

**HIGHLIGHTS:**

- Current Limiting
- Low I²t
- Drive protection in larger RK body sizes for older installations
- Fast acting

**APPLICATIONS:**

- Branch circuits
- AC drives
- Solid state controllers
- Feeder circuits
- Arc flash mitigation

HIGH SPEED RK1 (HSRK)

Protect your electrical power wiring and power semiconductor with a single fuse.

The new HIGH SPEED RK1 (HSRK) combines semiconductor fuse performance with NEC branch circuit compliance. The fuse was designed with two specific applications in mind:

1. To provide semiconductor fuse performance to solid state drive applications but in the larger RK body sizes that have been typically installed in older systems.
2. To provide industrial power applications with the most current limiting fuse available, which in turn provides the best arc flash mitigation available to power systems using the larger RK size fuses.

B**Features/Benefits**

- Most current limiting RK1 available
- Provides the best Arc flash mitigation for feeder and branch circuits (non motor load circuits)
- Excellent cycling ability for frequent drive starts and stops without nuisance opening
- Extremely Low I²t

Ratings

- AC: (70 to 600A)
600VAC, 200KA I.R.
- 300KA I.R. Self certified

Approvals

- HSRK (70 TO 600A)**
- UL listed to 248-12
File E2137
 - CSA certified to
C22.2 - No. 248.12

HIGH SPEED/CLASS RK1

HSRK

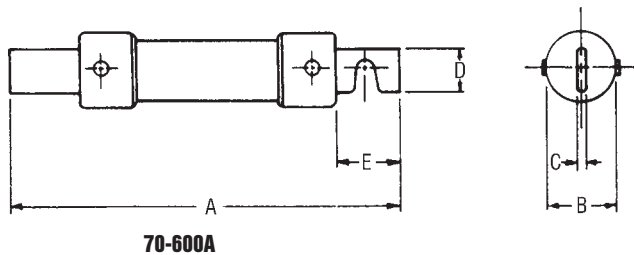
Standard Fuse Ampere Ratings, Catalog Numbers

| Ampere Rating | Catalog # | Ampere Rating | Catalog # |
|---------------|-----------|---------------|-----------|
| | 600V | | 600V |
| 70 | HSRK70R | 200 | HSRK200R |
| 80 | HSRK80R | 225 | HSRK225R |
| 90 | HSRK90R | 250 | HSRK250R |
| 100 | HSRK100R | 300 | HSRK300R |
| 110 | HSRK110R | 350 | HSRK350R |
| 125 | HSRK125R | 400 | HSRK400R |
| 150 | HSRK150R | 450 | HSRK450R |
| 175 | HSRK175R | 500 | HSRK500R |
| | | 600 | HSRK600R |

Recommended Fuse Blocks With Box Connectors For Amp-trap® Class RK1 Fuses

| Fuse Ampere Rating | Catalog Number | |
|--------------------|----------------|--------|
| | 600V | |
| | 1 pole | 3 pole |
| 61-100 | 61036R | 61038R |
| 101-200 | 62001R | 62003R |
| 201-400 | 64001R | 64003R |
| 401-600 | 6631R | 6633R |

A variety of pole configurations and termination provisions are available. Refer to the fuse block section of this catalog for details.



Dimensions

| AMPERE RATING | A | | B | | C | | D | | E | |
|------------------------|--------|-----|---------|----|------|----|-------|----|-------|----|
| | In. | mm | In. | mm | In. | mm | In. | mm | In. | mm |
| 600V-HSRK FUSES | | | | | | | | | | |
| 61-100 | 7-7/8 | 200 | 1-5/16 | 34 | 1/8 | 3 | 3/4 | 19 | 1 | 25 |
| 101-200 | 9-5/8 | 244 | 1-13/16 | 46 | 3/16 | 5 | 1-1/8 | 28 | 1-3/8 | 35 |
| 201-400 | 11-5/8 | 295 | 2-9/16 | 66 | 1/4 | 6 | 1-5/8 | 41 | 1-7/8 | 48 |
| 401-600 | 13-3/8 | 340 | 3-1/8 | 80 | 1/4 | 6 | 2 | 51 | 2-1/4 | 57 |

