# ATC

## Blade fuses

RoHS



### Product description:

A range of UL® Recognized fast-acting ATC blade fuses for automotive and low-voltage control circuits.

Featuring the same form, fit, and electrical and performance characteristics, ATC fuses are available in a variety of housing materials specific to orderable catalog numbers to meet application needs.

### Features and benefits:

- Industry standard color coding for quick identification of amp rating
- Tin-plated zinc terminals for corrosion resistance and enhanced conductivity
- UL Recognized for use in low voltage control circuits
- Wide -40°C to +100°C operating temperature range meets the needs of extreme environments
- Lead free, halogen free and RoHS complaint
- Test points on specific part/package numbers may speed up circuit troubleshooting

# Technical Data 2009

Effective December 2015

### Catalog symbol: ATC

### Applications:

- Automotive and low-voltage control circuits.

### Ratings:

- Volts
  - 32V
- Amps
  - 1-40A
- Interrupting rating
  - 1kA

### Agency information:

- UL Recognized File E56412, Guide JFHR2, UL 248-1 (1-40A).
- ISO 8820-3 / SAE J1284 / JASO 612 (1-40A).
- SAE J1171 (Ignition protection) see catalog number tables for specific orderable product.
- RoHS compliant

### Materials:

- Terminals
  - Tin-plated zinc
- Element
  - Tin-plated zinc
- Housing (see catalog number tables for specific housing materials)
- Housing flammability rating
  - UL 94

### Environmental:

- Operating temperature range -40°C to 100°C, 95% RH non-condensing.
- Storage temperature range -5°C to 35°C or lower, 85% RH non-condensing.

### Basic part numbers*

| Part number (amp) | Color code | Part number (amp) | Color code |
|---|---|---|---|
| ATC-1 | Black | ATC-15 | Blue |
| ATC-2 | Gray | ATC-20 | Yellow |
| ATC-3 | Violet | ATC-25 | Clear |
| ATC-4 | Pink | ATC-30 | Green |
| ATC-5 | Tan | ATC-35 | Blue/Green |
| ATC-7½ | Brown | ATC-40 | Orange |
| ATC-10 | Red | | |

* See catalog number tables on page four for specific construction, housing material and package availability.

### Electrical characteristics @23°C* for all available catalog numbers

| | Operating time (sec) | |
|---|---|---|
| % of fuse amp rating | Min | Max |
| 110 | 100 Hrs | — |
| 135 | 0.75 | 120 (240**) |
| 160 | 0.25 | 50 |
| 200 | 0.15 | 5 |
| 350 | 0.04 | 0.5 |
| 600 | 0.02 | 0.1 |

* Fuse derating with change in ambient temperature = -0.15% / 1°C

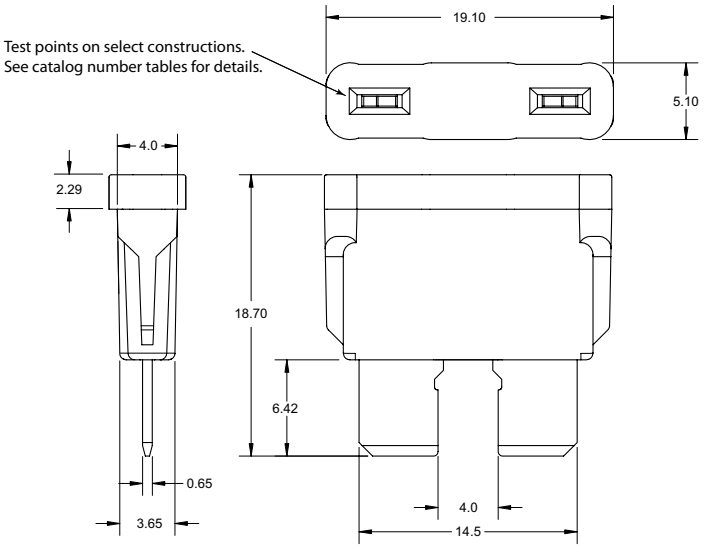
** 135% Operating time of less than 4 amps.

