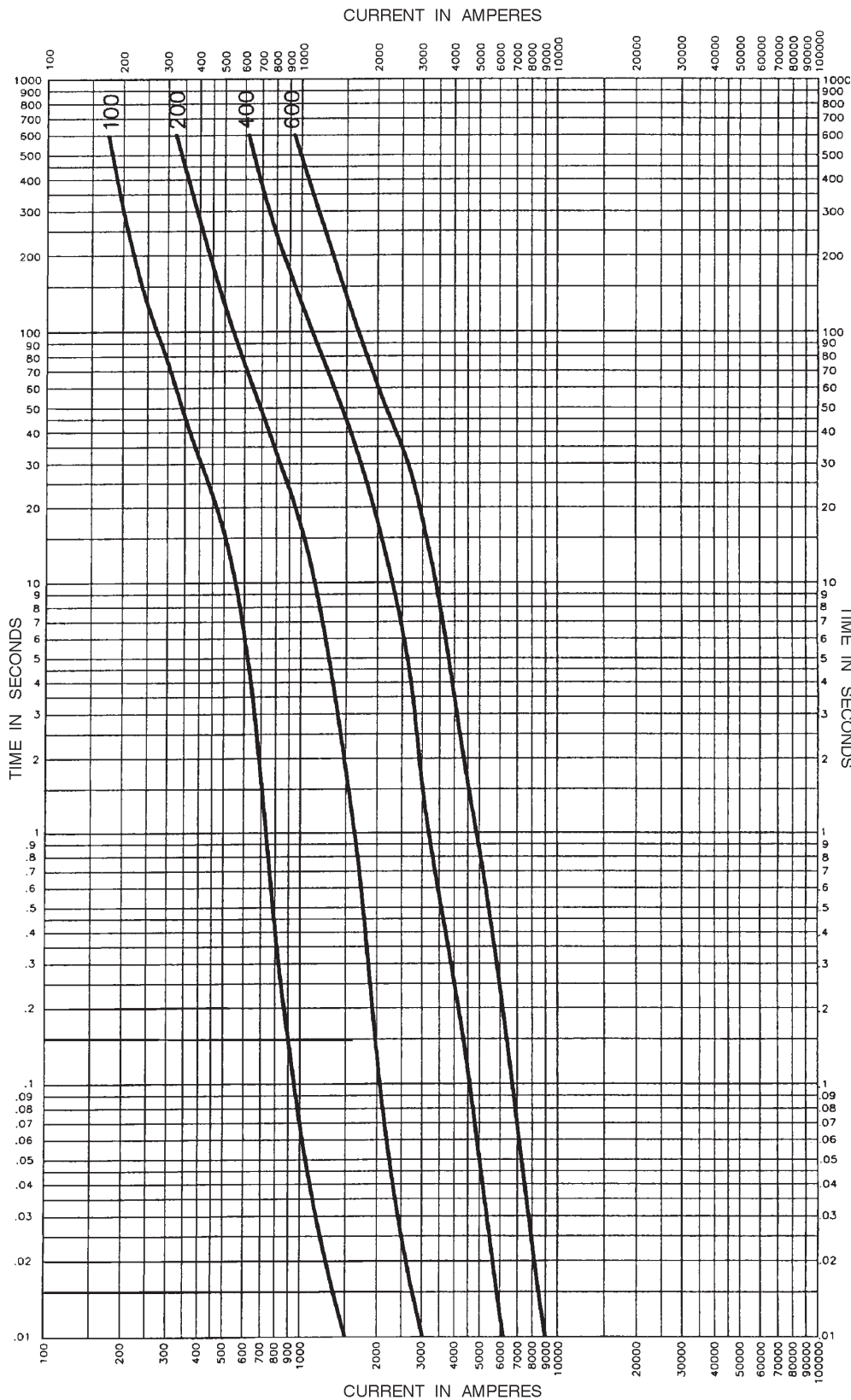
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Class RK1 -- 600 Vac/300 Vdc

