FUSETRON™ 600V Class RK5



FRS-R — 600Vac/300Vdc, 1/10-60A, Dual Element, Time-Delay Fuses



Description: Advanced protection, energy efficient Class RK5 dual element, current-limiting, time-delay fuses with optional open fuse indication on select ratings.

Time-delay – 10 second (minimum) at 500% of rated current.

Catalog Symbol: FRS-R-(amp) (non-inducating) FRS-R-(amp)ID (indicating

Ratings:

Volts - 600Vac, 300Vdc (1/10-30A)

- 600Vac, 250Vdc (35-60A)

Amps - 1/10-60A

IR - 200kA Vac RMS Sym.

- 20kA Vdc

Agency Information:

CE, UL Listed, Std. 248-12, Class RK5, Guide JDDZ, File E4273

CSA Certified, C22.2 No. 248.12, Class 1422-02, File 53787

Catalog Numbers (amps) — Non-indictaing fuses

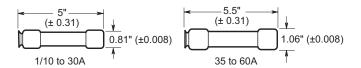
FRS-R-1/10	FRS-R-1%	FRS-R-8*
FRS-R-1/8	FRS-R-2	FRS-R-9*
FRS-R-15/100	FRS-R-21/4	FRS-R-10*
FRS-R-%	FRS-R-2½	FRS-R-12*
FRS-R-1/4	FRS-R-2‰	FRS-R-15*
FRS-R-%	FRS-R-3	FRS-R-17½*
FRS-R-‰	FRS-R-3%	FRS-R-20*
FRS-R-½	FRS-R-3½	FRS-R-25*
FRS-R-%	FRS-R-4	FRS-R-30*
FRS-R-%	FRS-R-4½	FRS-R-35*
FRS-R-1	FRS-R-5	FRS-R-40*
FRS-R-1%	FRS-R-5%	FRS-R-45*
FRS-R-11/4	FRS-R-6*	FRS-R-50*
FRS-R-1‰	FRS-R-61/4*	FRS-R-60*
FRS-R-1½	FRS-R-7*	
FRS-R-1%	FRS-R-7½*	

Open fuse indication available by inserting the sufix "ID." E.g., FRS-R-15ID.

Carton Quantity and Weight

Amp Rating	Carton Qty.	
1/10−15	10	
17½–30	10	
35-60	10	

Dimensions - in



Features:

- Provides motor overload, ground fault and short-circuit protection. When used in circuits subject to surge currents such as those caused by motors, transformers and other inductive components, these fuses can be sized close to full-load amps to give maximum overcurrent protection.
- Permits the use of smaller and less costly switches. The time-delay feature makes it possible to use fuse amp ratings which are much smaller than those of non-time delay fuses. Considerable cost saving occurs by permitting the use of smaller size switches, panels and fuses themselves.
- Provides a higher degree of short-circuit protection (greater current-limitation) in circuits in which surge currents or temporary overloads occur.
- Helps protect motors against burnout from overloads
- Gives motor running back-up protection to motors without extra costs
- 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 amp rating of the fuse for a minimum of ten seconds

Recommended Fuse Blocks

Fuse Amps	1-Pole	2-Pole	3-Pole
0-30	R60030-1	R60030-2	R60030-3
35-60	R60060-1	R60060-2	R60060-3

For additional information on the R600 Series of 600 volt fuse blocks, see Data Sheet # 1111.

Fuse Reducers For Class R Fuses

Equipment	Desired Fuse	Catalog Numbers
Fuse Clips	(Case) Size	(Pairs) 600V
60A	30A	NO.663-R
100A -	30A	NO.216-R
	60A	NO.616-R
200A	60A	NO.626-R