### Recommended fuse panels, holders and fuseclips

| Part no. | Description | Max amps | Lead wire length/size |
|---|---|---|---|
| 15600-_-20 | ATC Fuse panel in 4- to 20-poles | 20A | — |
| HHC | Yellow, water resistant in-line fuse holder | 20A | 2x4"/#16 |
| HHD | Black, heavy-duty in-line fuse holder | 30A | 2x4"/#12 |
| HHF | Black, in-line fuse holder w/ cover | 20A | 2x4"/#14 |
| HHG | Black, heavy-duty in-line fuse holder w/cover | 30A | 2x4"/#12 |
| HHR | Heavy-duty, water resistant in-line fuse holder | 30A | 2x5"/#12 |
| BP/HHS-RP | Self-stripping in-line fuse holder | 20A | #18 to #14 |
| BP/HHA-RP | Add-A-Fuse | 10A | N/A |
| ATC-FHID | Illuminating in-line fuse holder | 20A | 2x6"/#16 |
| 1A5600* | PCB Fuseclip | 20A | — |
| 1A5780* | PCB Fuseclip | 15A | — |

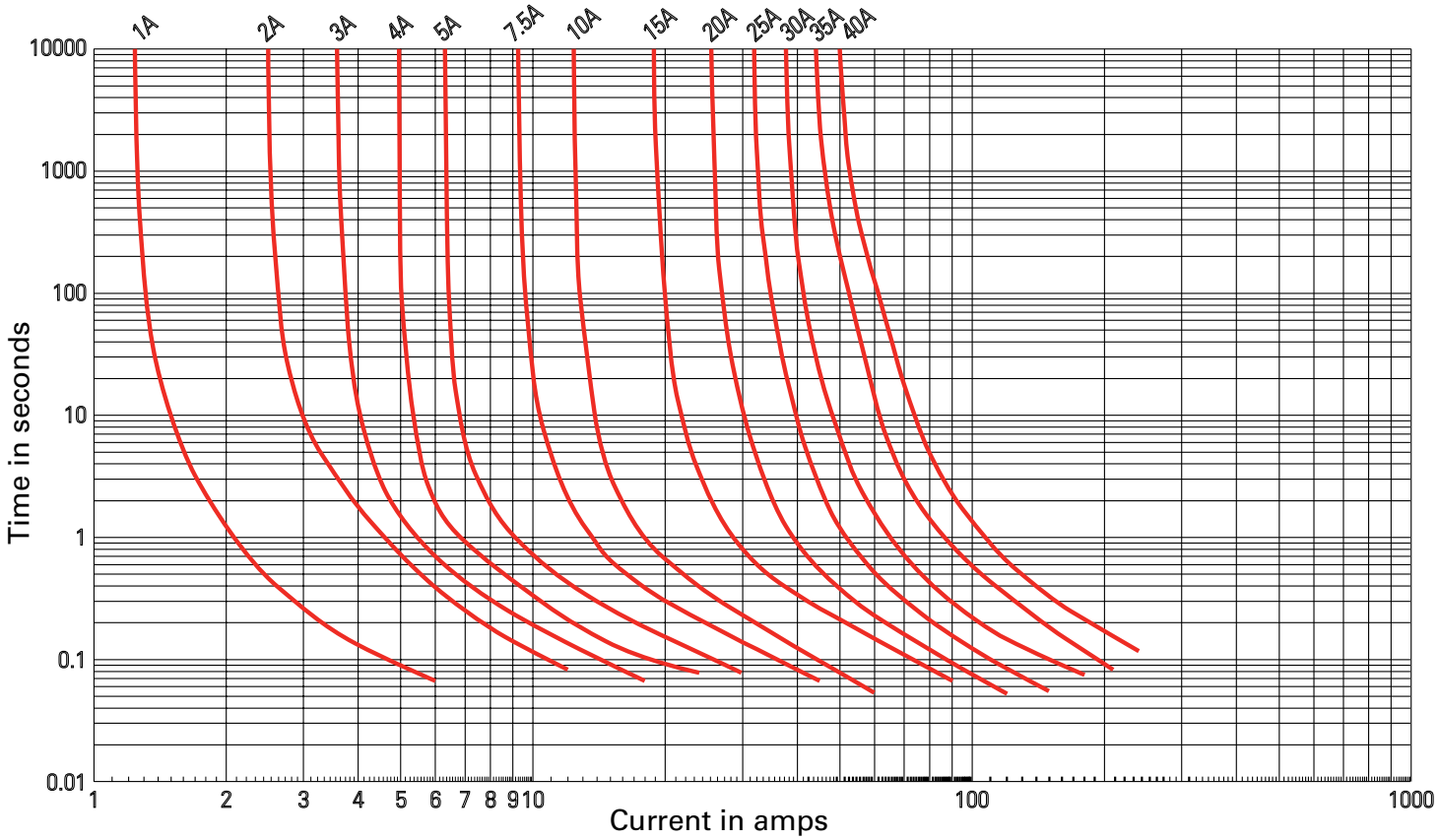
* See Data Sheet No. 2131 for details.

