

## Fusetron Energy Efficient, Dual-element, Time-delay Fuses

### FRS-R (600V) Class RK5

#### Specifications

**Description:** Dual-element, time-delay fuse – 10 seconds (minimum) at 500% rated amps. Now available with optional indication on select ratings (see Catalog Numbers table).

**Dimensions:** See page 15 for Class RK5 dimensions.

#### Ratings:

- Volts – 600Vac (or less)
- Amps –  $\frac{1}{10}$ -30A
- IR – 200kA RMS Sym.
- 20kA @300Vdc
- Amps – 35-60A
- IR – 200kA RMS Sym.
- 20kA @250Vdc



*Available  
With  
Indication*

**Agency Information:** CE, Std. 248-12, Class RK5, UL Listed, Guide JDDZ, File E4273, CSA Certified, Class 1422-02, File 53787.

#### Features and Benefits

- 2:1 selective coordination ratio (within RK5 fuse family) prevents electrical shutdowns from extending beyond the failed circuit.
- Insulated end caps for 65-600A fuses reduces exposure to live parts and extends air gap to distance between blades of adjacent mounted fuses or to housing.

#### Typical Applications

- Power Panelboards
- Combination Starters
- Motor Control Centers
- Machinery Disconnects

#### Catalog Numbers (Amps)

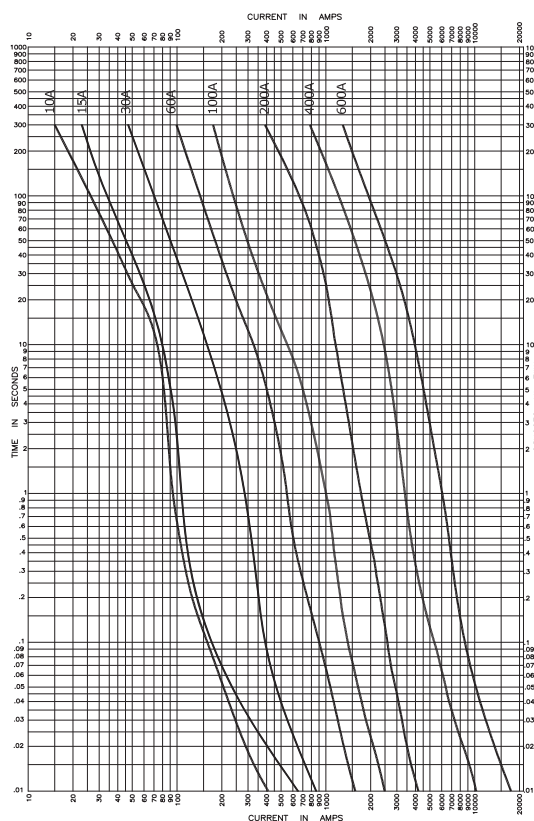
|                         |                          |                           |           |
|-------------------------|--------------------------|---------------------------|-----------|
| FRS-R- $\frac{1}{10}$   | FRS-R-2                  | FRS-R-10*                 | FRS-R-100 |
| FRS-R- $\frac{1}{8}$    | FRS-R-2- $\frac{1}{4}$   | FRS-R-12*                 | FRS-R-110 |
| FRS-R- $\frac{1}{4}$    | FRS-R-2- $\frac{1}{2}$   | FRS-R-15*                 | FRS-R-125 |
| FRS-R- $\frac{3}{16}$   | FRS-R-2- $\frac{3}{8}$   | FRS-R-17- $\frac{1}{2}$ * | FRS-R-150 |
| FRS-R- $\frac{1}{4}$    | FRS-R-3                  | FRS-R-20*                 | FRS-R-175 |
| FRS-R- $\frac{3}{16}$   | FRS-R-3- $\frac{1}{8}$   | FRS-R-25*                 | FRS-R-200 |
| FRS-R- $\frac{1}{2}$    | FRS-R-3- $\frac{1}{2}$   | FRS-R-30*                 | FRS-R-225 |
| FRS-R- $\frac{3}{4}$    | FRS-R-4                  | FRS-R-35*                 | FRS-R-250 |
| FRS-R- $\frac{1}{2}$    | FRS-R-4- $\frac{1}{2}$   | FRS-R-40*                 | FRS-R-300 |
| FRS-R- $\frac{3}{4}$    | FRS-R-5                  | FRS-R-45*                 | FRS-R-350 |
| FRS-R-1                 | FRS-R-5- $\frac{1}{2}$   | FRS-R-50*                 | FRS-R-400 |
| FRS-R-1- $\frac{1}{8}$  | FRS-R-6*                 | FRS-R-60*                 | FRS-R-450 |
| FRS-R-1- $\frac{1}{4}$  | FRS-R-6- $\frac{1}{4}$ * | FRS-R-65                  | FRS-R-500 |
| FRS-R-1- $\frac{3}{8}$  | FRS-R-7*                 | FRS-R-70                  | FRS-R-600 |
| FRS-R-1- $\frac{1}{2}$  | FRS-R-7- $\frac{1}{2}$ * | FRS-R-75                  |           |
| FRS-R-1- $\frac{3}{4}$  | FRS-R-8*                 | FRS-R-80                  |           |
| FRS-R-1- $\frac{9}{16}$ | FRS-R-9*                 | FRS-R-90                  |           |

\*Available with indication. To order, place "ID" at the end of the catalog number. Example: FRS-R-7ID.

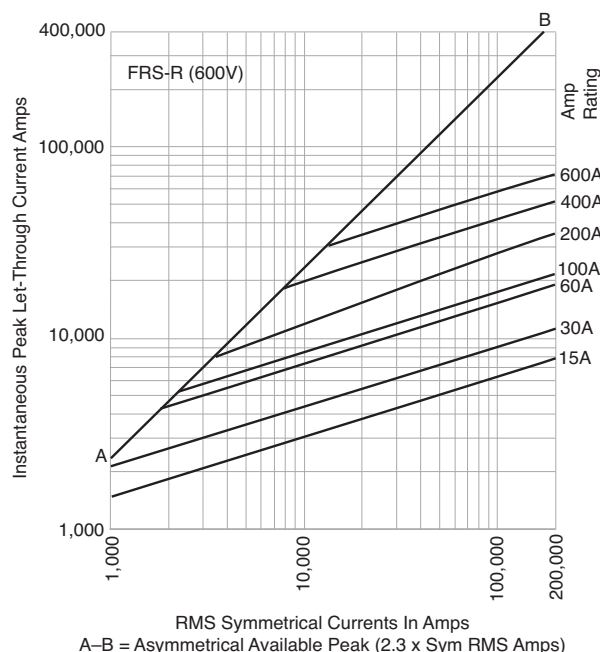
For superior electrical protection, Cooper Bussmann recommends upgrading FRS-R fuse applications to Low-Peak LPS-RK fuses. See page 29.

**Data Sheet: 1017 ( $\frac{1}{10}$ -60), 1018 (65-600)**  
**Data Sheet: 1070 (6-60) FRS-R with Indication**

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



#### Current Limitation Curves



#### Recommended Fuse Holders & Blocks For Class RK5 Fuses

- See page 13

#### Recommended Fuse Reducers For Class R Fuses

- See page 14

# Mouser Electronics

Authorized Distributor

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