

# A2D & A6D

## TIME DELAY / CLASS RK1



### UPGRADE YESTERDAY'S CIRCUITS TO TODAY'S TYPE 2 PROTECTION.

Amp-trap 2000® SmartSpot™ A2D, A6D fuses now provide a visual open fuse indicator. With advanced material technology added to the existing product line the A2D, A6D fuses provide IEC Type “2” (No Damage) protection to main, feeder, and branch circuits, for all types of loads — A2D, A6D’s time delay characteristics for handling harmless in-rush currents, its current limiting ability and wide range of ratings (from 1 to 600 Amperes) — give excellent protection for all your applications.

#### Features/Benefits

- **Solid State SmartSpot Indicator**
- **Time delay** for motor starting and transformer inrush currents without nuisance opening
- **300kA interrupting rating** - self-certified, UL witnessed tests
- **Extremely Current Limiting** for low peak let-thru current
- **Easy 2-to-1 selectivity** for prevention of nuisance shut downs and “black outs”
- **Rejection-style design** prevents replacement errors (when used with recommended fuse blocks)
- **High-visibility orange label** gives instant recognition
- **Reduced inventory** by taking the place of RK5, K, and H fuses
- **Metal-embossed date and catalog number** for easier traceability and lasting identification
- **Fiberglass body** provides dimensional stability in harsh industrial settings
- **Brass end-caps** (blade-style) for cooler operation and superior performance

#### HIGHLIGHTS:

- SmartSpot Indicator
- Time Delay
- Current Limiting
- Plated Terminals

#### APPLICATIONS:

- Motors
- Safety Switches
- Transformers
- Branch Circuit Protection
- Disconnects
- Control Panels
- All General-purpose Circuits

#### Ratings

- **A2D**  
**AC:** 1/10 to 600A  
250VAC, 200kA I.R.  
(self certified for 250VAC, 300kA I.R., UL witnessed)
- **A6D**  
**AC:** 1/10 to 600A  
600VAC, 200kA I.R.  
(self certified for 600VAC, 300kA I.R.)

