

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 complaint.
- 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 complaint

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

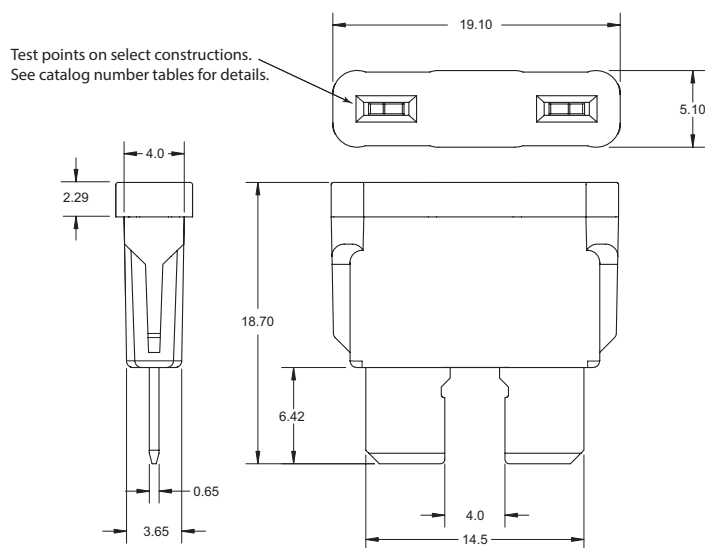
*** 135% Operating time of less than 4 amps.

Recommended fuse panels, holders and fuseclips:

