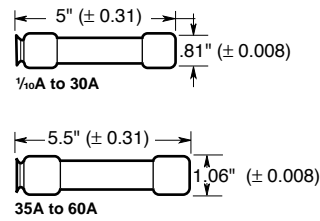


# Fusetron® Dual-Element, Time-Delay Fuses Class RK5 – 600 Volt

**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 60A  
Voltage Rating: 600Vac (or less)  
Interrupting Rating: 200,000A RMS Sym. dc Ratings (20,000AIC @ 250Vdc)  
Agency Information:  
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 1/10	FRS-R-8
FRS-R-1/8	FRS-R-2	FRS-R-9
FRS-R-15/100	FRS-R-2 1/4	FRS-R-10
FRS-R-2/10	FRS-R-2 1/2	FRS-R-12
FRS-R-1/4	FRS-R-2 9/10	FRS-R-15
FRS-R-3/10	FRS-R-3	FRS-R-17 1/2
FRS-R-4/10	FRS-R-3 3/10	FRS-R-20
FRS-R-1/2	FRS-R-3 1/2	FRS-R-25
FRS-R-9/10	FRS-R-4	FRS-R-30
FRS-R-9/10	FRS-R-4 1/2	FRS-R-35
FRS-R-1	FRS-R-5	FRS-R-40
FRS-R-1 1/8	FRS-R-5 9/10	FRS-R-45
FRS-R-1 1/4	FRS-R-6	FRS-R-50
FRS-R-1 1/10	FRS-R-6 1/4	FRS-R-60
FRS-R-1 1/2	FRS-R-7	—
FRS-R-1 9/10	FRS-R-7 1/2	—

### Carton Quantity and Weight

Ampere Ratings	Carton Qty.	Weight*	
		Lbs.	Kg.
1/10-15	10	0.40	0.181
17.5-30	10	0.50	0.277
35-60	10	3.10	1.406

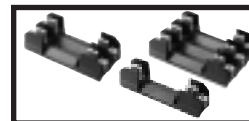
\*Weight per carton.

### 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 time-delay 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
	60A	No. 616-R
200A	60A	No. 626-R



Recommended fuseblocks for Class R 600V fuses  
See Data Sheet: 1111

CE CE logo denotes compliance with European Union Low Voltage Directive (50-1000Vac, 75-1500Vdc). Refer to Data Sheet: 8002 or contact Bussmann Application Engineering at 314-527-1270 for more information.

