

ATC blade fuses



Product description:

The Bussmann™ series ATC fuses are a range of UL® Recognized fast-acting blade fuses for automotive and low-voltage control circuits.

All catalog numbers for these fuses feature the same form, fit and electrical performance characteristics regardless of their housing materials.

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 compliant.
- Test points on specific part/package numbers may speed up circuit troubleshooting.

Catalog symbol

- ATC_

Applications

- Automotive and low-voltage control circuits.

Ratings

Volts: 32 V

Amps: 1-40 A

Interrupting Rating: 1 kA

Agency information

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

Materials

- Tin-plated zinc terminals
- Tin-plated zinc element
- 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 catalog numbers*

| Basic catalog number (amp) | Color code | Basic catalog 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**

| % 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 |

** At 23°C for all available catalog numbers., Fuse derating with change in ambient temperature = -0.15% / 1°C

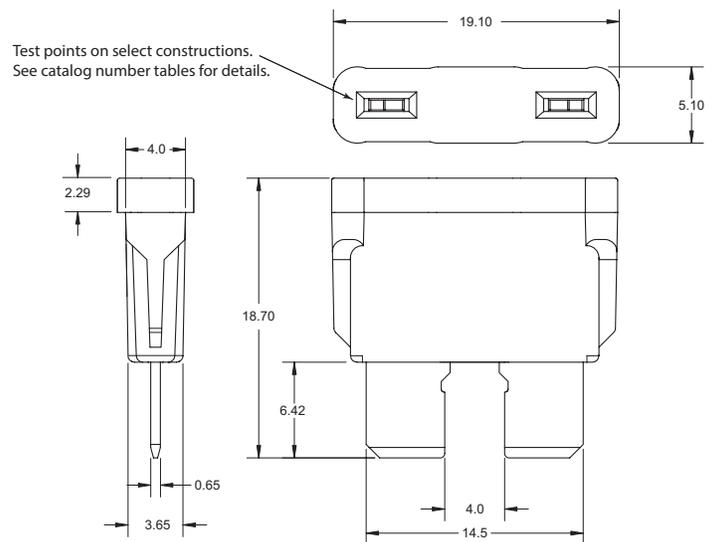
*** 135% Operating time of less than 4 amps.

Recommended fuse panels, holders and fuseclips:

| Catalog No. | Description | Max amps | Lead wire length/size |
|------------------|---|-------------|-----------------------|
| FP-ATC-(poles)ID | easyID fuse panel with cover, 4-, 6- and 10-pole versions | 100 | 1/4" quick-connect |
| BP/FB(poles)-ATC | Splash-proof fuse block with cover, 4-, 6-, 8- and 10-pole versions | 20 per pole | 1/4" quick-connect |
| 15600-(poles)-20 | ATC Fuse panel in 4- to 20-poles | 20 | — |
| HHC | Yellow, water resistant in-line fuse holder | 20 | 2x4"/#16 |
| HHD | Black, heavy-duty in-line fuse holder | 30 | 2x4"/#12 |
| HHF | Black, in-line fuse holder w/cover | 20 | 2x4"/#14 |
| HHG | Black, heavy-duty in-line fuse holder w/cover | 30 | 2x4"/#12 |
| HHR | Heavy-duty, water resistant in-line fuse holder | 30 | 2x5"/#12 |
| BP/HHS-RP | Self-stripping in-line fuse holder | 20 | #18 to #14 |
| BP/HHA-RP | Add-a-Fuse | 10 | N/A |
| ATC-FHID | Illuminating in-line fuse holder | 20 | 2x6"/#16 |
| 1A5600† | PCB fuseclip | 20 | — |
| 1A5780† | PCB fuseclip | 15 | — |

