

# ATC

## Blade fuses



### 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

### 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.

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

| % of fuse amp rating | Operating time (sec) |             |
|----------------------|----------------------|-------------|
|                      | 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

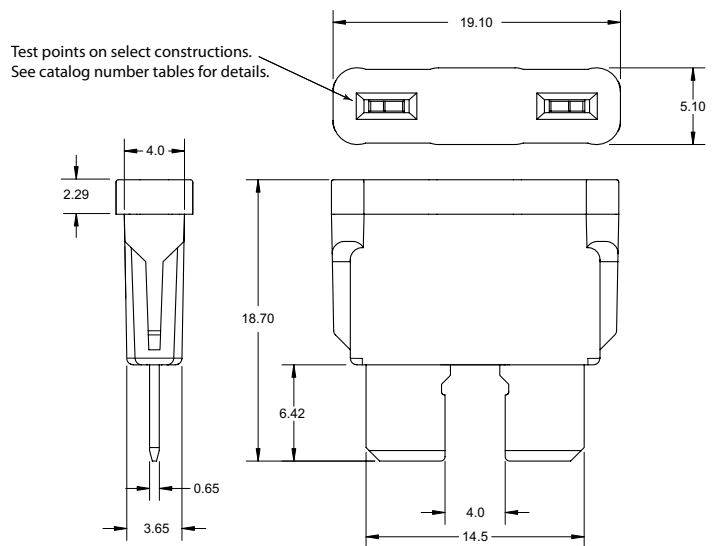
\*\* 135% Operating time of less than 4 amps.

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.

