



**Your problem:** Today, you need a time-delay power fuse that can handle normal surges. Tomorrow, it's a power fuse with a high interrupting rating and the added security of rejection dimensions. The day after that, one of those economical one-time power fuses will do the trick. But where can you turn for all three?

**Our solution:** Mersen's comprehensive power fuse offering covers a complete range of applications and a complete range of circuit-protection needs. Whether it's the characteristics of our Tri-Onic® Time-delay fuses. The high current-limiting capacity of our original Amp-Trap® power fuses. The cost-efficient protection of our One-Time fuses. Or some other application-specific power fuse solution.

**Want more information fast?** For more technical or application-specific information, please call our power fuse experts, at 978-462-6662; 416-252-9371 in Canada; or visit our website at [ep.mersen.com](http://ep.mersen.com).

# North American Power Fuses

THE MOST POPULAR  
NORTH AMERICAN  
POWER FUSES TO  
MEET THE MOST  
POPULAR PROTECTION  
PRIORITIES

- Class RK5/Tri-Onic®  
TR & TRS ..... B2
- Class RK5/Tri-Onic  
TRS-RDC ..... B4
- Class J/Amp-Trap® HSJ ..... B6
- Class J/Amp-Trap A4J ..... B8
- Class L/Amp-Trap A4BY .... B10
- Class L/Amp-Trap A4BT ..... B12
- Class T/Amp-Trap  
A3T & A6T ..... B14
- Class RK1/Amp-Trap  
A2K & A6K ..... B16
- Class G/Amp-Trap AG ..... B18
- Class CC/Amp-Trap ATMR... B19
- Class K-5/One-time  
OT & OTS ..... B20
- Class H/Renewable  
RF & RFS ..... B22
- Plug Fuses ..... B24

**Mersen**  
Expertise, our source of energy

# TR-R & TRS-R

Time-delay/Class RK5

## NORTH AMERICAN POWER FUSES

### THE INDUSTRY'S MOST POPULAR FUSE FOR MOTOR CIRCUIT PROTECTION



With advanced material technology added to the existing product, the Tri-Onic® TR and TRS current-limiting time-delay fuses are engineered for overcurrent protection of motors and transformers, service entrance equipment, feeder and branch circuits. Tri-Onic fuse's proven time-delay characteristic safely handles harmless starting currents and inrush currents associated with today's motors and transformers. Now available with optional SmartSpot® blown fuse indication technology.

#### FEATURES/BENEFITS:

- Time-delay
- Current-limiting
- AC & DC rated
- Optional solid state SmartSpot blown fuse indicator
- Time-delay for motor start-ups and transformer inrush currents without nuisance opening
- Current-limiting for low peak let-thru current
- Rejection-style design prevents replacement errors (when used with recommended fuse blocks)
- Easy-to-read label for quick brand recognition and replacement
- Metal-embossed date and catalog number for traceability and lasting identification
- Fiberglass body provides dimensional stability in harsh industrial settings
- High-grade silica filler ensures fast arc quenching and high current limitation

#### RATINGS:

##### TR-R

- **Volts:** 250VAC; 250VDC (.1-2.8A; 35-400A); 160VDC (3-30A; 450-600A)
- **Amps:** 1/10 to 600A
- **IR:** 200kA I.R. AC / 20kA I.R. DC

##### TRS-R

- **Volts:** 600VAC; 600VDC (.1-12A; 70-600A); 300VDC (15-60A)
- **Amps:** 1/10 to 600A
- **IR:** 200kA I.R. AC; 1/10A to 60A -> 20kA I.R. DC; 70A to 600A -> 100kA I.R. DC

#### APPLICATIONS:

- Motor circuits
- Mains
- Feeders
- Branch circuits
- Transformers
- Service entrance equipment
- General-purpose equipment

#### APPROVALS:

- UL listed to standard 248-12 File E2137
- CSA certified to standard C22.2 no. 248.12
- DC listed to UL standard 248 TRS only



## CATALOG NUMBERS (AMPS)

| 250V       |            |        | 600V        |             |         |
|------------|------------|--------|-------------|-------------|---------|
| TR1/10R*   | TR3-1/2R*  | TR50R  | TRS1/10R*   | TRS3-1/2R*  | TRS50R  |
| TR15/100R* | TR4R*      | TR60R  | TRS15/100R* | TRS4R*      | TRS60R  |
| TR2/10R*   | TR4-1/2R*  | TR70R  | TRS2/10R*   | TRS4-1/2R*  | TRS70R  |
| TR3/10R*   | TR5R*      | TR75R* | TRS3/10R*   | TRS5R*      | TRS75R* |
| TR4/10R*   | TR5-6/10R* | TR80R  | TRS4/10R*   | TRS5-6/10R* | TRS80R  |
| TR1/2R*    | TR6R*      | TR90R  | TRS1/2R*    | TRS6R*      | TRS90R  |
| TR6/10R*   | TR6-1/4R*  | TR100R | TRS6/10R*   | TRS6-1/4R*  | TRS100R |
| TR8/10R*   | TR7R*      | TR110R | TRS8/10R*   | TRS7R*      | TRS110R |
| TR1R*      | TR8R       | TR125R | TRS1R*      | TRS8R       | TRS125R |
| TR1-1/8R*  | TR9R       | TR150R | TRS1-1/8R*  | TRS9R       | TRS150R |
| TR1-1/4R*  | TR10R      | TR175R | TRS1-1/4R*  | TRS10R      | TRS175R |
| TR1-4/10R* | TR12R      | TR200R | TRS1-4/10R* | TRS12R      | TRS200R |
| TR1-6/10R* | TR15R      | TR225R | TRS1-6/10R* | TRS15R      | TRS225R |
| TR1-8/10R* | TR17-1/2R  | TR250R | TRS1-8/10R* | TRS17-1/2R  | TRS250R |
| TR2R*      | TR20R      | TR300R | TRS2R*      | TRS20R      | TRS300R |
| TR2-1/4R*  | TR25R      | TR350R | TRS2-1/4R*  | TRS25R      | TRS350R |
| TR2-1/2R*  | TR30R      | TR400R | TRS2-1/2R*  | TRS30R      | TRS400R |
| TR2-8/10R* | TR35R      | TR450R | TRS2-8/10R* | TRS35R      | TRS450R |
| TR3R*      | TR40R      | TR500R | TRS3R*      | TRS40R      | TRS500R |
| TR3-2/10R* | TR45R      | TR600R | TRS3-2/10R* | TRS45R      | TRS600R |

## RECOMMENDED FUSE BLOCKS WITH BOX CONNECTORS FOR TRI-ONIC® CLASS RK5 FUSES

| Fuse<br>Ampere<br>Rating | Catalog Number |        |        |        |
|--------------------------|----------------|--------|--------|--------|
|                          | 250V           |        | 600V   |        |
|                          | 1-Pole         | 3-Pole | 1-Pole | 3-Pole |
| 0-30                     | 20306R         | 20308R | 60306R | 60308R |
| 31-60                    | 20606R         | 20608R | 60606R | 60608R |
| 61-100                   | 21036R         | 21038R | 61036R | 61038R |
| 101-200                  | 22001R         | 22003R | 62001R | 62003R |
| 201-400                  | 24001R         | 24003R | 64001R | 64003R |
| 401-600                  | 2631R          | 2633R  | 6631R  | 6633R  |

A variety of pole configurations and termination provisions are available. Refer to Section H for details.

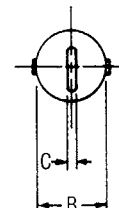
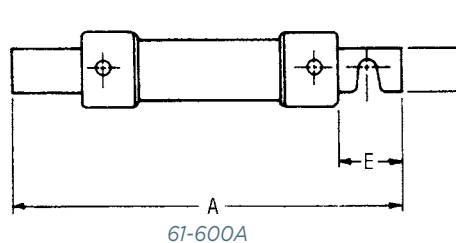
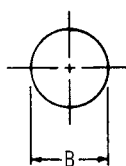
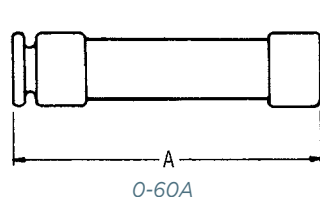
Note: Optional blown fuse visual indication available. To order, place "ID" at the end of the catalog number. Example: #TRS30RID

\* Not available with optional blow fuse indicator.