#### Approvals

- UL Listed to Standard 248-12
- CSA Certified to Standard C22.2 No. 248.12



# TIME DELAY / CLASS RK1 FUSES

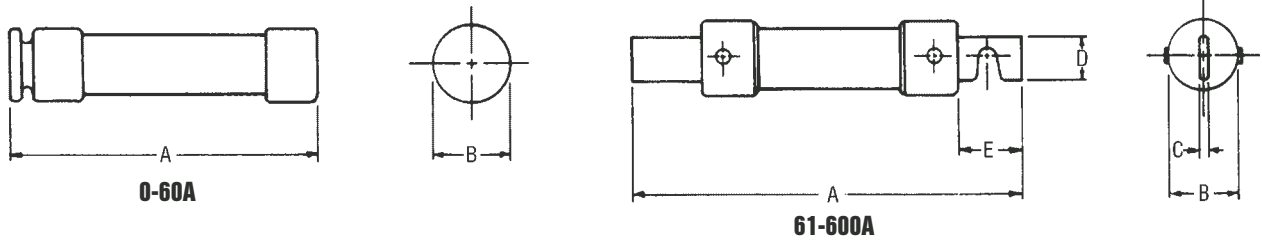
# A2D & A6D



### Standard Fuse Ampere Ratings, Catalog Numbers

| Ampere Rating | Catalog Number |            | Ampere Rating | Catalog Number |            | Ampere Rating | Catalog Number |         |
|---------------|----------------|------------|---------------|----------------|------------|---------------|----------------|---------|
|               | 250V           | 600V       |               | 250V           | 600V       |               | 250V           | 600V    |
| 1/10          | A2D1/10R       | A6D1/10R   | 3-1/2         | A2D3-1/2R      | A6D3-1/2R  | 50            | A2D50R         | A6D50R  |
| 15/100        | A2D15/100R     | A6D15/100R | 4             | A2D4R          | A6D4R      | 60            | A2D60R         | A6D60R  |
| 2/10          | A2D2/10R       | A6D2/10R   | 4-1/2         | A2D4-1/2R      | A6D4-1/2R  | 70            | A2D70R         | A6D70R  |
| 3/10          | A2D3/10R       | A6D3/10R   | 5             | A2D5R          | A6D5R      | 75            | A2D75R         | -       |
| 4/10          | A2D4/10R       | A6D4/10R   | 5-6/10        | A2D5-6/10R     | A6D5-6/10R | 80            | A2D80R         | A6D80R  |
| 1/2           | A2D1/2R        | A6D1/2R    | 6             | A2D6R          | A6D6R      | 90            | A2D90R         | A6D90R  |
| 6/10          | A2D6/10R       | A6D6/10R   | 6-1/4         | A2D6-1/4R      | A6D6-1/4R  | 100           | A2D100R        | A6D100R |
| 8/10          | A2D8/10R       | A6D8/10R   | 7             | A2D7R          | A6D7R      | 110           | A2D110R        | A6D110R |
| 1             | A2D1R          | A6D1R      | 8             | A2D8R          | A6D8R      | 125           | A2D125R        | A6D125R |
| 1-1/8         | A2D1-1/8R      | A6D1-1/8R  | 9             | A2D9R          | A6D9R      | 150           | A2D150R        | A6D150R |
| 1-1/4         | A2D1-1/4R      | A6D1-1/4R  | 10            | A2D10R         | A6D10R     | 175           | A2D175R        | A6D175R |
| 1-4/10        | A2D1-4/10R     | A6D1-4/10R | 12            | A2D12R         | A6D12R     | 200           | A2D200R        | A6D200R |
| 1-6/10        | A2D1-6/10R     | A6D1-6/10R | 15            | A2D15R         | A6D15R     | 225           | A2D225R        | A6D225R |
| 1-8/10        | A2D1-8/10R     | A6D1-8/10R | 17-1/2        | A2D17-1/2R     | A6D17-1/2R | 250           | A2D250R        | A6D250R |
| 2             | A2D2R          | A6D2R      | 20            | A2D20R         | A6D20R     | 300           | A2D300R        | A6D300R |
| 2-1/4         | A2D2-1/4R      | A6D2-1/4R  | 25            | A2D25R         | A6D25R     | 350           | A2D350R        | A6D350R |
| 2-1/2         | A2D2-1/2R      | A6D2-1/2R  | 30            | A2D30R         | A6D30R     | 400           | A2D400R        | A6D400R |
| 2-8/10        | A2D2-8/10R     | A6D2-8/10R | 35            | A2D35R         | A6D35R     | 450           | A2D450R        | A6D450R |
| 3             | A2D3R          | A6D3R      | 40            | A2D40R         | A6D40R     | 500           | A2D500R        | A6D500R |
| 3-2/10        | A2D3-2/10R     | A6D3-2/10R | 45            | A2D45R         | A6D45R     | 600           | A2D600R        | A6D600R |

Note: Indicator Not available (1-7a)



### Dimensions

| AMPERE RATING   | A      |     | B       |    | C    |    | D     |    | E     |    |
|-----------------|--------|-----|---------|----|------|----|-------|----|-------|----|
|                 | in.    | mm  | in.     | mm | in.  | mm | in.   | mm | in.   | mm |
| <b>250V-A2D</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-A6D</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 |