### Dimensions - mm




Dimensions shown are basic for all ampacities, constructions and housing materials.

**Time-current characteristic curves — average melt - for all fuse constructions/housing materials**



## ATC fuse construction and housing material availability by catalog number

### Table 1. ATC fuse catalog number availability for open body housing without test points*

| Reload | Bulk packs | Blister packs | Assortments/kits/trays | Housing material |
|---|---|---|---|---|
| ATC-5RLD | BK/ATC-5 | BP/ATC-5-RP | BP/ATC-A5-RP (fuse assortment) | Nylon |
| ATC-7½RLD | BK/ATC-7½ | BP/ATC-7½-RP | BP/ATC-AH8-RPP (fuse emergency kit) | Nylon |
| ATC-10RLD | BK/ATC-10 | BP/ATC-10-RP | BP/ATC-AL8-RP (low amp assortment) | Nylon |
| ATC-15RLD | BK/ATC-15 | BP/ATC-15-RP | DIA-1 (diagnostic kit) | Nylon |
| ATC-20RLD | BK/ATC-20 | BP/ATC-20-RP | NO.44 (fuse emergancy kit) | Nylon |
| ATC-25RLD | BK/ATC-25 | BP/ATC-25-RP | NO.80 (bulk assortment) | Nylon |
| ATC-30RLD | BK/ATC-30 | BP/ATC-30-RP | NO.95BK (ATC/ATM bulk assortment) | Nylon |
| — | — | — | NO.53 (ATC/MAX fuse emergency kit) | Nylon |
| | | | NO.160BK (bulk assortment) | Nylon |
| | | | NO.225 (tilt bin assortment) | Nylon |

* For specific quantities and amp ratings, see consumer aftermarket product catalog No. 5084.

### Table 2. ATC fuse catalog number availability for closed body housing with test points and SAE J1171 ignition protected

