

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

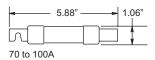
FRN-R-70	FRN-R-125	FRN-R-350
FRN-R-75	FRN-R-150	FRN-R-400
FRN-R-80	FRN-R-175	FRN-R-450
FRN-R-85	FRN-R-200	FRN-R-500
FRN-R-90	FRN-R-225	FRN-R-600
FRN-R-100	FRN-R-250	_
FRN-R-110	FRN-R-300	_

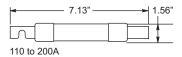
Carton Quantity and Weight

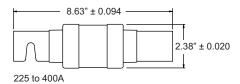
Amp Ratings	Carton Qty.	Weight*	
		Lbs.	Kg.
70–100	5	1.5	0.680
101–200	1	0.77	0.349
201–400	1	1.52	0.689
401–600	1	3.0	1.4

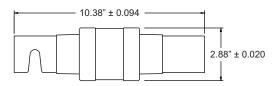
^{*}Weight per carton.

Dimensions - in









General Information:

450 to 600A

- 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

ruse neducers ror olass it ruses				
Equipment	Desired Fuse	Catalog Number		
Fuse Clips	(Case) Size	(Pairs) 250V		
200A	100A	No. 2621-R		
400A —	100A	No. 2641-R		
400A —	200A	No. 242-R		
	100A	No. 2661-R		
600A	200A	No. 2662-R		
_	400A	No. 2664-R*		

Data Sheet 1020



0709 BU-SB08920 Page 1 of 3

[†] To obtain information for 0-60A, access Data Sheet: 1019 or

^{1169 (8-60}A with indication)

^{*}Single reducer only (pair not required).

Class RK5 Fuse Blocks (250V) Catalog Data

(Clip Retaining Spring Standard, Suffix "R")

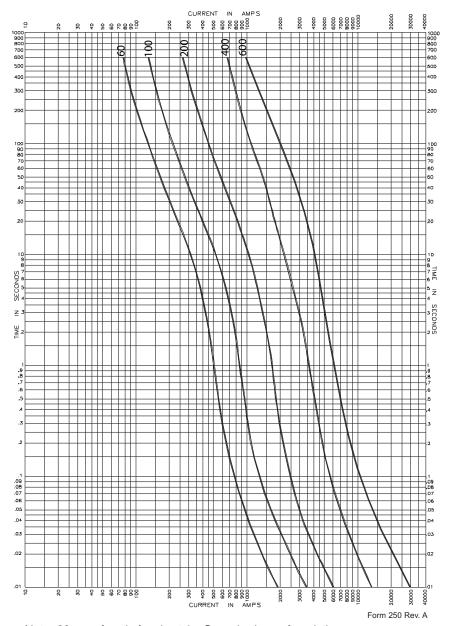
Terminal Type (Suffix No.) Basic Box Lug w/

		Catalog	_	Reinforced Clip
<u>Amps</u>	<u>Poles</u>	<u>Number</u>		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

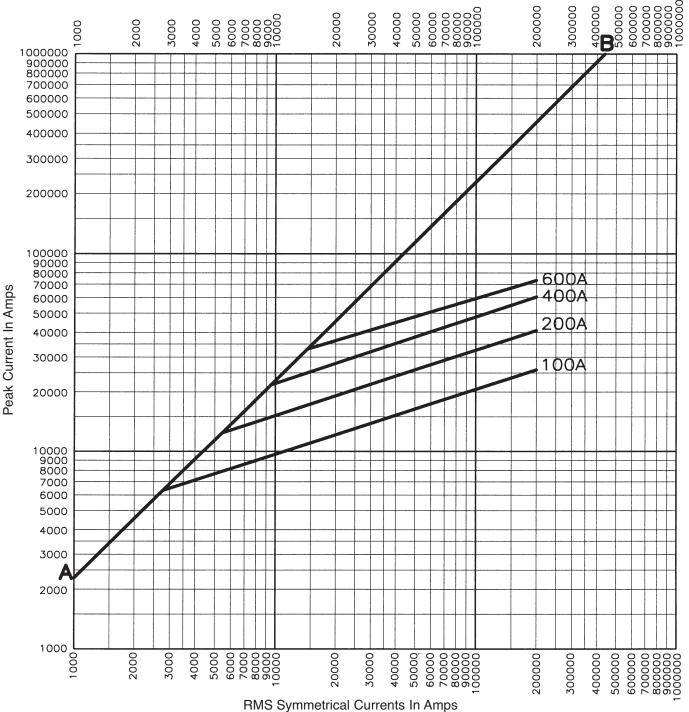
Time-Current Characteristic Curves-Average Melt



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

COOPER Bussmann Data Sheet 1020 0709 BU-SB08920 Page 2 of 3

Current-Limitation Curves



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

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0709 BU-SB08920

Page 3 of 3 Data Sheet 1169 GOOPER Bussmann