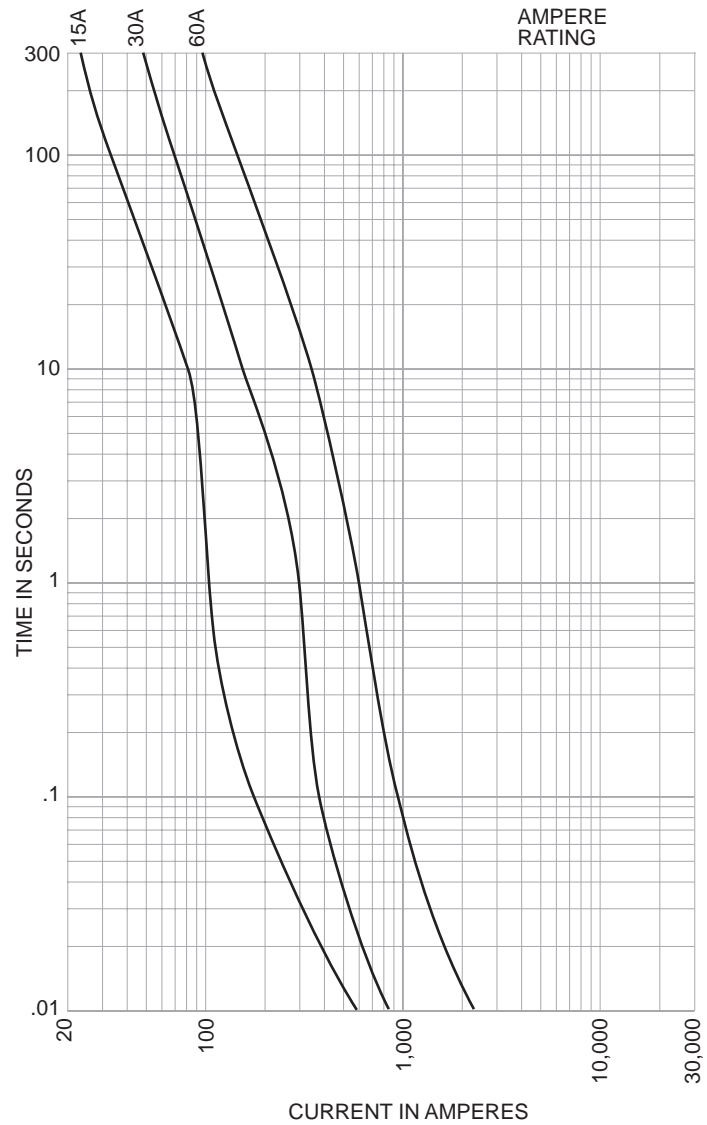
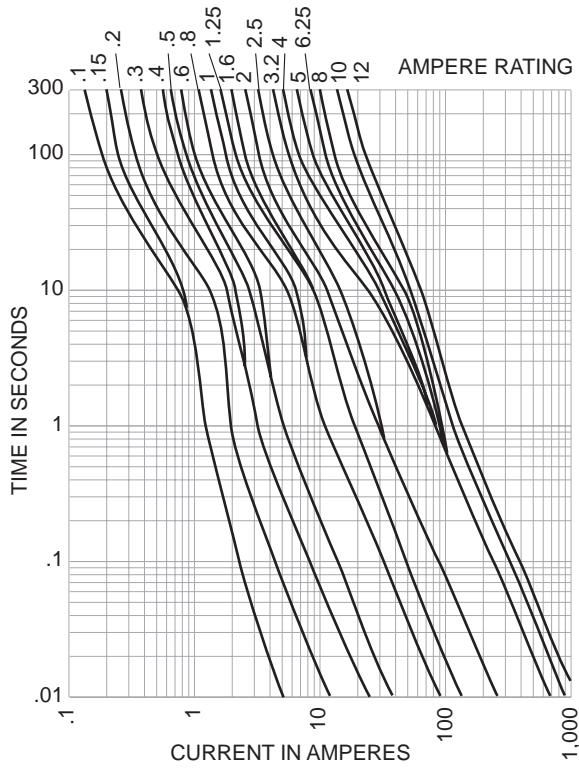
# Fusetron®

## Dual-Element, Time-Delay Fuses

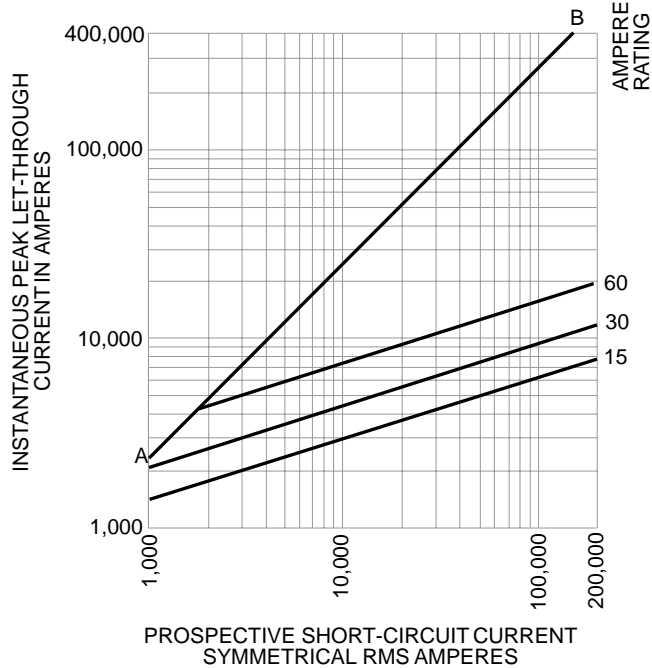
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Time-Current Characteristic Curves—Average Melt



Current-Limitation Curves



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