HIGH SPEED/CLASS RK1

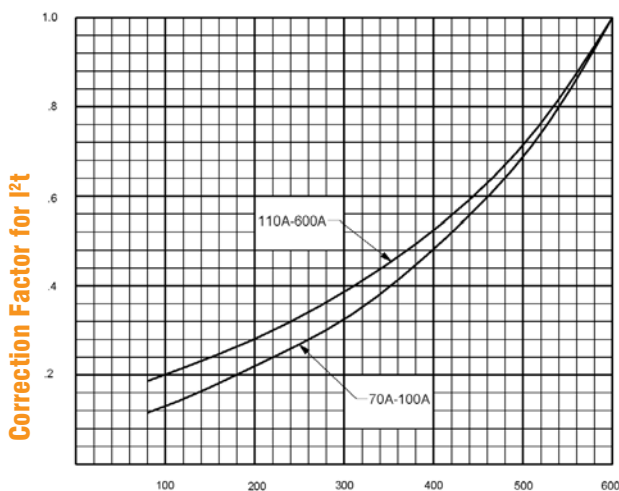
HSRK

I²t Data HSRK (Amp Rating)R

| Ampere Rating (A) | Pre-arc (A ² s X 10 ³) | Max Clearing I ² t @ 600V AC |
|-------------------|---|---|
| | | (A ² s X 10 ³) |
| 70 | 1.2 | 14 |
| 80 | 1.6 | 17 |
| 90 | 2.3 | 24 |
| 100 | 2.7 | 26 |
| 110 | 2.3 | 23 |
| 125 | 3.4 | 32 |
| 150 | 5.1 | 45 |
| 175 | 8.0 | 65 |
| 200 | 14 | 100 |
| 225 | 14 | 110 |
| 250 | 16 | 130 |
| 300 | 26 | 200 |
| 350 | 37 | 290 |
| 400 | 63 | 450 |
| 450 | 67 | 500 |
| 500 | 98 | 600 |
| 600 | 141 | 900 |

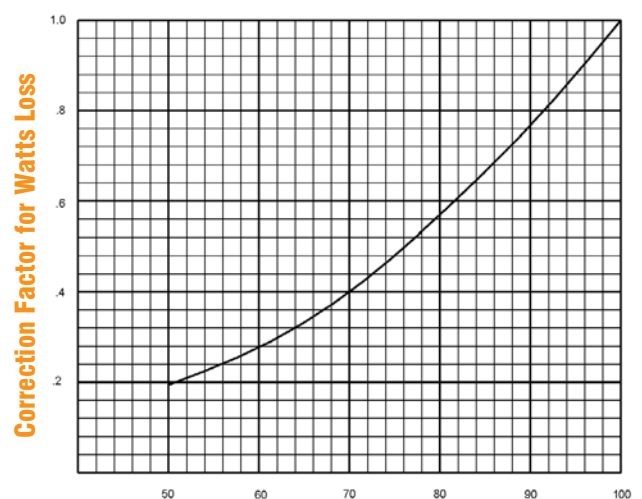
B

I²t vs Working Voltage



Working Voltage (AC RMS Volts)

Watts Loss vs % Rated Current



% Rated Current

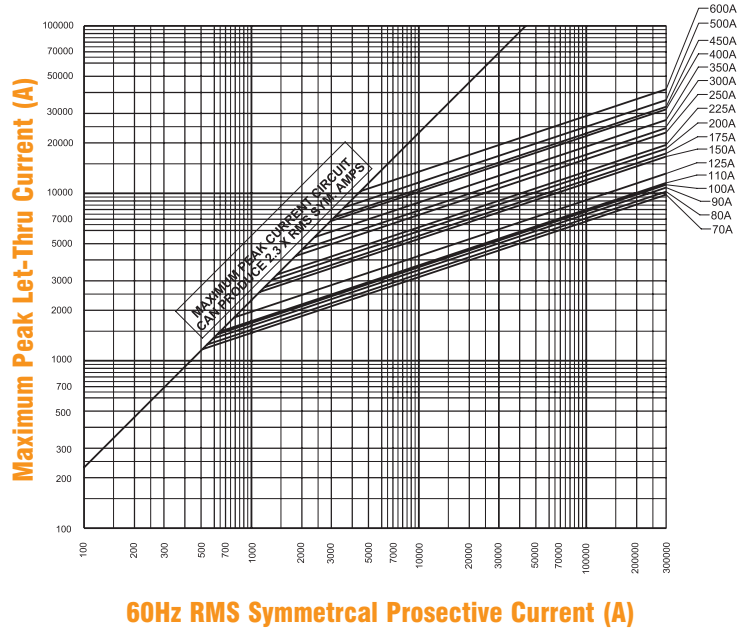
HIGH SPEED/CLASS RK1

HSRK

Watts Loss Data HSRK70 — 600R, 600V AC

| Ampere Rating (A) | Watts Loss at Rated Current |
|-------------------|-----------------------------|
| 70 | 10 |
| 80 | 11 |
| 90 | 13 |
| 100 | 14 |
| 110 | 18 |
| 125 | 19 |
| 150 | 25 |
| 175 | 26 |
| 200 | 27 |
| 225 | 35 |
| 250 | 43 |
| 300 | 45 |
| 350 | 47 |
| 400 | 53 |
| 450 | 62 |
| 500 | 63 |
| 600 | 83 |

Peak Let-Thru Data HSRK70 — 600R, 600V AC



Melting Time — Current Data HSRK70 — 600R, 600V AC