Tin plated end caps are available on Non-ID fuses less than 60A. Example Part # TRP30R, TRSP30R

## DIMENSIONS

| Ampere Rating         | A      |     | B       |    | C    |    | D     |    | E     |    |
|-----------------------|--------|-----|---------|----|------|----|-------|----|-------|----|
|                       | In.    | mm  | In.     | mm | In.  | mm | In.   | mm | In.   | mm |
| <b>250V-TR Fuses</b>  |        |     |         |    |      |    |       |    |       |    |
| 0-30                  | 2      | 51  | 9/16    | 14 | -    | -  | -     | -  | -     | -  |
| 31-60                 | 3      | 76  | 13/16   | 21 | -    | -  | -     | -  | -     | -  |
| 61-100                | 5-7/8  | 149 | 1-1/16  | 27 | 1/8  | 3  | 3/4   | 19 | 1     | 25 |
| 101-200               | 7-1/8  | 181 | 1-9/16  | 40 | 3/16 | 5  | 1-1/8 | 28 | 1-3/8 | 35 |
| 201-400               | 8-5/8  | 219 | 2-1/16  | 53 | 1/4  | 6  | 1-5/8 | 41 | 1-7/8 | 48 |
| 401-600               | 10-3/8 | 264 | 2-9/16  | 66 | 1/4  | 6  | 2     | 51 | 2-1/4 | 57 |
| <b>600V-TRS Fuses</b> |        |     |         |    |      |    |       |    |       |    |
| 0-30                  | 5      | 127 | 13/16   | 21 | -    | -  | -     | -  | -     | -  |
| 31-60                 | 5-1/2  | 139 | 1-1/16  | 27 | -    | -  | -     | -  | -     | -  |
| 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 |



# TRS-RDC

Time-delay/Class RK5

NORTH AMERICAN POWER FUSES

DC RATED FOR TOUGH DC APPLICATIONS



The Tri-Onic® DC fuse series is designed for DC circuit protection in surface and underground mines. The TRS-RDC is MSHA approved and meets the industry's most severe third party requirements for 600VDC rated fuses. The TRS-RDC is a time-delay fuse with essentially the same time-current characteristic as the standard Tri-Onic fuse.

## FEATURES/BENEFITS:

- DC rated for mine duty and other long time-constant applications
- Time-delay for motor start-ups and high inrush loads without nuisance opening
- Rugged glass melamine body for superior reliability in harsh environments

## RATINGS:

- **Volts:** 300VDC (0.1 to 30A); 600VDC (35 to 400A)
- **Amps:** 1/10 to 400A
- **IR:** 20kA I.R. DC

*\*consult factory for availability*

## HIGHLIGHTS:

- Time-delay
- DC rated

## APPLICATIONS:

- Mine circuits
- Trailing cables
- Pump motors
- Rail heaters

## APPROVALS:

- MSHA approval no. 28-26-0

## CATALOG NUMBERS (AMPS)

|              |              |              |           |
|--------------|--------------|--------------|-----------|
| TRS1/10RDC   | TRS1-8/10RDC | TRS6-1/4RDC  | TRS60RDC  |
| TRS15/100RDC | TRS2RDC      | TRS8RDC      | TRS70RDC  |
| TRS2/10RDC   | TRS2-1/4RDC  | TRS9RDC      | TRS80RDC  |
| TRS3/10RDC   | TRS2-1/2RDC  | TRS10RDC     | TRS90RDC  |
| TRS4/10RDC   | TRS2-8/10RDC | TRS12RDC     | TRS100RDC |
| TRS1/2RDC    | TRS3RDC      | TRS15RDC     | TRS125RDC |
| TRS6/10RDC   | TRS3-2/10RDC | TRS17-1/2RDC | TRS150RDC |
| TRS8/10RDC   | TRS3-1/2RDC  | TRS20RDC     | TRS175RDC |
| TRS1RDC      | TRS4RDC      | TRS30RDC     | TRS200RDC |
| TRS1-1/8RDC  | TRS4-1/2RDC  | TRS35RDC     | TRS250RDC |
| TRS1-1/4RDC  | TRS5RDC      | TRS40RDC     | TRS300RDC |
| TRS1-4/10RDC | TRS5-6/10RDC | TRS45RDC     | TRS400RDC |
| TRS1-6/10RDC | TRS6RDC      | TRS50RDC     |           |

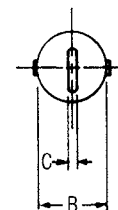
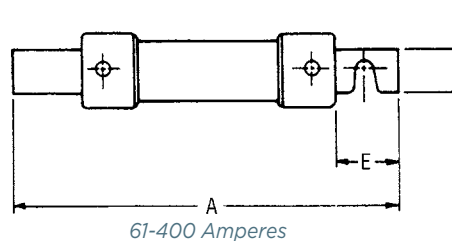
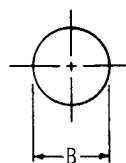
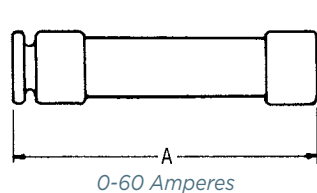
## RECOMMENDED FUSE BLOCKS WITH BOX CONNECTORS FOR TRI-ONIC® CLASS RK5 FUSES

| Fuse<br>Ampere<br>Rating | Catalog Number |        |        |        |
|--------------------------|----------------|--------|--------|--------|
|                          | 250V           |        | 600V   |        |
|                          | 1-Pole         | 3-Pole | 1-Pole | 3-Pole |
| 0-30                     | 20306R         | 20308R | 60306R | 60308R |
| 31-60                    | 20606R         | 20608R | 60606R | 60608R |
| 61-100                   | 21036R         | 21038R | 61036R | 61038R |
| 101-200                  | 22001R         | 22003R | 62001R | 62003R |
| 201-400                  | 24001R         | 24003R | 64001R | 64003R |

A variety of pole configurations and termination provisions are available. Refer to Section H for details.

## DIMENSIONS

| Ampere<br>Rating | A      |     | B       |    | C    |    | D     |    | E     |    |
|------------------|--------|-----|---------|----|------|----|-------|----|-------|----|
|                  | In.    | mm  | In.     | mm | In.  | mm | In.   | mm | In.   | mm |
| 0-30             | 5      | 127 | 13/16   | 21 | -    | -  | -     | -  | -     | -  |
| 31-60            | 5-1/2  | 139 | 1-1/16  | 27 | -    | -  | -     | -  | -     | -  |
| 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 |



# HSJ

High Speed/Class J

## NORTH AMERICAN POWER FUSES

### PROTECT YOUR WIRING AND POWER SEMICONDUCTORS WITH A SINGLE FUSE



The High Speed J (HSJ) fuse combines the low  $I^2t$  of a semiconductor fuse and the branch circuit performance of a Class J UL listed fuse. This fuse was designed for the starting characteristics of solid state motor controllers. The HSJ can provide branch circuit protection per NEC requirements, as well as very low  $I^2t$  for protection of power semiconductors such as Diodes, SCRs, GTOs and SSRs.

#### FEATURES/BENEFITS:

- Optimized over-load capability for withstanding elevated levels of current during electronic motor controller starts
- Low  $I^2t$  (low thermal energy)
- Excellent cycling ability for frequent starts/stops without nuisance opening

#### RATINGS:

- **Volts:** 600VAC, 500VDC
- **Amps:** 1 to 600A (AC), 15 to 600A (DC)
- **IR:** 200kA I.R. AC, 100kA I.R. DC, L/R = 10mS or less (Self Certified for 600VAC, 300kA I.R., UL witnessed.)

#### HIGHLIGHTS:

- Current-limiting
- AC & DC ratings
- Low  $I^2t$
- Compact size

#### APPLICATIONS:

- Branch circuits
- Control panels
- Electronic motor controllers
- Phase controllers
- Drives
- Soft-starters
- Solid state relays

#### APPROVALS:

- UL listed to standard 248-8 File E2137
- CSA certified to standard C22.2 no. 248.8
- DC listed to UL 248



## CATALOG NUMBERS (AMPS)

|           |       |        |        |
|-----------|-------|--------|--------|
| HSJ1      | HSJ30 | HSJ90  | HSJ250 |
| HSJ3      | HSJ35 | HSJ100 | HSJ300 |
| HSJ6      | HSJ40 | HSJ110 | HSJ350 |
| HSJ10     | HSJ45 | HSJ125 | HSJ400 |
| HSJ15     | HSJ50 | HSJ150 | HSJ450 |
| HSJ17-1/2 | HSJ60 | HSJ175 | HSJ500 |
| HSJ20     | HSJ70 | HSJ200 | HSJ600 |
| HSJ25     | HSJ80 | HSJ225 |        |

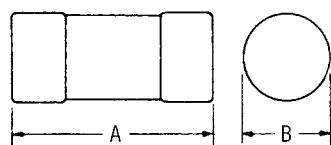
## RECOMMENDED FUSE BLOCKS WITH BOX CONNECTORS FOR AMP-TRAP® CLASS J FUSES

| Fuse Ampere Rating | Catalog Number<br>600V or Less |        |
|--------------------|--------------------------------|--------|
|                    | 1-Pole                         | 3-Pole |
| 0-30               | US3J1I                         | US3J3I |
| 31-60              | US6J1I                         | US6J3I |
| 61-100             | 61036J                         | 61038J |
| 101-200            | 62001J                         | 62003J |
| 201-400            | 64031J                         | 64033J |
| 401-600            | 6631J                          | 6633J  |

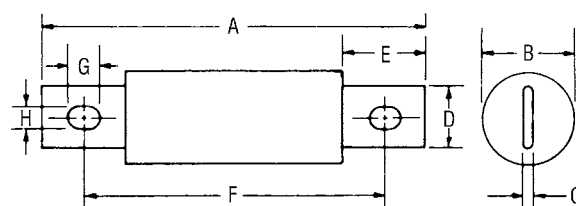
A variety of pole configurations and termination provisions are available. Refer to Section H for details.

