

Fusetron® Dual-element, Time-delay Fuses

Branch Circuit Fuses

FRN-R (250V) Class RK5

Specifications

Description: Dual-element, time-delay fuse – 10 seconds (minimum) at 500% rated amps (8 seconds for 0-30A sizes). Available with indication on select ratings (see Catalog Numbers table).

Dimensions: See page 15 for Class RK5 dimensions.

Ratings:

- Volts — 250Vac (or less)
- 125Vdc ($\frac{1}{10}$ -60A, 110-200A)
- 250Vdc (225-600A)
- Amps — $\frac{1}{10}$ -600A
- IR — 200kA RMS Sym.
- 20kA DC



Available With Indication

Agency Information: CE, Std. 248-12, Class RK5, UL Listed, Guide JDDZ, File E4273, CSA Certified, Class 1422-01, File 53787.

Features and Benefits

- Separate overload and short-circuit elements provide time delay for sizing as close as 125% of motor FLA.
- 2:1 selective coordination amp ratio (within the Cooper Bussmann RK5 fuse family) prevents overcurrent events from opening upstream Fusetron fuses.
- Insulated end caps for 225A-600A fuses reduces exposure to live parts and extends air gap to distance between blades of adjacent mounted fuses or to housing.

Typical Applications

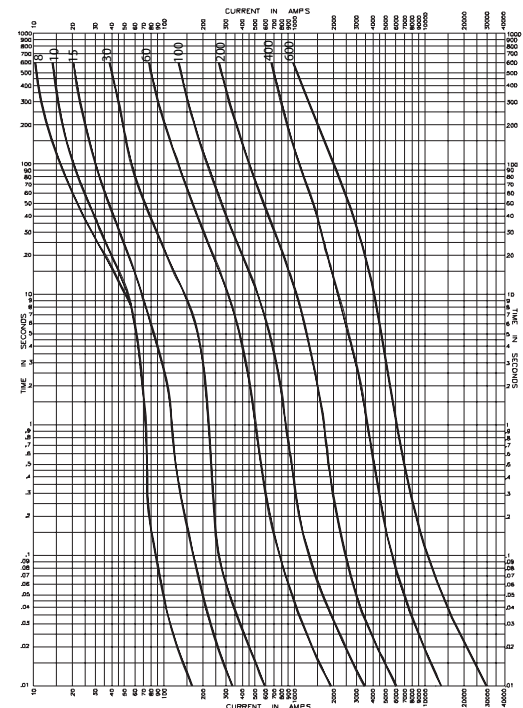
- Power Panelboards
- Motor Control Centers
- Combination Starters
- Machinery Disconnects

Catalog Numbers (Amps)

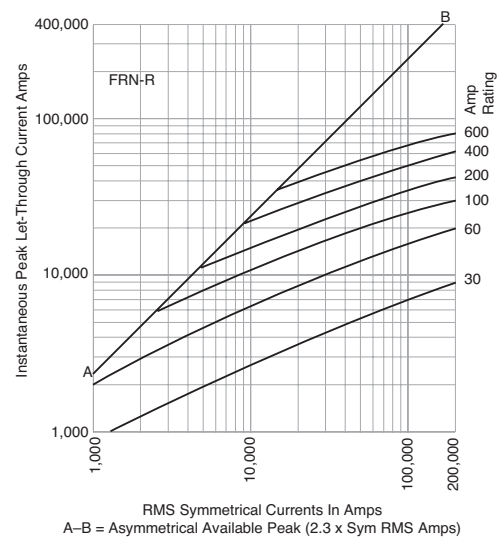
FRN-R- $\frac{1}{10}$	FRN-R-2	FRN-R-10*	FRN-R-100
FRN-R- $\frac{1}{8}$	FRN-R-2- $\frac{1}{4}$	FRN-R-12*	FRN-R-110
FRN-R- $\frac{1}{4}$	FRN-R-2- $\frac{1}{2}$	FRN-R-15*	FRN-R-125
FRN-R- $\frac{3}{16}$	FRN-R-2- $\frac{3}{16}$	FRN-R-17- $\frac{1}{2}$ *	FRN-R-150
FRN-R- $\frac{1}{4}$	FRN-R-3	FRN-R-20*	FRN-R-175
FRN-R- $\frac{3}{16}$	FRN-R-3- $\frac{3}{16}$	FRN-R-25*	FRN-R-200
FRN-R- $\frac{1}{4}$	FRN-R-3- $\frac{1}{2}$	FRN-R-30*	FRN-R-225
FRN-R- $\frac{1}{2}$	FRN-R-4	FRN-R-35*	FRN-R-250
FRN-R- $\frac{3}{8}$	FRN-R-4- $\frac{1}{2}$	FRN-R-40*	FRN-R-300
FRN-R- $\frac{1}{2}$	FRN-R-5	FRN-R-45*	FRN-R-350
FRN-R-1	FRN-R-5- $\frac{1}{10}$	FRN-R-50*	FRN-R-400
FRN-R-1- $\frac{1}{8}$	FRN-R-6	FRN-R-60*	FRN-R-450
FRN-R-1- $\frac{1}{4}$	FRN-R-6- $\frac{1}{4}$	FRN-R-70	FRN-R-500
FRN-R-1- $\frac{3}{8}$	FRN-R-7	FRN-R-75	FRN-R-600
FRN-R-1- $\frac{1}{2}$	FRN-R-7- $\frac{1}{2}$	FRN-R-80	
FRN-R-1- $\frac{3}{4}$	FRN-R-8*	FRN-R-85	
FRN-R-1- $\frac{1}{2}$	FRN-R-9*	FRN-R-90	

*Available with indication. To order, place "ID" at the end of the catalog number.

Time-Current Characteristic Curves—Average Melt



Current Limitation Curves



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

Recommended Fuse Holders & Blocks For Class RK5 Fuses

- See page 13

Recommended Fuse Reducers For Class R Fuses

- See page 14

Data Sheets: 1019 (0-60) and 1020 (70-600)
Data Sheet: 1169 (8-60) FRN-R with indication