| Reload | Bulk packs* | Blister packs | 5-in tins** | Value packs | Assortments | Housing material |
|---|---|---|---|---|---|---|
| — | BK/ATC-1 | BP/ATC-1-RP | ATC-1 | — | — | Polycarbonate |
| — | BK/ATC-2 | BP/ATC-2-RP | ATC-2 | — | — | Polycarbonate |
| ATC-3RLD | BK/ATC-3 | BP/ATC-3-RP | ATC-3 | — | — | Polycarbonate |
| ATC-4RLD | BK/ATC-4 | BP/ATC-4-RP | ATC-4 | — | — | Polycarbonate |
| — | BK/ATC-5M | — | ATC-5 | VP/ATC-5-RP | — | Polycarbonate |
| — | BK/ATC-71/2M | — | ATC-71/2 | VP/ATC-7-1/2-RP | — | Polycarbonate |
| — | BK/ATC-10M | — | ATC-10 | VP/ATC-10-RP | — | Polycarbonate |
| — | BK/ATC-15M | — | ATC-15 | VP/ATC-15-RP | — | Polycarbonate |
| — | BK-ATC-20M | — | ATC-20 | VP/ATC-20-RP | — | Polycarbonate |
| — | BK-ATC-25M | — | ATC-25 | VP/ATC-25-RP | — | Polycarbonate |
| — | BK-ATC-30M | — | ATC-30 | VP/ATC-30-RP | — | Polycarbonate |
| — | BK-ATC-35 | — | ATC-35 | — | — | Polysulfone |
| — | BK-ATC-40 | BP/ATC-40-RP | ATC-40 | — | — | Polyethersulfone |
| — | — | — | — | — | CDY10TRY-ATC (fuse tray)*** | — |
| — | — | — | — | — | NO.290† | — |

* 2000 fuses per pack.
** 5 fuses per tin.
*** Contains (5 each) – ATC 3, 4, 5,and 7-1/2.
(10 each) – ATC 10, 15, 20, 25, 30, 35 and 40A.
† Contains one 5-in tin each of ATC 3, 4, 5, 7 1/2, 10, 15, 20, 25, 30, 35 and 40A.

