

Fusetron™ FRN-R Class RK5 250Vac/125Vdc 1/10-60A, dual element, time-delay fuses



Catalog symbols:

- · FRN-R- (non-indicating)
- · FRN-R-_ID (indicating)

Description:

Eaton Bussmann® series advanced protection, energy efficient FRN-R Class RK5 dual element, current-limiting, time-delay fuses with optional open fuse indication on select ratings. Time-delay – 10 seconds (minimum) at 500% of rated current (8 seconds for 1/10-30A sizes).

Specifications:

Ratings

- Volts
 - 250Vac
 - 125Vdc
- · Amps 1/10-60A
- · Interrupting rating
 - 200kA Vac RMS Sym.
 - 20kA Vdc

Agency information

- UL Listed, Std. 248-12, Class RK-5, Guide JDDZ, File E4273
- CSA Certified, C22.2 No. 248.12, Class 1422-02, File 53787
- · CE



Catalog numbers (amps) — non-indictaing fuses				
FRN-R-1/10	FRN-R-1-8/10	FRN-R-8*		
FRN-R-1/8	FRN-R-2	FRN-R-9*		
FRN-R-15/100	FRN-R-2-1/4	FRN-R-10*		
FRN-R-2/10	FRN-R-2-1/2	FRN-R-12*		
FRN-R-1/4	FRN-R-2-8/10	FRN-R-15*		
FRN-R-3/10	FRN-R-3	FRN-R-17-1/2*		
FRN-R-4/10	FRN-R-3-2/10	FRN-R-20*		
FRN-R-1/2	FRN-R-3-1/2	FRN-R-25*		
FRN-R-6/10	FRN-R-4	FRN-R-30*		
FRN-R-8/10	FRN-R-4-1/2	FRN-R-35*		
FRN-R-1	FRN-R-5	FRN-R-40*		
FRN-R-1-1/8	FRN-R-5-6/10	FRN-R-45*		
FRN-R-1-1/4	FRN-R-6	FRN-R-50*		
FRN-R-1-4/10	FRN-R-6-1/4	FRN-R-60*		
FRN-R-1-1/2	FRN-R-7			
FRN-R-1-6/10	FRN-R-7-1/2			

 $^{^{\}ast}$ Open fuse indication available by inserting the sufix "ID." E.g., FRN-R-15ID.

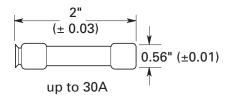
Carton Quantity:

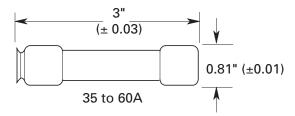
Amp rating	Carton qty.
1/10 – 60	10

Features:

- 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

Dimensions - in:





Recommended fuse blocks:

Fuse amps	1-pole	2-pole	3-pole
up to 30	RM25030-1_	RM25030-2_	RM25030-3_
35 to 60	RM25060-1CR	RM25060-2CR	RM25060-3CR

For additional information see data sheet no. 10289.

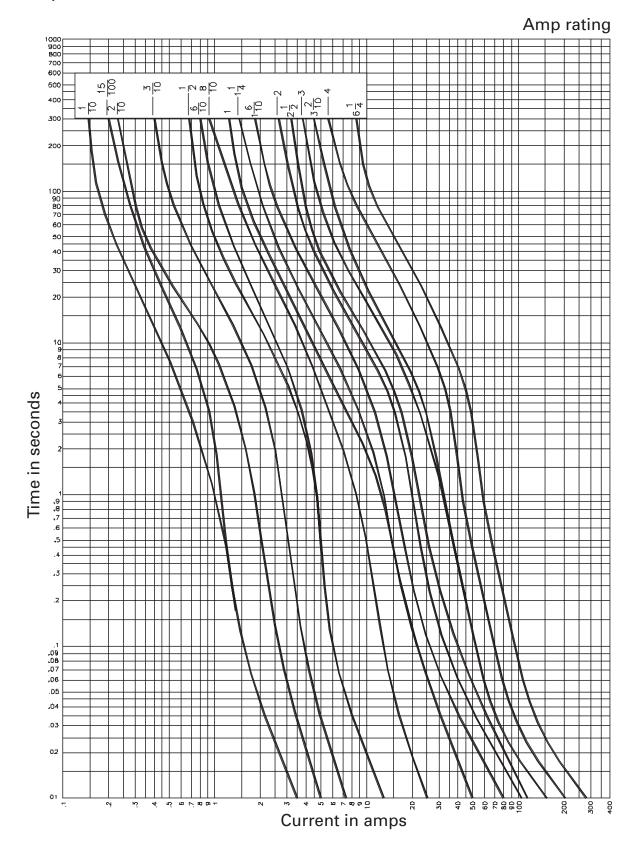
Fuse reducers for Class R fuses

Fuer size	Amp size of fuse block or disconnect switch	Catalog no.
Fuse size	SWITCH	(pairs)
Up to 30A	60A	No.263-R
Up to 30A	_ 1004	No.213-R
35 to 60A	– 100A	No.216-R
35 to 60A	200A	No.226-R

For additional information on Class R fuse reducers, see data sheet no 1118.

