

Fusetron®

Dual-Element, Time-Delay Fuses

Class RK5 – 250 Volt

FRN-R
70-600A



Catalog Symbol: FRN-R †

Current-Limiting

Dual-element, time-delay – 10 seconds (minimum) at 500% rated current

Amp Rating: 70 to 600A

Voltage Rating:

- 250Vac (or less)
- 125Vdc (110-200A)
- 250Vdc (225-600A)

Interrupting Rating:

- 200,000A RMS Sym.
- 20,000A dc

Agency Information:

CE, UL Listed, Std. 248-12, Class RK5, Guide JDDZ, File E4273
CSA Certified, C22.2 No. 248.12, Class 1422-01, File 53787

Catalog Numbers - Amp Rating

FRN-R-70	FRN-R-125	FRN-R-350
FRN-R-75	FRN-R-150	FRN-R-400
FRN-R-80	FRN-R-175	FRN-R-450
FRN-R-85	FRN-R-200	FRN-R-500
FRN-R-90	FRN-R-225	FRN-R-600
FRN-R-100	FRN-R-250	—
FRN-R-110	FRN-R-300	—

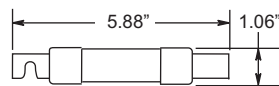
Carton Quantity and Weight

Amp Ratings	Carton Qty.	Weight*	
		Lbs.	Kg.
70-100	5	1.5	0.680
101-200	1	0.77	0.349
201-400	1	1.52	0.689
401-600	1	3.0	1.4

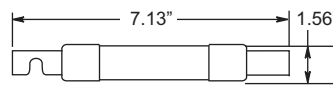
*Weight per carton.

† To obtain information for 0-60A, access Data Sheet: 1019 or 1169 (8-60A with indication)

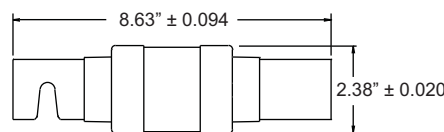
Dimensions - in



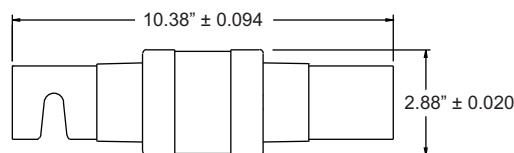
70 to 100A



110 to 200A



225 to 400A



450 to 600A

General Information:

- Provides motor overload, ground fault and short-circuit protection.
- Helps protect motors against burnout from overloads and single-phasing when sized properly.
- Simplifies and improves blackout prevention (selective coordination).
- Dual-element fuses can be applied in circuits subject to temporary motor overloads and surge currents to provide both high performance short-circuit and overload protection.
- The overload element provides protection against low level overcurrent of overloads and will hold on inrush current which is five times greater than the amp rating of the fuse for a minimum of ten seconds.

Fuse Reducers For Class R Fuses

Equipment Fuse Clips	Desired Fuse (Case) Size	Catalog Number (Pairs) 250V
200A	100A	No. 2621-R
	100A	No. 2641-R
400A	200A	No. 242-R
	100A	No. 2661-R
600A	200A	No. 2662-R
	400A	No. 2664-R*

*Single reducer only (pair not required).

Class RK5 Fuse Blocks (250V) Catalog Data

(Clip Retaining Spring Standard, Suffix "R")

Terminal Type (Suffix No.)