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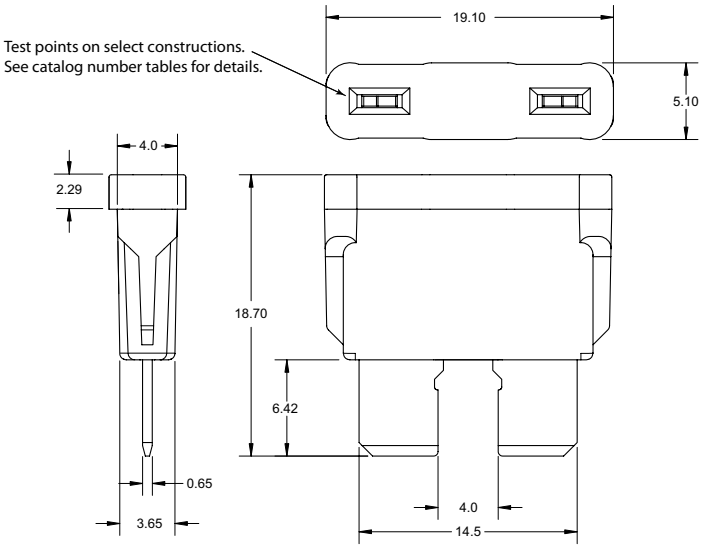
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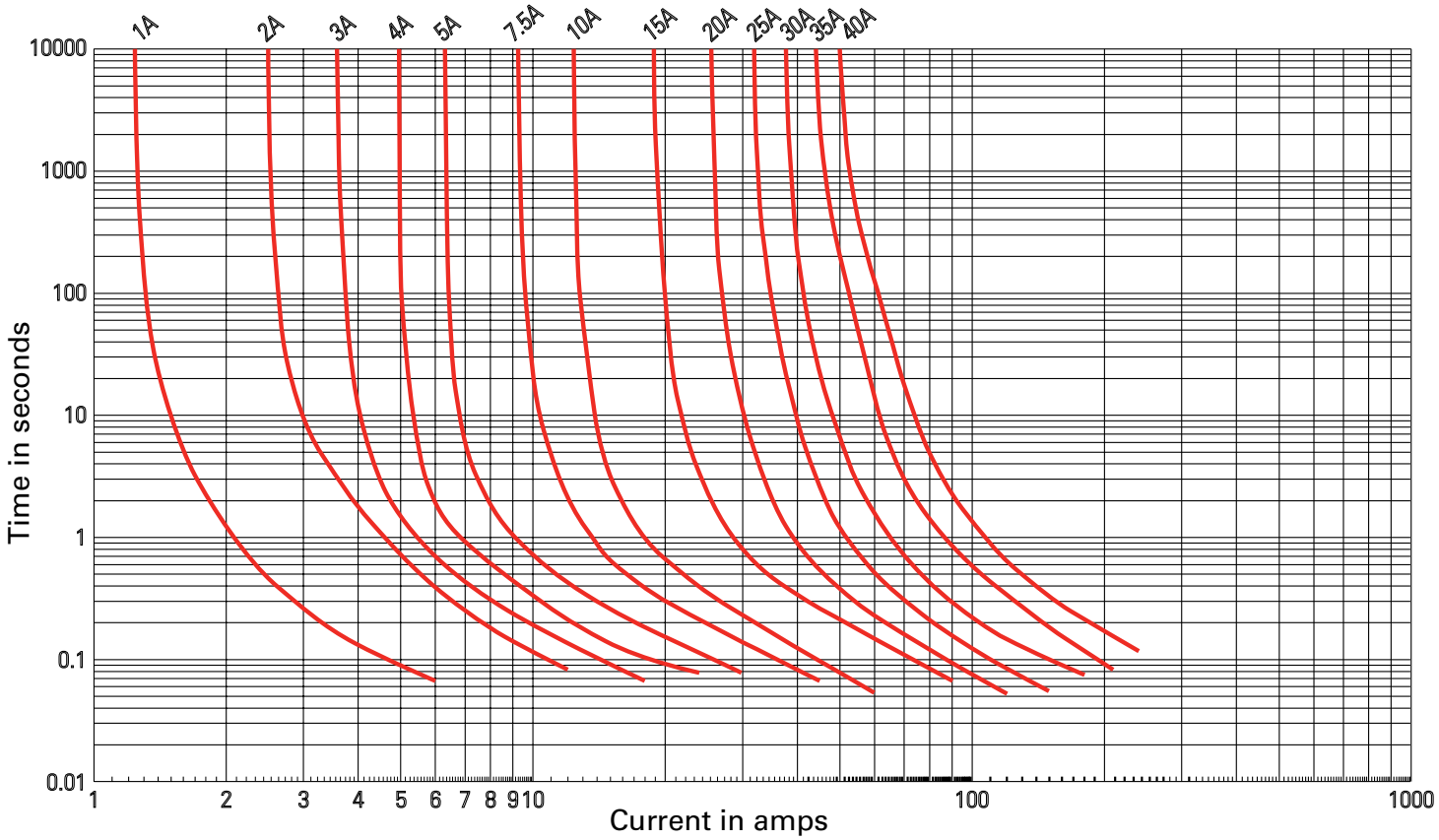
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| ATC-3RLD | BK/ATC-3 | BP/ATC-3-RP | ATC-3 | — | — | Polycarbonate |
| ATC-4RLD | BK/ATC-4 | BP/ATC-4-RP | ATC-4 | — | — | Polycarbonate |
| — | BK/ATC-5M | — | ATC-5 | VP/ATC-5-RP | — | Polycarbonate |
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| — | BK/ATC-15M | — | ATC-15 | VP/ATC-15-RP | — | Polycarbonate |
| — | BK-ATC-20M | — | ATC-20 | VP/ATC-20-RP | — | Polycarbonate |
| — | BK-ATC-25M | — | ATC-25 | VP/ATC-25-RP | — | Polycarbonate |
| — | BK-ATC-30M | — | ATC-30 | VP/ATC-30-RP | — | Polycarbonate |
| — | BK-ATC-35 | — | ATC-35 | — | — | Polysulfone |
| — | BK-ATC-40 | BP/ATC-40-RP | ATC-40 | — | — | Polyethersulfone |
| — | — | — | — | — | CDY10TRY-ATC (fuse tray)*** | — |
| — | — | — | — | — | NO.290† | — |

* 2000 fuses per pack.
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