

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. (amp) | Color code | Cat. no. (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 | | |

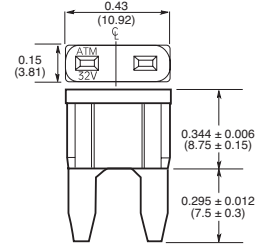
* Available only in traditional and bulk pack.

Packaging codes

| Package type | Cat. no. 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

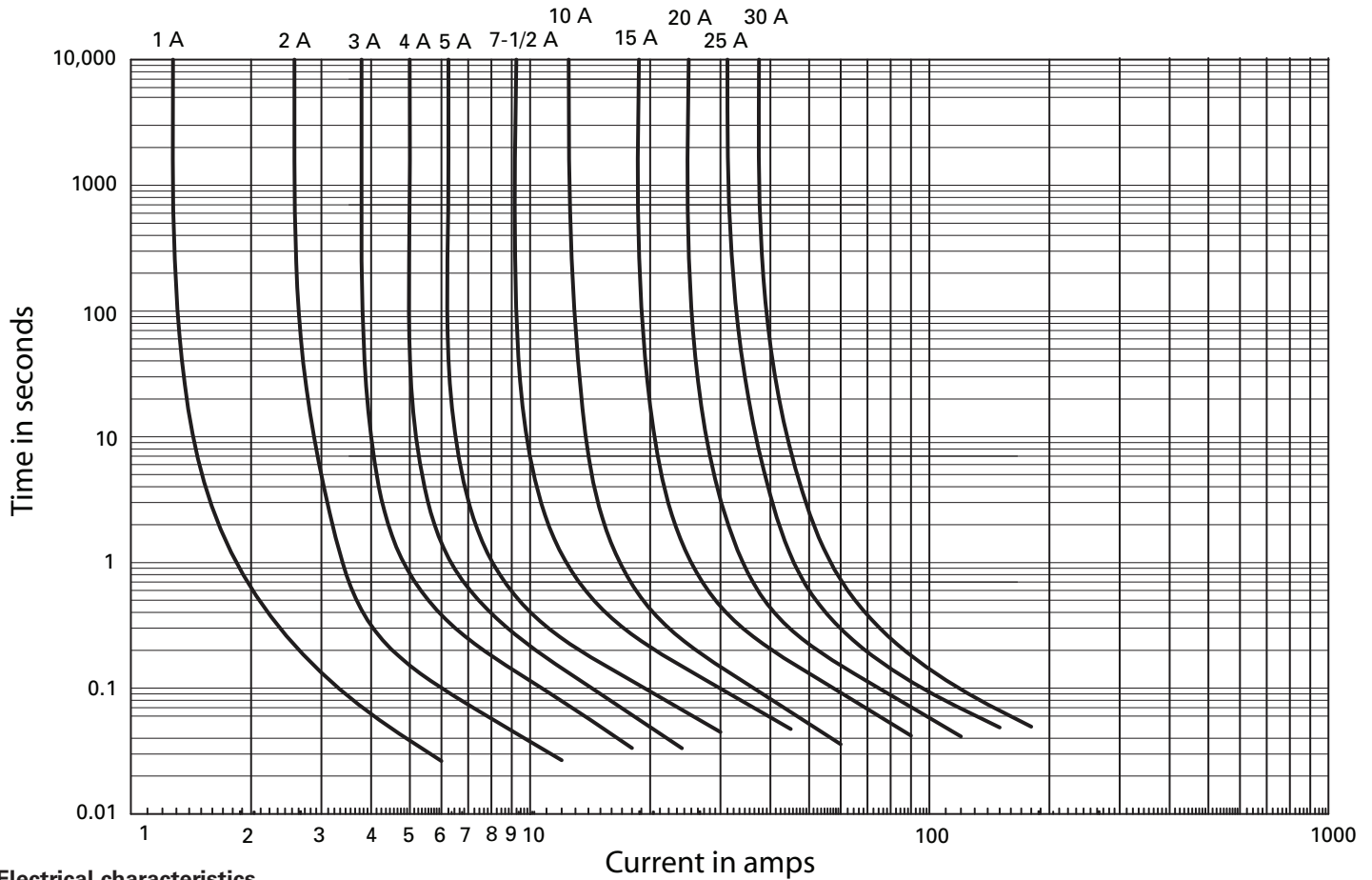
| Part number | Description | Max volts/ amps | Leadwire |
|-------------|---|-----------------|----------|
| HHH | Add-a-circuit for additional fused circuit on a block | 32V/10A | 5"/#16 |
| HHL | Inline fuse holder with cover | 32V/20A | 2x4"/#16 |
| HHM | Inline fuse holder with cover | 32V/30A | 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.



Powering Business Worldwide

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 |

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