

## ATM blade fuses



### Catalog symbol

- ATM\_

### Description

A range of UL® Listed fast-acting miniature blade fuses for automotive and low-voltage circuits.

### Ratings

- Volts: 32 Vac/dc
- Amps: 2 to 30 A
- Interrupting rating: 1 kA

### Agency information

- UL Listed, Guide FHXT, File AU169
- ISO 8820-3 / JASO D612 / SAE J2077 and J1171 ignition protection

### Materials

- Silver-plated zinc terminals and element
- Polyamide housing with UL 94 HB flammability rating

### Environmental

- Operating temperature range -40°C to +80°C, 95% RH non-condensing
- Storage temperature range -5°C to +35°C or lower, 85% RH non-condensing

### Basic catalog numbers

| Cat. no.<br>(amp) | Color code | Cat. no.<br>(amp) | Color code |
|-------------------|------------|-------------------|------------|
| ATM-1*            | Black      | ATM-10            | Red        |
| ATM-2             | Gray       | ATM-15            | Blue       |
| ATM-3             | Violet     | ATM-20            | Yellow     |
| ATM-4             | Pink       | ATM-25            | Clear      |
| ATM-5             | Tan        | ATM-30            | Green      |
| ATM-7-1/2         | Brown      |                   |            |

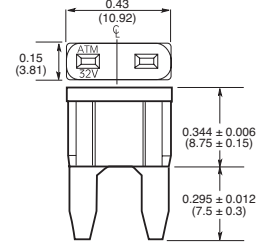
\* Available only in traditional and bulk pack.

### Packaging codes

| Package type | Cat. no.<br>configuration | Contents                     |
|--------------|---------------------------|------------------------------|
| Traditional  | ATM-(amp)                 | 5 fuses in a tin             |
| Reload       | ATM-(amp)RLD*             | 10 fuses in a polybag        |
| Retail pack  | BP/ATM-(amp)-RP           | 5 fuses in a blister card    |
| Value pack   | VP/ATM-(amp)-RP           | 25 fuses in a clamshell pack |
| Bulk pack    | BK/ATM-(amp)              | 500 fuses in a carton        |

\* Not available for the 4 amp ATM fuses.

### Dimensions — in



### Operating @ 23°C\*

| % of fuse amp rating | Min      | Max      |
|----------------------|----------|----------|
| 110%                 | 100 hrs  | —        |
| 135%                 | 0.75 sec | 600 sec  |
| 160%                 | 0.25 sec | 50.0 sec |
| 200%                 | 0.15 sec | 5.0 sec  |
| 350%                 | 0.04 sec | 0.5 sec  |
| 600%                 | 0.02 sec | 0.1 sec  |

\* Fuse characteristics may vary according to the conditions under which they are used. Fuse derating with change in ambient temperature: -0.15% / 1°C.

### Features

- Halogen free and RoHS compliant
- Test points on fuse housing speeds troubleshooting
- Industry standard color coded by amp rating