## DIMENSIONS

| Ampere Rating | A     |     | B      |    | C    |     | D     |    | E     |    | F     |     | G     |    | H     |    |
|---------------|-------|-----|--------|----|------|-----|-------|----|-------|----|-------|-----|-------|----|-------|----|
|               | in    | mm  | in     | mm | in   | mm  | in    | mm | in    | mm | in    | mm  | in    | mm | in    | mm |
| 1-30          | 2-1/4 | 57  | 13/16  | 21 | -    | -   | -     | -  | -     | -  | -     | -   | -     | -  | -     | -  |
| 31-60         | 2-3/8 | 60  | 1-1/16 | 27 | -    | -   | -     | -  | -     | -  | -     | -   | -     | -  | -     | -  |
| 61-100        | 4-4/8 | 117 | 1-1/8  | 29 | 1/8  | 3.2 | 3/4   | 19 | 1     | 25 | 3-5/8 | 92  | 3/8   | 10 | 9/32  | 7  |
| 101-200       | 5-3/4 | 146 | 1-5/8  | 41 | 3/16 | 4.8 | 1-1/8 | 29 | 1-3/8 | 35 | 4-3/8 | 111 | 3/8   | 10 | 9/32  | 7  |
| 201-400       | 7-1/8 | 181 | 2-1/8  | 54 | 1/4  | 6.3 | 1-5/8 | 41 | 1-7/8 | 48 | 5-1/4 | 133 | 17/32 | 13 | 13/32 | 10 |
| 401-600       | 8     | 203 | 2-1/2  | 64 | 3/8  | 9.5 | 2     | 51 | 2-1/8 | 54 | 6     | 152 | 11/16 | 18 | 17/32 | 13 |



1-60A



61-600A

# A4J

Fast Acting/Class J

NORTH AMERICAN POWER FUSES

FOR EXCELLENT CURRENT-LIMITING PROTECTION



A4J Class J fuses deliver excellent current-limiting protection to a wide variety of applications. Their unique dimensions prevent the substitution of other fuses with lower voltage ratings, interrupting ratings, or current-limiting capability.

## FEATURES/BENEFITS:

- High current limitation for low peak let-thru current
- Unique dimensions prevent replacement by other fuse classes
- Fiberglass body provides dimensional stability in harsh industrial environments
- Easy-to-read imprint label for quick recognition and replacement

## RATINGS:

- **Volts:** 600VAC, 300VDC
- **Amps:** 1 to 600A
- **IR:** 200kA I.R. AC, 100kA I.R. DC

## HIGHLIGHTS:

- Fast-acting
- Very current-limiting
- DC ratings

## APPLICATIONS:

- Capacitors
- Load centers
- Panelboards
- Switchboards
- Bus duct
- Feeder circuits
- Circuit breakers
- Lighting, heating, and general loads

## APPROVALS:

- UL listed to standard 248-8 File E2137
- CSA certified to standard C22.2 no. 248.8
- DC listed to UL 248
- IEC 269-2-1





## CATALOG NUMBERS (AMPS)

|       |       |        |        |
|-------|-------|--------|--------|
| A4J1  | A4J35 | A4J90  | A4J250 |
| A4J3  | A4J40 | A4J100 | A4J300 |
| A4J6  | A4J45 | A4J110 | A4J350 |
| A4J10 | A4J50 | A4J125 | A4J400 |
| A4J15 | A4J60 | A4J150 | A4J450 |
| A4J20 | A4J70 | A4J175 | A4J500 |
| A4J25 | A4J75 | A4J200 | A4J600 |
| A4J30 | A4J80 | A4J225 |        |

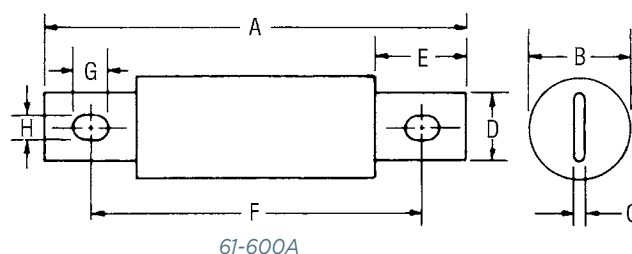
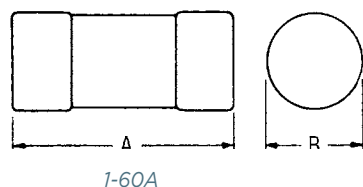
## RECOMMENDED FUSE BLOCKS WITH BOX CONNECTORS FOR AMP-TRAP® CLASS J FUSES

| Fuse Ampere Rating | Catalog Number<br>600V or Less |        |
|--------------------|--------------------------------|--------|
|                    | 1-Pole                         | 3-Pole |
| 0-30               | US3J1I                         | US3J3I |
| 31-60              | US6J1I                         | US6J3I |
| 61-100             | 61036J                         | 61038J |
| 101-200            | 62001J                         | 62003J |
| 201-400            | 64031J                         | 64033J |
| 401-600            | 6631J                          |        |

A variety of pole configurations and termination provisions are available. Refer to Section H for details.

## DIMENSIONS

| Ampere<br>Rating | A     |     | B      |    | C    |     | D     |    | E     |    | F     |     | G     |    | H     |    |
|------------------|-------|-----|--------|----|------|-----|-------|----|-------|----|-------|-----|-------|----|-------|----|
|                  | in    | mm  | in     | mm | in   | mm  | in    | mm | in    | mm | in    | mm  | in    | mm | in    | mm |
| 1-30             | 2-1/4 | 57  | 13/16  | 21 | -    | -   | -     | -  | -     | -  | -     | -   | -     | -  | -     | -  |
| 31-60            | 2-3/8 | 60  | 1-1/16 | 27 | -    | -   | -     | -  | -     | -  | -     | -   | -     | -  | -     | -  |
| 61-100           | 4-4/8 | 117 | 1-1/8  | 29 | 1/8  | 3.2 | 3/4   | 19 | 1     | 25 | 3-5/8 | 92  | 3/8   | 10 | 9/32  | 7  |
| 101-200          | 5-3/4 | 146 | 1-5/8  | 41 | 3/16 | 4.8 | 1-1/8 | 29 | 1-3/8 | 35 | 4-3/8 | 111 | 3/8   | 10 | 9/32  | 7  |
| 201-400          | 7-1/8 | 181 | 2-1/8  | 54 | 1/4  | 6.3 | 1-5/8 | 41 | 1-7/8 | 48 | 5-1/4 | 133 | 17/32 | 13 | 13/32 | 10 |
| 401-600          | 8     | 203 | 2-1/2  | 64 | 3/8  | 9.5 | 2     | 51 | 2-1/8 | 54 | 6     | 152 | 11/16 | 18 | 17/32 | 13 |



# A4BY

Class L

## NORTH AMERICAN POWER FUSES

COUNT ON THE HIGH INTERRUPTING RATING  
OF OUR MOST WIDELY USED CLASS L FUSE



When it comes to protecting service entrance equipment, feeder circuits, and circuit breakers, A4BY fuses are the industry's favorite. The A4BY is a 100% rated device and may be applied at continuous currents up to its ampere rating. A 4-second minimum time-delay at 500% rating allows the A4BY to pass normal current surges and to coordinate with ground fault relays.

### FEATURES/BENEFITS:

- Unique dimensions prevent replacement by other fuse classes
- Blade stamped catalog numbers for permanent identification
- Glass melamine body and plated terminals provide superior reliability in harsh environments

### RATINGS:

- **Volts:** 600VAC, 300VDC
- **Amps:** 200 to 6,000A (AC), 200 to 2,500A (DC)
- **IR:** 200kA I.R. AC, 100kA I.R. DC

### HIGHLIGHTS:

- Current-limiting
- 4-second time-delay
- DC ratings
- Uniform characteristics in all ampere ratings

### APPLICATIONS:

- Mains, feeders
- Circuit breakers
- Load centers
- Panelboards
- Switchboards
- Metering centers

### APPROVALS:

- UL listed to standard 248-10 (601-6000A) File E2137
- CSA certified to standard C22.2 No. 248.10 (601-6000A)
- Self-certified for DC per UL248 (601-6000A)



## CATALOG NUMBERS (AMPS)

|         |          |          |          |
|---------|----------|----------|----------|
| A4BY200 | A4BY700  | A4BY1350 | A4BY2500 |
| A4BY250 | A4BY750  | A4BY1400 | A4BY3000 |
| A4BY300 | A4BY800  | A4BY1500 | A4BY3001 |
| A4BY350 | A4BY801  | A4BY1600 | A4BY3500 |
| A4BY400 | A4BY900  | A4BY1601 | A4BY4000 |
| A4BY450 | A4BY1000 | A4BY1800 | A4BY4001 |
| A4BY500 | A4BY1100 | A4BY2000 | A4BY4500 |
| A4BY600 | A4BY1200 | A4BY2001 | A4BY5000 |
| A4BY601 | A4BY1201 | A4BY2200 | A4BY6000 |
| A4BY650 |          |          |          |

Note: For optional blown fuse trigger indicator add "-TI" to the end of part number.  
Example: A4BY1600-TI. Consult factory for availability.

