

Fusetron®

Dual-Element, Time-Delay Fuses

Class RK5 - 250 Volt

FRN-R
1/10-60A



Catalog Symbol: FRN-R

Current-Limiting

Dual-Element, Time-Delay – 10 seconds (minimum) at 500% rated current (8 seconds for 0-30A sizes)

Ampere Rating: 1/10 to 60 Amperes

Voltage Rating: 250Vac (or less)

Interrupting Rating: 200,000A RMS Sym.

DC Ratings: 20,000 AIC @ 125Vdc

Agency Information:

UL Listed, Std. 248-12, Class RK-5, Guide JDDZ, File E4273
CSA Certified, C22.2 No. 248.12, Class 1422-01, File 53787

Catalog Numbers

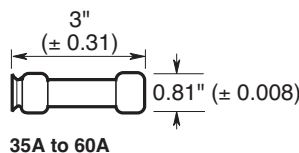
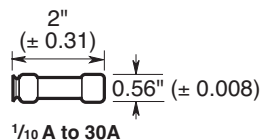
FRN-R-1/10	FRN-R-1 1/10	FRN-R-8
FRN-R-1/8	FRN-R-2	FRN-R-9
FRN-R-1/4	FRN-R-2 1/4	FRN-R-10
FRN-R-3/8	FRN-R-2 1/2	FRN-R-12
FRN-R-1/2	FRN-R-2 3/4	FRN-R-15
FRN-R-5/8	FRN-R-3	FRN-R-17 1/2
FRN-R-3/4	FRN-R-3 3/4	FRN-R-20
FRN-R-7/8	FRN-R-3 1/2	FRN-R-25
FRN-R-1	FRN-R-4	FRN-R-30
FRN-R-1 1/8	FRN-R-4 1/2	FRN-R-35
FRN-R-1 1/4	FRN-R-5	FRN-R-40
FRN-R-1 1/2	FRN-R-5 1/4	FRN-R-45
FRN-R-1 3/4	FRN-R-6	FRN-R-50
FRN-R-2	FRN-R-6 1/4	FRN-R-60
FRN-R-2 1/4	FRN-R-7	—
FRN-R-2 1/2	FRN-R-7 1/2	—

Carton Quantity and Weight

Ampere Ratings	Carton Qty.	Weight*	
		Lbs.	Kg.
0-15	10	0.40	0.181
17.5-30	10	0.50	0.227
35-60	10	1.00	0.453

*Weight per carton.

Dimensional Data



General Information:

- Provides motor overload, ground fault and short-circuit protection.
- Helps protect motors against burnout from overloads.
- Helps protect motors against burnout from single phasing on three phase systems.
- 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 an overload which is five times greater than the ampere 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
60A	30A	No. 263-R
100A	30A	No. 213-R
	60A	No. 216-R
200A	60A	No. 226-R

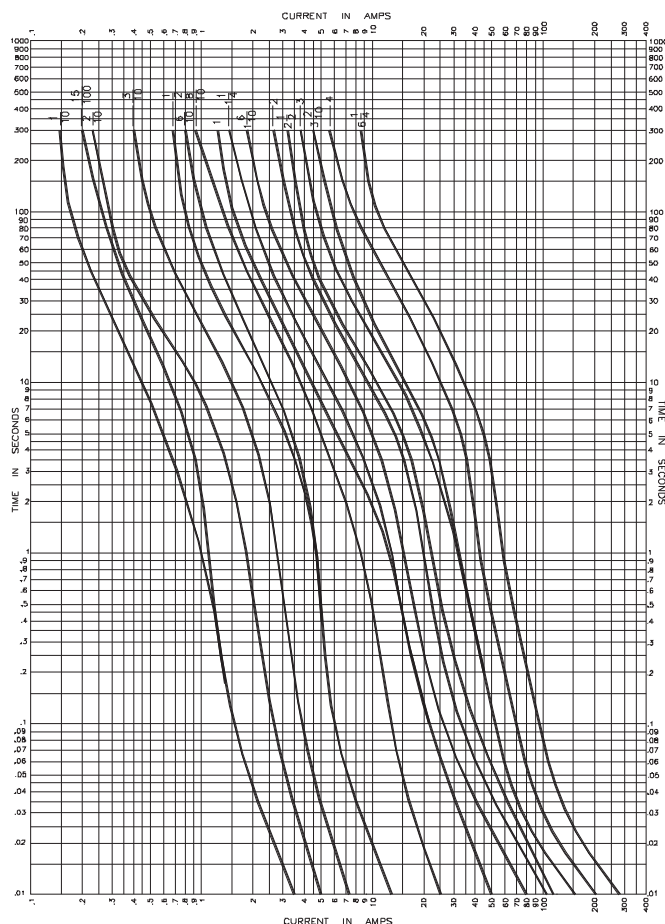
Fuseblocks for Class R Fuses

(Clip Retaining Spring Standard, Suffix "R")

