

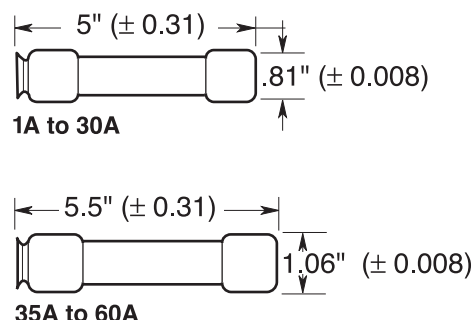
# ECSR

## Class RK5 600Vac, 1 to 60A

### Dual-Element, Time-Delay Fuses



#### Dimensions (inches)



#### Catalog Symbol: ECSR

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

Current-Limiting

**Volts:** 600Vac (or less)

**Amps:** 1 to 60A

**IR:** 200kA RMS Sym.

**Agency Information:** CE, UL Listed, Std. 248-12, Class RK5, Guide JDDZ, File E162363 CSA Certified, HRCI-R C22.2 No. 248.12, Class 1422-02, File 53787

#### 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.

#### Catalog Numbers (amps)

|       |        |          |        |
|-------|--------|----------|--------|
| ECSR1 | ECSR7  | ECSR17.5 | ECSR45 |
| ECSR2 | ECSR8  | ECSR20   | ECSR50 |
| ECSR3 | ECSR9  | ECSR25   | ECSR60 |
| ECSR4 | ECSR10 | ECSR30   |        |
| ECSR5 | ECSR12 | ECSR35   |        |
| ECSR6 | ECSR15 | ECSR40   |        |

#### Carton Quantity and Weight

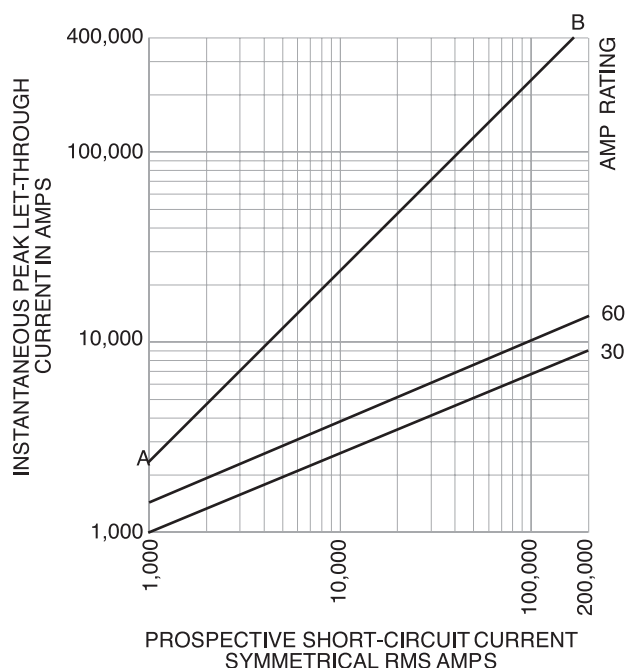
| Amps    | Carton Quantity | Weight per Carton |      |
|---------|-----------------|-------------------|------|
|         |                 | lbs               | kg   |
| 1-15    | 10              | 0.40              | 0.18 |
| 17.5-30 | 10              | 0.50              | 0.28 |
| 35-60   | 10              | 3.10              | 1.41 |

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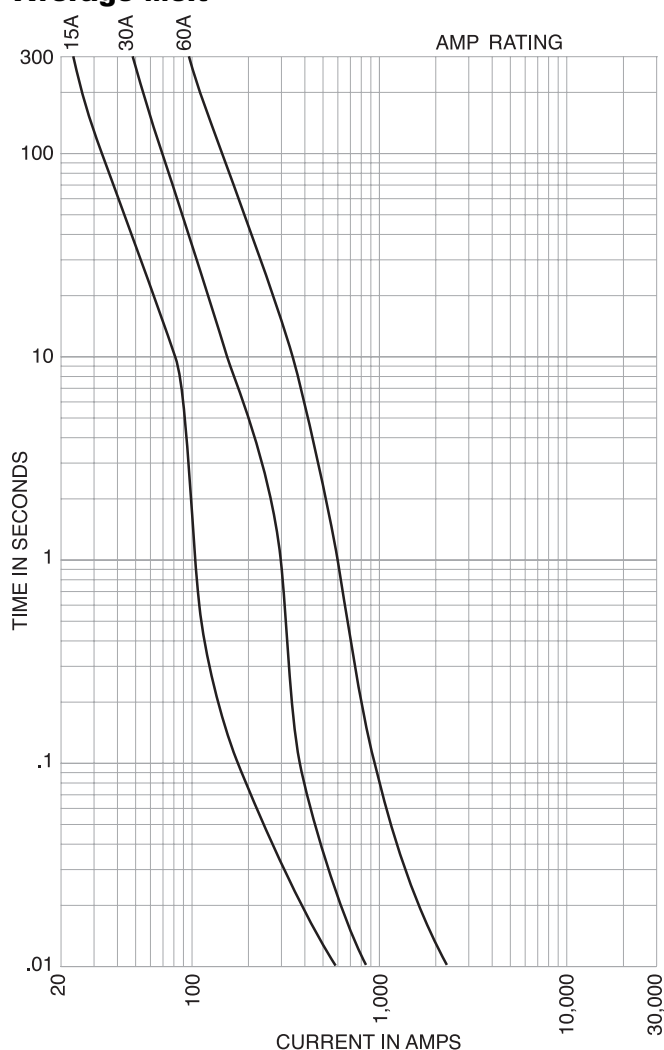
## Class RK5 600Vac, 1 to 60A

### Dual-Element, Time-Delay Fuses

#### Current Limitation Curves



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



#### Class R Fuse Blocks (600V) Catalog Data

(Clip Retaining Spring Standard, Suffix "R")

| Amps | Poles | Basic Catalog Number | Terminal Type (Suffix No.) |                  |         |                   |
|------|-------|----------------------|----------------------------|------------------|---------|-------------------|
|      |       |                      | Screw                      |                  | Box Lug |                   |
|      |       |                      | —                          | with Pres. Plate | —       | with Clip Cu only |
| 1    | 1     | R60030-1             | SR                         | PR               | CR      | —                 |
| to   | 2     | R60030-2             | SR                         | PR               | CR      | COR               |
| 30   | 3     | R60030-3             | SR                         | PR               | CR      | COR               |
| 31   | 1     | R60060-1             | —                          | —                | CR      | —                 |
| to   | 2     | R60060-2             | —                          | —                | CR      | —                 |
| 60   | 3     | R60060-3             | —                          | —                | CR      | —                 |

#### 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                   |

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### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

moschip.ru\_4

moschip.ru\_6

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