## RECOMMENDED FUSE BLOCKS FOR AMP-TRAP® CLASS L FUSES

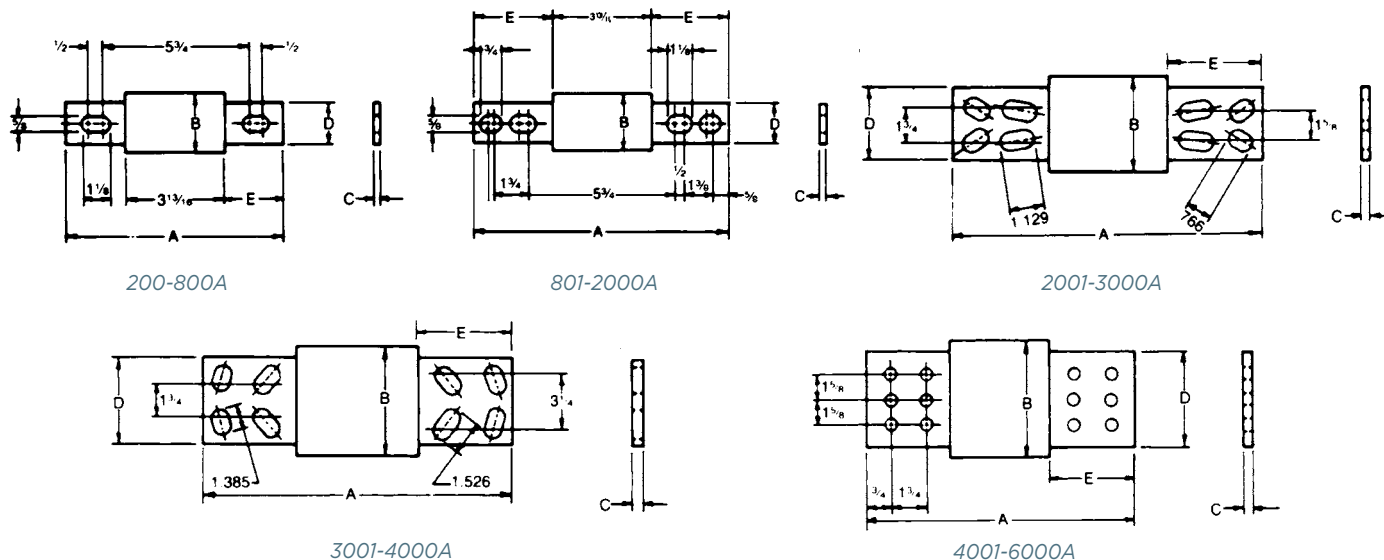
| Fuse Ampere Rating | Catalog Number<br>600V or Less<br>3-Pole |
|--------------------|------------------------------------------|
| 100-800            | P48F                                     |
| 801-1200           | P412F                                    |

Catalog number P48F is UL recognized  
Catalog number P412F is self-certified

A variety of pole configurations and termination provisions are available. Refer to Section H for details.

## DIMENSIONS

| Ampere Rating | A<br>in | mm  | B<br>in | mm  | C<br>in | mm | D<br>in | mm  | E<br>in | mm |
|---------------|---------|-----|---------|-----|---------|----|---------|-----|---------|----|
| 200-600       | 8-5/8   | 219 | 2       | 51  | 5/16    | 8  | 1-5/8   | 41  | 2-13/32 | 61 |
| 601-800       | 8-5/8   | 219 | 2-1/2   | 63  | 3/8     | 9  | 2       | 51  | 2-13/32 | 61 |
| 801-1200      | 10-3/4  | 273 | 2-1/2   | 63  | 3/8     | 9  | 2       | 51  | 3-15/32 | 88 |
| 1201-1600     | 10-3/4  | 273 | 3       | 76  | 7/16    | 11 | 2-3/8   | 60  | 3-15/32 | 88 |
| 1601-2000     | 10-3/4  | 273 | 3-1/2   | 89  | 1/2     | 13 | 2-3/4   | 70  | 3-15/32 | 88 |
| 2001-2500     | 10-3/4  | 273 | 4-1/2   | 114 | 3/4     | 19 | 3-1/2   | 89  | 3-15/32 | 88 |
| 2501-3000     | 10-3/4  | 273 | 5       | 127 | 3/4     | 19 | 4       | 102 | 3-15/32 | 88 |
| 3001-4000     | 10-3/4  | 273 | 5-3/4   | 146 | 3/4     | 19 | 4-3/4   | 121 | 3-15/32 | 88 |
| 4001-5000     | 10-3/4  | 273 | 6-1/4   | 159 | 1       | 25 | 5-1/4   | 133 | 3-15/32 | 88 |
| 5001-6000     | 10-3/4  | 273 | 7-1/8   | 181 | 1       | 25 | 5-3/4   | 146 | 3-15/32 | 88 |



# A4BT

Time-delay/Class L

## NORTH AMERICAN POWER FUSES

WHEN YOUR HEAVIER LOADS NEED PROTECTION,  
A4BT FUSES WON'T LET YOU DOWN



The high interrupting rating of A4BT current-limiting fuses is ideally suited for protecting mains, feeders, and general circuits. The 10-second time-delay at 500% of fuse rating is ideal for large motors and other loads with a high inrush. A4BT fuses are suitable for DC applications up to 500VDC. An A4BT fuse can be applied to normal loads up to its full ampere rating to allow 100% rating of equipment, while also providing superior current-limiting ability.

### FEATURES/BENEFITS:

- Unique dimensions prevent replacement by other fuse classes.
- Blade-stamped catalog numbers for permanent identification
- Glass melamine body and plated terminals provide superior reliability in harsh environments

### RATINGS:

- **Volts:** 600VAC, 500VDC
- **Amps:** 200 to 2,000A
- **IR:** 200kA I.R. AC, 100kA I.R. DC

### HIGHLIGHTS:

- Current-limiting
- Full 10-second delay
- DC ratings
- Uniform characteristics in all ampere ratings

### APPLICATIONS:

- Motors
- Motor controllers
- Transformers
- Mains
- Feeders

### APPROVALS:

- UL Listed to standard 248-10 (601-2000A) File E2137
- CSA Certified to standard C22.2 No. 248.10 (601-2000A)
- Self-certified for DC per UL248 (601-2000)



CATALOG NUMBERS (AMPS)

|         |         |          |          |
|---------|---------|----------|----------|
| A4BT200 | A4BT500 | A4BT800  | A4BT1400 |
| A4BT250 | A4BT600 | A4BT900  | A4BT1500 |
| A4BT300 | A4BT601 | A4BT1000 | A4BT1600 |
| A4BT350 | A4BT650 | A4BT1100 | A4BT1800 |
| A4BT400 | A4BT700 | A4BT1200 | A4BT2000 |
| A4BT450 | A4BT750 |          |          |

RECOMMENDED FUSE BLOCKS  
FOR AMP-TRAP® CLASS L FUSES

| Fuse Ampere<br>Rating | Catalog Number<br>600V or Less<br>3-Pole |
|-----------------------|------------------------------------------|
| 100-800               | P48F                                     |
| 801-1200              | P412F                                    |

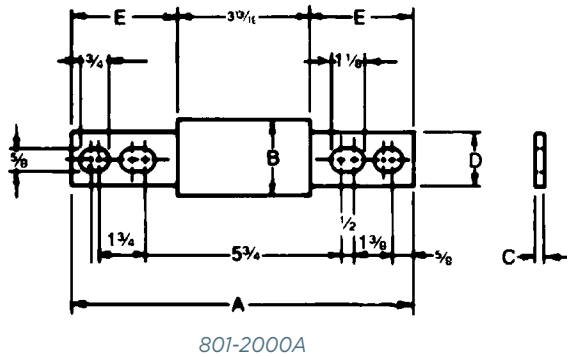
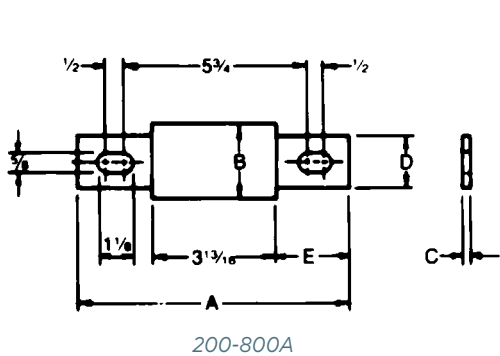
Catalog number P48F is UL recognized  
Catalog number P412F is self-certified

A variety of pole configurations and termination provisions are  
available. Refer to Section H for details.

DIMENSIONS

| Ampere<br>Rating | A      |     | B     |    | C    |    | D     |    | E       |    |
|------------------|--------|-----|-------|----|------|----|-------|----|---------|----|
|                  | in     | mm  | in    | mm | in   | mm | in    | mm | in      | mm |
| 200-600          | 8-5/8  | 219 | 2     | 51 | 5/16 | 8  | 1-5/8 | 41 | 2-13/32 | 61 |
| 601-800          | 8-5/8  | 219 | 2-1/2 | 63 | 3/8  | 9  | 2     | 51 | 2-13/32 | 61 |
| 801-1200         | 10-3/4 | 273 | 2-1/2 | 63 | 3/8  | 9  | 2     | 51 | 3-15/32 | 88 |
| 1201-1600        | 10-3/4 | 273 | 3     | 76 | 7/16 | 11 | 2-3/8 | 60 | 3-15/32 | 88 |
| 1601-2000        | 10-3/4 | 273 | 3-1/2 | 89 | 1/2  | 13 | 2-3/4 | 70 | 3-15/32 | 88 |

Safety Note: Class L fuses are dimensioned for one-way interchangeability.  
A Class L fuse of any lower ampere rating can be substituted for a given Class L fuse.