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

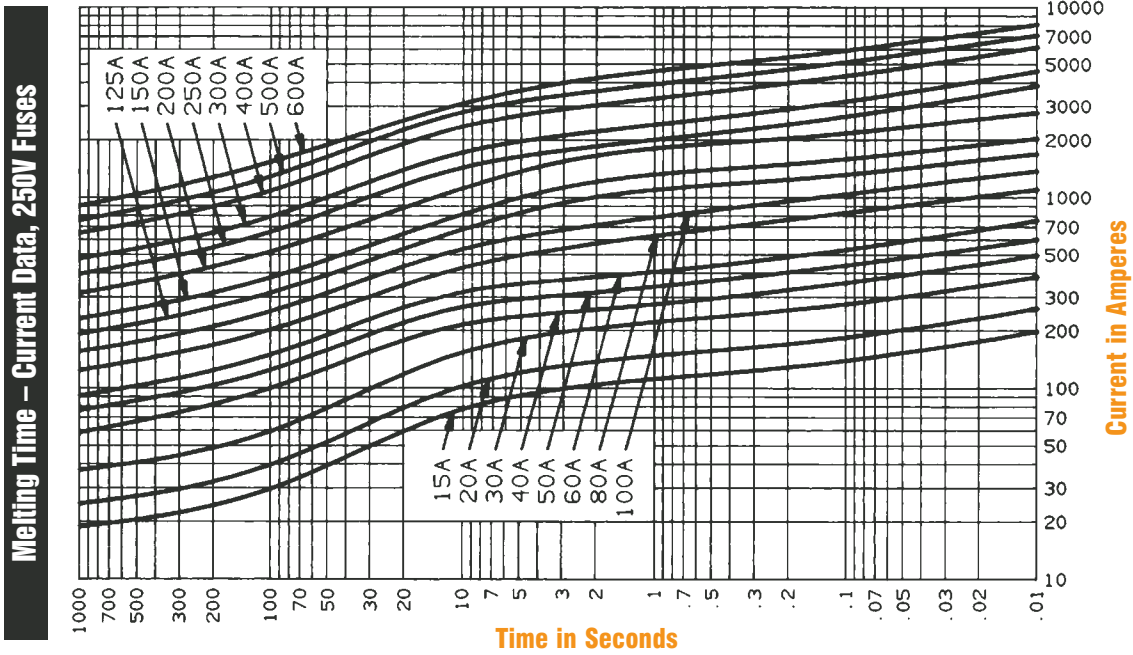
| Fuse Ampere Rating | Catalog Number |        |        |        |
|--------------------|----------------|--------|--------|--------|
|                    | 250V           |        | 600V   |        |
|                    | 1 Pole         | 3 pole | 1 pole | 3 pole |
| 0-30               | 20306R         | 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 is available.

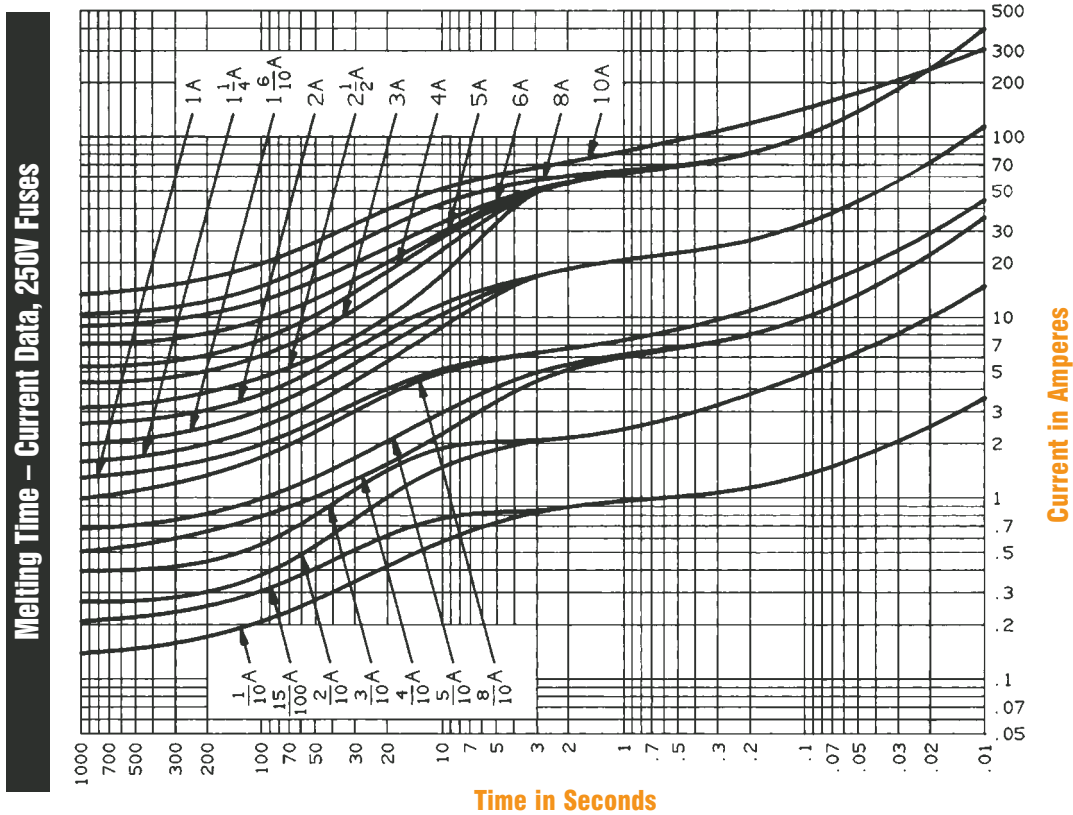
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A2D15 to 600