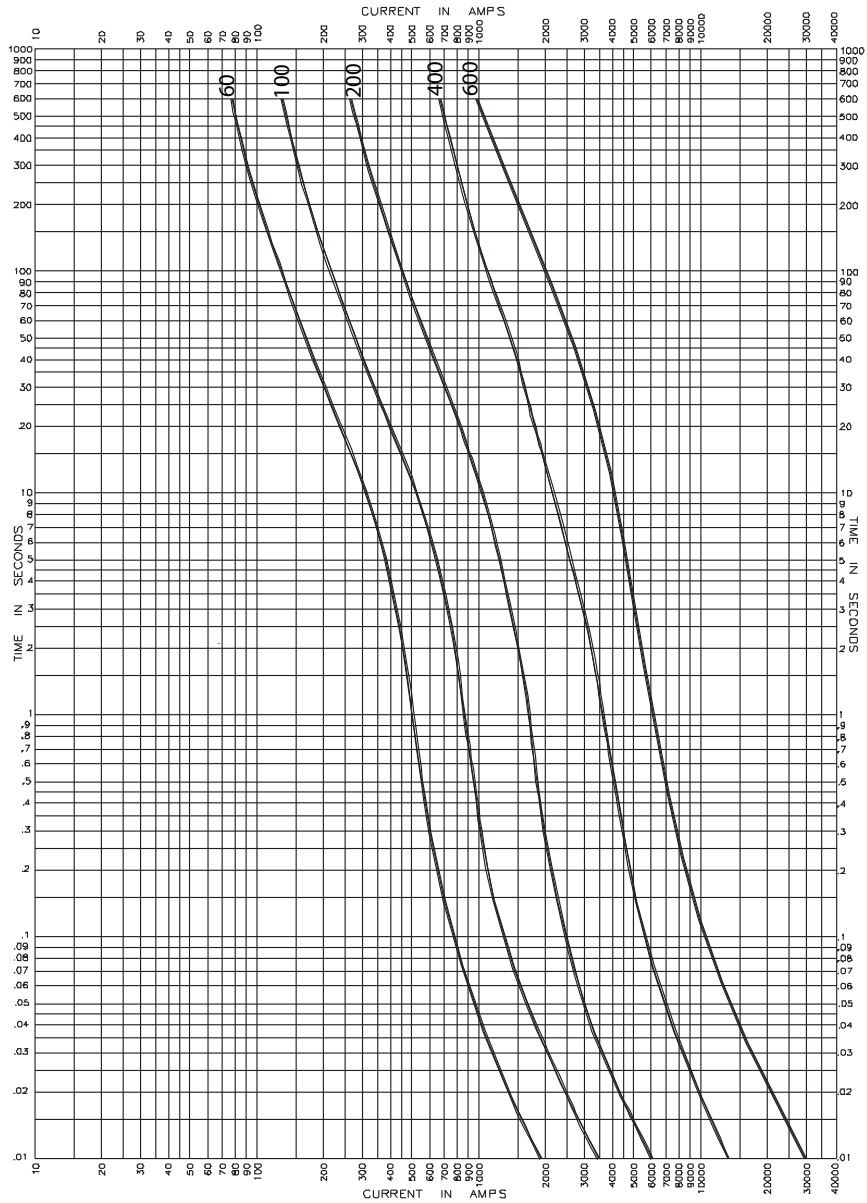
Basic Box Lug w/

Amps	Poles	Catalog Number	— Reinforced Clip	CU only
70	1	R25100-1	CR	COR
to	2	R25100-2	CR	COR
100	3	R25100-3	CR	COR
110 to 200	1	R25200-1	CR	—
	3	R25200-3	CR	—
225 to 400	1	R25400-1	CR	—
	3	R25400-3	CR	—
450 to 600	1	R25600-1	CR	—
	3	R25600-3	CR	—



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

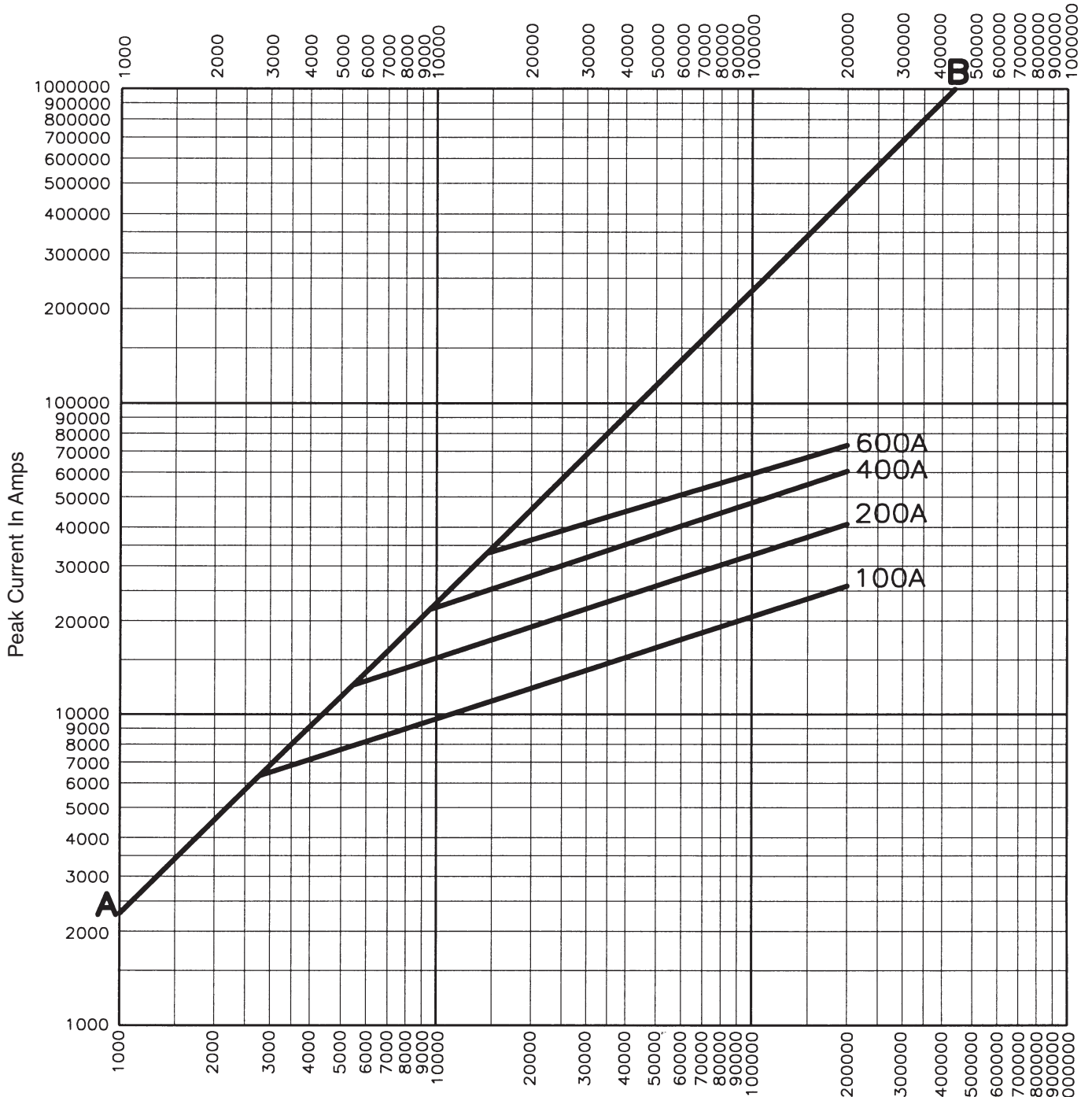
Time-Current Characteristic Curves—Average Melt



Form 250 Rev. A

Note: 60 amp fuse is ferrule style. Curve is shown for relative performance only.

Current-Limitation Curves



RMS Symmetrical Currents In Amps
 A-B=Asymmetrical Available Peak (2.3 x Symm RMS Amps)

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