# A3T & A6T

Fast Acting/Class T

## NORTH AMERICAN POWER FUSES

THESE SMALL DIMENSION FUSES ARE  
THE RIGHT FIT... FOR A TIGHT FIT



Fast-acting A3T and A6T Class T fuses combine two highly desirable features - high current limitation and a small physical size. Their unique dimensions prevent the substitution of other fuses with lower voltage ratings or current-limiting capability.

These fuses have glass melamine bodies for superior dimensional stability and catalog numbers stamped into the blades for permanent identification.

### FEATURES/BENEFITS:

- Extremely current-limiting for low peak let-thru current
- Unique dimensions prevent replacement by other fuse classes
- Blade-stamped catalog numbers for permanent identification
- Small physical size for greater design flexibility

### RATINGS:

#### A3T

- **Volts:** 300VAC / 160VDC
- **Amps:** 1 to 1200A
- **IR:** 200kA I.R. AC, 50kA I.R. DC

#### A6T

- **Volts:** 600VAC / 300VDC
- **Amps:** 1 to 800A
- **IR:** 200kA I.R. AC, 100kA I.R. DC

### HIGHLIGHTS:

- Fast-acting
- Extremely current-limiting
- Small physical size
- DC ratings

### APPLICATIONS:

- Loadcenters
- Panelboards
- Switchboards
- Circuit breakers
- Metering centers

### APPROVALS:

- UL listed to standard 248-15 File E2137
- CSA certified to standard C22.2 no. 248.15
- DC listed to UL standard 248



### CATALOG NUMBERS (AMPS)

| 300V  |        |         | 600V  |        |        |
|-------|--------|---------|-------|--------|--------|
| A3T1  | A3T60  | A3T300  | A6T1  | A6T60  | A6T300 |
| A3T3  | A3T70  | A3T350  | A6T3  | A6T70  | A6T350 |
| A3T6  | A3T80  | A3T400  | A6T6  | A6T80  | A6T400 |
| A3T10 | A3T90  | A3T450  | A6T10 | A6T90  | A6T450 |
| A3T15 | A3T100 | A3T500  | A6T15 | A6T100 | A6T500 |
| A3T20 | A3T110 | A3T600  | A6T20 | A6T110 | A6T600 |
| A3T25 | A3T125 | A3T700  | A6T25 | A6T125 | A6T700 |
| A3T30 | A3T150 | A3T800  | A6T30 | A6T150 | A6T800 |
| A3T35 | A3T175 | A3T1000 | A6T35 | A6T175 |        |
| A3T40 | A3T200 | A3T1200 | A6T40 | A6T200 |        |
| A3T45 | A3T225 |         | A6T45 | A6T225 |        |
| A3T50 | A3T250 |         | A6T50 | A6T250 |        |

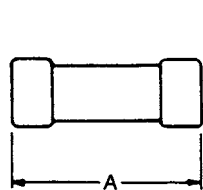
### RECOMMENDED FUSE BLOCKS WITH BOX CONNECTORS FOR AMP-TRAP® CLASS T FUSES

| Ampere Rating | Catalog Number |        |        |        |
|---------------|----------------|--------|--------|--------|
|               | 300V           |        | 600V   |        |
|               | 1-Pole         | 3-Pole | 1-Pole | 3-Pole |
| 1-30          | 30306T         | 30308T | 60306T | 60308T |
| 31-60         | 30606T         | 30608T | 60606T | 60608T |
| 61-100        | 31001T         | 31003T | 61031T | 61033T |
| 101-200       | 32031T         | 32033T | 62031T | 62033T |
| 201-400       | 34031T         | 34033T | 64031T | —      |
| 401-600       | 36031T         | —      | 66031T | —      |

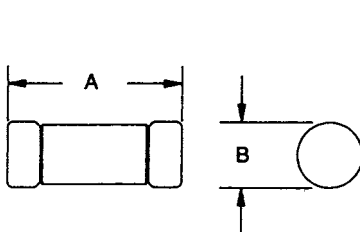
A variety of pole configurations and termination provisions are available. Refer to Section H for details.

### DIMENSIONS

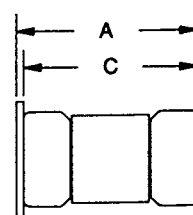
| Ampere Rating  | A    |       | B    |      | C    |      | D    |      | E    |      | F   |      | G    |      |
|----------------|------|-------|------|------|------|------|------|------|------|------|-----|------|------|------|
|                | in   | mm    | in   | mm   | in   | mm   | in   | mm   | in   | mm   | in  | mm   | in   | mm   |
| 300V-A3T Fuses |      |       |      |      |      |      |      |      |      |      |     |      |      |      |
| 1-30           | .88  | 22.4  | .41  | 10.3 | -    | -    | -    | -    | -    | -    | -   | -    | -    | -    |
| 31-60          | .88  | 22.4  | .56  | 14.1 | -    | -    | -    | -    | -    | -    | -   | -    | -    | -    |
| 61-100         | 2.16 | 54.9  | .81  | 20.6 | .12  | 3.2  | .75  | 19.0 | 1.56 | 39.6 | .28 | 7.1  | .82  | 20.8 |
| 101-200        | 2.44 | 62.0  | 1.06 | 26.9 | .19  | 4.8  | .88  | 22.4 | 1.70 | 43.2 | .34 | 8.6  | .83  | 21.1 |
| 201-400        | 2.75 | 69.8  | 1.33 | 33.8 | .25  | 6.4  | 1.00 | 25.4 | 1.84 | 46.7 | .41 | 10.4 | .84  | 21.3 |
| 401-600        | 3.06 | 77.7  | 1.62 | 41.1 | .31  | 7.8  | 1.25 | 31.8 | 2.03 | 51.6 | .48 | 12.2 | .84  | 21.3 |
| 601-800        | 3.38 | 85.8  | 2.08 | 52.8 | .38  | 9.7  | 1.75 | 44.4 | 2.22 | 56.4 | .55 | 14.0 | .88  | 22.4 |
| 801-1200       | 4.00 | 102   | 2.52 | 64.0 | .44  | 11.2 | 2.00 | 50.8 | 2.53 | 64.3 | .61 | 15.5 | 1.03 | 26.2 |
| 600V-A6T Fuses |      |       |      |      |      |      |      |      |      |      |     |      |      |      |
| 1-30           | 1.50 | 38.1  | .57  | 14.5 | -    | -    | -    | -    | -    | -    | -   | -    | -    | -    |
| 31-60          | 1.57 | 39.9  | .81  | 20.6 | 1.51 | 38.4 | 1.00 | 25.4 | -    | -    | -   | -    | -    | -    |
| 61-100         | 2.95 | 75.0  | .82  | 20.8 | .12  | 3.2  | .75  | 19.0 | 2.35 | 59.7 | .28 | 7.1  | 1.58 | 40.1 |
| 101-200        | 3.26 | 82.8  | 1.07 | 27.2 | .19  | 4.8  | .88  | 22.4 | 2.51 | 63.7 | .34 | 8.6  | 1.61 | 41.0 |
| 201-400        | 3.62 | 92.1  | 1.62 | 41.3 | .25  | 6.4  | 1.00 | 25.4 | 2.72 | 69.1 | .41 | 10.4 | 1.70 | 43.2 |
| 401-600        | 3.98 | 101.2 | 2.06 | 52.4 | .31  | 7.9  | 1.25 | 31.8 | 2.95 | 75.0 | .48 | 12.2 | 1.70 | 43.2 |
| 601-800        | 4.33 | 110.0 | 2.50 | 63.5 | .37  | 9.5  | 1.75 | 44.4 | 3.17 | 80.5 | .56 | 14.1 | 1.70 | 43.2 |



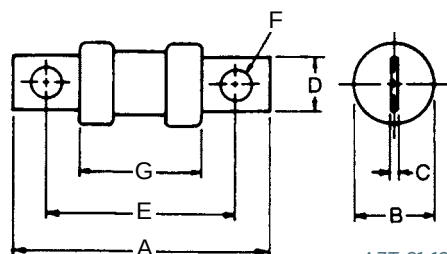
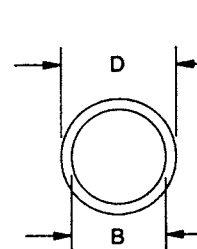
A3T 1-60



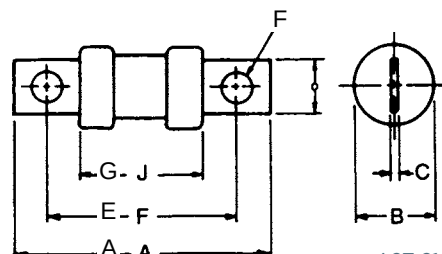
A6T 1-30



A6T 31-60



A3T 61-1200



A6T 61-800

# A2K-R & A6K-R

Fast Acting/Class RK1

## NORTH AMERICAN POWER FUSES

THESE FAST-ACTING FUSES DELIVER A HIGH DEGREE OF CURRENT LIMITATION WHERE YOU NEED IT MOST



Current-limiting A2K and A6K fuses provide excellent protection where high available short circuit currents exist. These fast-acting fuses are particularly good for branch/feeder circuits and back-up protection.

