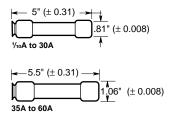
Fusetron® Dual-Element, Time-Delay Fuses Class RK5 – 600 Volt

FRS-R 1/10-60A



Dimensional Data



Catalog Symbol: FRS-R

Dual-Element, Time-Delay – 10 second (minimum) at 500% rated current

Current-Limiting

Ampere Rating: 1/10 to 60 Amperes

Voltage Rating: 600 Volts AC (or less)

Interrupting Rating: 200,000A RMS Sym.

DC Ratings (20,000AIC @ 250 VDC)

Agency Approvals:

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

FRS-R-1/10	FRS-R-1% ₁₀	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- ² / ₁₀	FRS-R-21/ ₂	FRS-R-12	
FRS-R-1/4	FRS-R-2% ₁₀	FRS-R-15	
FRS-R-3/10	FRS-R-3	FRS-R-171/2	
FRS-R-1/10	FRS-R-3 ² / ₁₀	FRS-R-20	
FRS-R-1/2	FRS-R-3½	FRS-R-25	
FRS-R-%10	FRS-R-4	FRS-R-30	
FRS-R-%10	FRS-R-4½	FRS-R-35	
FRS-R-1	FRS-R-5	FRS-R-40	
FRS-R-11/8	FRS-R-5% ₁₀	FRS-R-45	
FRS-R-11/4	FRS-R-6	FRS-R-50	
FRS-R-11/10	FRS-R-61/4	6¼ FRS-R-60	
FRS-R-1½	FRS-R-7	_	
FRS-R-1%10	FRS-R-7½	_	

Carton Quantity and Weight

Ampere Ratings	Carton Qty.	Weight*		
		Lbs.	Kg.	
½ ₁₀ –15	10	0.40	0.181	
17.5–30	10	0.50	0.277	
35-60	10	3.10	1.406	

^{*}Weight per carton.

General Information:

- 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 amperes to give maximum overcurrent protection.
- Permits the use of smaller and less costly switches. The timedelay feature makes it possible to use fuse ampere 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 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) 600V	
60A	30A	No. 663-R	
100A —	30A	No. 216-R	
100A —	60A	No. 616-R	
200A	60A	No. 626-R	

Class R Catalog Numbers (Clip Retaining Spring Standard, Suffix "R")

			Terminal Type (Suffix No.)			
		Basic	Screw	Screw w/		Box Lug w/
		Catalog	_	Pres.	_	Clip
Amps	Poles	Number		Plate		CU only
1/10	1	R60030-1	SR	PR	CR	COR
to	2	R60030-2	SR	PR	CR	COR
30	3	R60030-3	SR	PR	CR	COR
31	1	R60060-1	SR	_	CR	COR
to	2	R60060-2	SR	_	CR	COR
60	3	R60060-3	SR	_	CR	COR

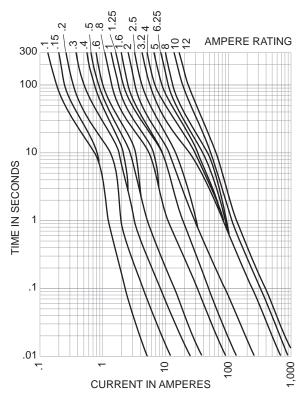
CE CE logo denotes compliance with European Union Low Voltage Directive (50-1000 VAC, 75-1500 VDC). Refer to BIF document #8002 or contact Bussmann Application Engineering at 314-527-1270 for more information.

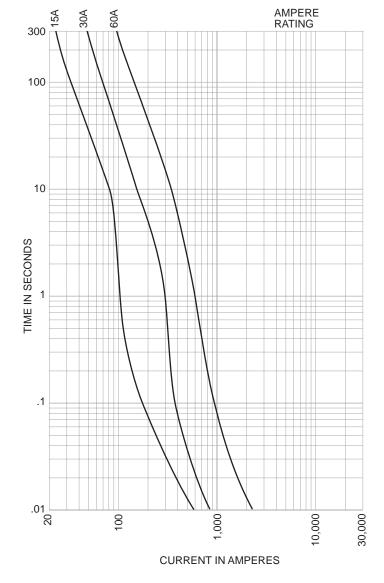
SB98107 Rev. A

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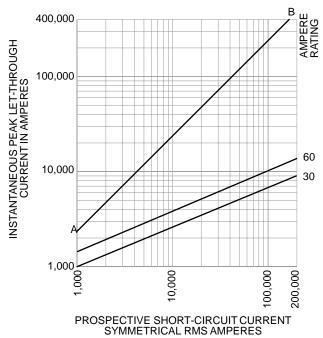
1/10-60A

Time-Current Characteristic Curves-Average Melt





Current-Limitation Curves



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