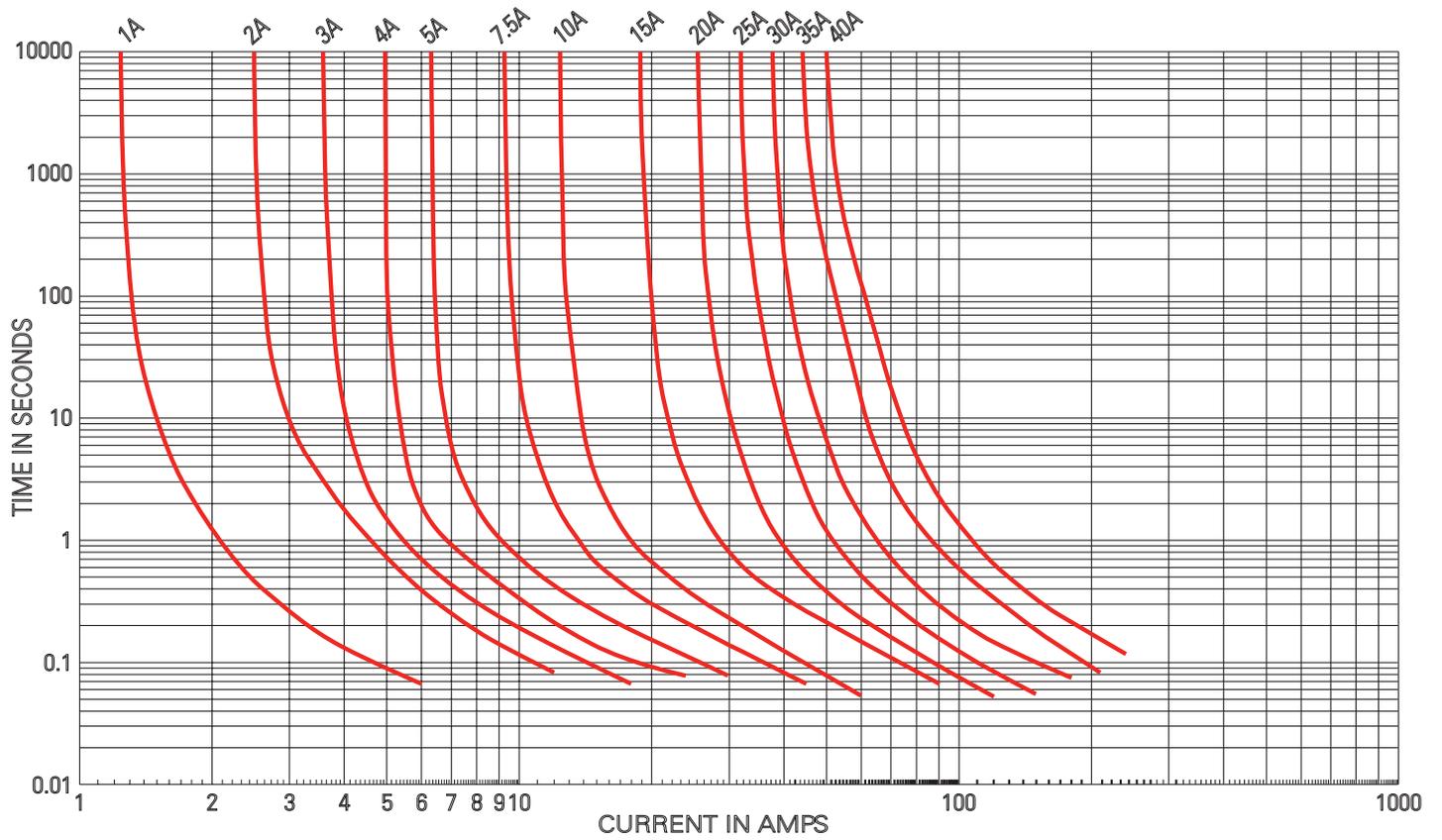
† See data sheet no. 2131 for details.

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

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 | — | BP/ATC-A5-RP (fuse assortment) | Polycarbonate |
| — | BK/ATC-2 | BP/ATC-2-RP | ATC-2 | — | BP/ATC-AH8-RPP (fuse emergency kit) | Polycarbonate |
| ATC-3RLD | BK/ATC-3 | BP/ATC-3-RP | ATC-3 | — | BP/ATC-AL8-RP (low amp assortment) | Polycarbonate |
| ATC-4RLD | BK/ATC-4 | BP/ATC-4-RP | ATC-4 | — | DIA-1 (diagnostic kit) | Polycarbonate |
| ATC-5RLD | BK/ATC-5 | BP/ATC-5-RP | ATC-5 | VP/ATC-5RP | NO.44 (fuse emergency kit) | Polycarbonate |
| ATC-7½RLD | BK/ATC-7½ | BP/ATC-7½-RP | ATC-7½ | VP/ATC-7½-RP | NO.80 (bulk assortment) | Polycarbonate |
| ATC-10RLD | BK/ATC-10 | BP/ATC-10-RP | ATC-10 | VP/ATC-10-RP | NO.95BK (ATC/ATM bulk assortment) | Polycarbonate |
| ATC-15RLD | BK/ATC-15 | BP/ATC-15-RP | ATC-15 | VP/ATC-15-RP | NO.53 (ATC/MAX fuse emergency kit) | Polycarbonate |
| ATC-20RLD | BK/ATC-20 | BP/ATC-20-RP | ATC-20 | VP/ATC-20-RP | NO.160BK (bulk assortment) | Polyamide |
| ATC-25RLD | BK/ATC-25 | BP/ATC-25-RP | ATC-25 | VP/ATC-25-RP | NO.225 (tilt bin assortment) | Polyamide |
| ATC-30RLD | BK/ATC-30 | BP/ATC-30-RP | ATC-30 | VP/ATC-30-RP | — | Polyamide |
| — | BK/ATC-35 | — | ATC-35 | — | — | Polyethersulfone |
| — | 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 7½A
(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. See poly material column for details on the fuses in each tin of this assortment.

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