### FEATURES/BENEFITS:

- Rejection style design prevents replacement by other fuse classes
- Fiberglass body provides dimensional stability in harsh industrial environments
- Easy-to-read imprint label for quick recognition and replacement
- High degree of current limitation for low peak let-thru current

### RATINGS:

#### A2K

- **Volts:** 250VAC / DC
- **Amps:** 1 to 600A
- **IR:** 200kA I.R. AC, 20kA I.R. DC

#### A6K

- **Volts:** 600VAC / 300VDC
- **Amps:** 1 to 600A
- **IR:** 200kA I.R. AC, 20kA I.R. DC

### HIGHLIGHTS

- Highly current-limiting
- Fast-acting
- Rejection style

### APPLICATIONS:

- Loadcenters
- Panelboards
- Switchboards
- Bus duct
- Feeder circuits
- Non-inductive loads
- Lighting circuits

### APPROVALS:

- UL listed to standard 248-12 File E2137
- CSA certified to standard C22.2 No. 248.12
- Self-certified for DC per UL248





## CATALOG NUMBERS (AMPS)

| 250V   |         |         | 600V   |         |         |
|--------|---------|---------|--------|---------|---------|
| A2K1R  | A2K35R  | A2K175R | A6K1R  | A6K35R  | A6K175R |
| A2K3R  | A2K40R  | A2K200R | A6K3R  | A6K40R  | A6K200R |
| -      | A2K45R  | A2K225R | A6K4R  | A6K45R  | A6K225R |
| A2K5R  | A2K50R  | A2K250R | A6K5R  | A6K50R  | A6K250R |
| A2K6R  | A2K60R  | A2K300R | A6K6R  | A6K60R  | A6K300R |
| -      | A2K70R  | A2K350R | A6K8R  | A6K70R  | A6K350R |
| A2K10R | A2K80R  | A2K400R | A6K10R | A6K80R  | A6K400R |
| A2K15R | A2K100R | A2K500R | A6K15R | A6K100R | A6K500R |
| A2K20R | A2K110R | A2K600R | A6K20R | A6K110R | A6K600R |
| A2K25R | A2K125R |         | A6K25R | A6K125R |         |
| A2K30R | A2K150R |         | A6K30R | A6K150R |         |

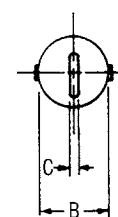
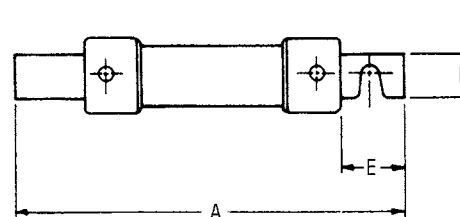
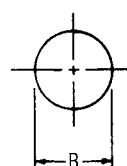
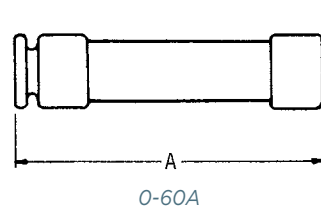
## RECOMMENDED FUSE BLOCKS WITH BOX CONNECTORS FOR AMP-TRAP® CLASS RK1 FUSES

| Fuse Ampere Rating | Catalog Number |        |                |        |
|--------------------|----------------|--------|----------------|--------|
|                    | 250V<br>1-Pole | 3-Pole | 600V<br>1-Pole | 3-Pole |
| 0-30               | 20306R         | 20308R | 60306R         | 60308R |
| 31-60              | 20606R         | 20608R | 60606R         | 60608R |
| 61-100             | 21036R         | 21038R | 61036R         | 61038R |
| 101-200            | 22001R         | 22003R | 62001R         | 62003R |
| 201-400            | 24001R         | 24003R | 64001R         | 64003R |
| 401-600            | 2631R          | 2633R  | 6631R          | 6633R  |

A variety of pole configurations and termination provisions are available. Refer to Section H for details.

## DIMENSIONS

| Ampere Rating         | A      |     | B       |    | C    |    | D     |    | E     |    |
|-----------------------|--------|-----|---------|----|------|----|-------|----|-------|----|
|                       | in     | mm  | in      | mm | in   | mm | in    | mm | in    | mm |
| <b>250V-A2K Fuses</b> |        |     |         |    |      |    |       |    |       |    |
| 0-30                  | 2      | 51  | 9/16    | 14 | -    | -  | -     | -  | -     | -  |
| 31-60                 | 3      | 76  | 13/16   | 21 | -    | -  | -     | -  | -     | -  |
| 61-100                | 5-7/8  | 149 | 1-1/16  | 27 | 1/8  | 3  | 3/4   | 19 | 1     | 25 |
| 101-200               | 7-1/8  | 181 | 1-9/16  | 40 | 3/16 | 5  | 1-1/8 | 28 | 1-3/8 | 35 |
| 201-400               | 8-5/8  | 219 | 2-1/16  | 53 | 1/4  | 6  | 1-5/8 | 41 | 1-7/8 | 48 |
| 401-600               | 10-3/8 | 264 | 2-9/16  | 66 | 1/4  | 6  | 2     | 51 | 2-1/4 | 57 |
| <b>600V-A6K Fuses</b> |        |     |         |    |      |    |       |    |       |    |
| 0-30                  | 5      | 127 | 13/16   | 21 | -    | -  | -     | -  | -     | -  |
| 31-60                 | 5-1/2  | 139 | 1-1/16  | 27 | -    | -  | -     | -  | -     | -  |
| 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 |



# AG

Class G

## NORTH AMERICAN POWER FUSES

AMP-TRAP® AG FUSES FIT RIGHT IN TO A WIDE VARIETY OF INDUSTRIAL APPLICATIONS



The Mersen Amp-Trap AG fuse series is a complete line of Class G fuses. AG fuses safely fit a wide variety of applications. Class G fuses are made in four physical sizes and provide superior branch-circuit protection for lighting, heating, and appliance circuits.

### FEATURES/BENEFITS:

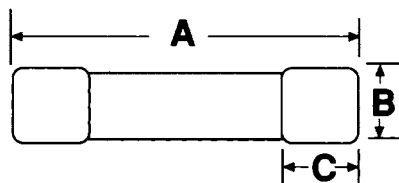
- Four unique sizes from 1/2-60 amperes do not allow interchangeability with other fuse classes
- Fiberglass bodies provide dimensional stability in harsh industrial settings

### CATALOG NUMBERS (AMPS)

|         |     |     |      |      |      |      |
|---------|-----|-----|------|------|------|------|
| AG1/2   | AG2 | AG5 | AG10 | AG25 | AG40 | AG50 |
| AG1     | AG3 | AG6 | AG15 | AG30 | AG45 | AG60 |
| AG1-1/2 | AG4 | AG8 | AG20 | AG35 |      |      |

### DIMENSIONS

| Ampere Rating | A    |      | B    |      | C   |     |
|---------------|------|------|------|------|-----|-----|
|               | in   | mm   | in   | mm   | in  | mm  |
| 1/2-15A       | 1.31 | 33.3 | .406 | 10.3 | .28 | 7.1 |
| 20A           | 1.41 | 35.8 | .406 | 10.3 | .28 | 7.1 |
| 25, 30A       | 1.62 | 41.2 | .406 | 10.3 | .28 | 7.1 |
| 35-60A        | 2.25 | 57.2 | .406 | 10.3 | .50 |     |



Cross Reference: AG will replace the following fuses: Bussmann SC, Littelfuse SLC

### RATINGS:

- **Volts:** 600VAC (1/2 to 20A), 480VAC (25 to 60A)
- **Amps:** 1/2 to 60A
- **IR:** 100kA I.R. AC

### HIGHLIGHTS:

- Current-limiting
- Time-delay (above 5A)

### APPLICATIONS:

- Lighting
- Heating\*
- Appliances

\*except in Canada where fuses must be "P" or "D" type.

### APPROVALS:

- UL listed to standard 248-5 File E2137
- CSA certified to standard C22.2 No. 248.5



# ATMR

Fast Acting/Class CC

## NORTH AMERICAN POWER FUSES

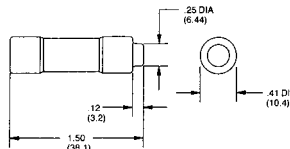
### SMALL FUSE - BIG PROTECTION FOR GENERAL CIRCUITS



Amp-Trap® ATMR fuses, in the Class CC family, are the smallest dimension 600VAC/DC fuses suitable for branch circuit protection. The ATMR is a popular choice for economical protection of control circuits and control circuit transformers where available short circuit currents exceed 10,000 amperes. ATMR's rejection dimensions prevent substitution by lesser rated fuses. These fast acting fuses give current-limiting protection to general circuits.