A2D1/10 to 10

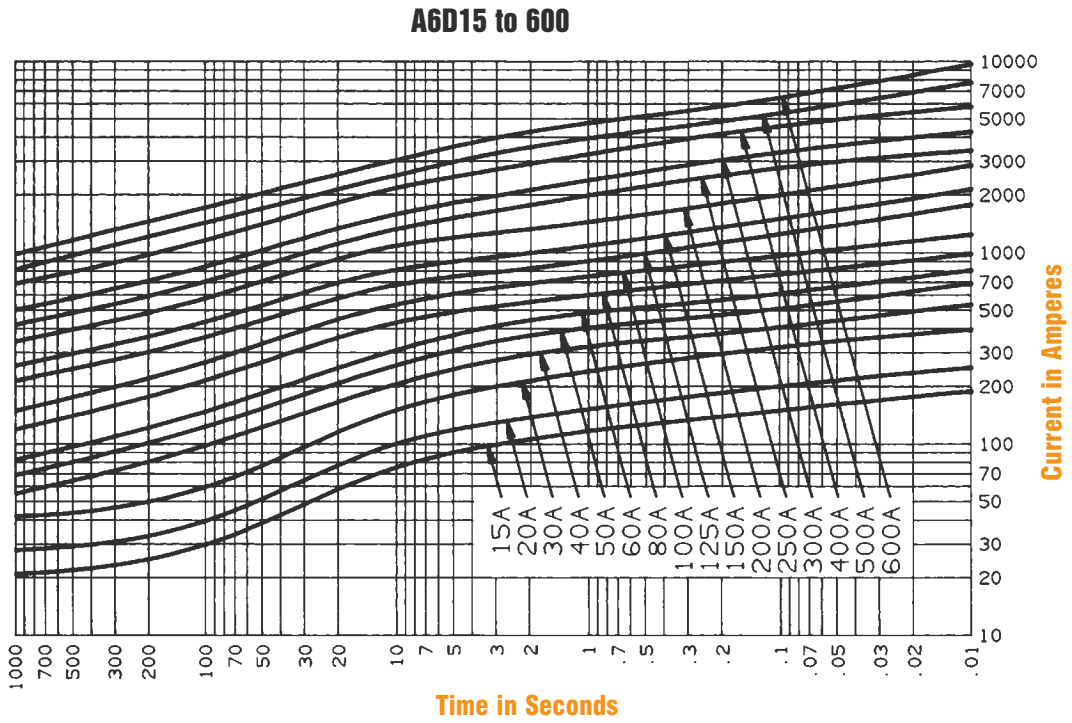


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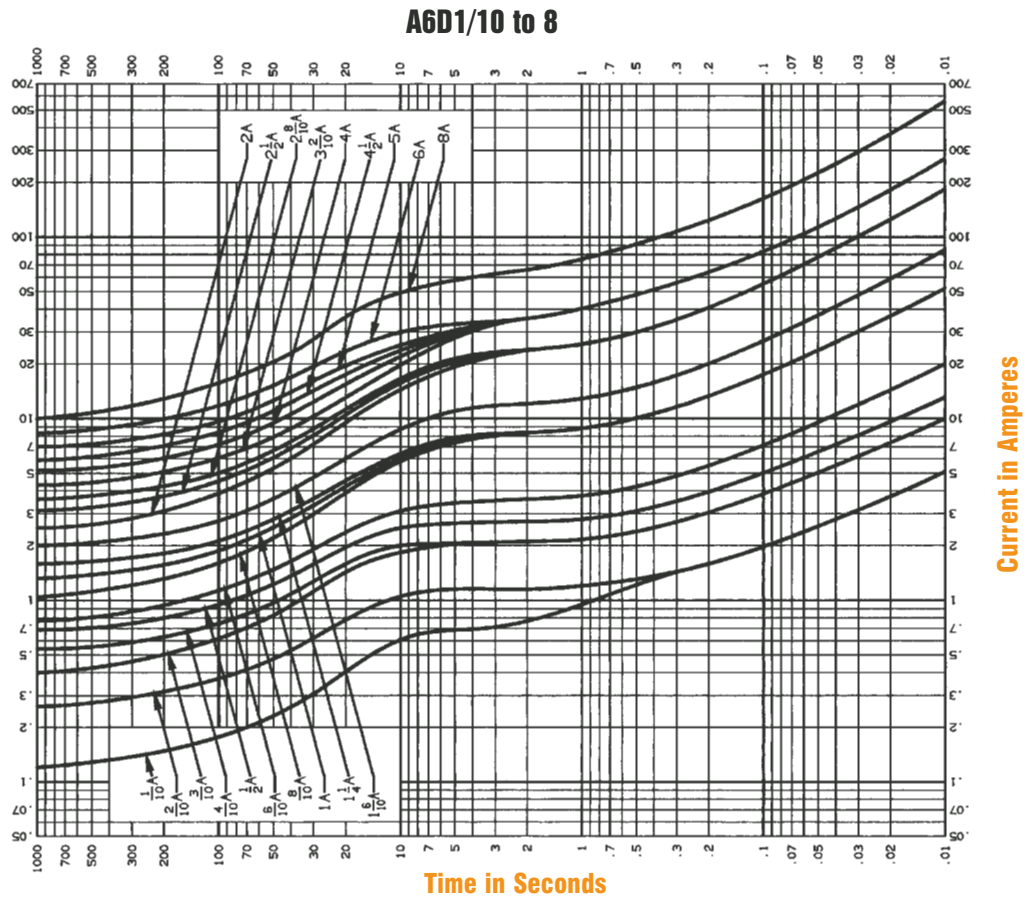
## A2D & A6D



Melting Time – Current Data, 600V Fuses



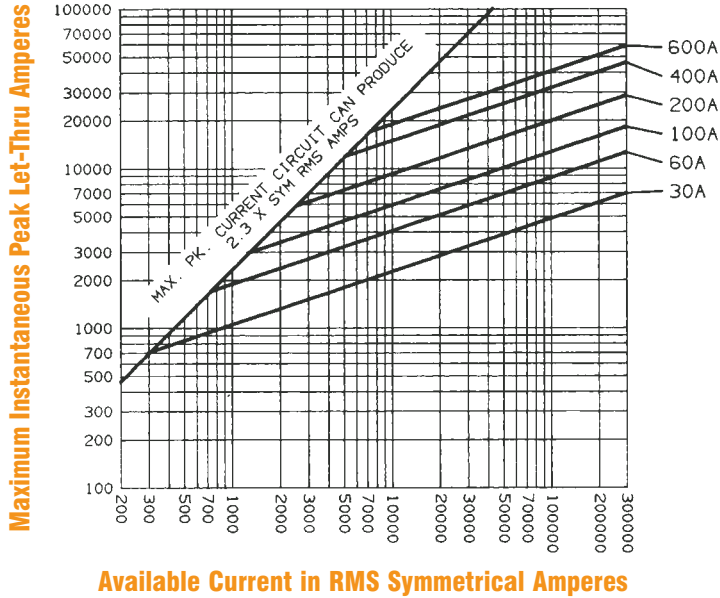
Melting Time – Current Data, 600V Fuses



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### Peak Let-Thru Current Data – A2D30 to 600, 250 Volts AC



**Note: See Application Tables page L9 for Three Phase Class RK1 A2D Fuses and Three Phase Class RK1 A6D Fuses.**

### Peak Let-Thru Current Data – A6D30 to 600, 600 Volts AC

