

Cooper Bussmann

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FRS-R-10

Class RK5, Dual-element, Time Delay

Product Information

| | |
|------------------|-----------------------------|
| Product Type: | Fuse |
| Product Family: | Electrical Power |
| Upgrade Product: | LPS-RK-10SP |
| Brand: | Cooper Bussmann |
| Sub-brand: | Fusetron |
| Class: | RK5 |

Recommended Products

| | |
|------------------|-------------------------------|
| Rec. Fuse Block: | R60030 Series |
| Rec. Cover: | SAMI-2 Series |

Physical Properties

| | |
|-------------|-----------------------------------|
| Dimensions: | 5in. (L) × 0.81in. (W) × 0in. (H) |
|-------------|-----------------------------------|

Certifications

- [UL Listed](#)
- [CSA Certified](#)

Electrical Properties

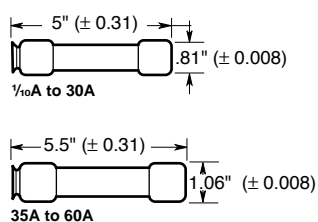
| | |
|--------------------------|--|
| Maximum AC Voltage: | 600 |
| Maximum DC Voltage: | 300 |
| Amperage Rating: | 10 |
| AC Interrupting Ratings: | <ul style="list-style-type: none"> • 200000 at 600V |
| DC Interrupting Ratings: | <ul style="list-style-type: none"> • 20000 at 300V |
| Fuse Class: | Class RK5 |
| Time Delay: | Yes |

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 |

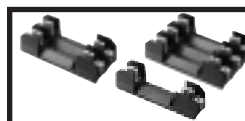
*Weight per carton.

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