## CATALOG NUMBERS (AMPS)      DIMENSIONS

|          |           |       |        |
|----------|-----------|-------|--------|
| ATMR1/10 | ATMR1     | ATMR4 | ATMR10 |
| ATMR1/8  | ATMR1-1/4 | ATMR5 | ATMR12 |
| ATMR2/10 | ATMR1-1/2 | ATMR6 | ATMR15 |
| ATMR1/4  | ATMR2     | ATMR7 | ATMR20 |
| ATMR3/10 | ATMR2-1/2 | ATMR8 | ATMR25 |
| ATMR1/2  | ATMR3     | ATMR9 | ATMR30 |
| ATMR3/4  | ATMR3-1/2 |       |        |



## RECOMMENDED FUSE BLOCKS FOR AMP-TRAP® CLASS CC FUSES

| Number of Poles | UltraSafe™ Indicating Fuse Holders | Screw Connector with Double Quick Connects | Pressure Plate Connector with Double Quick Connects | Cooper Box Connector |
|-----------------|------------------------------------|--------------------------------------------|-----------------------------------------------------|----------------------|
| Adder           | —                                  | 30310R                                     | 30320R                                              | 30350R               |
| 1               | USCC1I                             | 30311R                                     | 30321R                                              | 30351R               |
| 2               | USCC2I                             | 30312R                                     | 30322R                                              | 30352R               |
| 3               | USCC3I                             | 30313R                                     | 30323R                                              | 30353R               |
| 3               | USFMCCI                            | —                                          | —                                                   | —                    |

A variety of pole configurations and termination provisions are available. Refer to Section H for details.

## RATINGS:

- **Volts:** 600VAC / DC
- **Amps:** 1/10 to 30A
- **IR:** 200kA I.R. AC, 100kA I.R. DC

## HIGHLIGHTS:

- Fast-acting
- Very current-limiting

## APPLICATIONS:

- Control circuits
- Lighting
- General loads
- Branch circuit protection

## FEATURES/ BENEFITS:

- Rejection-style design prevents replacement errors when used with recommended fuse blocks
- Versatile design for individual component and branch circuit protection

## APPROVALS:

- UL Listed to Standard 248-4 File E2137
- CSA Certified to Standard C22.2 No. 248.4
- DC listed to UL Standard 248



# OT/OTN/OTS

Class K-5

## NORTH AMERICAN POWER FUSES

FOR VERSATILITY AND ECONOMY, THESE GENERAL PURPOSE FUSES ARE HARD TO BEAT



OT, OTN and OTS general purpose fuses provide low cost protection for feeder and branch circuits serving lighting, heating, and other non-motor loads. OT, OTN and OTS fuses will safely interrupt available short circuit currents up to 50,000 amperes in all ratings. OT, OTN and OTS fuses are not rejection fuses – care should be taken to ensure that replacement fuses do not have lower interrupting ratings than original fuses. OTN 15 through 60 satisfy the Canadian electrical code requirement for Type “P,” low melting-point, non-time-delay fuses.

### FEATURES/BENEFITS:

- Easy to read imprint label for quick recognition and replacement
- Low cost for high protection value

### APPLICATIONS:

- Feeders
- Branch circuits
- Resistive heating
- Residential and small commercial installations

### RATINGS:

#### OT

- **Volts:** 250VAC / DC
- **Amps:** 1 to 600A
- **IR:** 50kA I.R. AC, 20kA I.R. DC

#### OTN (Canada)\*

- **Volts:** 250VAC
- **Amps:** 15 to 60A
- **IR:** 50kA I.R. AC

#### OTS

- **Volts:** 600VAC / 300VDC
- **Amps:** 1 to 600A
- **IR:** 50kA I.R. AC, 20kA I.R. DC

### HIGHLIGHTS:

- Versatile
- Lowest cost protection for circuits serving non-inductive loads

### APPROVALS:

- UL Listed to Standard 248-9 File E2137
- CSA Certified to Standard C22.2 No. 248.9\*
- Self-certified for DC per UL248



*\*The Canadian Electrical Code requires these fuses in ratings 15 through 60A to be of the low melting point design use OTN 15-60.*

## CATALOG NUMBERS (AMPS)

| 250V         |              |       | 600V  |        |        |
|--------------|--------------|-------|-------|--------|--------|
| OT1          | OT30, OTN30* | OT125 | OTS1  | OTS30  | OTS125 |
| OT2          | OT35, OTN35* | OT150 | OTS2  | OTS35  | OTS150 |
| OT3          | OT40, OTN40* | OT175 | OTS3  | OTS40  | OTS175 |
| OT4          | OT45, OTN45* | OT200 | OTS4  | OTS45  | OTS200 |
| OT5          | OT50, OTN50* | OT225 | OTS5  | OTS50  | OTS225 |
| OT6          | OT60, OTN60* | OT250 | OTS6  | OTS60  | OTS250 |
| OT7          | OT65         | OT300 | —     | —      | OTS300 |
| OT8          | OT70         | OT350 | OTS8  | OTS70  | OTS350 |
| OT10         | OT75         | OT400 | OTS10 | OTS75  | OTS400 |
| OT12         | OT80         | OT450 | OTS12 | OTS80  | OTS450 |
| OT15, OTN15* | OT90         | OT500 | OTS15 | OTS90  | OTS500 |
| OT20, OTN20* | OT100        | OT600 | OTS20 | OTS100 | OTS600 |
| OT25, OTN25* | OT110        |       | OTS25 | OTS110 |        |

\* In Canada

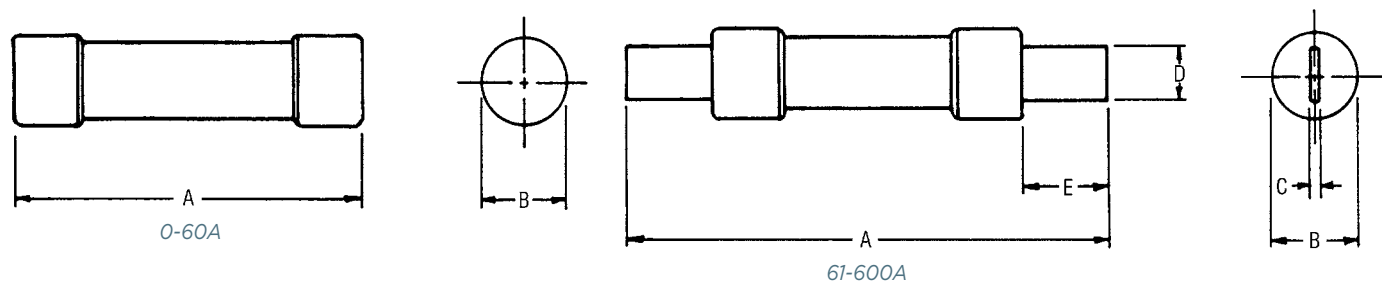
## RECOMMENDED FUSE BLOCKS WITH BOX CONNECTORS FOR ONE-TIME CLASS K-5 FUSES

| Ampere Fuse<br>Rating | Catalog Number |        |                |        |
|-----------------------|----------------|--------|----------------|--------|
|                       | 250V<br>1-Pole | 3-Pole | 600V<br>1-Pole | 3-Pole |
| 0-30                  | 20306          | 20308  | 60306          | 60308  |
| 31-60                 | 20606          | 20608  | 60606          | 60608  |
| 61-100                | 21036          | 21038  | 61036          | 61038  |
| 101-200               | 22001          | 22003  | 62001          | 62003  |
| 201-400               | 24001          | 24003  | 64001          | 64003  |
| 401-600               | 2631           | 2633   | 6631           | 6633   |

A variety of pole configurations and termination provisions are available. Refer to Section H for details.

## DIMENSIONS

| Ampere<br>Rating   | A      |     | B       |    | C    |    | D     |    | E     |    |
|--------------------|--------|-----|---------|----|------|----|-------|----|-------|----|
|                    | in     | mm  | in      | mm | in   | mm | in    | mm | in    | mm |
| 250V-OT, OTN Fuses |        |     |         |    |      |    |       |    |       |    |
| 0-30               | 2      | 51  | 9/16    | 14 | -    | -  | -     | -  | -     | -  |
| 31-60              | 3      | 76  | 13/16   | 21 | -    | -  | -     | -  | -     | -  |
| 61-100             | 5-7/8  | 149 | 1-1/16  | 27 | 1/8  | 3  | 3/4   | 19 | 1     | 25 |
| 101-200            | 7-1/8  | 181 | 1-9/16  | 40 | 3/16 | 5  | 1-1/8 | 28 | 1-3/8 | 35 |
| 201-400            | 8-5/8  | 219 | 2-1/16  | 53 | 1/4  | 6  | 1-5/8 | 41 | 1-7/8 | 48 |
| 401-600            | 10-3/8 | 264 | 2-9/16  | 66 | 1/4  | 6  | 2     | 51 | 2-1/4 | 57 |
| 600V-OTS Fuses     |        |     |         |    |      |    |       |    |       |    |
| 0-30               | 5      | 127 | 13/16   | 21 | -    | -  | -     | -  | -     | -  |
| 31-60              | 5-1/2  | 139 | 1-1/16  | 27 | -    | -  | -     | -  | -     | -  |
| 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 |



# RF/RFS

Class H

## NORTH AMERICAN POWER FUSES

### TRADITIONAL PROTECTION FOR CIRCUITS WITH LESS THAN 10,000A



RF and RFS general purpose fuses are suitable for applications where available short circuit currents do not exceed 10,000 amperes. RF and RFS renewable fuses use matched RL and RLS die-cut zinc links from 1 to 600 amperes in 32 ratings.