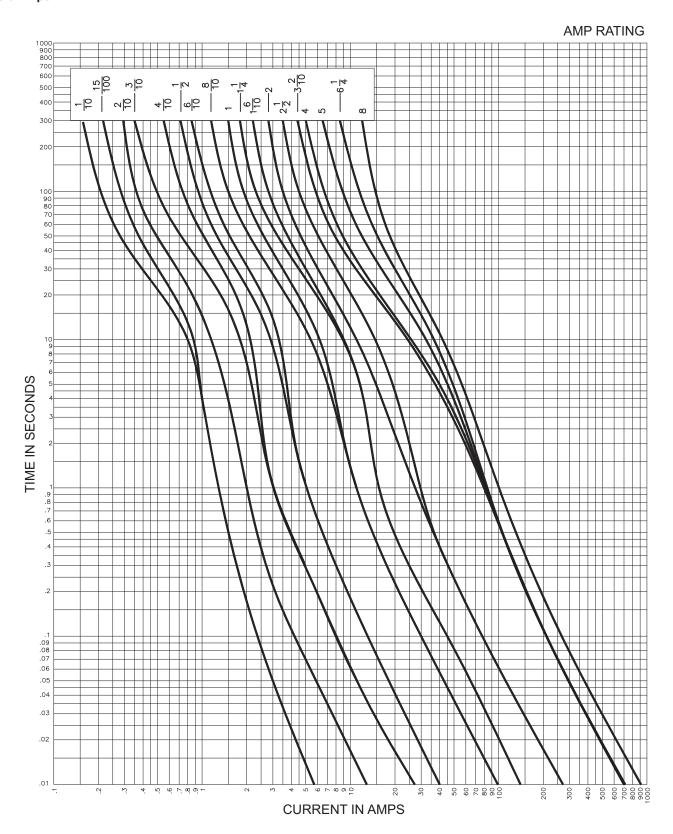
For additional information on Class R fuse reducers, see Data Sheet # 1118.

FUSETRON™ 600V Class RK5



FRS-R — 600Vac/300Vdc, 1/10-60A, Dual Element, Time-Delay Fuses

Time-Current Curves - Average Melt 1/2 to 8 Amps

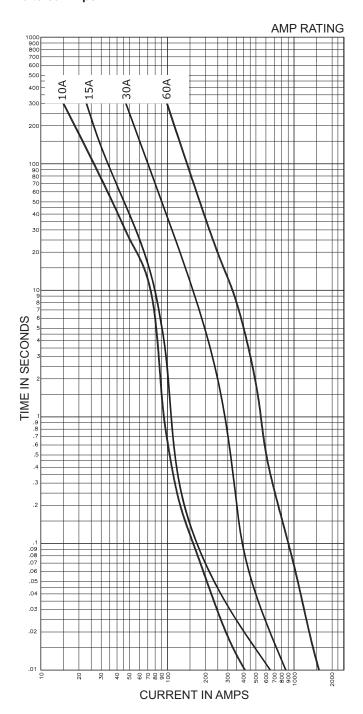


FUSETRON™ 600V Class RK5

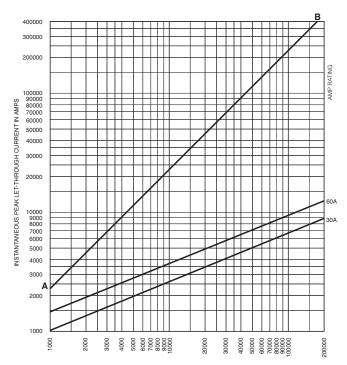


FRS-R - 600Vac/300Vdc, 1/10-60A, Dual Element, Time-Delay Fuses

Time-Current Curves - Average Melt 10 to 60 Amps



Current-Limitation Curves



PROSPECTIVE SHORT-CIRCUIT CURRENT - SYMMETRICAL RMS AMPS

Current-Limiting Effects

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Prosp.		Let-Through Current	
S.C.C.	(Apparent RMS Symm	(Apparent RMS Symmetrical Vs. Fuse Rating)	
	30A	60A	
5000	1000	1000	
10,000	1000	2000	
15,000	1000	2000	
20,000	2000	2000	
25,000	2000	2000	
30,000	2000	3000	
35,000	2000	3000	
40,000	2000	3000	
50,000	2000	3000	
60,000	2000	3000	
70,000	3000	4000	
80,000	3000	4000	
90,000	3000	4000	
100,000	3000	4000	
150,000	3000	5000	
200,000	4000	6000	

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