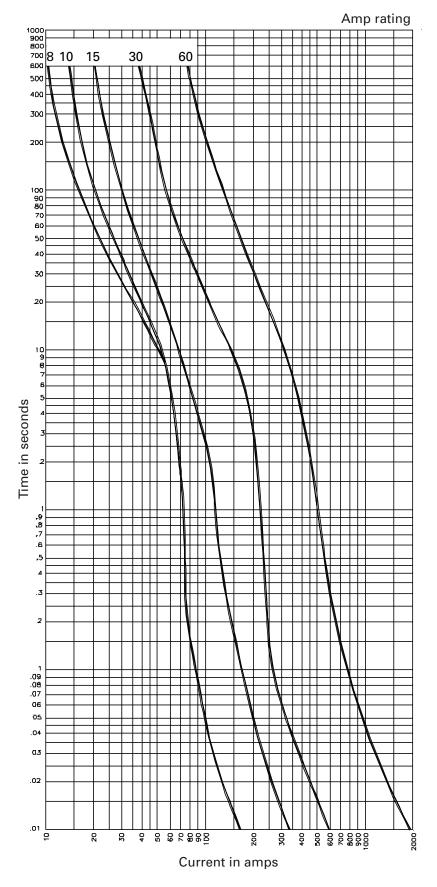
Time-current curves — average melt:

1/10 to 6-1/4 amps

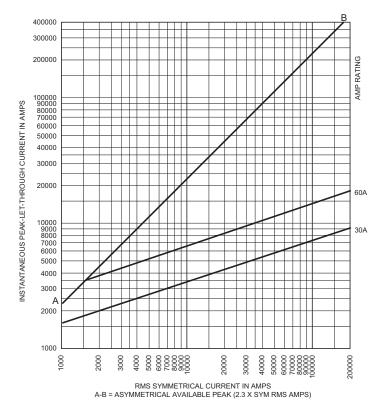


Time-current curves — average melt:

8 to 60 amps



Current-limitation curves:



Current-limiting effects:

Prosp. S.C.C.	Let-through current (apparent RMS Sym. vs. fuse rating)	
_	30A	60A
5000	1000	2000
10,000	2000	3000
15,000	2000	3000
20,000	2000	4000
25,000	2000	4000
30,000	2000	4000
35,000	2000	4000
40,000	2000	5000
50,000	3000	5000
60,000	3000	5000
70,000	3000	6000
80,000	3000	6000
90,000	3000	6000
100,000	3000	6000
150,000	4000	7000
200,000	4000	8000

FRN-R Class RK5 250Vac/125Vdc 1/10-60A, dual element, time-delay fuses

The only controlled copy of this data sheet is the electronic read-only version located on the Eaton network drive. All other copies of this document are by definition uncontrolled. This bulletin is intended to clearly present comprehensive product data and provide technical information that will help the end user with design applications. Eaton reserves the right, without notice, to change design or construction of any products and to discontinue or limit distribution of any products. Eaton also reserves the right to change or update, without notice, any technical information contained in this bulletin. Once a product has been selected, it should be tested by the user in all possible applications.

Eaton

1000 Eaton Boulevard Cleveland, OH 44122 Eaton.com

Bussmann Division 114 Old State Road Ellisville, MO 63021 United States Eaton.com/bussmannseries

© 2016 Eaton All Rights Reserved Printed in USA Publication No. 1019 — BU-SB13730 February 2016

Eaton, Bussmann and Fusetron are valuable trademarks of Eaton in the U.S. and other countries. You are not permitted to use the Eaton trademarks without prior written consent of Eaton.

For Eaton's Bussmann series product information, call 1-855-287-7626 or visit: Eaton.com/bussmannseries

Follow us on social media to get the latest product and support information.













X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Industrial & Electrical Fuses category:

Click to view products by Eaton manufacturer:

Other Similar products are found below:

MTH-4 MTH-8 BP/NON-30 NLN2 NLN25 KTN-R-10 LPS-RK-2SP ABU-35 FLSR100 BLF6 KLK003 LPS-RK-100 LPS-RK-15 LPS-RK-20 LPS-RK-70 LPS-RK-90 NLS10 FRN-R-30ID FRS-R-20ID KLK015 CHSF-80 LDFJ350.X FUSE 5A/32V FK-1 381280 384515 381050 491335 492138 004184220 004184223 004184228 004185224 004181214 3050611.0,5 432001 BAF-4 FRN-R-600 MIC-20 BBS-4/10 BBS-3/4 BBS-1/2 C10G32 C10M20 JJN-100 JJN-15 JJN-60L KRP-C-700SP KTK-R-1-1/2 3RU1136-1KB0 LP-CC-12