#### FEATURES/BENEFITS:

- Knurled bushings for ease of disassembly
- Rugged construction for maximum service life
- Precision die-cut renewal links renew quickly and give repeatable performance

#### SAFETY NOTE:

**Class H fuses of the renewable type shall be permitted to be used only for replacement in existing installations where there is no evidence of overfusing or tampering (NFPA 70, Article 240.60 [D]).**

#### RATINGS:

##### RF

- **Volts:** 250VAC
- **Amps:** 1 to 600A
- **IR:** 10kA I.R. AC

##### RFS

- **Volts:** 600VAC
- **Amps:** 1 to 600A
- **IR:** 10kA I.R. AC

#### HIGHLIGHTS:

- Renewable
- 32 Renewable link ratings

#### APPLICATIONS:

- General purpose loads where short circuits are 10,000 amperes or less

#### APPROVALS:

- UL listed to standard 248-7 File E2137
- CSA certified to standard C22.2 no. 248.7



## CATALOG NUMBERS (AMPS)

| 250V      |             |             | 600V        |               |               |
|-----------|-------------|-------------|-------------|---------------|---------------|
| RF1/RL1   | RF45/RL45   | RF225/RL225 | RFS1/RLS1   | RFS45/RLS45   | RFS225/RLS225 |
| RF2/RL2   | RF50/RL50   | RF250/RL250 | RFS2/RLS2   | RFS50/RLS50   | RFS250/RLS250 |
| RF3/RL3   | RF60/RL60   | RF300/RL300 | RFS3/RLS3   | RFS60/RLS60   | RFS300/RLS300 |
| RF5/RL5   | RF70/RL70   | RF350/RL350 | RFS5/RLS5   | RFS70/RLS70   | RFS350/RLS350 |
| RF6/RL6   | RF80/RL80   | RF400/RL400 | RFS6/RLS6   | RFS80/RLS80   | RFS400/RLS400 |
| RF10/RL10 | RF90/RL90   | RF450/RL450 | RFS10/RLS10 | RFS90/RLS90   | RFS450/RLS450 |
| RF15/RL15 | RF100/RL100 | RF500/RL500 | RFS15/RLS15 | RFS100/RLS100 | RFS500/RLS500 |
| RF20/RL20 | RF110/RL110 | RF600/RL600 | RFS20/RLS20 | RFS110/RLS110 | RFS600/RLS600 |
| RF25/RL25 | RF125/RL125 |             | RFS25/RLS25 | RFS125/RLS125 |               |
| RF30/RL30 | RF150/RL150 |             | RFS30/RLS30 | RFS150/RLS150 |               |
| RF35/RL35 | RF175/RL175 |             | RFS35/RLS35 | RFS175/RLS175 |               |
| RF40/RL40 | RF200/RL200 |             | RFS40/RLS40 | RFS200/RLS200 |               |

Note: Order RF/RFS for Class H Renewable Fuse Order RL/RLS for Renewable Fuse Links

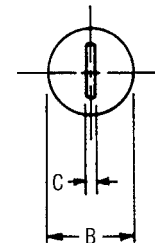
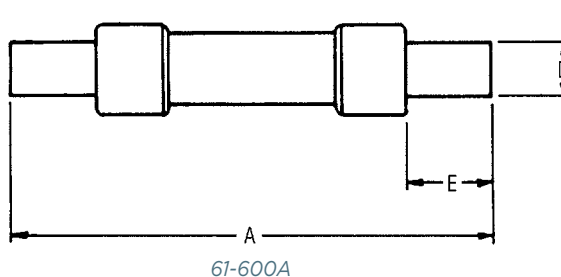
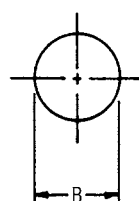
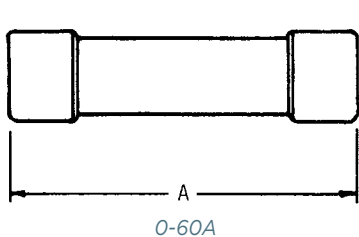
## DIMENSIONS

| Ampere Rating  | A      |     | B       |    | C    |    | D     |    | E     |    |
|----------------|--------|-----|---------|----|------|----|-------|----|-------|----|
|                | in     | mm  | in      | mm | in   | mm | in    | mm | in    | mm |
| 250V-RF Fuses  |        |     |         |    |      |    |       |    |       |    |
| 0-30           | 2      | 51  | 9/16    | 14 | -    | -  | -     | -  | -     | -  |
| 31-60          | 3      | 76  | 13/16   | 21 | -    | -  | -     | -  | -     | -  |
| 61-100         | 5-7/8  | 149 | 1-1/16  | 27 | 1/8  | 3  | 3/4   | 19 | 1     | 25 |
| 101-200        | 7-1/8  | 181 | 1-9/16  | 40 | 3/16 | 5  | 1-1/8 | 28 | 1-3/8 | 35 |
| 201-400        | 8-5/8  | 219 | 2-1/16  | 53 | 1/4  | 6  | 1-5/8 | 41 | 1-7/8 | 48 |
| 401-600        | 10-3/8 | 264 | 2-9/16  | 66 | 1/4  | 6  | 2     | 51 | 2-1/4 | 57 |
| 600V-RFS Fuses |        |     |         |    |      |    |       |    |       |    |
| 0-30           | 5      | 127 | 13/16   | 21 | -    | -  | -     | -  | -     | -  |
| 31-60          | 5-1/2  | 139 | 1-1/16  | 27 | -    | -  | -     | -  | -     | -  |
| 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 |

## RECOMMENDED FUSE BLOCKS WITH BOX CONNECTORS FOR RENEWABLE CLASS H

| Ampere Fuse Rating | Catalog Number |        |             |        |
|--------------------|----------------|--------|-------------|--------|
|                    | 250V 1-Pole    | 3-Pole | 600V 1-Pole | 3-Pole |
| 0-30               | 20306          | 20308  | 60306       | 60308  |
| 31-60              | 20606          | 20608  | 60606       | 60608  |
| 61-100             | 21036          | 21038  | 61036       | 61038  |
| 101-200            | 22001          | 22003  | 62001       | 62003  |
| 201-400            | 24001          | 24003  | 64001       | 64003  |
| 401-600            | 2631           | 2633   | 6631        | 6633   |

A variety of pole configurations and termination provisions are available. Refer to Section H for details.



# Plug Fuses: G/GP/TD/GW/GTL/GT/GSL

Plug Fuses

NORTH AMERICAN POWER FUSES



Mersen Plug Fuses are for industrial and residential applications. Standard non-time delay fuses are for receptacle and lighting circuits. Standard time delay fuses are for motor loads. For Canadian requirements, a type "P" fuse is used for non-motor loads and type "D" fuses are used for electric heating and cycling loads circuits. Both fuses have low melting-point temperature elements. Low-Temp time delay plug fuses have thermal sensitivity are also for cycling loads and motor circuits. Type "S" plug fuses are time delay and tamper-resistant.

## CATALOG NUMBERS (AMPS)

| Catalog Number    |                    |               |                             |                        |                         |                          |
|-------------------|--------------------|---------------|-----------------------------|------------------------|-------------------------|--------------------------|
| Edison Base       |                    |               |                             |                        |                         | Type S                   |
| Non-Time Delay UL | Non-Time Delay CSA | Time-delay UL | "P" Type Non-time Delay CSA | Low-Temp Time-delay UL | "D" Type Time-delay CSA | Rejection* Time-delay UL |
| GW3               | G3                 | -             | -                           | -                      | -                       | -                        |
| GW6               | G6                 | -             | -                           | -                      | -                       | -                        |
| GW10              | G10                | -             | -                           | -                      | -                       | -                        |
| GW15              | -                  | GTL15         | GP15                        | GT15                   | TD15                    | GSL15                    |
| GW20              | -                  | GTL20         | GP20                        | GT20                   | TD20                    | GSL20                    |
| GW25              | -                  | GTL25         | GP25                        | GT25                   | TD25                    | GSL25                    |
| GW30              | -                  | GTL30         | GP30                        | GT30                   | TD30                    | GSL30                    |

FR15 Rejector Rings available

FRW Rejection removal tool available to remove FR15

\*Must be used with an SAG adaptor to fit an Edison base fuse holder.

## RATINGS:

- **Volts:** 125VAC
- **Amps:** 3 to 30A
- **IR:** 10kA I.R. AC
- Choice of Edison Base, Types "P," "D," or "S"

## APPROVALS:

- UL Listed Guide JEFV, File E76208
- CSA Certified Class 142301, File 15525



## TYPE S PLUG FUSE ADAPTORS

Type S adaptors screw into the Edison base and allow Type S fuses to be installed. Type S adaptors prevent the wrong ampere size fuse from being used.



| Cat.No./Rating | Fuse Range - Amps |
|----------------|-------------------|
| SAG3-2/10      | 1-8/10 - 3-2/10   |
| SAG6-1/4       | 3-1/2 - 6-1/4     |
| SAG15          | 7 - 15            |
| SAG20          | 20                |
| SAG30          | 25 - 30           |