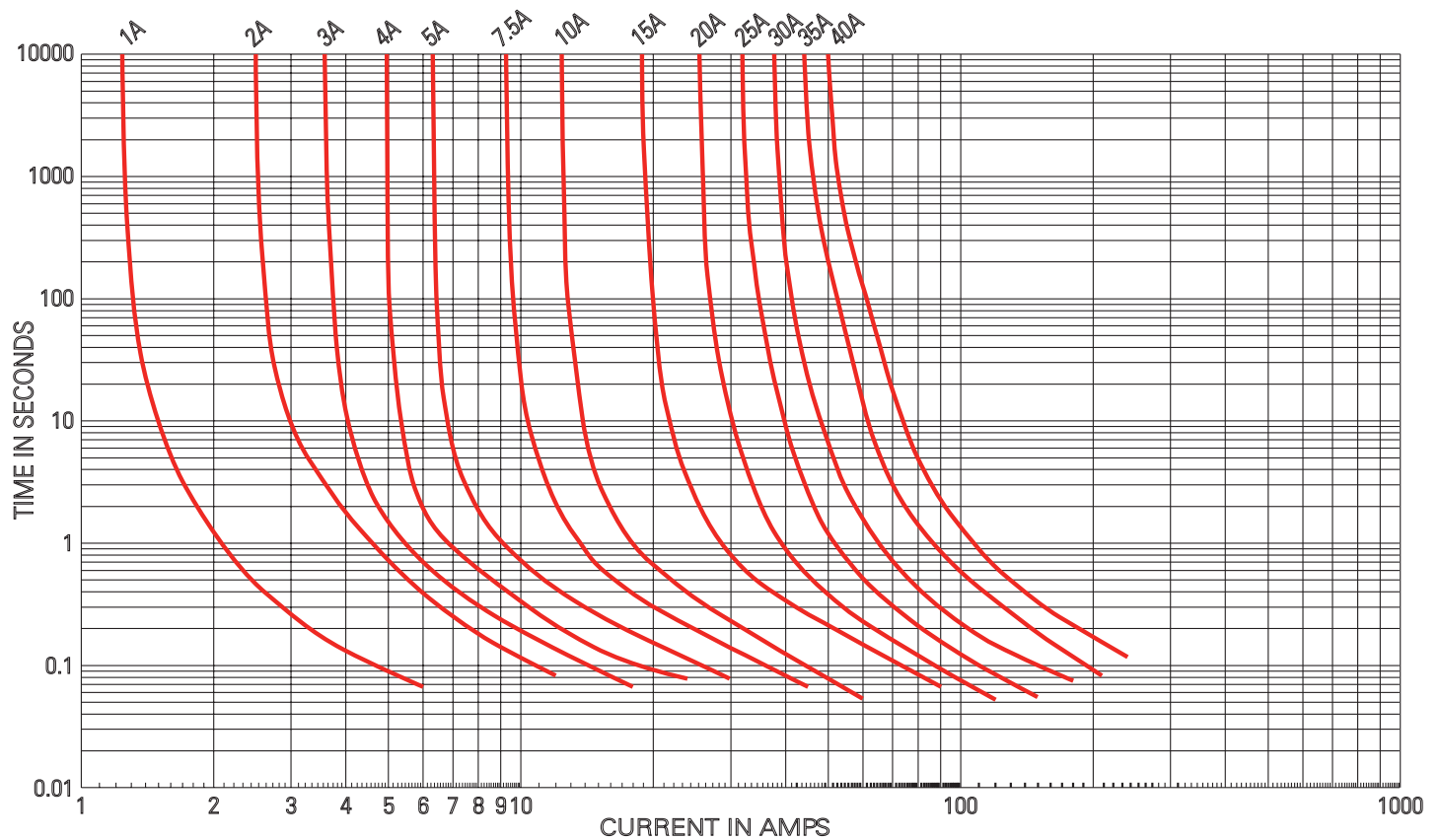
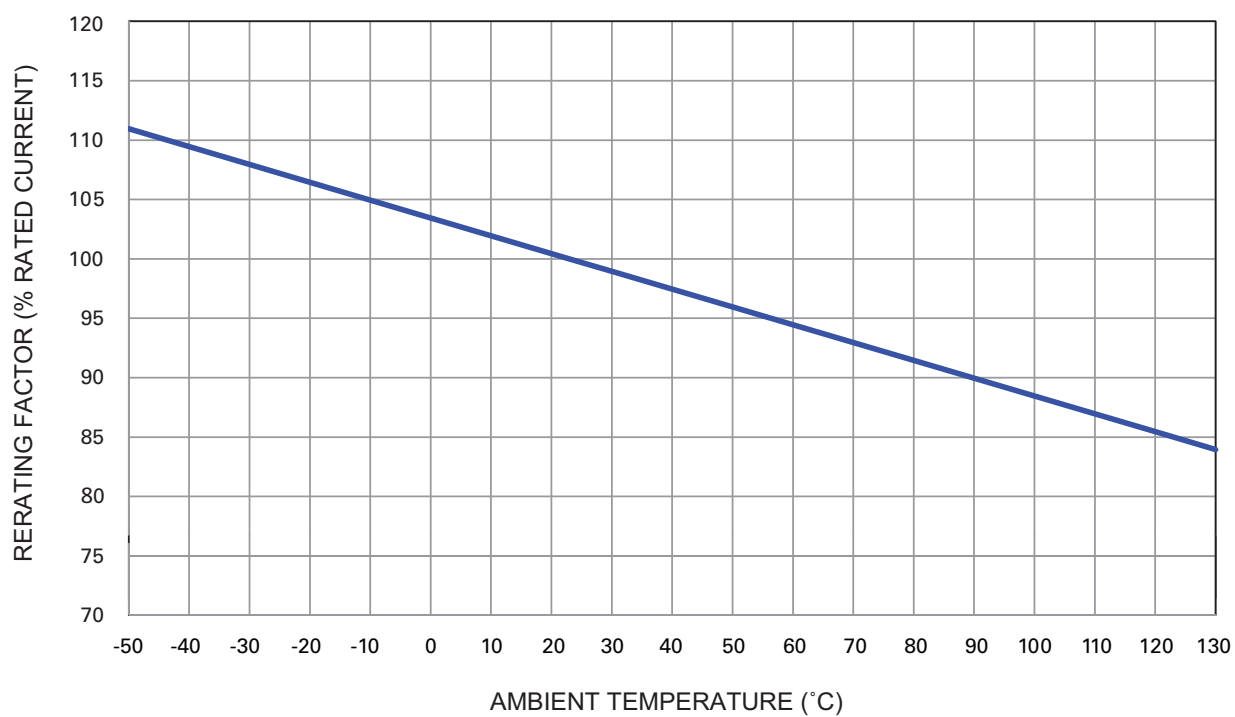
Catalog No.	Description	Max amps	Lead wire length/size
FP-ATC-(poles)ID	easyID fuse panel with cover, 4-, 6- and 10-pole versions	100	1/4" quick-connect
BP/FB(poles)-ATC	Splash-proof fuse block with cover, 4-, 6-, 8- and 10-pole versions	20 per pole	1/4" quick-connect
15600-(poles)-20	ATC Fuse panel 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**Temperature derating curve**

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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