# LPS-RK

## 70-600A

Time-Current Characteristic Average Melt



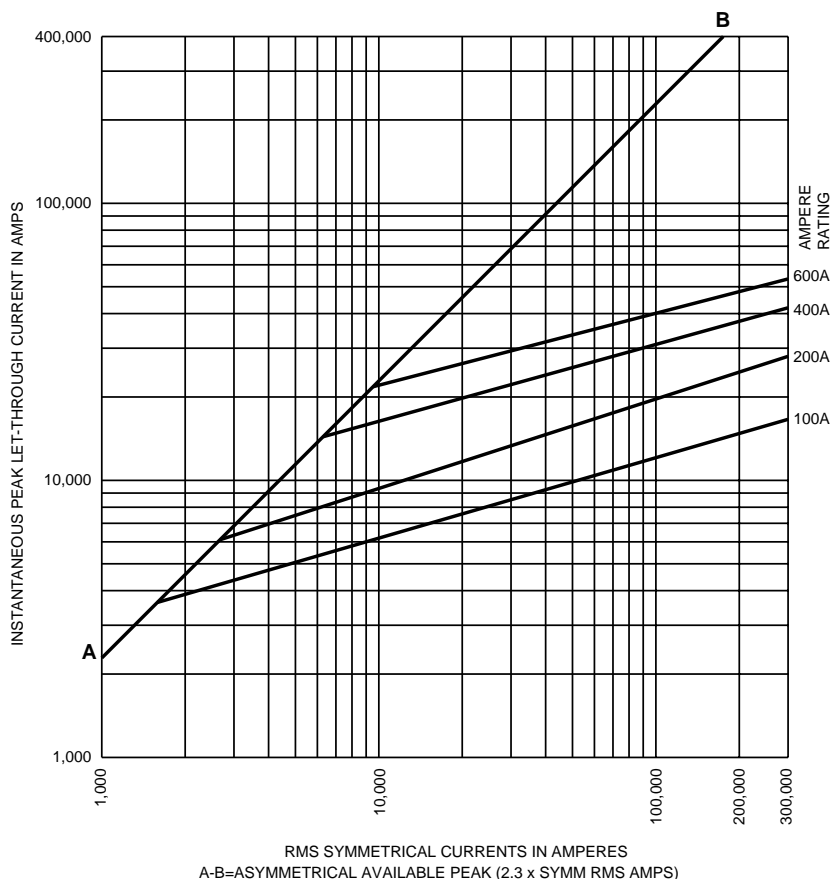
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## Dual-Element, Time-Delay Fuses

### Class RK1 -- 600 Vac/300 Vdc

LPS-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           | 2,200   | 3,250  | 5,000  | 5,000  |
| 10,000          | 2,700   | 4,100  | 7,150  | 9,600  |
| 15,000          | 3,050   | 4,650  | 7,950  | 10,650 |
| 20,000          | 3,300   | 5,100  | 8,650  | 11,500 |
| 25,000          | 3,500   | 5,500  | 9,200  | 12,200 |
| 30,000          | 3,700   | 5,800  | 9,650  | 12,750 |
| 35,000          | 3,900   | 6,100  | 10,100 | 13,300 |
| 40,000          | 4,050   | 6,400  | 10,450 | 13,750 |
| 50,000          | 4,300   | 6,850  | 11,100 | 14,600 |
| 60,000          | 4,550   | 7,250  | 11,700 | 15,300 |
| 80,000          | 4,950   | 7,950  | 12,650 | 16,450 |
| 100,000         | 5,250   | 8,550  | 13,450 | 17,450 |
| 150,000         | 5,900   | 9,750  | 15,050 | 19,400 |
| 200,000         | 6,450   | 10,700 | 16,300 | 20,900 |
| 250,000         | 6,850   | 11,500 | 17,350 | 22,100 |
| 300,000         | 7,250   | 12,200 | 18,250 | 23,200 |

\*Values derived from curve data.

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