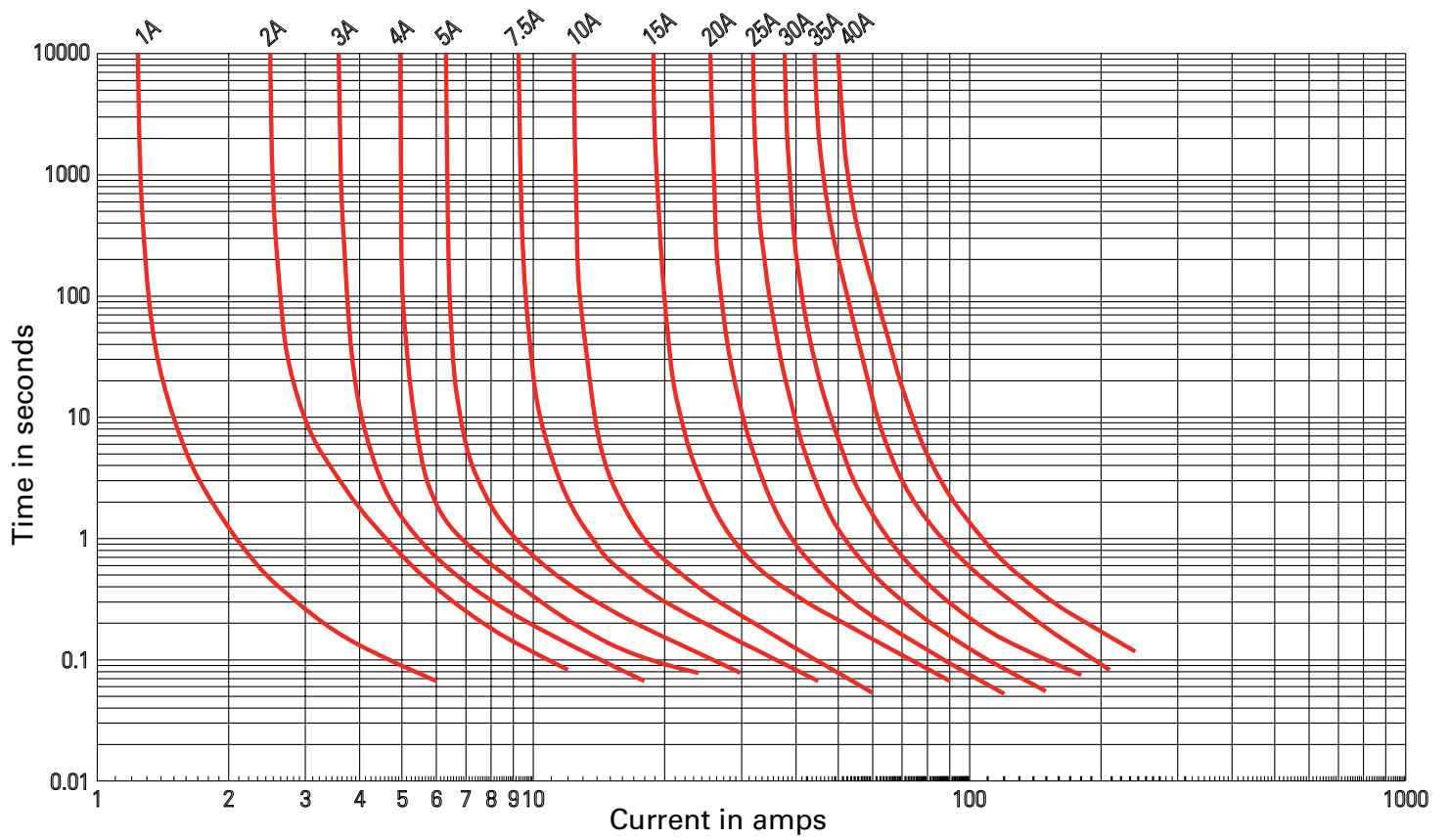
Dimensions - mm



Test points on select constructions. See catalog number tables for details.

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 emergency 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-7½/2M | —             | ATC-7½/2    | 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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\* See catalog number tables on page four for specific construction, housing material and package availability.

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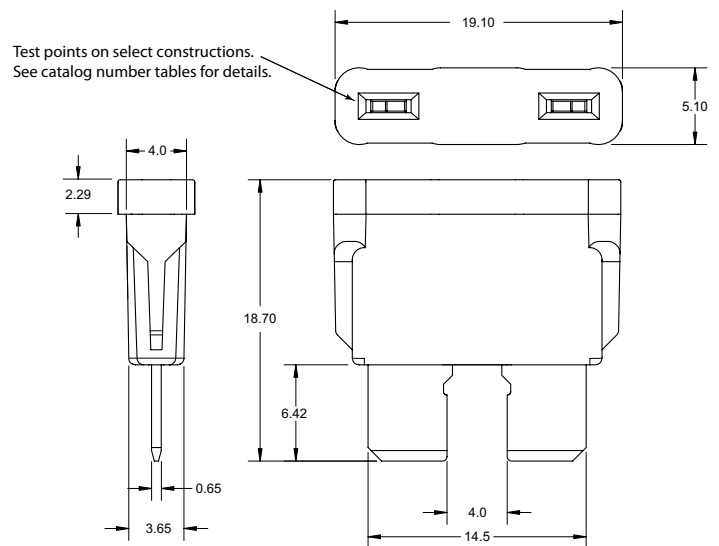
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| BP/HHS-RP | Self-stripping in-line fuse holder              | 20A      | #18 to #14            |
| BP/HHA-RP | Add-A-Fuse                                      | 10A      | N/A                   |
| ATC-FHID  | Illuminating in-line fuse holder                | 20A      | 2x6"/#16              |
| 1A5600*   | PCB Fuseclip                                    | 20A      | —                     |
| 1A5780*   | PCB Fuseclip                                    | 15A      | —                     |