### Typical applications

- Automotive
- Low voltage control circuits

### Recommended fuse holders, add-a-circuit and fuseclips

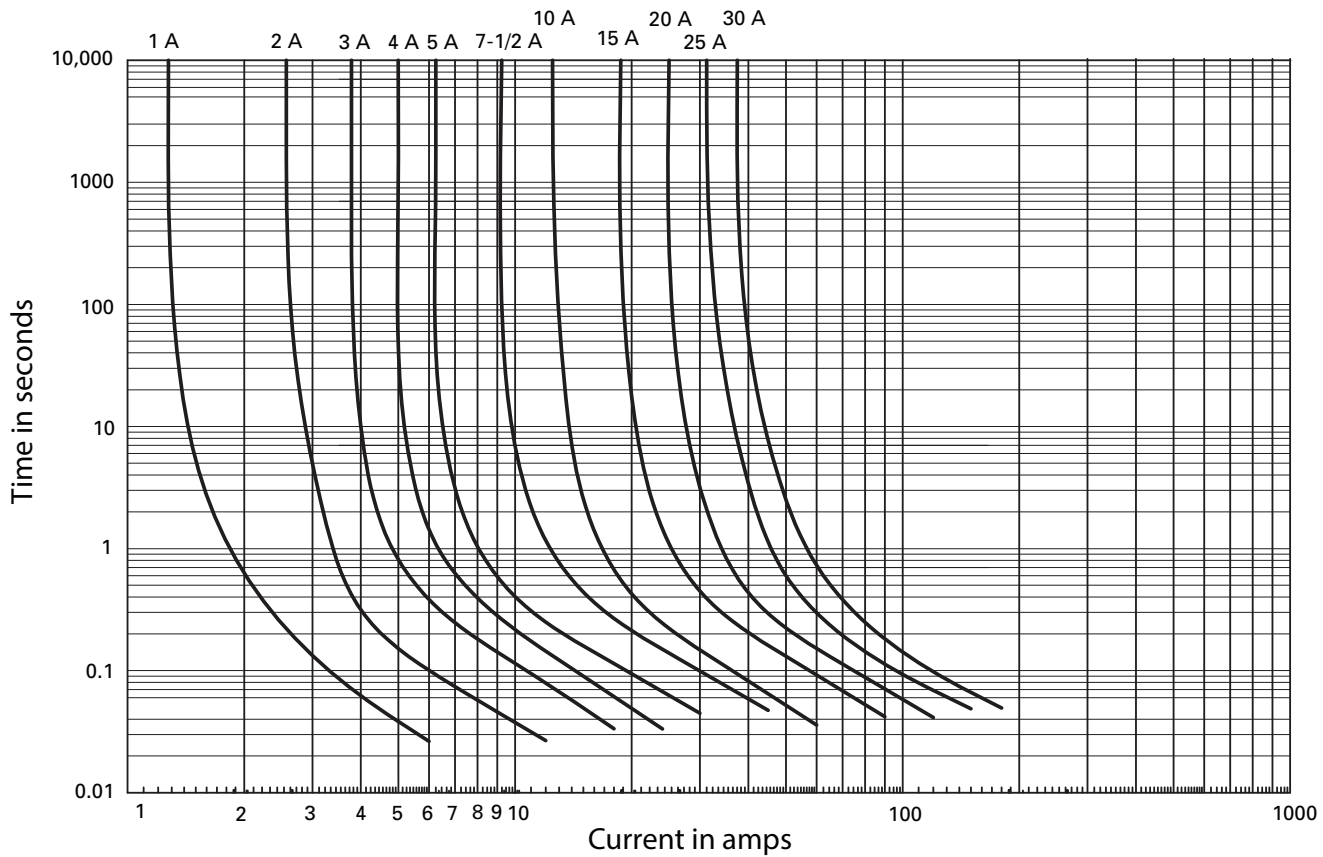
| Part number | Description                                           | Max volts/<br>amps | Leadwire |
|-------------|-------------------------------------------------------|--------------------|----------|
| HHH         | Add-a-circuit for additional fused circuit on a block | 32V/10A            | 5"/#16   |
| HHL         | Inline fuse holder with cover                         | 32V/20A            | 2x4"/#16 |
| HHM         | Inline fuse holder with cover                         | 32V/30A            | 2x4"/#12 |
| HHU         | Water resistant inline fuse holder with cover         | 32V/30A            | 2x4"/#12 |
| ATM-FHID    | Indicating inline fuse holder with cover              | 32V/20A            | 2x4"/#16 |
| 1A5778**    | PCB fuse clip                                         | 32V/15A            | —        |
| 1A5779**    | PCB fuse clip with nylon base                         | 32V/15A            | —        |

\*\* See data sheet no. 2131 for details.



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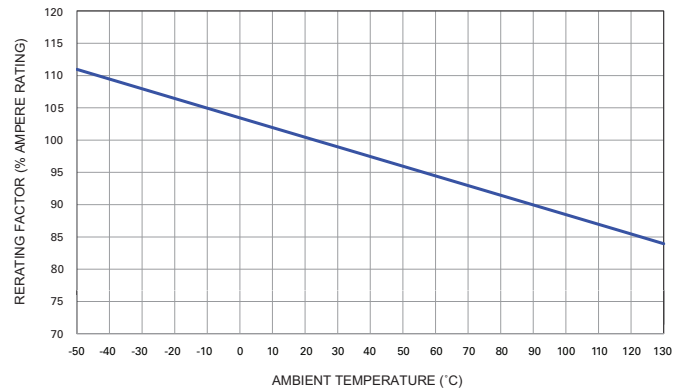
### Time-current characteristic curves — average melt



### Electrical characteristics

| Fuse amps | Resistance | Voltage drop |
|-----------|------------|--------------|
| 1         | 121 mΩ     | 175 mV       |
| 2         | 49.7 mΩ    | 140 mV       |
| 3         | 29.6 mΩ    | 140 mV       |
| 4         | 23.8 mΩ    | 136 mV       |
| 5 A       | 16.7 mΩ    | 112 mV       |
| 7-1/2     | 11.1 mΩ    | 112 mV       |
| 10        | 7.82 mΩ    | 106 mV       |
| 15        | 4.93 mΩ    | 99 mV        |
| 20        | 3.48 mΩ    | 95 mV        |
| 25        | 2.58 mΩ    | 92 mV        |
| 30        | 2.12 mΩ    | 86 mV        |

### Temperature derating curve



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