

### Fusetron®

# FRS-R\_ID

# Dual-Element, Time-Delay Fuses with Indication Class RK5 - 600 Volt

6-60A



Now Available
With Optional
Indication



Catalog Symbol: FRS-R\_ID

**Current-Limiting** 

Dual-element, time-delay – 10 seconds (minimum) at 500% rated current

#### Ratings:

Volts - 600Vac (or less)

Amps - 6-60A

IR - 200kA RMS Sym.

- 20kA @250Vdc

#### **Agency Information:**

CE, UL Listed, Std. 248-12, Class RK-5, Guide JDDZ, File E4273 CSA Certified, C22.2 No. 248.12, Class 1422-01, File 53787

#### **Catalog Numbers**

| FRS-R-6ID     | FRS-R-10ID   | FRS-R-30ID |
|---------------|--------------|------------|
| FRS-R-6 1/4ID | FRS-R-12ID   | FRS-R-35ID |
| FRS-R-7ID     | FRS-R-15ID   | FRS-R-40ID |
| FRS-R-7 ½ID   | FRS-R-17 ½ID | FRS-R-45ID |
| FRS-R-8ID     | FRS-R-20ID   | FRS-R-50ID |
| FRS-R-9ID     | FRS-R-25ID   | FRS-R-60ID |

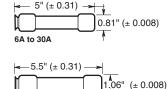
#### **Carton Quantity and Weight**

| Ampere<br>Ratings | Carton _<br>Qty. | Weight* |       |
|-------------------|------------------|---------|-------|
|                   |                  | Lbs.    | Kg.   |
| 6–15              | 10               | 0.40    | 0.181 |
| 17.5–30           | 10               | 0.50    | 0.277 |
| 35-60             | 10               | 3.10    | 1.406 |

<sup>\*</sup>Weight per carton

35A to 60A

#### **Dimensional Data**



#### **General Information:**

- Permanent replacement fuse indication.
- 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 fullload amps to give maximum overcurrent protection.
- Permits the use of smaller and less costly switches. The timedelay feature makes it possible to use fuse amp ratings which are much smaller than those of non-time-delay fuses.
   Considerable cost savings occurs by permitting the use of smaller size switches, panels and fuses.
- 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 (via 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 the amp rating of the fuse for a minimum of ten seconds.

#### **Fuse Reducers For Class R Fuses**

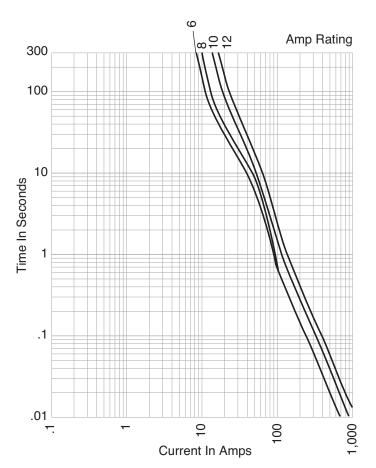
| Desired<br>Fuse (Case)<br>Size | Catalog Number<br>(Pairs)<br>600V        |
|--------------------------------|--|
| 30A                            | No. 663-R                                |
| 30A                            | No. 216-R                                |
| 60A                            | No. 616-R                                |
| 60A                            | No. 626-R                                |
|                                | Fuse (Case)<br>Size<br>30A<br>30A<br>60A |

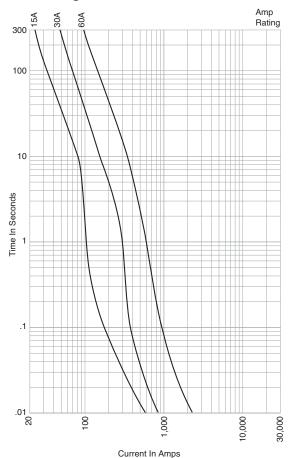


Recommended fuseblocks for Class R 600V fuses See Data Sheet: 1111

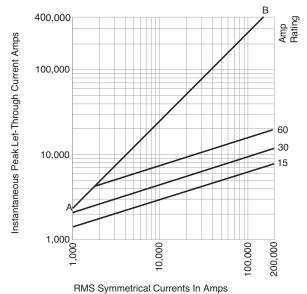
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#### **Time-Current Characteristic Curves-Average Melt**





#### **Current-Limitation Curves**



A-B = Asymmetrical Available Peak (2.3 x Sym RMS Amps)

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**Authorized Distributor** 

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