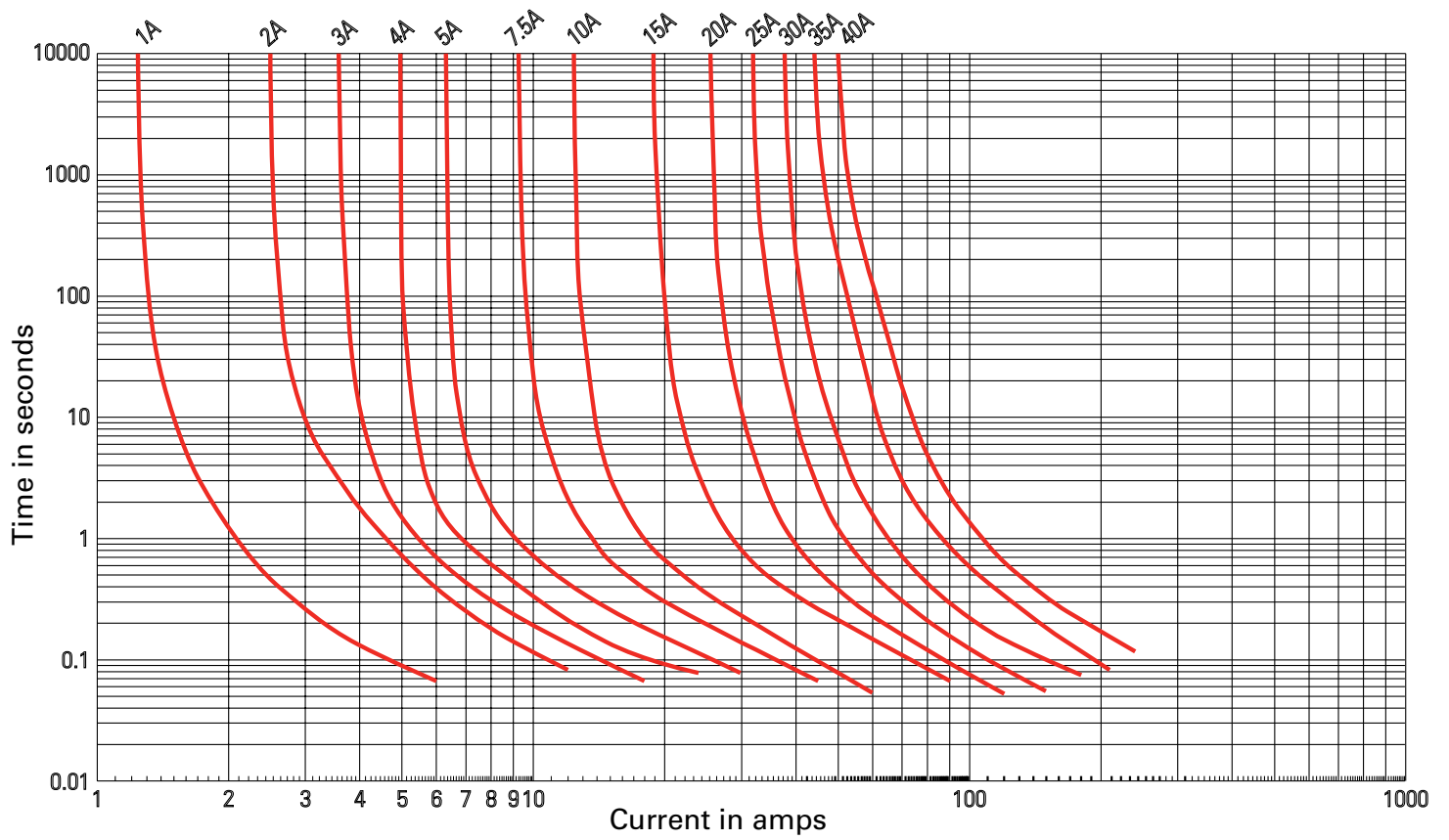
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| ATC-25RLD | BK/ATC-25  | BP/ATC-25-RP  | NO.80 (bulk assortment)             | Nylon            |
| ATC-30RLD | BK/ATC-30  | BP/ATC-30-RP  | NO.95BK (ATC/ATM bulk assortment)   | Nylon            |
| —         | —          | —             | NO.53 (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-7½/2M | —             | ATC-7½/2    | VP/ATC-7½/2-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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