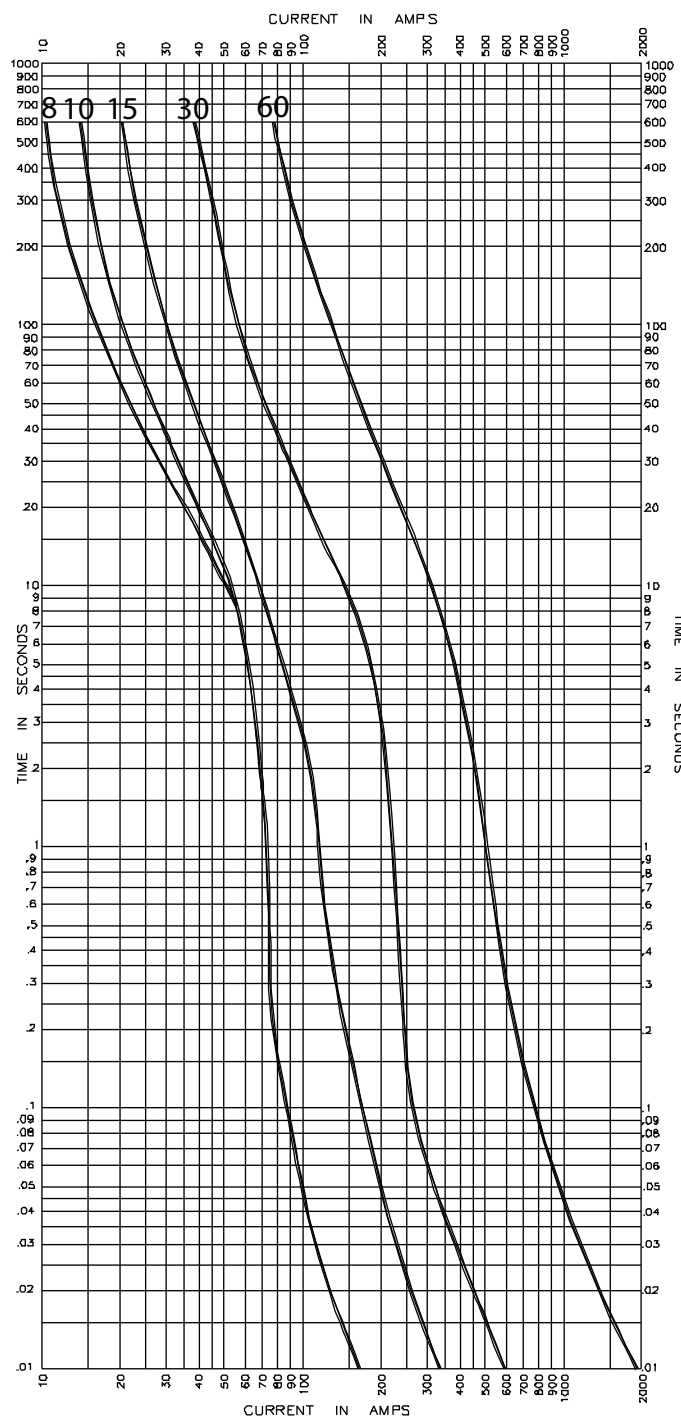
See Data Sheet 1110

Amps	Poles	Basic Catalog Number	Terminal Type (Suffix No.)				
			Screw w/		Box Lug w/		Quick-Connect
			—	Pres. Plate	—	Clip CU only	
1/10	1	R25030-1	SR	PR	CR	COR	QR
to	2	R25030-2	SR	PR	CR	COR	—
30	3	R25030-3	SR	PR	CR	COR	—
31	1	R25060-1	SR	—	CR	—	—
to	2	R25060-2	SR	—	CR	—	—
60	3	R25060-3	SR	—	CR	—	—

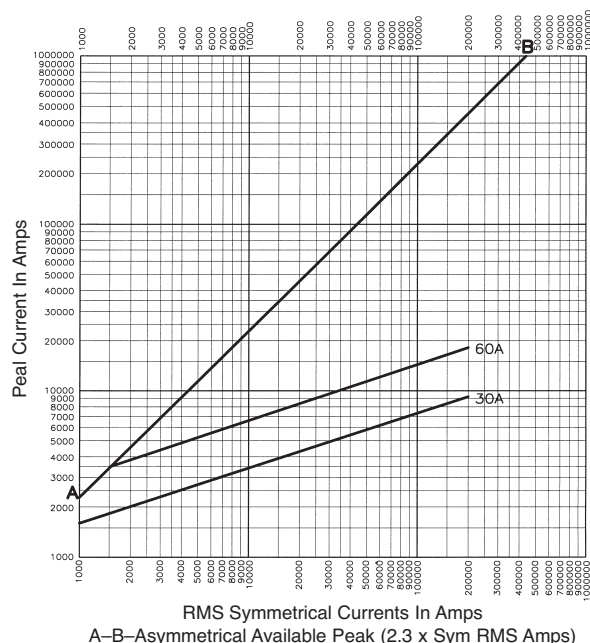
Time-Current Characteristic Curves—Average Melt



Time-Current Characteristic Curves—Average Melt



Current-Limitation Curve



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AMEYA360

Components Supply Platform

Authorized Distribution Brand :



Website :

Welcome to visit www.ameya360.com

Contact Us :

➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd
Minhang District, Shanghai , China

➤ Sales :

Direct +86 (21) 6401-6692

Email amall@ameya360.com

QQ 800077892

Skype ameyasales1 ameyasales2

➤ Customer Service :

Email service@ameya360.com

➤ Partnership :

Tel +86 (21) 64016692-8333

Email mkt@ameya360.com